

GW - 28

**MONITORING
REPORTS**

DATE:

2003

2 of 3

VOLUME II

GW-28

2003 ANNUAL GROUNDWATER REPORT

for

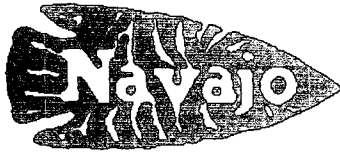
**NAVAJO REFINING COMPANY
ARTESIA, NEW MEXICO**



Prepared for:

**NEW MEXICO ENERGY, MINERAL and NATURAL RESOURCES
DEPARTMENT**

**OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, New Mexico**



REFINING COMPANY, L.P.

FAX

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501 EAST MAIN STREET ◦ P. O. BOX 159
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(505) 746-5421 ENGINEERING
(505) 746-5480 PIPELINE

January 30, 2003

Mr. Roger C. Anderson
Environmental Bureau Chief
Environmental Bureau
Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505-5472

RE: 2003 Annual Ground Water and Treatment System Monitoring Report, Navajo Refining

Dear Roger,

The referenced report is enclosed. It consists of the following:

- Recovery well production results
- Annual and Semi-annual groundwatersampling results,
- NCL/TEL groundwater monitoring results,
- Evaporation pond groundwater monitoring results,
- Reverse Osmosis Reject water analysis results, and the
- Irrigation well analysis results.

Per your agency's letter of April 17 2003, all of these sampling programs have been compiled into one annual groundwater report

The recovery of product and remediation of groundwater under the refinery is progressing favorably. The drop in thickness of product around the North Colony Landfarm and Tetra-Ethyl Lead Impoundment are testament to the recovery system's effectiveness.

If you have any questions concerning this submission, please call me at 505-748-3311.

Sincerely,
Navajo Refining Co.

Darrell Moore
Environmental Mgr. for Water and Waste

Encl.

Cc: Mr. Dave Cobrain, NMED, Hazardous Waste Bureau, 2905 Rodeo Park Drive East, Building 1, Santa Fe, NM 87505

ATTACHMENT C
2003 NCL/TEL LABORATORY ANALYTICAL REPORTS





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June 17, 2003

Mr. Dave Cobrain
New Mexico Environment Department
Hazardous Waste Bureau
2905 Rodeo Park Drive East, Building 1
Santa Fe, NM 87505

RE: FIRST QUARTER 2003, NORTH COLONY LANDFARM (NCL) AND TEL ASSESSMENT ANALYTICAL RESULTS

Dear Mr. Cobrain,

Enclosed are copies of the ground water analysis and STORET forms for the NCL and TEL sites. Attached is a Summary of the Field Observations (Table 1).

Monitoring wells MW-53 and TEL-4 are the designated hydraulically up gradient wells to their respective down gradient wells. However, during this sampling event, TEL-3 is the hydraulically up gradient well for its respective wells. We will continue to monitor this situation.

Sincerely,
NAVAJO REFINING COMPANY

Darrell Moore
Environmental Mgr. for Water and Waste

Encl.

Table 1
 Summary of Field Observations
 First 2003 Quarterly Sampling

WELL #	CONDUCTIVITY	TEMPERATURE	pH	ELEV. TO TOP OF CASING	GROUND WATER ELEVATION	TD	DEPTH TO H2O	DEPTH TO FLUID	THICKNES S OF PRODUCT	CORR. DEPTH TO H2O	WELL VOLUME	MINIMUM VOLUME EVACUATED	Comments
TEL 4	2650	22.3	7.48	3363.31	3353.68	27.2	9.63	9.63	0	9.63	2.9	9	slight odor
TEL 3	2550	23.6	7.07	3361.45	3354.35	27.2	7.32	7.07	0.25	7.10	3.3	10	slight odor
TEL 2	2490	22.4	7.19	3362.23	3354.02	27.2	8.23	8.21	0.02	8.21	3.1	10	htvy odor
TEL 1	2780	22.7	7.67	3361.34	3354.55	26.9	6.80	6.79	0.01	6.79	3.3	10	clear
MW-53	2040	19.2	7.00	3367.87	3353.49	20.5	14.38	14.38	0	14.38	1.0	3	clear
MW-55	2120	21.8	6.88	3363.97	3351.65	26.5	12.32	12.32	0	12.32	2.3	7	clear, no odor
MW-56	3130	22.7	6.98	3362.42	3351.40	26.5	11.02	11.02	0	11.02	2.5	8	clear, odor
MW-54A	1650	23.9	7.25	3365.66	3352.04	31.1	13.62	13.62	0	13.62	2.9	9	clear, odor
NCL-49	1804	18.9	7.36	3369.87	3351.83	32.1	18.04	18.04	0	18.04	2.3	7	oil sheen w/odor
NCL-32	2370	21.2	7.21	3363.72	3351.96	19.8	11.76	11.76	0	11.76	1.3	4	oil sheen
NCL-44	1750	22.3	6.87	3363.23	3351.96	19.7	11.27	11.27	0	11.27	1.4	5	clear
NCL-33	1810	19.8	6.73	3363.28	3352.22	20.5	11.06	11.06	0	11.06	1.5	5	clear
NCL-34	1770	22.8	6.65	3364.74	3352.08	19.3	12.66	12.66	0	12.66	1.1	4	clear



Pace Analytical Services, Inc.
900 Gemini Avenue
Houston, TX 77058
Phone: 281.488.1810
Fax: 281.488.4661

April 03, 2003

Mr. Darrell Moore
Navajo Refining Company
P.O. Drawer 159
Artesia, NM 88211

RE: Lab Project Number: 8532853
Client Project ID: NCL/TEL

Dear Mr. Moore:

Enclosed are the analytical results for sample(s) received by the laboratory March 12, 2003 through March 14, 2003. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Paula Kirtley
pkirtley@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.



Lab Project Number: 8532853
Client Project ID: NCL/TEL

Lab Sample No: 851795838 Project Sample Number: 8532853-001 Date Collected: 03/11/03 09:00
Client Sample ID: MW-53 Matrix: Water Date Received: 03/12/03 09:20

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	ReqLmt
Metals									
SW6010 Metals, Trace Water	Prep/Method: / EPA 6010								
Aluminum	565.	ug/l	200.	1.0	03/27/03 00:12	AJT1	7429-90-5		
Arsenic	ND	ug/l	10.0	1.0	03/27/03 00:12	AJT1	7440-38-2		
Barium	ND	ug/l	200.	1.0	03/27/03 00:12	AJT1	7440-39-3		
Beryllium	ND	ug/l	5.00	1.0	03/27/03 00:12	AJT1	7440-41-7		
Boron	367.	ug/l	100.	1.0	03/27/03 00:12	AJT1	7440-42-8		
Cadmium	ND	ug/l	5.00	1.0	03/27/03 00:12	AJT1	7440-43-9		
Chromium	ND	ug/l	10.0	1.0	03/27/03 00:12	AJT1	7440-47-3		
Cobalt	ND	ug/l	50.0	1.0	03/27/03 00:12	AJT1	7440-48-4		
Copper	35.9	ug/l	25.0	1.0	03/27/03 00:12	AJT1	7440-50-8		
Iron	ND	ug/l	100.	1.0	03/27/03 00:12	AJT1	7439-89-6		
Lead	ND	ug/l	3.00	1.0	03/27/03 00:12	AJT1	7439-92-1		
Manganese	2310	ug/l	15.0	1.0	03/27/03 00:12	AJT1	7439-96-5		
Molybdenum	18.0	ug/l	10.0	1.0	03/27/03 00:12	AJT1	7439-98-7		
Nickel	ND	ug/l	40.0	1.0	03/27/03 00:12	AJT1	7440-02-0		
Selenium	15.8	ug/l	5.00	1.0	03/27/03 00:12	AJT1	7782-49-2		
Silver	ND	ug/l	10.0	1.0	03/27/03 00:12	AJT1	7440-22-4		
Vanadium	ND	ug/l	50.0	1.0	03/27/03 00:12	AJT1	7440-62-2		
Zinc	ND	ug/l	20.0	1.0	03/27/03 00:12	AJT1	7440-66-6		

Mercury, Water, SW 7470	Method: EPA 7470								
Mercury	ND	ug/l	0.200	1.0	03/13/03 13:42	SSPI	7439-97-6		200

Wet Chemistry

Sulfide, Total	Method: EPA 376.1								
Sulfide	ND	mg/l	4.00	4.0	03/18/03 15:15	HFEB			
Phenolics, Total Recoverable	Method: EPA 420.2								
Phenolics, Total Recoverable	ND	mg/l	0.0100	1.0	03/27/03	HFEB			

GC/MS Semivolatiles

SW8270 Semivolatiles, Water	Prep/Method: EPA 3510 / EPA 8270								
Acenaphthene	ND	ug/l	10.9	1.1	03/21/03 14:33	ALS	83-32-9		
Acenaphthylene	ND	ug/l	10.9	1.1	03/21/03 14:33	ALS	208-96-8		
Aniline	ND	ug/l	10.9	1.1	03/21/03 14:33	ALS	62-53-3		
Anthracene	ND	ug/l	10.9	1.1	03/21/03 14:33	ALS	120-12-7		
Benzidine	ND	ug/l	10.9	1.1	03/21/03 14:33	ALS	92-87-5		
Benzo(a)anthracene	ND	ug/l	10.9	1.1	03/21/03 14:33	ALS	56-55-3		

Date: 04/03/03

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 8532853
Client Project ID: NCL/TEL

Lab Sample No: 851795838 Project Sample Number: 8532853-001 Date Collected: 03/11/03 09:00
Client Sample ID: MW-53 Matrix: Water Date Received: 03/12/03 09:20

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Benzo(a)pyrene	ND	ug/l	10.9	1.1	03/21/03 14:33	ALS	50-32-8		
Benzo(b)fluoranthene	ND	ug/l	10.9	1.1	03/21/03 14:33	ALS	205-99-2		
Benzo(g,h,i)perylene	ND	ug/l	10.9	1.1	03/21/03 14:33	ALS	191-24-2		
Benzo(k)fluoranthene	ND	ug/l	10.9	1.1	03/21/03 14:33	ALS	207-08-9		
Benzoic acid	ND	ug/l	27.3	1.1	03/21/03 14:33	ALS	65-85-0		
Benzyl alcohol	ND	ug/l	10.9	1.1	03/21/03 14:33	ALS	100-51-6		
4-Bromophenylphenyl ether	ND	ug/l	10.9	1.1	03/21/03 14:33	ALS	101-55-3		
Butylbenzylphthalate	ND	ug/l	10.9	1.1	03/21/03 14:33	ALS	85-68-7		
4-Chloro-3-methylphenol	ND	ug/l	10.9	1.1	03/21/03 14:33	ALS	59-50-7		
4-Chloroaniline	ND	ug/l	10.9	1.1	03/21/03 14:33	ALS	106-47-8		
bis(2-Chloroethoxy)methane	ND	ug/l	10.9	1.1	03/21/03 14:33	ALS	111-91-1		
bis(2-Chloroethyl) ether	ND	ug/l	10.9	1.1	03/21/03 14:33	ALS	111-44-4		
bis(2-Chloroisopropyl) ether	ND	ug/l	10.9	1.1	03/21/03 14:33	ALS	39638-32-9		
2-Chloronaphthalene	ND	ug/l	10.9	1.1	03/21/03 14:33	ALS	91-58-7		
2-Chlorophenol	ND	ug/l	10.9	1.1	03/21/03 14:33	ALS	95-57-8		
4-Chlorophenylphenyl ether	ND	ug/l	10.9	1.1	03/21/03 14:33	ALS	7005-72-3		
Chrysene	ND	ug/l	10.9	1.1	03/21/03 14:33	ALS	218-01-9		
Dibenz(a,h)anthracene	ND	ug/l	10.9	1.1	03/21/03 14:33	ALS	53-70-3		
Dibenzofuran	ND	ug/l	10.9	1.1	03/21/03 14:33	ALS	132-64-9		
1,2-Dichlorobenzene	ND	ug/l	10.9	1.1	03/21/03 14:33	ALS	95-50-1		
1,3-Dichlorobenzene	ND	ug/l	10.9	1.1	03/21/03 14:33	ALS	541-73-1		
1,4-Dichlorobenzene	ND	ug/l	10.9	1.1	03/21/03 14:33	ALS	106-46-7		
3,3'-Dichlorobenzidine	ND	ug/l	10.9	1.1	03/21/03 14:33	ALS	91-94-1		
2,4-Dichlorophenol	ND	ug/l	10.9	1.1	03/21/03 14:33	ALS	120-83-2		
Diethylphthalate	ND	ug/l	10.9	1.1	03/21/03 14:33	ALS	84-66-2		
2,4-Dimethylphenol	ND	ug/l	10.9	1.1	03/21/03 14:33	ALS	105-67-9		
Dimethylphthalate	ND	ug/l	10.9	1.1	03/21/03 14:33	ALS	131-11-3		
Di-n-butylphthalate	ND	ug/l	10.9	1.1	03/21/03 14:33	ALS	84-74-2		
4,6-Dinitro-2-methylphenol	ND	ug/l	10.9	1.1	03/21/03 14:33	ALS	534-52-1		
2,4-Dinitrophenol	ND	ug/l	10.9	1.1	03/21/03 14:33	ALS	51-28-5		
2,4-Dinitrotoluene	ND	ug/l	10.9	1.1	03/21/03 14:33	ALS	121-14-2		
2,6-Dinitrotoluene	ND	ug/l	10.9	1.1	03/21/03 14:33	ALS	606-20-2		
Di-n-octylphthalate	ND	ug/l	10.9	1.1	03/21/03 14:33	ALS	117-84-0		
bis(2-Ethylhexyl)phthalate	ND	ug/l	10.9	1.1	03/21/03 14:33	ALS	117-81-7		
Fluoranthene	ND	ug/l	10.9	1.1	03/21/03 14:33	ALS	206-44-0		
Fluorene	ND	ug/l	10.9	1.1	03/21/03 14:33	ALS	86-73-7		
Hexachloro-1,3-butadiene	ND	ug/l	10.9	1.1	03/21/03 14:33	ALS	87-68-3		
Hexachlorobenzene	ND	ug/l	10.9	1.1	03/21/03 14:33	ALS	118-74-1		
Hexachlorocyclopentadiene	ND	ug/l	10.9	1.1	03/21/03 14:33	ALS	77-47-4		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 8532853
Client Project ID: NCL/TEL

Lab Sample No: 851795838
Client Sample ID: MW-53

Project Sample Number: 8532853-001
Matrix: Water

Date Collected: 03/11/03 09:00
Date Received: 03/12/03 09:20

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Hexachloroethane	ND	ug/l	10.9	1.1	03/21/03 14:33	ALS	67-72-1		
Indeno(1,2,3-cd)pyrene	ND	ug/l	10.9	1.1	03/21/03 14:33	ALS	193-39-5		
Isophorone	ND	ug/l	10.9	1.1	03/21/03 14:33	ALS	78-59-1		
2-Methylnaphthalene	ND	ug/l	10.9	1.1	03/21/03 14:33	ALS	91-57-6		
2-Methylphenol (o-Cresol)	ND	ug/l	10.9	1.1	03/21/03 14:33	ALS	95-48-7		
3&4-Methylphenol	ND	ug/l	10.9	1.1	03/21/03 14:33	ALS			
Naphthalene	ND	ug/l	10.9	1.1	03/21/03 14:33	ALS	91-20-3		
2-Nitroaniline	ND	ug/l	10.9	1.1	03/21/03 14:33	ALS	88-74-4		
3-Nitroaniline	ND	ug/l	10.9	1.1	03/21/03 14:33	ALS	99-09-2		
4-Nitroaniline	ND	ug/l	10.9	1.1	03/21/03 14:33	ALS	100-01-6		
Nitrobenzene	ND	ug/l	10.9	1.1	03/21/03 14:33	ALS	98-95-3		
2-Nitrophenol	ND	ug/l	10.9	1.1	03/21/03 14:33	ALS	88-75-5		
4-Nitrophenol	ND	ug/l	10.9	1.1	03/21/03 14:33	ALS	100-02-7		
N-Nitrosodimethylamine	ND	ug/l	10.9	1.1	03/21/03 14:33	ALS	62-75-9		
N-Nitroso-di-n-propylamine	ND	ug/l	10.9	1.1	03/21/03 14:33	ALS	621-64-7		
N-Nitrosodiphenylamine	ND	ug/l	10.9	1.1	03/21/03 14:33	ALS	86-30-6		
Pentachlorophenol	ND	ug/l	10.9	1.1	03/21/03 14:33	ALS	87-86-5		
Phenanthrene	ND	ug/l	10.9	1.1	03/21/03 14:33	ALS	85-01-8		
Phenol	ND	ug/l	10.9	1.1	03/21/03 14:33	ALS	108-95-2		
Pyrene	ND	ug/l	10.9	1.1	03/21/03 14:33	ALS	129-00-0		
1,2,4-Trichlorobenzene	ND	ug/l	10.9	1.1	03/21/03 14:33	ALS	120-82-1		
2,4,5-Trichlorophenol	ND	ug/l	10.9	1.1	03/21/03 14:33	ALS	95-95-4		
2,4,6-Trichlorophenol	ND	ug/l	10.9	1.1	03/21/03 14:33	ALS	88-06-2		
Nitrobenzene-d5 (S)	20	%		1.0	03/21/03 14:33	ALS	4165-60-0		
2-Fluorobiphenyl (S)	17	%		1.0	03/21/03 14:33	ALS	321-60-8		
Terphenyl-d14 (S)	41	%		1.0	03/21/03 14:33	ALS	1718-51-0		
Phenol-d5 (S)	15	%		1.0	03/21/03 14:33	ALS	4165-62-2		
2-Fluorophenol (S)	21	%		1.0	03/21/03 14:33	ALS	367-12-4		
2,4,6-Tribromophenol (S)	21	%		1.0	03/21/03 14:33	ALS			
Date Extracted	03/14/03 17:00				03/14/03 17:00				

GC/MS Volatiles

SW8260 Volatiles, Water

Method: EPA 8260

Acetone	ND	ug/l	10.0	1.0	03/13/03 19:40	LJAS	67-64-1		
Benzene	ND	ug/l	5.00	1.0	03/13/03 19:40	LJAS	71-43-2		
Bromodichloromethane	ND	ug/l	5.00	1.0	03/13/03 19:40	LJAS	75-27-4		
Bromoform	ND	ug/l	5.00	1.0	03/13/03 19:40	LJAS	75-25-2		
Bromomethane	ND	ug/l	10.0	1.0	03/13/03 19:40	LJAS	74-83-9		
2-Butanone (MEK)	ND	ug/l	10.0	1.0	03/13/03 19:40	LJAS	78-93-3		

Date: 04/03/03

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REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
 900 Gemini Avenue
 Houston, TX 77058
 Phone: 281.488.1810
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Lab Project Number: 8532853
 Client Project ID: NCL/TEL

Lab Sample No: 851795838 Project Sample Number: 8532853-001 Date Collected: 03/11/03 09:00
 Client Sample ID: MW-53 Matrix: Water Date Received: 03/12/03 09:20

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Carbon disulfide	ND	ug/l	5.00	1.0	03/13/03 19:40	LJAS	75-15-0		
Carbon tetrachloride	ND	ug/l	5.00	1.0	03/13/03 19:40	LJAS	56-23-5		
Chlorobenzene	ND	ug/l	5.00	1.0	03/13/03 19:40	LJAS	108-90-7		
Chloroethane	ND	ug/l	10.0	1.0	03/13/03 19:40	LJAS	75-00-3		
2-Chloroethylvinyl ether	ND	ug/l	10.0	1.0	03/13/03 19:40	LJAS	110-75-8		
Chloroform	ND	ug/l	5.00	1.0	03/13/03 19:40	LJAS	67-66-3		
Chloromethane	ND	ug/l	10.0	1.0	03/13/03 19:40	LJAS	74-87-3		
Dibromochloromethane	ND	ug/l	5.00	1.0	03/13/03 19:40	LJAS	124-48-1		
1,1-Dichloroethane	ND	ug/l	5.00	1.0	03/13/03 19:40	LJAS	75-34-3		
1,2-Dichloroethane	ND	ug/l	5.00	1.0	03/13/03 19:40	LJAS	107-06-2		
1,1-Dichloroethene	ND	ug/l	5.00	1.0	03/13/03 19:40	LJAS	75-35-4		
cis-1,2-Dichloroethene	ND	ug/l	5.00	1.0	03/13/03 19:40	LJAS	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	5.00	1.0	03/13/03 19:40	LJAS	156-60-5		
1,2-Dichloropropane	ND	ug/l	5.00	1.0	03/13/03 19:40	LJAS	78-87-5		
cis-1,3-Dichloropropene	ND	ug/l	5.00	1.0	03/13/03 19:40	LJAS	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/l	5.00	1.0	03/13/03 19:40	LJAS	10061-02-6		
Ethylbenzene	ND	ug/l	5.00	1.0	03/13/03 19:40	LJAS	100-41-4		
2-Hexanone	ND	ug/l	10.0	1.0	03/13/03 19:40	LJAS	591-78-6		
Methylene chloride	ND	ug/l	5.00	1.0	03/13/03 19:40	LJAS	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/l	10.0	1.0	03/13/03 19:40	LJAS	108-10-1		
Styrene	ND	ug/l	5.00	1.0	03/13/03 19:40	LJAS	100-42-5		
1,1,2,2-Tetrachloroethane	ND	ug/l	5.00	1.0	03/13/03 19:40	LJAS	79-34-5		
Tetrachloroethene	ND	ug/l	5.00	1.0	03/13/03 19:40	LJAS	127-18-4		
Toluene	ND	ug/l	5.00	1.0	03/13/03 19:40	LJAS	108-88-3		
1,1,1-Trichloroethane	ND	ug/l	5.00	1.0	03/13/03 19:40	LJAS	71-55-6		
1,1,2-Trichloroethane	ND	ug/l	5.00	1.0	03/13/03 19:40	LJAS	79-00-5		
Trichloroethene	ND	ug/l	5.00	1.0	03/13/03 19:40	LJAS	79-01-6		
Vinyl acetate	ND	ug/l	5.00	1.0	03/13/03 19:40	LJAS	108-05-4		
Vinyl chloride	ND	ug/l	10.0	1.0	03/13/03 19:40	LJAS	75-01-4		
Xylene (Total)	ND	ug/l	5.00	1.0	03/13/03 19:40	LJAS	1330-20-7		
m&p-Xylene	ND	ug/l	5.00	1.0	03/13/03 19:40	LJAS			
o-Xylene	ND	ug/l	5.00	1.0	03/13/03 19:40	LJAS	95-47-6		
Toluene-d8 (S)	97	%		1.0	03/13/03 19:40	LJAS	2037-26-5		
4-Bromofluorobenzene (S)	94	%		1.0	03/13/03 19:40	LJAS	460-00-4		
1,2-Dichloroethane-d4 (S)	103	%		1.0	03/13/03 19:40	LJAS	17060-07-0		

Comments : ARS performed the Total Uranium analysis. Please refer to the enclosed report.

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 8532853
Client Project ID: NCL/TEL

Lab Sample No: 851795839 Project Sample Number: 8532853-002 Date Collected: 03/11/03 09:50
Client Sample ID: NCL-49 Matrix: Water Date Received: 03/12/03 09:20

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	ReqLmt
Metals									
SW6010 Metals, Trace Water	Prep/Method: / EPA 6010								
Aluminum	674.	ug/l	200.	1.0	03/27/03 00:24	AJT1	7429-90-5		
Arsenic	ND	ug/l	10.0	1.0	03/27/03 00:24	AJT1	7440-38-2		
Barium	ND	ug/l	200.	1.0	03/27/03 00:24	AJT1	7440-39-3		
Beryllium	ND	ug/l	5.00	1.0	03/27/03 00:24	AJT1	7440-41-7		
Boron	261.	ug/l	100.	1.0	03/27/03 00:24	AJT1	7440-42-8		
Cadmium	ND	ug/l	5.00	1.0	03/27/03 00:24	AJT1	7440-43-9		
Chromium	ND	ug/l	10.0	1.0	03/27/03 00:24	AJT1	7440-47-3		
Cobalt	ND	ug/l	50.0	1.0	03/27/03 00:24	AJT1	7440-48-4		
Copper	46.2	ug/l	25.0	1.0	03/27/03 00:24	AJT1	7440-50-8		
Iron	ND	ug/l	100.	1.0	03/27/03 00:24	AJT1	7439-89-6		
Lead	ND	ug/l	3.00	1.0	03/27/03 00:24	AJT1	7439-92-1		
Manganese	ND	ug/l	15.0	1.0	03/27/03 00:24	AJT1	7439-96-5		
Molybdenum	ND	ug/l	10.0	1.0	03/27/03 00:24	AJT1	7439-98-7		
Nickel	ND	ug/l	40.0	1.0	03/27/03 00:24	AJT1	7440-02-0		
Selenium	30.8	ug/l	5.00	1.0	03/27/03 00:24	AJT1	7782-49-2		
Silver	ND	ug/l	10.0	1.0	03/27/03 00:24	AJT1	7440-22-4		
Vanadium	ND	ug/l	50.0	1.0	03/27/03 00:24	AJT1	7440-62-2		
Zinc	ND	ug/l	20.0	1.0	03/27/03 00:24	AJT1	7440-66-6		

Mercury, Water, SW 7470	Method: EPA 7470								
Mercury	ND	ug/l	0.200	1.0	03/13/03 13:42	SSPI	7439-97-6		200

Wet Chemistry

Sulfide, Total	Method: EPA 376.1								
Sulfide	ND	mg/l	2.00	2.0	03/18/03 15:15	HFEB			
Phenolics, Total Recoverable	Method: EPA 420.2								
Phenolics, Total Recoverable	ND	mg/l	0.0100	1.0	03/27/03	HFEB			

GC/MS Semivolatiles

SW8270 Semivolatiles, Water	Prep/Method: EPA 3510 / EPA 8270								
Acenaphthene	ND	ug/l	10.8	1.1	03/21/03 15:10	ALS	83-32-9		
Acenaphthylene	ND	ug/l	10.8	1.1	03/21/03 15:10	ALS	208-96-8		
Aniline	ND	ug/l	10.8	1.1	03/21/03 15:10	ALS	62-53-3		
Anthracene	ND	ug/l	10.8	1.1	03/21/03 15:10	ALS	120-12-7		
Benzidine	ND	ug/l	10.8	1.1	03/21/03 15:10	ALS	92-87-5		
Benzo(a)anthracene	ND	ug/l	10.8	1.1	03/21/03 15:10	ALS	56-55-3		

Date: 04/03/03

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 8532853
Client Project ID: NCL/TEL

Lab Sample No: 851795839
Client Sample ID: NCL-49

Project Sample Number: 8532853-002
Matrix: Water

Date Collected: 03/11/03 09:50
Date Received: 03/12/03 09:20

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	ReqLmt
Benzo(a)pyrene	ND	ug/l	10.8	1.1	03/21/03 15:10	ALS	50-32-8		
Benzo(b)fluoranthene	ND	ug/l	10.8	1.1	03/21/03 15:10	ALS	205-99-2		
Benzo(g,h,i)perylene	ND	ug/l	10.8	1.1	03/21/03 15:10	ALS	191-24-2		
Benzo(k)fluoranthene	ND	ug/l	10.8	1.1	03/21/03 15:10	ALS	207-08-9		
Benzoic acid	ND	ug/l	27.0	1.1	03/21/03 15:10	ALS	65-85-0		
Benzyl alcohol	ND	ug/l	10.8	1.1	03/21/03 15:10	ALS	100-51-6		
4-Bromophenylphenyl ether	ND	ug/l	10.8	1.1	03/21/03 15:10	ALS	101-55-3		
Butylbenzylphthalate	ND	ug/l	10.8	1.1	03/21/03 15:10	ALS	85-68-7		
4-Chloro-3-methylphenol	ND	ug/l	10.8	1.1	03/21/03 15:10	ALS	59-50-7		
4-Chloroaniline	ND	ug/l	10.8	1.1	03/21/03 15:10	ALS	106-47-8		
bis(2-Chloroethoxy)methane	ND	ug/l	10.8	1.1	03/21/03 15:10	ALS	111-91-1		
bis(2-Chloroethyl) ether	ND	ug/l	10.8	1.1	03/21/03 15:10	ALS	111-44-4		
bis(2-Chloroisopropyl) ether	ND	ug/l	10.8	1.1	03/21/03 15:10	ALS	39638-32-9		
2-Chloronaphthalene	ND	ug/l	10.8	1.1	03/21/03 15:10	ALS	91-58-7		
2-Chlorophenol	ND	ug/l	10.8	1.1	03/21/03 15:10	ALS	95-57-8		
4-Chlorophenylphenyl ether	ND	ug/l	10.8	1.1	03/21/03 15:10	ALS	7005-72-3		
Chrysene	ND	ug/l	10.8	1.1	03/21/03 15:10	ALS	218-01-9		
Dibenz(a,h)anthracene	ND	ug/l	10.8	1.1	03/21/03 15:10	ALS	53-70-3		
Dibenzofuran	ND	ug/l	10.8	1.1	03/21/03 15:10	ALS	132-64-9		
1,2-Dichlorobenzene	ND	ug/l	10.8	1.1	03/21/03 15:10	ALS	95-50-1		
1,3-Dichlorobenzene	ND	ug/l	10.8	1.1	03/21/03 15:10	ALS	541-73-1		
1,4-Dichlorobenzene	ND	ug/l	10.8	1.1	03/21/03 15:10	ALS	106-46-7		
3,3'-Dichlorobenzidine	ND	ug/l	10.8	1.1	03/21/03 15:10	ALS	91-94-1		
2,4-Dichlorophenol	ND	ug/l	10.8	1.1	03/21/03 15:10	ALS	120-83-2		
Diethylphthalate	ND	ug/l	10.8	1.1	03/21/03 15:10	ALS	84-66-2		
2,4-Dimethylphenol	ND	ug/l	10.8	1.1	03/21/03 15:10	ALS	105-67-9		
Dimethylphthalate	ND	ug/l	10.8	1.1	03/21/03 15:10	ALS	131-11-3		
Di-n-butylphthalate	ND	ug/l	10.8	1.1	03/21/03 15:10	ALS	84-74-2		
4,6-Dinitro-2-methylphenol	ND	ug/l	10.8	1.1	03/21/03 15:10	ALS	534-52-1		
2,4-Dinitrophenol	ND	ug/l	10.8	1.1	03/21/03 15:10	ALS	51-28-5		
2,4-Dinitrotoluene	ND	ug/l	10.8	1.1	03/21/03 15:10	ALS	121-14-2		
2,6-Dinitrotoluene	ND	ug/l	10.8	1.1	03/21/03 15:10	ALS	606-20-2		
Di-n-octylphthalate	ND	ug/l	10.8	1.1	03/21/03 15:10	ALS	117-84-0		
bis(2-Ethylhexyl)phthalate	ND	ug/l	10.8	1.1	03/21/03 15:10	ALS	117-81-7		
Fluoranthene	ND	ug/l	10.8	1.1	03/21/03 15:10	ALS	206-44-0		
Fluorene	ND	ug/l	10.8	1.1	03/21/03 15:10	ALS	86-73-7		
Hexachloro-1,3-butadiene	ND	ug/l	10.8	1.1	03/21/03 15:10	ALS	87-68-3		
Hexachlorobenzene	ND	ug/l	10.8	1.1	03/21/03 15:10	ALS	118-74-1		
Hexachlorocyclopentadiene	ND	ug/l	10.8	1.1	03/21/03 15:10	ALS	77-47-4		

Date: 04/03/03

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 8532853
Client Project ID: NCL/TEL

Lab Sample No: 851795839 Project Sample Number: 8532853-002 Date Collected: 03/11/03 09:50
Client Sample ID: NCL-49 Matrix: Water Date Received: 03/12/03 09:20

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	ReqLmt
Hexachloroethane	ND	ug/l	10.8	1.1	03/21/03 15:10	ALS	67-72-1		
Indeno(1,2,3-cd)pyrene	ND	ug/l	10.8	1.1	03/21/03 15:10	ALS	193-39-5		
Isophorone	ND	ug/l	10.8	1.1	03/21/03 15:10	ALS	78-59-1		
2-Methylnaphthalene	ND	ug/l	10.8	1.1	03/21/03 15:10	ALS	91-57-6		
2-Methylphenol (o-Cresol)	ND	ug/l	10.8	1.1	03/21/03 15:10	ALS	95-48-7		
3&4-Methylphenol	ND	ug/l	10.8	1.1	03/21/03 15:10	ALS			
Naphthalene	ND	ug/l	10.8	1.1	03/21/03 15:10	ALS	91-20-3		
2-Nitroaniline	ND	ug/l	10.8	1.1	03/21/03 15:10	ALS	88-74-4		
3-Nitroaniline	ND	ug/l	10.8	1.1	03/21/03 15:10	ALS	99-09-2		
4-Nitroaniline	ND	ug/l	10.8	1.1	03/21/03 15:10	ALS	100-01-6		
Nitrobenzene	ND	ug/l	10.8	1.1	03/21/03 15:10	ALS	98-95-3		
2-Nitrophenol	ND	ug/l	10.8	1.1	03/21/03 15:10	ALS	88-75-5		
4-Nitrophenol	ND	ug/l	10.8	1.1	03/21/03 15:10	ALS	100-02-7		
N-Nitrosodimethylamine	ND	ug/l	10.8	1.1	03/21/03 15:10	ALS	62-75-9		
N-Nitroso-di-n-propylamine	ND	ug/l	10.8	1.1	03/21/03 15:10	ALS	621-64-7		
N-Nitrosodiphenylamine	ND	ug/l	10.8	1.1	03/21/03 15:10	ALS	86-30-6		
Pentachlorophenol	ND	ug/l	10.8	1.1	03/21/03 15:10	ALS	87-86-5		
Phenanthrene	ND	ug/l	10.8	1.1	03/21/03 15:10	ALS	85-01-8		
Phenol	ND	ug/l	10.8	1.1	03/21/03 15:10	ALS	108-95-2		
Pyrene	ND	ug/l	10.8	1.1	03/21/03 15:10	ALS	129-00-0		
1,2,4-Trichlorobenzene	ND	ug/l	10.8	1.1	03/21/03 15:10	ALS	120-82-1		
2,4,5-Trichlorophenol	ND	ug/l	10.8	1.1	03/21/03 15:10	ALS	95-95-4		
2,4,6-Trichlorophenol	ND	ug/l	10.8	1.1	03/21/03 15:10	ALS	88-06-2		
Nitrobenzene-d5 (S)	35	%		1.0	03/21/03 15:10	ALS	4165-60-0		
2-Fluorobiphenyl (S)	31	%		1.0	03/21/03 15:10	ALS	321-60-8		
Terphenyl-d14 (S)	67	%		1.0	03/21/03 15:10	ALS	1718-51-0		
Phenol-d5 (S)	21	%		1.0	03/21/03 15:10	ALS	4165-62-2		
2-Fluorophenol (S)	30	%		1.0	03/21/03 15:10	ALS	367-12-4		
2,4,6-Tribromophenol (S)	33	%		1.0	03/21/03 15:10	ALS			
Date Extracted	03/14/03 17:00				03/14/03 17:00				

GC/MS Volatiles

SW8260 Volatiles, Water

Method: EPA 8260

Acetone	ND	ug/l	10.0	1.0	03/13/03 20:05	LJAS	67-64-1		
Benzene	ND	ug/l	5.00	1.0	03/13/03 20:05	LJAS	71-43-2		
Bromodichloromethane	ND	ug/l	5.00	1.0	03/13/03 20:05	LJAS	75-27-4		
Bromoform	ND	ug/l	5.00	1.0	03/13/03 20:05	LJAS	75-25-2		
Bromomethane	ND	ug/l	10.0	1.0	03/13/03 20:05	LJAS	74-83-9		
2-Butanone (MEK)	ND	ug/l	10.0	1.0	03/13/03 20:05	LJAS	78-93-3		

Date: 04/03/03

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 8532853
Client Project ID: NCL/TEL

Lab Sample No: 851795839
Client Sample ID: NCL-49

Project Sample Number: 8532853-002
Matrix: Water

Date Collected: 03/11/03 09:50
Date Received: 03/12/03 09:20

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	ReqLmt
Carbon disulfide	ND	ug/l	5.00	1.0	03/13/03 20:05	LJAS	75-15-0		
Carbon tetrachloride	ND	ug/l	5.00	1.0	03/13/03 20:05	LJAS	56-23-5		
Chlorobenzene	ND	ug/l	5.00	1.0	03/13/03 20:05	LJAS	108-90-7		
Chloroethane	ND	ug/l	10.0	1.0	03/13/03 20:05	LJAS	75-00-3		
2-Chloroethylvinyl ether	ND	ug/l	10.0	1.0	03/13/03 20:05	LJAS	110-75-8		
Chloroform	ND	ug/l	5.00	1.0	03/13/03 20:05	LJAS	67-66-3		
Chloromethane	ND	ug/l	10.0	1.0	03/13/03 20:05	LJAS	74-87-3		
Dibromochloromethane	ND	ug/l	5.00	1.0	03/13/03 20:05	LJAS	124-48-1		
1,1-Dichloroethane	ND	ug/l	5.00	1.0	03/13/03 20:05	LJAS	75-34-3		
1,2-Dichloroethane	ND	ug/l	5.00	1.0	03/13/03 20:05	LJAS	107-06-2		
1,1-Dichloroethene	ND	ug/l	5.00	1.0	03/13/03 20:05	LJAS	75-35-4		
cis-1,2-Dichloroethene	ND	ug/l	5.00	1.0	03/13/03 20:05	LJAS	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	5.00	1.0	03/13/03 20:05	LJAS	156-60-5		
1,2-Dichloropropane	ND	ug/l	5.00	1.0	03/13/03 20:05	LJAS	78-87-5		
cis-1,3-Dichloropropene	ND	ug/l	5.00	1.0	03/13/03 20:05	LJAS	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/l	5.00	1.0	03/13/03 20:05	LJAS	10061-02-6		
Ethylbenzene	ND	ug/l	5.00	1.0	03/13/03 20:05	LJAS	100-41-4		
2-Hexanone	ND	ug/l	10.0	1.0	03/13/03 20:05	LJAS	591-78-6		
Methylene chloride	ND	ug/l	5.00	1.0	03/13/03 20:05	LJAS	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/l	10.0	1.0	03/13/03 20:05	LJAS	108-10-1		
Styrene	ND	ug/l	5.00	1.0	03/13/03 20:05	LJAS	100-42-5		
1,1,2,2-Tetrachloroethane	ND	ug/l	5.00	1.0	03/13/03 20:05	LJAS	79-34-5		
Tetrachloroethene	ND	ug/l	5.00	1.0	03/13/03 20:05	LJAS	127-18-4		
Toluene	ND	ug/l	5.00	1.0	03/13/03 20:05	LJAS	108-88-3		
1,1,1-Trichloroethane	ND	ug/l	5.00	1.0	03/13/03 20:05	LJAS	71-55-6		
1,1,2-Trichloroethane	ND	ug/l	5.00	1.0	03/13/03 20:05	LJAS	79-00-5		
Trichloroethene	ND	ug/l	5.00	1.0	03/13/03 20:05	LJAS	79-01-6		
Vinyl acetate	ND	ug/l	5.00	1.0	03/13/03 20:05	LJAS	108-05-4		
Vinyl chloride	ND	ug/l	10.0	1.0	03/13/03 20:05	LJAS	75-01-4		
Xylene (Total)	ND	ug/l	5.00	1.0	03/13/03 20:05	LJAS	1330-20-7		
m&p-Xylene	ND	ug/l	5.00	1.0	03/13/03 20:05	LJAS			
o-Xylene	ND	ug/l	5.00	1.0	03/13/03 20:05	LJAS	95-47-6		
Toluene-d8 (S)	101	%		1.0	03/13/03 20:05	LJAS	2037-26-5		
4-Bromofluorobenzene (S)	98	%		1.0	03/13/03 20:05	LJAS	460-00-4		
1,2-Dichloroethane-d4 (S)	102	%		1.0	03/13/03 20:05	LJAS	17060-07-0		

Comments : ARS performed the Total Uranium analysis. Please refer to the enclosed report.

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 8532853
Client Project ID: NCL/TEL

Lab Sample No: 851795840 Project Sample Number: 8532853-003 Date Collected: 03/11/03 10:20
Client Sample ID: NCL-32 Matrix: Water Date Received: 03/12/03 09:20

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
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Metals

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
SW6010 Metals, Trace Water	Prep/Method: / EPA 6010								
Aluminum	632.	ug/l	200.	1.0	03/27/03 00:30	AJT1	7429-90-5		
Arsenic	ND	ug/l	10.0	1.0	03/27/03 00:30	AJT1	7440-38-2		
Barium	ND	ug/l	200.	1.0	03/27/03 00:30	AJT1	7440-39-3		
Beryllium	ND	ug/l	5.00	1.0	03/27/03 00:30	AJT1	7440-41-7		
Boron	286.	ug/l	100.	1.0	03/27/03 00:30	AJT1	7440-42-8		
Cadmium	ND	ug/l	5.00	1.0	03/27/03 00:30	AJT1	7440-43-9		
Chromium	ND	ug/l	10.0	1.0	03/27/03 00:30	AJT1	7440-47-3		
Cobalt	ND	ug/l	50.0	1.0	03/27/03 00:30	AJT1	7440-48-4		
Copper	47.4	ug/l	25.0	1.0	03/27/03 00:30	AJT1	7440-50-8		
Iron	ND	ug/l	100.	1.0	03/27/03 00:30	AJT1	7439-89-6		
Lead	ND	ug/l	3.00	1.0	03/27/03 00:30	AJT1	7439-92-1		
Manganese	879.	ug/l	15.0	1.0	03/27/03 00:30	AJT1	7439-96-5		
Molybdenum	ND	ug/l	10.0	1.0	03/27/03 00:30	AJT1	7439-98-7		
Nickel	ND	ug/l	40.0	1.0	03/27/03 00:30	AJT1	7440-02-0		
Selenium	27.3	ug/l	5.00	1.0	03/27/03 00:30	AJT1	7782-49-2		
Silver	ND	ug/l	10.0	1.0	03/27/03 00:30	AJT1	7440-22-4		
Vanadium	ND	ug/l	50.0	1.0	03/27/03 00:30	AJT1	7440-62-2		
Zinc	ND	ug/l	20.0	1.0	03/27/03 00:30	AJT1	7440-66-6		

Mercury, Water, SW 7470	Method: EPA 7470								
Mercury	ND	ug/l	0.200	1.0	03/13/03 13:42	SSPI	7439-97-6		200

Wet Chemistry

Sulfide, Total	Method: EPA 376.1								
Sulfide	ND	mg/l	4.00	4.0	03/18/03 15:15	HFEB			

Phenolics, Total Recoverable	Method: EPA 420.2								
Phenolics, Total Recoverable	ND	mg/l	0.0100	1.0	03/27/03	HFEB			

GC/MS Semivolatiles

SW8270 Semivolatiles, Water	Prep/Method: EPA 3510 / EPA 8270								
Acenaphthene	ND	ug/l	10.4	1.0	03/21/03 15:46	ALS	83-32-9		
Acenaphthylene	ND	ug/l	10.4	1.0	03/21/03 15:46	ALS	208-96-8		
Aniline	ND	ug/l	10.4	1.0	03/21/03 15:46	ALS	62-53-3		
Anthracene	ND	ug/l	10.4	1.0	03/21/03 15:46	ALS	120-12-7		
Benzidine	ND	ug/l	10.4	1.0	03/21/03 15:46	ALS	92-87-5		
Benzo(a)anthracene	ND	ug/l	10.4	1.0	03/21/03 15:46	ALS	56-55-3		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 8532853

Client Project ID: NCL/TEL

Lab Sample No: 851795840
Client Sample ID: NCL-32

Project Sample Number: 8532853-003
Matrix: Water

Date Collected: 03/11/03 10:20
Date Received: 03/12/03 09:20

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	ReqLmt
Benzo(a)pyrene	ND	ug/l	10.4	1.0	03/21/03 15:46	ALS	50-32-8		
Benzo(b)fluoranthene	ND	ug/l	10.4	1.0	03/21/03 15:46	ALS	205-99-2		
Benzo(g,h,i)perylene	ND	ug/l	10.4	1.0	03/21/03 15:46	ALS	191-24-2		
Benzo(k)fluoranthene	ND	ug/l	10.4	1.0	03/21/03 15:46	ALS	207-08-9		
Benzoic acid	ND	ug/l	26.0	1.0	03/21/03 15:46	ALS	65-85-0		
Benzyl alcohol	ND	ug/l	10.4	1.0	03/21/03 15:46	ALS	100-51-6		
4-Bromophenylphenyl ether	ND	ug/l	10.4	1.0	03/21/03 15:46	ALS	101-55-3		
Butylbenzylphthalate	ND	ug/l	10.4	1.0	03/21/03 15:46	ALS	85-68-7		
4-Chloro-3-methylphenol	ND	ug/l	10.4	1.0	03/21/03 15:46	ALS	59-50-7		
4-Chloroaniline	ND	ug/l	10.4	1.0	03/21/03 15:46	ALS	106-47-8		
bis(2-Chloroethoxy)methane	ND	ug/l	10.4	1.0	03/21/03 15:46	ALS	111-91-1		
bis(2-Chloroethyl) ether	ND	ug/l	10.4	1.0	03/21/03 15:46	ALS	111-44-4		
bis(2-Chloroisopropyl) ether	ND	ug/l	10.4	1.0	03/21/03 15:46	ALS	39638-32-9		
2-Chloronaphthalene	ND	ug/l	10.4	1.0	03/21/03 15:46	ALS	91-58-7		
2-Chlorophenol	ND	ug/l	10.4	1.0	03/21/03 15:46	ALS	95-57-8		
4-Chlorophenylphenyl ether	ND	ug/l	10.4	1.0	03/21/03 15:46	ALS	7005-72-3		
Chrysene	ND	ug/l	10.4	1.0	03/21/03 15:46	ALS	218-01-9		
Dibenz(a,h)anthracene	ND	ug/l	10.4	1.0	03/21/03 15:46	ALS	53-70-3		
Dibenzofuran	ND	ug/l	10.4	1.0	03/21/03 15:46	ALS	132-64-9		
1,2-Dichlorobenzene	ND	ug/l	10.4	1.0	03/21/03 15:46	ALS	95-50-1		
1,3-Dichlorobenzene	ND	ug/l	10.4	1.0	03/21/03 15:46	ALS	541-73-1		
1,4-Dichlorobenzene	ND	ug/l	10.4	1.0	03/21/03 15:46	ALS	106-46-7		
3,3'-Dichlorobenzidine	ND	ug/l	10.4	1.0	03/21/03 15:46	ALS	91-94-1		
2,4-Dichlorophenol	ND	ug/l	10.4	1.0	03/21/03 15:46	ALS	120-83-2		
Diethylphthalate	ND	ug/l	10.4	1.0	03/21/03 15:46	ALS	84-66-2		
2,4-Dimethylphenol	ND	ug/l	10.4	1.0	03/21/03 15:46	ALS	105-67-9		
Dimethylphthalate	ND	ug/l	10.4	1.0	03/21/03 15:46	ALS	131-11-3		
Di-n-butylphthalate	ND	ug/l	10.4	1.0	03/21/03 15:46	ALS	84-74-2		
4,6-Dinitro-2-methylphenol	ND	ug/l	10.4	1.0	03/21/03 15:46	ALS	534-52-1		
2,4-Dinitrophenol	ND	ug/l	10.4	1.0	03/21/03 15:46	ALS	51-28-5		
2,4-Dinitrotoluene	ND	ug/l	10.4	1.0	03/21/03 15:46	ALS	121-14-2		
2,6-Dinitrotoluene	ND	ug/l	10.4	1.0	03/21/03 15:46	ALS	606-20-2		
Di-n-octylphthalate	ND	ug/l	10.4	1.0	03/21/03 15:46	ALS	117-84-0		
bis(2-Ethylhexyl)phthalate	ND	ug/l	10.4	1.0	03/21/03 15:46	ALS	117-81-7		
Fluoranthene	ND	ug/l	10.4	1.0	03/21/03 15:46	ALS	206-44-0		
Fluorene	ND	ug/l	10.4	1.0	03/21/03 15:46	ALS	86-73-7		
Hexachloro-1,3-butadiene	ND	ug/l	10.4	1.0	03/21/03 15:46	ALS	87-68-3		
Hexachlorobenzene	ND	ug/l	10.4	1.0	03/21/03 15:46	ALS	118-74-1		
Hexachlorocyclopentadiene	ND	ug/l	10.4	1.0	03/21/03 15:46	ALS	77-47-4		

Date: 04/03/03

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 8532853
Client Project ID: NCL/TEL

Lab Sample No: 851795840 Project Sample Number: 8532853-003 Date Collected: 03/11/03 10:20
Client Sample ID: NCL-32 Matrix: Water Date Received: 03/12/03 09:20

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Hexachloroethane	ND	ug/l	10.4	1.0	03/21/03 15:46	ALS	67-72-1		
Indeno(1,2,3-cd)pyrene	ND	ug/l	10.4	1.0	03/21/03 15:46	ALS	193-39-5		
Isophorone	ND	ug/l	10.4	1.0	03/21/03 15:46	ALS	78-59-1		
2-Methylnaphthalene	ND	ug/l	10.4	1.0	03/21/03 15:46	ALS	91-57-6		
2-Methylphenol (o-Cresol)	ND	ug/l	10.4	1.0	03/21/03 15:46	ALS	95-48-7		
3&4-Methylphenol	ND	ug/l	10.4	1.0	03/21/03 15:46	ALS			
Naphthalene	ND	ug/l	10.4	1.0	03/21/03 15:46	ALS	91-20-3		
2-Nitroaniline	ND	ug/l	10.4	1.0	03/21/03 15:46	ALS	88-74-4		
3-Nitroaniline	ND	ug/l	10.4	1.0	03/21/03 15:46	ALS	99-09-2		
4-Nitroaniline	ND	ug/l	10.4	1.0	03/21/03 15:46	ALS	100-01-6		
Nitrobenzene	ND	ug/l	10.4	1.0	03/21/03 15:46	ALS	98-95-3		
2-Nitrophenol	ND	ug/l	10.4	1.0	03/21/03 15:46	ALS	88-75-5		
4-Nitrophenol	ND	ug/l	10.4	1.0	03/21/03 15:46	ALS	100-02-7		
N-Nitrosodimethylamine	ND	ug/l	10.4	1.0	03/21/03 15:46	ALS	62-75-9		
N-Nitroso-di-n-propylamine	ND	ug/l	10.4	1.0	03/21/03 15:46	ALS	621-64-7		
N-Nitrosodiphenylamine	ND	ug/l	10.4	1.0	03/21/03 15:46	ALS	86-30-6		
Pentachlorophenol	ND	ug/l	10.4	1.0	03/21/03 15:46	ALS	87-86-5		
Phenanthrene	ND	ug/l	10.4	1.0	03/21/03 15:46	ALS	85-01-8		
Phenol	ND	ug/l	10.4	1.0	03/21/03 15:46	ALS	108-95-2		
Pyrene	ND	ug/l	10.4	1.0	03/21/03 15:46	ALS	129-00-0		
1,2,4-Trichlorobenzene	ND	ug/l	10.4	1.0	03/21/03 15:46	ALS	120-82-1		
2,4,5-Trichlorophenol	ND	ug/l	10.4	1.0	03/21/03 15:46	ALS	95-95-4		
2,4,6-Trichlorophenol	ND	ug/l	10.4	1.0	03/21/03 15:46	ALS	88-06-2		
Nitrobenzene-d5 (S)	29	%		1.0	03/21/03 15:46	ALS	4165-60-0		
2-Fluorobiphenyl (S)	26	%		1.0	03/21/03 15:46	ALS	321-60-8		
Terphenyl-d14 (S)	55	%		1.0	03/21/03 15:46	ALS	1718-51-0		
Phenol-d5 (S)	22	%		1.0	03/21/03 15:46	ALS	4165-62-2		
2-Fluorophenol (S)	34	%		1.0	03/21/03 15:46	ALS	367-12-4		
2,4,6-Tribromophenol (S)	30	%		1.0	03/21/03 15:46	ALS			
Date Extracted	03/14/03 17:00				03/14/03 17:00				

GC/MS Volatiles

SW8260 Volatiles, Water

Method: EPA 8260

Acetone	ND	ug/l	10.0	1.0	03/13/03 20:30	LJAS	67-64-1		
Benzene	ND	ug/l	5.00	1.0	03/13/03 20:30	LJAS	71-43-2		
Bromodichloromethane	ND	ug/l	5.00	1.0	03/13/03 20:30	LJAS	75-27-4		
Bromoform	ND	ug/l	5.00	1.0	03/13/03 20:30	LJAS	75-25-2		
Bromomethane	ND	ug/l	10.0	1.0	03/13/03 20:30	LJAS	74-83-9		
2-Butanone (MEK)	ND	ug/l	10.0	1.0	03/13/03 20:30	LJAS	78-93-3		

Date: 04/03/03

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 8532853
Client Project ID: NCL/TEL

Lab Sample No: 851795840 Project Sample Number: 8532853-003 Date Collected: 03/11/03 10:20
Client Sample ID: NCL-32 Matrix: Water Date Received: 03/12/03 09:20

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	ReqLmt
Carbon disulfide	ND	ug/l	5.00	1.0	03/13/03 20:30	LJAS	75-15-0		
Carbon tetrachloride	ND	ug/l	5.00	1.0	03/13/03 20:30	LJAS	56-23-5		
Chlorobenzene	ND	ug/l	5.00	1.0	03/13/03 20:30	LJAS	108-90-7		
Chloroethane	ND	ug/l	10.0	1.0	03/13/03 20:30	LJAS	75-00-3		
2-Chloroethylvinyl ether	ND	ug/l	10.0	1.0	03/13/03 20:30	LJAS	110-75-8		
Chloroform	ND	ug/l	5.00	1.0	03/13/03 20:30	LJAS	67-66-3		
Chloromethane	ND	ug/l	10.0	1.0	03/13/03 20:30	LJAS	74-87-3		
Dibromochloromethane	ND	ug/l	5.00	1.0	03/13/03 20:30	LJAS	124-48-1		
1,1-Dichloroethane	ND	ug/l	5.00	1.0	03/13/03 20:30	LJAS	75-34-3		
1,2-Dichloroethane	ND	ug/l	5.00	1.0	03/13/03 20:30	LJAS	107-06-2		
1,1-Dichloroethene	ND	ug/l	5.00	1.0	03/13/03 20:30	LJAS	75-35-4		
cis-1,2-Dichloroethene	ND	ug/l	5.00	1.0	03/13/03 20:30	LJAS	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	5.00	1.0	03/13/03 20:30	LJAS	156-60-5		
1,2-Dichloropropane	ND	ug/l	5.00	1.0	03/13/03 20:30	LJAS	78-87-5		
cis-1,3-Dichloropropene	ND	ug/l	5.00	1.0	03/13/03 20:30	LJAS	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/l	5.00	1.0	03/13/03 20:30	LJAS	10061-02-6		
Ethylbenzene	ND	ug/l	5.00	1.0	03/13/03 20:30	LJAS	100-41-4		
2-Hexanone	ND	ug/l	10.0	1.0	03/13/03 20:30	LJAS	591-78-6		
Methylene chloride	ND	ug/l	5.00	1.0	03/13/03 20:30	LJAS	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/l	10.0	1.0	03/13/03 20:30	LJAS	108-10-1		
Styrene	ND	ug/l	5.00	1.0	03/13/03 20:30	LJAS	100-42-5		
1,1,2,2-Tetrachloroethane	ND	ug/l	5.00	1.0	03/13/03 20:30	LJAS	79-34-5		
Tetrachloroethene	ND	ug/l	5.00	1.0	03/13/03 20:30	LJAS	127-18-4		
Toluene	ND	ug/l	5.00	1.0	03/13/03 20:30	LJAS	108-88-3		
1,1,1-Trichloroethane	ND	ug/l	5.00	1.0	03/13/03 20:30	LJAS	71-55-6		
1,1,2-Trichloroethane	ND	ug/l	5.00	1.0	03/13/03 20:30	LJAS	79-00-5		
Trichloroethene	ND	ug/l	5.00	1.0	03/13/03 20:30	LJAS	79-01-6		
Vinyl acetate	ND	ug/l	5.00	1.0	03/13/03 20:30	LJAS	108-05-4		
Vinyl chloride	ND	ug/l	10.0	1.0	03/13/03 20:30	LJAS	75-01-4		
Xylene (Total)	ND	ug/l	5.00	1.0	03/13/03 20:30	LJAS	1330-20-7		
m&p-Xylene	ND	ug/l	5.00	1.0	03/13/03 20:30	LJAS			
o-Xylene	ND	ug/l	5.00	1.0	03/13/03 20:30	LJAS	95-47-6		
Toluene-d8 (S)	101	%		1.0	03/13/03 20:30	LJAS	2037-26-5		
4-Bromofluorobenzene (S)	98	%		1.0	03/13/03 20:30	LJAS	460-00-4		
1,2-Dichloroethane-d4 (S)	110	%		1.0	03/13/03 20:30	LJAS	17060-07-0		

Comments : ARS performed the Total Uranium analysis. Please refer to the enclosed report.

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 8532853
Client Project ID: NCL/TEL

Lab Sample No: 851795841 Project Sample Number: 8532853-004 Date Collected: 03/11/03 11:15
Client Sample ID: NCL-44 Matrix: Water Date Received: 03/12/03 09:20

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
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Metals

SW6010 Metals, Trace Water		Prep/Method: / EPA 6010							
Aluminum	421.	ug/l	200.	1.0	03/27/03 00:36	AJT1	7429-90-5		
Arsenic	27.3	ug/l	10.0	1.0	03/27/03 00:36	AJT1	7440-38-2		
Barium	ND	ug/l	200.	1.0	03/27/03 00:36	AJT1	7440-39-3		
Beryllium	ND	ug/l	5.00	1.0	03/27/03 00:36	AJT1	7440-41-7		
Boron	303.	ug/l	100.	1.0	03/27/03 00:36	AJT1	7440-42-8		
Cadmium	ND	ug/l	5.00	1.0	03/27/03 00:36	AJT1	7440-43-9		
Chromium	ND	ug/l	10.0	1.0	03/27/03 00:36	AJT1	7440-47-3		
Cobalt	ND	ug/l	50.0	1.0	03/27/03 00:36	AJT1	7440-48-4		
Copper	29.0	ug/l	25.0	1.0	03/27/03 00:36	AJT1	7440-50-8		
Iron	850.	ug/l	100.	1.0	03/27/03 00:36	AJT1	7439-89-6		
Lead	ND	ug/l	3.00	1.0	03/27/03 00:36	AJT1	7439-92-1		
Manganese	690.	ug/l	15.0	1.0	03/27/03 00:36	AJT1	7439-96-5		
Molybdenum	17.0	ug/l	10.0	1.0	03/27/03 00:36	AJT1	7439-98-7		
Nickel	ND	ug/l	40.0	1.0	03/27/03 00:36	AJT1	7440-02-0		
Selenium	8.33	ug/l	5.00	1.0	03/27/03 00:36	AJT1	7782-49-2		
Silver	ND	ug/l	10.0	1.0	03/27/03 00:36	AJT1	7440-22-4		
Vanadium	ND	ug/l	50.0	1.0	03/27/03 00:36	AJT1	7440-62-2		
Zinc	ND	ug/l	20.0	1.0	03/27/03 00:36	AJT1	7440-66-6		

Mercury, Water, SW 7470		Method: EPA 7470							
Mercury	ND	ug/l	0.200	1.0	03/13/03 13:42	SSPI	7439-97-6		200

Wet Chemistry

Sulfide, Total		Method: EPA 376.1							
Sulfide	ND	mg/l	4.00	4.0	03/18/03 15:15	HFEB			
Phenolics, Total Recoverable		Method: EPA 420.2							
Phenolics, Total Recoverable	0.133	mg/l	0.0100	1.0	03/27/03	HFEB			

GC/MS Semivolatiles

SW8270 Semivolatiles, Water		Prep/Method: EPA 3510 / EPA 8270							
Acenaphthene	ND	ug/l	10.0	1.0	03/21/03 16:22	ALS	83-32-9		
Acenaphthylene	ND	ug/l	10.0	1.0	03/21/03 16:22	ALS	208-96-8		
Aniline	ND	ug/l	10.0	1.0	03/21/03 16:22	ALS	62-53-3		
Anthracene	ND	ug/l	10.0	1.0	03/21/03 16:22	ALS	120-12-7		
Benzidine	ND	ug/l	10.0	1.0	03/21/03 16:22	ALS	92-87-5		
Benzo(a)anthracene	ND	ug/l	10.0	1.0	03/21/03 16:22	ALS	56-55-3		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 8532853
Client Project ID: NCL/TEL

Lab Sample No: 851795841
Client Sample ID: NCL-44

Project Sample Number: 8532853-004
Matrix: Water

Date Collected: 03/11/03 11:15
Date Received: 03/12/03 09:20

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Benzo(a)pyrene	ND	ug/l	10.0	1.0	03/21/03 16:22	ALS	50-32-8		
Benzo(b)fluoranthene	ND	ug/l	10.0	1.0	03/21/03 16:22	ALS	205-99-2		
Benzo(g,h,i)perylene	ND	ug/l	10.0	1.0	03/21/03 16:22	ALS	191-24-2		
Benzo(k)fluoranthene	ND	ug/l	10.0	1.0	03/21/03 16:22	ALS	207-08-9		
Benzoic acid	ND	ug/l	25.0	1.0	03/21/03 16:22	ALS	65-85-0		
Benzyl alcohol	ND	ug/l	10.0	1.0	03/21/03 16:22	ALS	100-51-6		
4-Bromophenylphenyl ether	ND	ug/l	10.0	1.0	03/21/03 16:22	ALS	101-55-3		
Butylbenzylphthalate	ND	ug/l	10.0	1.0	03/21/03 16:22	ALS	85-68-7		
4-Chloro-3-methylphenol	ND	ug/l	10.0	1.0	03/21/03 16:22	ALS	59-50-7		
4-Chloroaniline	ND	ug/l	10.0	1.0	03/21/03 16:22	ALS	106-47-8		
bis(2-Chloroethoxy)methane	ND	ug/l	10.0	1.0	03/21/03 16:22	ALS	111-91-1		
bis(2-Chloroethyl) ether	ND	ug/l	10.0	1.0	03/21/03 16:22	ALS	111-44-4		
bis(2-Chloroisopropyl) ether	ND	ug/l	10.0	1.0	03/21/03 16:22	ALS	39638-32-9		
2-Chloronaphthalene	ND	ug/l	10.0	1.0	03/21/03 16:22	ALS	91-58-7		
2-Chlorophenol	ND	ug/l	10.0	1.0	03/21/03 16:22	ALS	95-57-8		
4-Chlorophenylphenyl ether	ND	ug/l	10.0	1.0	03/21/03 16:22	ALS	7005-72-3		
Chrysene	ND	ug/l	10.0	1.0	03/21/03 16:22	ALS	218-01-9		
Dibenz(a,h)anthracene	ND	ug/l	10.0	1.0	03/21/03 16:22	ALS	53-70-3		
Dibenzofuran	ND	ug/l	10.0	1.0	03/21/03 16:22	ALS	132-64-9		
1,2-Dichlorobenzene	ND	ug/l	10.0	1.0	03/21/03 16:22	ALS	95-50-1		
1,3-Dichlorobenzene	ND	ug/l	10.0	1.0	03/21/03 16:22	ALS	541-73-1		
1,4-Dichlorobenzene	ND	ug/l	10.0	1.0	03/21/03 16:22	ALS	106-46-7		
3,3'-Dichlorobenzidine	ND	ug/l	10.0	1.0	03/21/03 16:22	ALS	91-94-1		
2,4-Dichlorophenol	ND	ug/l	10.0	1.0	03/21/03 16:22	ALS	120-83-2		
Diethylphthalate	ND	ug/l	10.0	1.0	03/21/03 16:22	ALS	84-66-2		
2,4-Dimethylphenol	ND	ug/l	10.0	1.0	03/21/03 16:22	ALS	105-67-9		
Dimethylphthalate	ND	ug/l	10.0	1.0	03/21/03 16:22	ALS	131-11-3		
Di-n-butylphthalate	ND	ug/l	10.0	1.0	03/21/03 16:22	ALS	84-74-2		
4,6-Dinitro-2-methylphenol	ND	ug/l	10.0	1.0	03/21/03 16:22	ALS	534-52-1		
2,4-Dinitrophenol	ND	ug/l	10.0	1.0	03/21/03 16:22	ALS	51-28-5		
2,4-Dinitrotoluene	ND	ug/l	10.0	1.0	03/21/03 16:22	ALS	121-14-2		
2,6-Dinitrotoluene	ND	ug/l	10.0	1.0	03/21/03 16:22	ALS	606-20-2		
Di-n-octylphthalate	ND	ug/l	10.0	1.0	03/21/03 16:22	ALS	117-84-0		
bis(2-Ethylhexyl)phthalate	ND	ug/l	10.0	1.0	03/21/03 16:22	ALS	117-81-7		
Fluoranthene	ND	ug/l	10.0	1.0	03/21/03 16:22	ALS	206-44-0		
Fluorene	ND	ug/l	10.0	1.0	03/21/03 16:22	ALS	86-73-7		
Hexachloro-1,3-butadiene	ND	ug/l	10.0	1.0	03/21/03 16:22	ALS	87-68-3		
Hexachlorobenzene	ND	ug/l	10.0	1.0	03/21/03 16:22	ALS	118-74-1		
Hexachlorocyclopentadiene	ND	ug/l	10.0	1.0	03/21/03 16:22	ALS	77-47-4		

Date: 04/03/03

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 8532853
Client Project ID: NCL/TEL

Lab Sample No: 851795841 Project Sample Number: 8532853-004 Date Collected: 03/11/03 11:15
Client Sample ID: NCL-44 Matrix: Water Date Received: 03/12/03 09:20

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Hexachloroethane	ND	ug/l	10.0	1.0	03/21/03 16:22	ALS	67-72-1		
Indeno(1,2,3-cd)pyrene	ND	ug/l	10.0	1.0	03/21/03 16:22	ALS	193-39-5		
Isophorone	ND	ug/l	10.0	1.0	03/21/03 16:22	ALS	78-59-1		
2-Methylnaphthalene	ND	ug/l	10.0	1.0	03/21/03 16:22	ALS	91-57-6		
2-Methylphenol (o-Cresol)	ND	ug/l	10.0	1.0	03/21/03 16:22	ALS	95-48-7		
3&4-Methylphenol	ND	ug/l	10.0	1.0	03/21/03 16:22	ALS			
Naphthalene	ND	ug/l	10.0	1.0	03/21/03 16:22	ALS	91-20-3		
2-Nitroaniline	ND	ug/l	10.0	1.0	03/21/03 16:22	ALS	88-74-4		
3-Nitroaniline	ND	ug/l	10.0	1.0	03/21/03 16:22	ALS	99-09-2		
4-Nitroaniline	ND	ug/l	10.0	1.0	03/21/03 16:22	ALS	100-01-6		
Nitrobenzene	ND	ug/l	10.0	1.0	03/21/03 16:22	ALS	98-95-3		
2-Nitrophenol	ND	ug/l	10.0	1.0	03/21/03 16:22	ALS	88-75-5		
4-Nitrophenol	ND	ug/l	10.0	1.0	03/21/03 16:22	ALS	100-02-7		
N-Nitrosodimethylamine	ND	ug/l	10.0	1.0	03/21/03 16:22	ALS	62-75-9		
N-Nitroso-di-n-propylamine	ND	ug/l	10.0	1.0	03/21/03 16:22	ALS	621-64-7		
N-Nitrosodiphenylamine	ND	ug/l	10.0	1.0	03/21/03 16:22	ALS	86-30-6		
Pentachlorophenol	ND	ug/l	10.0	1.0	03/21/03 16:22	ALS	87-86-5		
Phenanthrene	ND	ug/l	10.0	1.0	03/21/03 16:22	ALS	85-01-8		
Phenol	ND	ug/l	10.0	1.0	03/21/03 16:22	ALS	108-95-2		
Pyrene	ND	ug/l	10.0	1.0	03/21/03 16:22	ALS	129-00-0		
1,2,4-Trichlorobenzene	ND	ug/l	10.0	1.0	03/21/03 16:22	ALS	120-82-1		
2,4,5-Trichlorophenol	ND	ug/l	10.0	1.0	03/21/03 16:22	ALS	95-95-4		
2,4,6-Trichlorophenol	ND	ug/l	10.0	1.0	03/21/03 16:22	ALS	88-06-2		
Nitrobenzene-d5 (S)	40	%		1.0	03/21/03 16:22	ALS	4165-60-0		
2-Fluorobiphenyl (S)	36	%		1.0	03/21/03 16:22	ALS	321-60-8		
Terphenyl-d14 (S)	56	%		1.0	03/21/03 16:22	ALS	1718-51-0		
Phenol-d5 (S)	24	%		1.0	03/21/03 16:22	ALS	4165-62-2		
2-Fluorophenol (S)	35	%		1.0	03/21/03 16:22	ALS	367-12-4		
2,4,6-Tribromophenol (S)	39	%		1.0	03/21/03 16:22	ALS			
Date Extracted	03/14/03 17:00				03/14/03 17:00				

GC/MS Volatiles

SW8260 Volatiles, Water

Method: EPA 8260

Acetone	ND	ug/l	10.0	1.0	03/13/03 20:54	LJAS	67-64-1		
Benzene	ND	ug/l	5.00	1.0	03/13/03 20:54	LJAS	71-43-2		
Bromodichloromethane	ND	ug/l	5.00	1.0	03/13/03 20:54	LJAS	75-27-4		
Bromoform	ND	ug/l	5.00	1.0	03/13/03 20:54	LJAS	75-25-2		
Bromomethane	ND	ug/l	10.0	1.0	03/13/03 20:54	LJAS	74-83-9		
2-Butanone (MEK)	ND	ug/l	10.0	1.0	03/13/03 20:54	LJAS	78-93-3		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 8532853
Client Project ID: NCL/TEL

Lab Sample No: 851795841
Client Sample ID: NCL-44

Project Sample Number: 8532853-004
Matrix: Water

Date Collected: 03/11/03 11:15
Date Received: 03/12/03 09:20

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Carbon disulfide	ND	ug/l	5.00	1.0	03/13/03 20:54	LJAS	75-15-0		
Carbon tetrachloride	ND	ug/l	5.00	1.0	03/13/03 20:54	LJAS	56-23-5		
Chlorobenzene	ND	ug/l	5.00	1.0	03/13/03 20:54	LJAS	108-90-7		
Chloroethane	ND	ug/l	10.0	1.0	03/13/03 20:54	LJAS	75-00-3		
2-Chloroethylvinyl ether	ND	ug/l	10.0	1.0	03/13/03 20:54	LJAS	110-75-8		
Chloroform	ND	ug/l	5.00	1.0	03/13/03 20:54	LJAS	67-66-3		
Chloromethane	ND	ug/l	10.0	1.0	03/13/03 20:54	LJAS	74-87-3		
Dibromochloromethane	ND	ug/l	5.00	1.0	03/13/03 20:54	LJAS	124-48-1		
1,1-Dichloroethane	ND	ug/l	5.00	1.0	03/13/03 20:54	LJAS	75-34-3		
1,2-Dichloroethane	ND	ug/l	5.00	1.0	03/13/03 20:54	LJAS	107-06-2		
1,1-Dichloroethene	ND	ug/l	5.00	1.0	03/13/03 20:54	LJAS	75-35-4		
cis-1,2-Dichloroethene	ND	ug/l	5.00	1.0	03/13/03 20:54	LJAS	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	5.00	1.0	03/13/03 20:54	LJAS	156-60-5		
1,2-Dichloropropane	ND	ug/l	5.00	1.0	03/13/03 20:54	LJAS	78-87-5		
cis-1,3-Dichloropropene	ND	ug/l	5.00	1.0	03/13/03 20:54	LJAS	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/l	5.00	1.0	03/13/03 20:54	LJAS	10061-02-6		
Ethylbenzene	ND	ug/l	5.00	1.0	03/13/03 20:54	LJAS	100-41-4		
2-Hexanone	ND	ug/l	10.0	1.0	03/13/03 20:54	LJAS	591-78-6		
Methylene chloride	ND	ug/l	5.00	1.0	03/13/03 20:54	LJAS	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/l	10.0	1.0	03/13/03 20:54	LJAS	108-10-1		
Styrene	ND	ug/l	5.00	1.0	03/13/03 20:54	LJAS	100-42-5		
1,1,2,2-Tetrachloroethane	ND	ug/l	5.00	1.0	03/13/03 20:54	LJAS	79-34-5		
Tetrachloroethene	ND	ug/l	5.00	1.0	03/13/03 20:54	LJAS	127-18-4		
Toluene	ND	ug/l	5.00	1.0	03/13/03 20:54	LJAS	108-88-3		
1,1,1-Trichloroethane	ND	ug/l	5.00	1.0	03/13/03 20:54	LJAS	71-55-6		
1,1,2-Trichloroethane	ND	ug/l	5.00	1.0	03/13/03 20:54	LJAS	79-00-5		
Trichloroethene	ND	ug/l	5.00	1.0	03/13/03 20:54	LJAS	79-01-6		
Vinyl acetate	ND	ug/l	5.00	1.0	03/13/03 20:54	LJAS	108-05-4		
Vinyl chloride	ND	ug/l	10.0	1.0	03/13/03 20:54	LJAS	75-01-4		
Xylene (Total)	ND	ug/l	5.00	1.0	03/13/03 20:54	LJAS	1330-20-7		
m&p-Xylene	ND	ug/l	5.00	1.0	03/13/03 20:54	LJAS			
o-Xylene	ND	ug/l	5.00	1.0	03/13/03 20:54	LJAS	95-47-6		
Toluene-d8 (S)	118	%		1.0	03/13/03 20:54	LJAS	2037-26-5		
4-Bromofluorobenzene (S)	92	%		1.0	03/13/03 20:54	LJAS	460-00-4		
1,2-Dichloroethane-d4 (S)	105	%		1.0	03/13/03 20:54	LJAS	17060-07-0		

Comments : ARS performed the Total Uranium analysis. Please refer to the enclosed report.

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 8532853
Client Project ID: NCL/TEL

Lab Sample No: 851795842 Project Sample Number: 8532853-005 Date Collected: 03/11/03 13:50
Client Sample ID: MW-54A Matrix: Water Date Received: 03/12/03 09:20

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
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Metals

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
SW6010 Metals, Trace Water	Prep/Method: / EPA 6010								
Aluminum	514.	ug/l	200.	1.0	03/27/03 00:41	AJT1	7429-90-5		
Arsenic	ND	ug/l	10.0	1.0	03/27/03 00:41	AJT1	7440-38-2		
Barium	ND	ug/l	200.	1.0	03/27/03 00:41	AJT1	7440-39-3		
Beryllium	ND	ug/l	5.00	1.0	03/27/03 00:41	AJT1	7440-41-7		
Boron	286.	ug/l	100.	1.0	03/27/03 00:41	AJT1	7440-42-8		
Cadmium	ND	ug/l	5.00	1.0	03/27/03 00:41	AJT1	7440-43-9		
Chromium	ND	ug/l	10.0	1.0	03/27/03 00:41	AJT1	7440-47-3		
Cobalt	ND	ug/l	50.0	1.0	03/27/03 00:41	AJT1	7440-48-4		
Copper	33.9	ug/l	25.0	1.0	03/27/03 00:41	AJT1	7440-50-8		
Iron	437.	ug/l	100.	1.0	03/27/03 00:41	AJT1	7439-89-6		
Lead	ND	ug/l	3.00	1.0	03/27/03 00:41	AJT1	7439-92-1		
Manganese	410.	ug/l	15.0	1.0	03/27/03 00:41	AJT1	7439-96-5		
Molybdenum	ND	ug/l	10.0	1.0	03/27/03 00:41	AJT1	7439-98-7		
Nickel	ND	ug/l	40.0	1.0	03/27/03 00:41	AJT1	7440-02-0		
Selenium	10.1	ug/l	5.00	1.0	03/27/03 00:41	AJT1	7782-49-2		
Silver	ND	ug/l	10.0	1.0	03/27/03 00:41	AJT1	7440-22-4		
Vanadium	ND	ug/l	50.0	1.0	03/27/03 00:41	AJT1	7440-62-2		
Zinc	ND	ug/l	20.0	1.0	03/27/03 00:41	AJT1	7440-66-6		

Mercury, Water, SW 7470	Method: EPA 7470								
Mercury	ND	ug/l	0.200	1.0	03/13/03 13:42	SSPI	7439-97-6		200

Wet Chemistry

Sulfide, Total	Method: EPA 376.1								
Sulfide	ND	mg/l	4.00	4.0	03/18/03 15:15	HFEB			

Phenolics, Total Recoverable	Method: EPA 420.2								
Phenolics, Total Recoverable	ND	mg/l	0.0100	1.0	03/27/03	HFEB			

GC/MS Semivolatiles

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
SW8270 Semivolatiles, Water	Prep/Method: EPA 3510 / EPA 8270								
Acenaphthene	ND	ug/l	10.0	1.0	03/21/03 16:59	ALS	83-32-9		
Acenaphthylene	ND	ug/l	10.0	1.0	03/21/03 16:59	ALS	208-96-8		
Aniline	ND	ug/l	10.0	1.0	03/21/03 16:59	ALS	62-53-3		
Anthracene	ND	ug/l	10.0	1.0	03/21/03 16:59	ALS	120-12-7		
Benzidine	ND	ug/l	10.0	1.0	03/21/03 16:59	ALS	92-87-5		
Benzo(a)anthracene	ND	ug/l	10.0	1.0	03/21/03 16:59	ALS	56-55-3		

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
 900 Gemini Avenue
 Houston, TX 77058
 Phone: 281.488.1810
 Fax: 281.488.4661

Lab Project Number: 8532853
 Client Project ID: NCL/TEL

Lab Sample No: 851795842
 Client Sample ID: MW-54A

Project Sample Number: 8532853-005
 Matrix: Water

Date Collected: 03/11/03 13:50
 Date Received: 03/12/03 09:20

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	ReqLmt
Benzo(a)pyrene	ND	ug/l	10.0	1.0	03/21/03 16:59	ALS	50-32-8		
Benzo(b)fluoranthene	ND	ug/l	10.0	1.0	03/21/03 16:59	ALS	205-99-2		
Benzo(g,h,i)perylene	ND	ug/l	10.0	1.0	03/21/03 16:59	ALS	191-24-2		
Benzo(k)fluoranthene	ND	ug/l	10.0	1.0	03/21/03 16:59	ALS	207-08-9		
Benzoic acid	ND	ug/l	25.0	1.0	03/21/03 16:59	ALS	65-85-0		
Benzyl alcohol	ND	ug/l	10.0	1.0	03/21/03 16:59	ALS	100-51-6		
4-Bromophenylphenyl ether	ND	ug/l	10.0	1.0	03/21/03 16:59	ALS	101-55-3		
Butylbenzylphthalate	ND	ug/l	10.0	1.0	03/21/03 16:59	ALS	85-68-7		
4-Chloro-3-methylphenol	ND	ug/l	10.0	1.0	03/21/03 16:59	ALS	59-50-7		
4-Chloroaniline	ND	ug/l	10.0	1.0	03/21/03 16:59	ALS	106-47-8		
bis(2-Chloroethoxy)methane	ND	ug/l	10.0	1.0	03/21/03 16:59	ALS	111-91-1		
bis(2-Chloroethyl) ether	ND	ug/l	10.0	1.0	03/21/03 16:59	ALS	111-44-4		
bis(2-Chloroisopropyl) ether	ND	ug/l	10.0	1.0	03/21/03 16:59	ALS	39638-32-9		
2-Chloronaphthalene	ND	ug/l	10.0	1.0	03/21/03 16:59	ALS	91-58-7		
2-Chlorophenol	ND	ug/l	10.0	1.0	03/21/03 16:59	ALS	95-57-8		
4-Chlorophenylphenyl ether	ND	ug/l	10.0	1.0	03/21/03 16:59	ALS	7005-72-3		
Chrysene	ND	ug/l	10.0	1.0	03/21/03 16:59	ALS	218-01-9		
Dibenz(a,h)anthracene	ND	ug/l	10.0	1.0	03/21/03 16:59	ALS	53-70-3		
Dibenzofuran	ND	ug/l	10.0	1.0	03/21/03 16:59	ALS	132-64-9		
1,2-Dichlorobenzene	ND	ug/l	10.0	1.0	03/21/03 16:59	ALS	95-50-1		
1,3-Dichlorobenzene	ND	ug/l	10.0	1.0	03/21/03 16:59	ALS	541-73-1		
1,4-Dichlorobenzene	ND	ug/l	10.0	1.0	03/21/03 16:59	ALS	106-46-7		
3,3'-Dichlorobenzidine	ND	ug/l	10.0	1.0	03/21/03 16:59	ALS	91-94-1		
2,4-Dichlorophenol	ND	ug/l	10.0	1.0	03/21/03 16:59	ALS	120-83-2		
Diethylphthalate	ND	ug/l	10.0	1.0	03/21/03 16:59	ALS	84-66-2		
2,4-Dimethylphenol	ND	ug/l	10.0	1.0	03/21/03 16:59	ALS	105-67-9		
Dimethylphthalate	ND	ug/l	10.0	1.0	03/21/03 16:59	ALS	131-11-3		
Di-n-butylphthalate	ND	ug/l	10.0	1.0	03/21/03 16:59	ALS	84-74-2		
4,6-Dinitro-2-methylphenol	ND	ug/l	10.0	1.0	03/21/03 16:59	ALS	534-52-1		
2,4-Dinitrophenol	ND	ug/l	10.0	1.0	03/21/03 16:59	ALS	51-28-5		
2,4-Dinitrotoluene	ND	ug/l	10.0	1.0	03/21/03 16:59	ALS	121-14-2		
2,6-Dinitrotoluene	ND	ug/l	10.0	1.0	03/21/03 16:59	ALS	606-20-2		
Di-n-octylphthalate	ND	ug/l	10.0	1.0	03/21/03 16:59	ALS	117-84-0		
bis(2-Ethylhexyl)phthalate	ND	ug/l	10.0	1.0	03/21/03 16:59	ALS	117-81-7		
Fluoranthene	ND	ug/l	10.0	1.0	03/21/03 16:59	ALS	206-44-0		
Fluorene	ND	ug/l	10.0	1.0	03/21/03 16:59	ALS	86-73-7		
Hexachloro-1,3-butadiene	ND	ug/l	10.0	1.0	03/21/03 16:59	ALS	87-68-3		
Hexachlorobenzene	ND	ug/l	10.0	1.0	03/21/03 16:59	ALS	118-74-1		
Hexachlorocyclopentadiene	ND	ug/l	10.0	1.0	03/21/03 16:59	ALS	77-47-4		

Date: 04/03/03

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 8532853
Client Project ID: NCL/TEL

Lab Sample No: 851795842
Client Sample ID: MW-54A

Project Sample Number: 8532853-005
Matrix: Water

Date Collected: 03/11/03 13:50
Date Received: 03/12/03 09:20

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Hexachloroethane	ND	ug/l	10.0	1.0	03/21/03 16:59	ALS	67-72-1		
Indeno(1,2,3-cd)pyrene	ND	ug/l	10.0	1.0	03/21/03 16:59	ALS	193-39-5		
Isophorone	ND	ug/l	10.0	1.0	03/21/03 16:59	ALS	78-59-1		
2-Methylnaphthalene	ND	ug/l	10.0	1.0	03/21/03 16:59	ALS	91-57-6		
2-Methylphenol (o-Cresol)	ND	ug/l	10.0	1.0	03/21/03 16:59	ALS	95-48-7		
3&4-Methylphenol	ND	ug/l	10.0	1.0	03/21/03 16:59	ALS			
Naphthalene	ND	ug/l	10.0	1.0	03/21/03 16:59	ALS	91-20-3		
2-Nitroaniline	ND	ug/l	10.0	1.0	03/21/03 16:59	ALS	88-74-4		
3-Nitroaniline	ND	ug/l	10.0	1.0	03/21/03 16:59	ALS	99-09-2		
4-Nitroaniline	ND	ug/l	10.0	1.0	03/21/03 16:59	ALS	100-01-6		
Nitrobenzene	ND	ug/l	10.0	1.0	03/21/03 16:59	ALS	98-95-3		
2-Nitrophenol	ND	ug/l	10.0	1.0	03/21/03 16:59	ALS	88-75-5		
4-Nitrophenol	ND	ug/l	10.0	1.0	03/21/03 16:59	ALS	100-02-7		
N-Nitrosodimethylamine	ND	ug/l	10.0	1.0	03/21/03 16:59	ALS	62-75-9		
N-Nitroso-di-n-propylamine	ND	ug/l	10.0	1.0	03/21/03 16:59	ALS	621-64-7		
N-Nitrosodiphenylamine	ND	ug/l	10.0	1.0	03/21/03 16:59	ALS	86-30-6		
Pentachlorophenol	ND	ug/l	10.0	1.0	03/21/03 16:59	ALS	87-86-5		
Phenanthrene	ND	ug/l	10.0	1.0	03/21/03 16:59	ALS	85-01-8		
Phenol	ND	ug/l	10.0	1.0	03/21/03 16:59	ALS	108-95-2		
Pyrene	ND	ug/l	10.0	1.0	03/21/03 16:59	ALS	129-00-0		
1,2,4-Trichlorobenzene	ND	ug/l	10.0	1.0	03/21/03 16:59	ALS	120-82-1		
2,4,5-Trichlorophenol	ND	ug/l	10.0	1.0	03/21/03 16:59	ALS	95-95-4		
2,4,6-Trichlorophenol	ND	ug/l	10.0	1.0	03/21/03 16:59	ALS	88-06-2		
Nitrobenzene-d5 (S)	52	%		1.0	03/21/03 16:59	ALS	4165-60-0		
2-Fluorobiphenyl (S)	46	%		1.0	03/21/03 16:59	ALS	321-60-8		
Terphenyl-d14 (S)	70	%		1.0	03/21/03 16:59	ALS	1718-51-0		
Phenol-d5 (S)	32	%		1.0	03/21/03 16:59	ALS	4165-62-2		
2-Fluorophenol (S)	44	%		1.0	03/21/03 16:59	ALS	367-12-4		
2,4,6-Tribromophenol (S)	40	%		1.0	03/21/03 16:59	ALS			
Date Extracted	03/14/03 17:00				03/14/03 17:00				

GC/MS Volatiles

SW8260 Volatiles, Water

Method: EPA 8260

Acetone	ND	ug/l	10.0	1.0	03/13/03 21:19	LJAS	67-64-1		
Benzene	ND	ug/l	5.00	1.0	03/13/03 21:19	LJAS	71-43-2		
Bromodichloromethane	ND	ug/l	5.00	1.0	03/13/03 21:19	LJAS	75-27-4		
Bromoform	ND	ug/l	5.00	1.0	03/13/03 21:19	LJAS	75-25-2		
Bromomethane	ND	ug/l	10.0	1.0	03/13/03 21:19	LJAS	74-83-9		
2-Butanone (MEK)	ND	ug/l	10.0	1.0	03/13/03 21:19	LJAS	78-93-3		

Date: 04/03/03

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REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
 900 Gemini Avenue
 Houston, TX 77058
 Phone: 281.488.1810
 Fax: 281.488.4661

Lab Project Number: 8532853
 Client Project ID: NCL/TEL

Lab Sample No: 851795842 Project Sample Number: 8532853-005 Date Collected: 03/11/03 13:50
 Client Sample ID: MW-54A Matrix: Water Date Received: 03/12/03 09:20

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Carbon disulfide	ND	ug/l	5.00	1.0	03/13/03 21:19	LJAS	75-15-0		
Carbon tetrachloride	ND	ug/l	5.00	1.0	03/13/03 21:19	LJAS	56-23-5		
Chlorobenzene	ND	ug/l	5.00	1.0	03/13/03 21:19	LJAS	108-90-7		
Chloroethane	ND	ug/l	10.0	1.0	03/13/03 21:19	LJAS	75-00-3		
2-Chloroethylvinyl ether	ND	ug/l	10.0	1.0	03/13/03 21:19	LJAS	110-75-8		
Chloroform	ND	ug/l	5.00	1.0	03/13/03 21:19	LJAS	67-66-3		
Chloromethane	ND	ug/l	10.0	1.0	03/13/03 21:19	LJAS	74-87-3		
Dibromochloromethane	ND	ug/l	5.00	1.0	03/13/03 21:19	LJAS	124-48-1		
1,1-Dichloroethane	ND	ug/l	5.00	1.0	03/13/03 21:19	LJAS	75-34-3		
1,2-Dichloroethane	ND	ug/l	5.00	1.0	03/13/03 21:19	LJAS	107-06-2		
1,1-Dichloroethene	ND	ug/l	5.00	1.0	03/13/03 21:19	LJAS	75-35-4		
cis-1,2-Dichloroethene	ND	ug/l	5.00	1.0	03/13/03 21:19	LJAS	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	5.00	1.0	03/13/03 21:19	LJAS	156-60-5		
1,2-Dichloropropane	ND	ug/l	5.00	1.0	03/13/03 21:19	LJAS	78-87-5		
cis-1,3-Dichloropropene	ND	ug/l	5.00	1.0	03/13/03 21:19	LJAS	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/l	5.00	1.0	03/13/03 21:19	LJAS	10061-02-6		
Ethylbenzene	ND	ug/l	5.00	1.0	03/13/03 21:19	LJAS	100-41-4		
2-Hexanone	ND	ug/l	10.0	1.0	03/13/03 21:19	LJAS	591-78-6		
Methylene chloride	ND	ug/l	5.00	1.0	03/13/03 21:19	LJAS	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/l	10.0	1.0	03/13/03 21:19	LJAS	108-10-1		
Styrene	ND	ug/l	5.00	1.0	03/13/03 21:19	LJAS	100-42-5		
1,1,2,2-Tetrachloroethane	ND	ug/l	5.00	1.0	03/13/03 21:19	LJAS	79-34-5		
Tetrachloroethene	ND	ug/l	5.00	1.0	03/13/03 21:19	LJAS	127-18-4		
Toluene	ND	ug/l	5.00	1.0	03/13/03 21:19	LJAS	108-88-3		
1,1,1-Trichloroethane	ND	ug/l	5.00	1.0	03/13/03 21:19	LJAS	71-55-6		
1,1,2-Trichloroethane	ND	ug/l	5.00	1.0	03/13/03 21:19	LJAS	79-00-5		
Trichloroethene	ND	ug/l	5.00	1.0	03/13/03 21:19	LJAS	79-01-6		
Vinyl acetate	ND	ug/l	5.00	1.0	03/13/03 21:19	LJAS	108-05-4		
Vinyl chloride	ND	ug/l	10.0	1.0	03/13/03 21:19	LJAS	75-01-4		
Xylene (Total)	ND	ug/l	5.00	1.0	03/13/03 21:19	LJAS	1330-20-7		
m&p-Xylene	ND	ug/l	5.00	1.0	03/13/03 21:19	LJAS			
o-Xylene	ND	ug/l	5.00	1.0	03/13/03 21:19	LJAS	95-47-6		
Toluene-d8 (S)	117	%		1.0	03/13/03 21:19	LJAS	2037-26-5		
4-Bromofluorobenzene (S)	99	%		1.0	03/13/03 21:19	LJAS	460-00-4		
1,2-Dichloroethane-d4 (S)	104	%		1.0	03/13/03 21:19	LJAS	17060-07-0		

Comments : ARS performed the Total Uranium analysis. Please refer to the enclosed report.

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 8532853
Client Project ID: NCL/TEL

Lab Sample No: 851795843 Project Sample Number: 8532853-006 Date Collected: 03/11/03 14:15
Client Sample ID: MW-56 Matrix: Water Date Received: 03/12/03 09:20

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
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Metals

SW6010 Metals, Trace Water		Prep/Method: / EPA 6010							
Aluminum	1050	ug/l	200.	1.0	03/27/03	01:03	AJT1	7429-90-5	
Arsenic	ND	ug/l	10.0	1.0	03/27/03	01:03	AJT1	7440-38-2	
Barium	ND	ug/l	200.	1.0	03/27/03	01:03	AJT1	7440-39-3	
Beryllium	ND	ug/l	5.00	1.0	03/27/03	01:03	AJT1	7440-41-7	
Boron	426.	ug/l	100.	1.0	03/27/03	01:03	AJT1	7440-42-8	
Cadmium	ND	ug/l	5.00	1.0	03/27/03	01:03	AJT1	7440-43-9	
Chromium	ND	ug/l	10.0	1.0	03/27/03	01:03	AJT1	7440-47-3	
Cobalt	ND	ug/l	50.0	1.0	03/27/03	01:03	AJT1	7440-48-4	
Copper	58.5	ug/l	25.0	1.0	03/27/03	01:03	AJT1	7440-50-8	
Iron	101.	ug/l	100.	1.0	03/27/03	01:03	AJT1	7439-89-6	
Lead	ND	ug/l	3.00	1.0	03/27/03	01:03	AJT1	7439-92-1	
Manganese	355.	ug/l	15.0	1.0	03/27/03	01:03	AJT1	7439-96-5	
Molybdenum	10.4	ug/l	10.0	1.0	03/27/03	01:03	AJT1	7439-98-7	
Nickel	ND	ug/l	40.0	1.0	03/27/03	01:03	AJT1	7440-02-0	
Selenium	30.9	ug/l	5.00	1.0	03/27/03	01:03	AJT1	7782-49-2	
Silver	ND	ug/l	10.0	1.0	03/27/03	01:03	AJT1	7440-22-4	
Vanadium	ND	ug/l	50.0	1.0	03/27/03	01:03	AJT1	7440-62-2	
Zinc	ND	ug/l	20.0	1.0	03/27/03	01:03	AJT1	7440-66-6	

Mercury, Water, SW 7470		Method: EPA 7470							
Mercury	ND	ug/l	0.200	1.0	03/13/03	13:42	SSPI	7439-97-6	200

Wet Chemistry

Sulfide, Total		Method: EPA 376.1							
Sulfide	ND	mg/l	4.00	4.0	03/18/03	15:15	HFEB		

Phenolics, Total Recoverable		Method: EPA 420.2							
Phenolics, Total Recoverable	0.216	mg/l	0.0100	1.0	03/27/03		HFEB		

GC/MS Semivolatiles

SW8270 Semivolatiles, Water		Prep/Method: EPA 3510 / EPA 8270							
Acenaphthene	ND	ug/l	10.0	1.0	03/21/03	17:35	ALS	83-32-9	
Acenaphthylene	ND	ug/l	10.0	1.0	03/21/03	17:35	ALS	208-96-8	
Aniline	ND	ug/l	10.0	1.0	03/21/03	17:35	ALS	62-53-3	
Anthracene	ND	ug/l	10.0	1.0	03/21/03	17:35	ALS	120-12-7	
Benzidine	ND	ug/l	10.0	1.0	03/21/03	17:35	ALS	92-87-5	
Benzo(a)anthracene	ND	ug/l	10.0	1.0	03/21/03	17:35	ALS	56-55-3	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
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 Phone: 281.488.1810
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Lab Project Number: 8532853
 Client Project ID: NCL/TEL

Lab Sample No: 851795843 Project Sample Number: 8532853-006 Date Collected: 03/11/03 14:15
 Client Sample ID: MW-56 Matrix: Water Date Received: 03/12/03 09:20

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Benzo(a)pyrene	ND	ug/l	10.0	1.0	03/21/03 17:35	ALS	50-32-8		
Benzo(b)fluoranthene	ND	ug/l	10.0	1.0	03/21/03 17:35	ALS	205-99-2		
Benzo(g,h,i)perylene	ND	ug/l	10.0	1.0	03/21/03 17:35	ALS	191-24-2		
Benzo(k)fluoranthene	ND	ug/l	10.0	1.0	03/21/03 17:35	ALS	207-08-9		
Benzoic acid	ND	ug/l	25.0	1.0	03/21/03 17:35	ALS	65-85-0		
Benzyl alcohol	ND	ug/l	10.0	1.0	03/21/03 17:35	ALS	100-51-6		
4-Bromophenylphenyl ether	ND	ug/l	10.0	1.0	03/21/03 17:35	ALS	101-55-3		
Butylbenzylphthalate	ND	ug/l	10.0	1.0	03/21/03 17:35	ALS	85-68-7		
4-Chloro-3-methylphenol	ND	ug/l	10.0	1.0	03/21/03 17:35	ALS	59-50-7		
4-Chloroaniline	ND	ug/l	10.0	1.0	03/21/03 17:35	ALS	106-47-8		
bis(2-Chloroethoxy)methane	ND	ug/l	10.0	1.0	03/21/03 17:35	ALS	111-91-1		
bis(2-Chloroethyl) ether	ND	ug/l	10.0	1.0	03/21/03 17:35	ALS	111-44-4		
bis(2-Chloroisopropyl) ether	ND	ug/l	10.0	1.0	03/21/03 17:35	ALS	39638-32-9		
2-Chloronaphthalene	ND	ug/l	10.0	1.0	03/21/03 17:35	ALS	91-58-7		
2-Chlorophenol	ND	ug/l	10.0	1.0	03/21/03 17:35	ALS	95-57-8		
4-Chlorophenylphenyl ether	ND	ug/l	10.0	1.0	03/21/03 17:35	ALS	7005-72-3		
Chrysene	ND	ug/l	10.0	1.0	03/21/03 17:35	ALS	218-01-9		
Dibenz(a,h)anthracene	ND	ug/l	10.0	1.0	03/21/03 17:35	ALS	53-70-3		
Dibenzofuran	ND	ug/l	10.0	1.0	03/21/03 17:35	ALS	132-64-9		
1,2-Dichlorobenzene	ND	ug/l	10.0	1.0	03/21/03 17:35	ALS	95-50-1		
1,3-Dichlorobenzene	ND	ug/l	10.0	1.0	03/21/03 17:35	ALS	541-73-1		
1,4-Dichlorobenzene	ND	ug/l	10.0	1.0	03/21/03 17:35	ALS	106-46-7		
3,3'-Dichlorobenzidine	ND	ug/l	10.0	1.0	03/21/03 17:35	ALS	91-94-1		
2,4-Dichlorophenol	ND	ug/l	10.0	1.0	03/21/03 17:35	ALS	120-83-2		
Diethylphthalate	ND	ug/l	10.0	1.0	03/21/03 17:35	ALS	84-66-2		
2,4-Dimethylphenol	ND	ug/l	10.0	1.0	03/21/03 17:35	ALS	105-67-9		
Dimethylphthalate	ND	ug/l	10.0	1.0	03/21/03 17:35	ALS	131-11-3		
Di-n-butylphthalate	ND	ug/l	10.0	1.0	03/21/03 17:35	ALS	84-74-2		
4,6-Dinitro-2-methylphenol	ND	ug/l	10.0	1.0	03/21/03 17:35	ALS	534-52-1		
2,4-Dinitrophenol	ND	ug/l	10.0	1.0	03/21/03 17:35	ALS	51-28-5		
2,4-Dinitrotoluene	ND	ug/l	10.0	1.0	03/21/03 17:35	ALS	121-14-2		
2,6-Dinitrotoluene	ND	ug/l	10.0	1.0	03/21/03 17:35	ALS	606-20-2		
Di-n-octylphthalate	ND	ug/l	10.0	1.0	03/21/03 17:35	ALS	117-84-0		
bis(2-Ethylhexyl)phthalate	ND	ug/l	10.0	1.0	03/21/03 17:35	ALS	117-81-7		
Fluoranthene	ND	ug/l	10.0	1.0	03/21/03 17:35	ALS	206-44-0		
Fluorene	ND	ug/l	10.0	1.0	03/21/03 17:35	ALS	86-73-7		
Hexachloro-1,3-butadiene	ND	ug/l	10.0	1.0	03/21/03 17:35	ALS	87-68-3		
Hexachlorobenzene	ND	ug/l	10.0	1.0	03/21/03 17:35	ALS	118-74-1		
Hexachlorocyclopentadiene	ND	ug/l	10.0	1.0	03/21/03 17:35	ALS	77-47-4		

Date: 04/03/03

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 8532853
Client Project ID: NCL/TEL

Lab Sample No: 851795843
Client Sample ID: MW-56

Project Sample Number: 8532853-006
Matrix: Water

Date Collected: 03/11/03 14:15
Date Received: 03/12/03 09:20

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Hexachloroethane	ND	ug/l	10.0	1.0	03/21/03 17:35	ALS	67-72-1		
Indeno(1,2,3-cd)pyrene	ND	ug/l	10.0	1.0	03/21/03 17:35	ALS	193-39-5		
Isophorone	ND	ug/l	10.0	1.0	03/21/03 17:35	ALS	78-59-1		
2-Methylnaphthalene	ND	ug/l	10.0	1.0	03/21/03 17:35	ALS	91-57-6		
2-Methylphenol (o-Cresol)	ND	ug/l	10.0	1.0	03/21/03 17:35	ALS	95-48-7		
3&4-Methylphenol	ND	ug/l	10.0	1.0	03/21/03 17:35	ALS			
Naphthalene	ND	ug/l	10.0	1.0	03/21/03 17:35	ALS	91-20-3		
2-Nitroaniline	ND	ug/l	10.0	1.0	03/21/03 17:35	ALS	88-74-4		
3-Nitroaniline	ND	ug/l	10.0	1.0	03/21/03 17:35	ALS	99-09-2		
4-Nitroaniline	ND	ug/l	10.0	1.0	03/21/03 17:35	ALS	100-01-6		
Nitrobenzene	ND	ug/l	10.0	1.0	03/21/03 17:35	ALS	98-95-3		
2-Nitrophenol	ND	ug/l	10.0	1.0	03/21/03 17:35	ALS	88-75-5		
4-Nitrophenol	ND	ug/l	10.0	1.0	03/21/03 17:35	ALS	100-02-7		
N-Nitrosodimethylamine	ND	ug/l	10.0	1.0	03/21/03 17:35	ALS	62-75-9		
N-Nitroso-di-n-propylamine	ND	ug/l	10.0	1.0	03/21/03 17:35	ALS	621-64-7		
N-Nitrosodiphenylamine	ND	ug/l	10.0	1.0	03/21/03 17:35	ALS	86-30-6		
Pentachlorophenol	ND	ug/l	10.0	1.0	03/21/03 17:35	ALS	87-86-5		
Phenanthrene	ND	ug/l	10.0	1.0	03/21/03 17:35	ALS	85-01-8		
Phenol	ND	ug/l	10.0	1.0	03/21/03 17:35	ALS	108-95-2		
Pyrene	ND	ug/l	10.0	1.0	03/21/03 17:35	ALS	129-00-0		
1,2,4-Trichlorobenzene	ND	ug/l	10.0	1.0	03/21/03 17:35	ALS	120-82-1		
2,4,5-Trichlorophenol	ND	ug/l	10.0	1.0	03/21/03 17:35	ALS	95-95-4		
2,4,6-Trichlorophenol	ND	ug/l	10.0	1.0	03/21/03 17:35	ALS	88-06-2		
Nitrobenzene-d5 (S)	55	%		1.0	03/21/03 17:35	ALS	4165-60-0		
2-Fluorobiphenyl (S)	47	%		1.0	03/21/03 17:35	ALS	321-60-8		
Terphenyl-d14 (S)	76	%		1.0	03/21/03 17:35	ALS	1718-51-0		
Phenol-d5 (S)	20	%		1.0	03/21/03 17:35	ALS	4165-62-2		
2-Fluorophenol (S)	32	%		1.0	03/21/03 17:35	ALS	367-12-4		
2,4,6-Tribromophenol (S)	45	%		1.0	03/21/03 17:35	ALS			
Date Extracted	03/14/03 17:00				03/14/03 17:00				

GC/MS Volatiles

SW8260 Volatiles, Water

Method: EPA 8260

Acetone	ND	ug/l	10.0	1.0	03/13/03 21:44	LJAS	67-64-1		
Benzene	ND	ug/l	5.00	1.0	03/13/03 21:44	LJAS	71-43-2		
Bromodichloromethane	ND	ug/l	5.00	1.0	03/13/03 21:44	LJAS	75-27-4		
Bromoform	ND	ug/l	5.00	1.0	03/13/03 21:44	LJAS	75-25-2		
Bromomethane	ND	ug/l	10.0	1.0	03/13/03 21:44	LJAS	74-83-9		
2-Butanone (MEK)	ND	ug/l	10.0	1.0	03/13/03 21:44	LJAS	78-93-3		

Date: 04/03/03

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 8532853
Client Project ID: NCL/TEL

Lab Sample No: 851795843 Project Sample Number: 8532853-006 Date Collected: 03/11/03 14:15
Client Sample ID: MW-56 Matrix: Water Date Received: 03/12/03 09:20

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Carbon disulfide	ND	ug/l	5.00	1.0	03/13/03 21:44	LJAS	75-15-0		
Carbon tetrachloride	ND	ug/l	5.00	1.0	03/13/03 21:44	LJAS	56-23-5		
Chlorobenzene	ND	ug/l	5.00	1.0	03/13/03 21:44	LJAS	108-90-7		
Chloroethane	ND	ug/l	10.0	1.0	03/13/03 21:44	LJAS	75-00-3		
2-Chloroethylvinyl ether	ND	ug/l	10.0	1.0	03/13/03 21:44	LJAS	110-75-8		
Chloroform	ND	ug/l	5.00	1.0	03/13/03 21:44	LJAS	67-66-3		
Chloromethane	ND	ug/l	10.0	1.0	03/13/03 21:44	LJAS	74-87-3		
Dibromochloromethane	ND	ug/l	5.00	1.0	03/13/03 21:44	LJAS	124-48-1		
1,1-Dichloroethane	ND	ug/l	5.00	1.0	03/13/03 21:44	LJAS	75-34-3		
1,2-Dichloroethane	ND	ug/l	5.00	1.0	03/13/03 21:44	LJAS	107-06-2		
1,1-Dichloroethene	ND	ug/l	5.00	1.0	03/13/03 21:44	LJAS	75-35-4		
cis-1,2-Dichloroethene	ND	ug/l	5.00	1.0	03/13/03 21:44	LJAS	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	5.00	1.0	03/13/03 21:44	LJAS	156-60-5		
1,2-Dichloropropane	ND	ug/l	5.00	1.0	03/13/03 21:44	LJAS	78-87-5		
cis-1,3-Dichloropropene	ND	ug/l	5.00	1.0	03/13/03 21:44	LJAS	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/l	5.00	1.0	03/13/03 21:44	LJAS	10061-02-6		
Ethylbenzene	ND	ug/l	5.00	1.0	03/13/03 21:44	LJAS	100-41-4		
2-Hexanone	ND	ug/l	10.0	1.0	03/13/03 21:44	LJAS	591-78-6		
Methylene chloride	ND	ug/l	5.00	1.0	03/13/03 21:44	LJAS	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/l	10.0	1.0	03/13/03 21:44	LJAS	108-10-1		
Styrene	ND	ug/l	5.00	1.0	03/13/03 21:44	LJAS	100-42-5		
1,1,2,2-Tetrachloroethane	ND	ug/l	5.00	1.0	03/13/03 21:44	LJAS	79-34-5		
Tetrachloroethene	ND	ug/l	5.00	1.0	03/13/03 21:44	LJAS	127-18-4		
Toluene	ND	ug/l	5.00	1.0	03/13/03 21:44	LJAS	108-88-3		
1,1,1-Trichloroethane	ND	ug/l	5.00	1.0	03/13/03 21:44	LJAS	71-55-6		
1,1,2-Trichloroethane	ND	ug/l	5.00	1.0	03/13/03 21:44	LJAS	79-00-5		
Trichloroethene	ND	ug/l	5.00	1.0	03/13/03 21:44	LJAS	79-01-6		
Vinyl acetate	ND	ug/l	5.00	1.0	03/13/03 21:44	LJAS	108-05-4		
Vinyl chloride	ND	ug/l	10.0	1.0	03/13/03 21:44	LJAS	75-01-4		
Xylene (Total)	ND	ug/l	5.00	1.0	03/13/03 21:44	LJAS	1330-20-7		
m&p-Xylene	ND	ug/l	5.00	1.0	03/13/03 21:44	LJAS			
o-Xylene	ND	ug/l	5.00	1.0	03/13/03 21:44	LJAS	95-47-6		
Toluene-d8 (S)	109	%		1.0	03/13/03 21:44	LJAS	2037-26-5		
4-Bromofluorobenzene (S)	98	%		1.0	03/13/03 21:44	LJAS	460-00-4		
1,2-Dichloroethane-d4 (S)	112	%		1.0	03/13/03 21:44	LJAS	17060-07-0		

Comments : ARS performed the Total Uranium analysis. Please refer to the enclosed report.

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 8532853
Client Project ID: NCL/TEL

Lab Sample No: 851795844 Project Sample Number: 8532853-007 Date Collected: 03/04/03 17:00
Client Sample ID: TRIP BLANK 1 Matrix: Water Date Received: 03/12/03 09:20

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
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GC/MS Volatiles

SW8260 Volatiles, Water

Method: EPA 8260

Acetone	ND	ug/l	10.0	1.0	03/12/03 17:40	LJAS	67-64-1		
Benzene	ND	ug/l	5.00	1.0	03/12/03 17:40	LJAS	71-43-2		
Bromodichloromethane	ND	ug/l	5.00	1.0	03/12/03 17:40	LJAS	75-27-4		
Bromoform	ND	ug/l	5.00	1.0	03/12/03 17:40	LJAS	75-25-2		
Bromomethane	ND	ug/l	10.0	1.0	03/12/03 17:40	LJAS	74-83-9		
2-Butanone (MEK)	ND	ug/l	10.0	1.0	03/12/03 17:40	LJAS	78-93-3		
Carbon disulfide	ND	ug/l	5.00	1.0	03/12/03 17:40	LJAS	75-15-0		
Carbon tetrachloride	ND	ug/l	5.00	1.0	03/12/03 17:40	LJAS	56-23-5		
Chlorobenzene	ND	ug/l	5.00	1.0	03/12/03 17:40	LJAS	108-90-7		
Chloroethane	ND	ug/l	10.0	1.0	03/12/03 17:40	LJAS	75-00-3		
2-Chloroethylvinyl ether	ND	ug/l	10.0	1.0	03/12/03 17:40	LJAS	110-75-8		
Chloroform	ND	ug/l	5.00	1.0	03/12/03 17:40	LJAS	67-66-3		
Chloromethane	ND	ug/l	10.0	1.0	03/12/03 17:40	LJAS	74-87-3		
Dibromochloromethane	ND	ug/l	5.00	1.0	03/12/03 17:40	LJAS	124-48-1		
1,1-Dichloroethane	ND	ug/l	5.00	1.0	03/12/03 17:40	LJAS	75-34-3		
1,2-Dichloroethane	ND	ug/l	5.00	1.0	03/12/03 17:40	LJAS	107-06-2		
1,1-Dichloroethene	ND	ug/l	5.00	1.0	03/12/03 17:40	LJAS	75-35-4		
cis-1,2-Dichloroethene	ND	ug/l	5.00	1.0	03/12/03 17:40	LJAS	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	5.00	1.0	03/12/03 17:40	LJAS	156-60-5		
1,2-Dichloropropane	ND	ug/l	5.00	1.0	03/12/03 17:40	LJAS	78-87-5		
cis-1,3-Dichloropropene	ND	ug/l	5.00	1.0	03/12/03 17:40	LJAS	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/l	5.00	1.0	03/12/03 17:40	LJAS	10061-02-6		
Ethylbenzene	ND	ug/l	5.00	1.0	03/12/03 17:40	LJAS	100-41-4		
2-Hexanone	ND	ug/l	10.0	1.0	03/12/03 17:40	LJAS	591-78-6		
Methylene chloride	ND	ug/l	5.00	1.0	03/12/03 17:40	LJAS	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/l	10.0	1.0	03/12/03 17:40	LJAS	108-10-1		
Styrene	ND	ug/l	5.00	1.0	03/12/03 17:40	LJAS	100-42-5		
1,1,2,2-Tetrachloroethane	ND	ug/l	5.00	1.0	03/12/03 17:40	LJAS	79-34-5		
Tetrachloroethene	ND	ug/l	5.00	1.0	03/12/03 17:40	LJAS	127-18-4		
Toluene	ND	ug/l	5.00	1.0	03/12/03 17:40	LJAS	108-88-3		
1,1,1-Trichloroethane	ND	ug/l	5.00	1.0	03/12/03 17:40	LJAS	71-55-6		
1,1,2-Trichloroethane	ND	ug/l	5.00	1.0	03/12/03 17:40	LJAS	79-00-5		
Trichloroethene	ND	ug/l	5.00	1.0	03/12/03 17:40	LJAS	79-01-6		
Vinyl acetate	ND	ug/l	5.00	1.0	03/12/03 17:40	LJAS	108-05-4		
Vinyl chloride	ND	ug/l	10.0	1.0	03/12/03 17:40	LJAS	75-01-4		
Xylene (Total)	ND	ug/l	5.00	1.0	03/12/03 17:40	LJAS	1330-20-7		
m&p-Xylene	ND	ug/l	5.00	1.0	03/12/03 17:40	LJAS			

Date: 04/03/03

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REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
900 Gemini Avenue
Houston, TX 77058
Phone: 281.488.1810
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Lab Project Number: 8532853
Client Project ID: NCL/TEL

Lab Sample No: 851795844 Project Sample Number: 8532853-007 Date Collected: 03/04/03 17:00
Client Sample ID: TRIP BLANK 1 Matrix: Water Date Received: 03/12/03 09:20

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
o-Xylene	ND	ug/l	5.00	1.0	03/12/03 17:40	LJAS	95-47-6		
Toluene-d8 (S)	109	%		1.0	03/12/03 17:40	LJAS	2037-26-5		
4-Bromofluorobenzene (S)	91	%		1.0	03/12/03 17:40	LJAS	460-00-4		
1,2-Dichloroethane-d4 (S)	103	%		1.0	03/12/03 17:40	LJAS	17060-07-0		

Date: 04/03/03

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 8532853
Client Project ID: NCL/TEL

Lab Sample No: 851795845 Project Sample Number: 8532853-008 Date Collected: 03/13/03 08:10
Client Sample ID: MW-55 Matrix: Water Date Received: 03/14/03 08:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
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Metals

SW6010 Metals, Trace Water		Prep/Method: / EPA 6010							
Aluminum	629.	ug/l	200.	1.0	03/27/03	01:09	AJT1	7429-90-5	
Arsenic	ND	ug/l	10.0	1.0	03/27/03	01:09	AJT1	7440-38-2	
Barium	ND	ug/l	200.	1.0	03/27/03	01:09	AJT1	7440-39-3	
Beryllium	ND	ug/l	5.00	1.0	03/27/03	01:09	AJT1	7440-41-7	
Boron	531.	ug/l	100.	1.0	03/27/03	01:09	AJT1	7440-42-8	
Cadmium	ND	ug/l	5.00	1.0	03/27/03	01:09	AJT1	7440-43-9	
Chromium	ND	ug/l	10.0	1.0	03/27/03	01:09	AJT1	7440-47-3	
Cobalt	ND	ug/l	50.0	1.0	03/27/03	01:09	AJT1	7440-48-4	
Copper	39.2	ug/l	25.0	1.0	03/27/03	01:09	AJT1	7440-50-8	
Iron	ND	ug/l	100.	1.0	03/27/03	01:09	AJT1	7439-89-6	
Lead	ND	ug/l	3.00	1.0	03/27/03	01:09	AJT1	7439-92-1	
Manganese	467.	ug/l	15.0	1.0	03/27/03	01:09	AJT1	7439-96-5	
Molybdenum	27.0	ug/l	10.0	1.0	03/27/03	01:09	AJT1	7439-98-7	
Nickel	ND	ug/l	40.0	1.0	03/27/03	01:09	AJT1	7440-02-0	
Selenium	20.3	ug/l	5.00	1.0	03/27/03	01:09	AJT1	7782-49-2	
Silver	ND	ug/l	10.0	1.0	03/27/03	01:09	AJT1	7440-22-4	
Vanadium	ND	ug/l	50.0	1.0	03/27/03	01:09	AJT1	7440-62-2	
Zinc	ND	ug/l	20.0	1.0	03/27/03	01:09	AJT1	7440-66-6	

Mercury, Water, SW 7470		Method: EPA 7470							
Mercury	ND	ug/l	0.200	1.0	03/25/03	13:23	SSPI	7439-97-6	200

Wet Chemistry

Sulfide, Total		Method: EPA 376.1							
Sulfide	ND	mg/l	4.00	4.0	03/20/03	08:04	HFEB		

Phenolics, Total Recoverable		Method: EPA 420.2							
Phenolics, Total Recoverable	ND	mg/l	0.0100	1.0	03/28/03		HFEB		

GC/MS Semivolatiles

SW8270 Semivolatiles, Water		Prep/Method: EPA 3510 / EPA 8270							
Acenaphthene	ND	ug/l	10.0	1.0	03/27/03	11:32	ALS	83-32-9	
Acenaphthylene	ND	ug/l	10.0	1.0	03/27/03	11:32	ALS	208-96-8	
Aniline	ND	ug/l	10.0	1.0	03/27/03	11:32	ALS	62-53-3	
Anthracene	ND	ug/l	10.0	1.0	03/27/03	11:32	ALS	120-12-7	
Benzidine	ND	ug/l	10.0	1.0	03/27/03	11:32	ALS	92-87-5	
Benzo(a)anthracene	ND	ug/l	10.0	1.0	03/27/03	11:32	ALS	56-55-3	

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 8532853
 Client Project ID: NCL/TEL

Lab Sample No: 851795845 Project Sample Number: 8532853-008 Date Collected: 03/13/03 08:10
 Client Sample ID: MW-55 Matrix: Water Date Received: 03/14/03 08:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Benzo(a)pyrene	ND	ug/l	10.0	1.0	03/27/03 11:32	ALS	50-32-8		
Benzo(b)fluoranthene	ND	ug/l	10.0	1.0	03/27/03 11:32	ALS	205-99-2		
Benzo(g,h,i)perylene	ND	ug/l	10.0	1.0	03/27/03 11:32	ALS	191-24-2		
Benzo(k)fluoranthene	ND	ug/l	10.0	1.0	03/27/03 11:32	ALS	207-08-9		
Benzoic acid	ND	ug/l	25.0	1.0	03/27/03 11:32	ALS	65-85-0		
Benzyl alcohol	ND	ug/l	10.0	1.0	03/27/03 11:32	ALS	100-51-6		
4-Bromophenylphenyl ether	ND	ug/l	10.0	1.0	03/27/03 11:32	ALS	101-55-3		
Butylbenzylphthalate	ND	ug/l	10.0	1.0	03/27/03 11:32	ALS	85-68-7		
4-Chloro-3-methylphenol	ND	ug/l	10.0	1.0	03/27/03 11:32	ALS	59-50-7		
4-Chloroaniline	ND	ug/l	10.0	1.0	03/27/03 11:32	ALS	106-47-8		
bis(2-Chloroethoxy)methane	ND	ug/l	10.0	1.0	03/27/03 11:32	ALS	111-91-1		
bis(2-Chloroethyl) ether	ND	ug/l	10.0	1.0	03/27/03 11:32	ALS	111-44-4		
bis(2-Chloroisopropyl) ether	ND	ug/l	10.0	1.0	03/27/03 11:32	ALS	39638-32-9		
2-Chloronaphthalene	ND	ug/l	10.0	1.0	03/27/03 11:32	ALS	91-58-7		
2-Chlorophenol	ND	ug/l	10.0	1.0	03/27/03 11:32	ALS	95-57-8		
4-Chlorophenylphenyl ether	ND	ug/l	10.0	1.0	03/27/03 11:32	ALS	7005-72-3		
Chrysene	ND	ug/l	10.0	1.0	03/27/03 11:32	ALS	218-01-9		
Dibenz(a,h)anthracene	ND	ug/l	10.0	1.0	03/27/03 11:32	ALS	53-70-3		
Dibenzofuran	ND	ug/l	10.0	1.0	03/27/03 11:32	ALS	132-64-9		
1,2-Dichlorobenzene	ND	ug/l	10.0	1.0	03/27/03 11:32	ALS	95-50-1		
1,3-Dichlorobenzene	ND	ug/l	10.0	1.0	03/27/03 11:32	ALS	541-73-1		
1,4-Dichlorobenzene	ND	ug/l	10.0	1.0	03/27/03 11:32	ALS	106-46-7		
3,3'-Dichlorobenzidine	ND	ug/l	10.0	1.0	03/27/03 11:32	ALS	91-94-1		
2,4-Dichlorophenol	ND	ug/l	10.0	1.0	03/27/03 11:32	ALS	120-83-2		
Diethylphthalate	ND	ug/l	10.0	1.0	03/27/03 11:32	ALS	84-66-2		
2,4-Dimethylphenol	ND	ug/l	10.0	1.0	03/27/03 11:32	ALS	105-67-9		
Dimethylphthalate	ND	ug/l	10.0	1.0	03/27/03 11:32	ALS	131-11-3		
Di-n-butylphthalate	ND	ug/l	10.0	1.0	03/27/03 11:32	ALS	84-74-2		
4,6-Dinitro-2-methylphenol	ND	ug/l	10.0	1.0	03/27/03 11:32	ALS	534-52-1		
2,4-Dinitrophenol	ND	ug/l	10.0	1.0	03/27/03 11:32	ALS	51-28-5		
2,4-Dinitrotoluene	ND	ug/l	10.0	1.0	03/27/03 11:32	ALS	121-14-2		
2,6-Dinitrotoluene	ND	ug/l	10.0	1.0	03/27/03 11:32	ALS	606-20-2		
Di-n-octylphthalate	ND	ug/l	10.0	1.0	03/27/03 11:32	ALS	117-84-0		
bis(2-Ethylhexyl)phthalate	ND	ug/l	10.0	1.0	03/27/03 11:32	ALS	117-81-7		
Fluoranthene	ND	ug/l	10.0	1.0	03/27/03 11:32	ALS	206-44-0		
Fluorene	ND	ug/l	10.0	1.0	03/27/03 11:32	ALS	86-73-7		
Hexachloro-1,3-butadiene	ND	ug/l	10.0	1.0	03/27/03 11:32	ALS	87-68-3		
Hexachlorobenzene	ND	ug/l	10.0	1.0	03/27/03 11:32	ALS	118-74-1		
Hexachlorocyclopentadiene	ND	ug/l	10.0	1.0	03/27/03 11:32	ALS	77-47-4		

Date: 04/03/03

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 8532853
Client Project ID: NCL/TEL

Lab Sample No: 851795845 Project Sample Number: 8532853-008 Date Collected: 03/13/03 08:10
Client Sample ID: MW-55 Matrix: Water Date Received: 03/14/03 08:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Hexachloroethane	ND	ug/l	10.0	1.0	03/27/03 11:32	ALS	67-72-1		
Indeno(1,2,3-cd)pyrene	ND	ug/l	10.0	1.0	03/27/03 11:32	ALS	193-39-5		
Isophorone	ND	ug/l	10.0	1.0	03/27/03 11:32	ALS	78-59-1		
2-Methylnaphthalene	ND	ug/l	10.0	1.0	03/27/03 11:32	ALS	91-57-6		
2-Methylphenol (o-Cresol)	ND	ug/l	10.0	1.0	03/27/03 11:32	ALS	95-48-7		
3&4-Methylphenol	ND	ug/l	10.0	1.0	03/27/03 11:32	ALS			
Naphthalene	ND	ug/l	10.0	1.0	03/27/03 11:32	ALS	91-20-3		
2-Nitroaniline	ND	ug/l	10.0	1.0	03/27/03 11:32	ALS	88-74-4		
3-Nitroaniline	ND	ug/l	10.0	1.0	03/27/03 11:32	ALS	99-09-2		
4-Nitroaniline	ND	ug/l	10.0	1.0	03/27/03 11:32	ALS	100-01-6		
Nitrobenzene	ND	ug/l	10.0	1.0	03/27/03 11:32	ALS	98-95-3		
2-Nitrophenol	ND	ug/l	10.0	1.0	03/27/03 11:32	ALS	88-75-5		
4-Nitrophenol	ND	ug/l	10.0	1.0	03/27/03 11:32	ALS	100-02-7		
N-Nitrosodimethylamine	ND	ug/l	10.0	1.0	03/27/03 11:32	ALS	62-75-9		
N-Nitroso-di-n-propylamine	ND	ug/l	10.0	1.0	03/27/03 11:32	ALS	621-64-7		
N-Nitrosodiphenylamine	ND	ug/l	10.0	1.0	03/27/03 11:32	ALS	86-30-6		
Pentachlorophenol	ND	ug/l	10.0	1.0	03/27/03 11:32	ALS	87-86-5		
Phenanthrene	ND	ug/l	10.0	1.0	03/27/03 11:32	ALS	85-01-8		
Phenol	ND	ug/l	10.0	1.0	03/27/03 11:32	ALS	108-95-2		
Pyrene	ND	ug/l	10.0	1.0	03/27/03 11:32	ALS	129-00-0		
1,2,4-Trichlorobenzene	ND	ug/l	10.0	1.0	03/27/03 11:32	ALS	120-82-1		
2,4,5-Trichlorophenol	ND	ug/l	10.0	1.0	03/27/03 11:32	ALS	95-95-4		
2,4,6-Trichlorophenol	ND	ug/l	10.0	1.0	03/27/03 11:32	ALS	88-06-2		
Nitrobenzene-d5 (S)	69	%		1.0	03/27/03 11:32	ALS	4165-60-0		
2-Fluorobiphenyl (S)	64	%		1.0	03/27/03 11:32	ALS	321-60-8		
Terphenyl-d14 (S)	109	%		1.0	03/27/03 11:32	ALS	1718-51-0		
Phenol-d5 (S)	32	%		1.0	03/27/03 11:32	ALS	4165-62-2		
2-Fluorophenol (S)	45	%		1.0	03/27/03 11:32	ALS	367-12-4		
2,4,6-Tribromophenol (S)	64	%		1.0	03/27/03 11:32	ALS			
Date Extracted	03/17/03 10:00				03/17/03 10:00				

GC/MS Volatiles

SW8260 Volatiles, Water

Method: EPA 8260

Acetone	ND	ug/l	10.0	1.0	03/20/03 15:05	EAD	67-64-1		
Benzene	ND	ug/l	5.00	1.0	03/20/03 15:05	EAD	71-43-2		
Bromodichloromethane	ND	ug/l	5.00	1.0	03/20/03 15:05	EAD	75-27-4		
Bromoform	ND	ug/l	5.00	1.0	03/20/03 15:05	EAD	75-25-2		
Bromomethane	ND	ug/l	10.0	1.0	03/20/03 15:05	EAD	74-83-9		
2-Butanone (MEK)	ND	ug/l	10.0	1.0	03/20/03 15:05	EAD	78-93-3		

Date: 04/03/03

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Lab Project Number: 8532853
 Client Project ID: NCL/TEL

Lab Sample No: 851795845 Project Sample Number: 8532853-008 Date Collected: 03/13/03 08:10
 Client Sample ID: MW-55 Matrix: Water Date Received: 03/14/03 08:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Carbon disulfide	ND	ug/l	5.00	1.0	03/20/03 15:05	EAD	75-15-0		
Carbon tetrachloride	ND	ug/l	5.00	1.0	03/20/03 15:05	EAD	56-23-5		
Chlorobenzene	ND	ug/l	5.00	1.0	03/20/03 15:05	EAD	108-90-7		
Chloroethane	ND	ug/l	10.0	1.0	03/20/03 15:05	EAD	75-00-3		
2-Chloroethylvinyl ether	ND	ug/l	10.0	1.0	03/20/03 15:05	EAD	110-75-8		
Chloroform	ND	ug/l	5.00	1.0	03/20/03 15:05	EAD	67-66-3		
Chloromethane	ND	ug/l	10.0	1.0	03/20/03 15:05	EAD	74-87-3		
Dibromochloromethane	ND	ug/l	5.00	1.0	03/20/03 15:05	EAD	124-48-1		
1,1-Dichloroethane	ND	ug/l	5.00	1.0	03/20/03 15:05	EAD	75-34-3		
1,2-Dichloroethane	ND	ug/l	5.00	1.0	03/20/03 15:05	EAD	107-06-2		
1,1-Dichloroethene	ND	ug/l	5.00	1.0	03/20/03 15:05	EAD	75-35-4		
cis-1,2-Dichloroethene	ND	ug/l	5.00	1.0	03/20/03 15:05	EAD	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	5.00	1.0	03/20/03 15:05	EAD	156-60-5		
1,2-Dichloropropane	ND	ug/l	5.00	1.0	03/20/03 15:05	EAD	78-87-5		
cis-1,3-Dichloropropene	ND	ug/l	5.00	1.0	03/20/03 15:05	EAD	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/l	5.00	1.0	03/20/03 15:05	EAD	10061-02-6		
Ethylbenzene	ND	ug/l	5.00	1.0	03/20/03 15:05	EAD	100-41-4		
2-Hexanone	ND	ug/l	10.0	1.0	03/20/03 15:05	EAD	591-78-6		
Methylene chloride	ND	ug/l	5.00	1.0	03/20/03 15:05	EAD	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/l	10.0	1.0	03/20/03 15:05	EAD	108-10-1		
Styrene	ND	ug/l	5.00	1.0	03/20/03 15:05	EAD	100-42-5		
1,1,2,2-Tetrachloroethane	ND	ug/l	5.00	1.0	03/20/03 15:05	EAD	79-34-5		
Tetrachloroethene	ND	ug/l	5.00	1.0	03/20/03 15:05	EAD	127-18-4		
Toluene	ND	ug/l	5.00	1.0	03/20/03 15:05	EAD	108-88-3		
1,1,1-Trichloroethane	ND	ug/l	5.00	1.0	03/20/03 15:05	EAD	71-55-6		
1,1,2-Trichloroethane	ND	ug/l	5.00	1.0	03/20/03 15:05	EAD	79-00-5		
Trichloroethene	ND	ug/l	5.00	1.0	03/20/03 15:05	EAD	79-01-6		
Vinyl acetate	ND	ug/l	5.00	1.0	03/20/03 15:05	EAD	108-05-4		
Vinyl chloride	ND	ug/l	10.0	1.0	03/20/03 15:05	EAD	75-01-4		
Xylene (Total)	ND	ug/l	5.00	1.0	03/20/03 15:05	EAD	1330-20-7		
m&p-Xylene	ND	ug/l	5.00	1.0	03/20/03 15:05	EAD			
o-Xylene	ND	ug/l	5.00	1.0	03/20/03 15:05	EAD	95-47-6		
Toluene-d8 (S)	98	%		1.0	03/20/03 15:05	EAD	2037-26-5		
4-Bromofluorobenzene (S)	101	%		1.0	03/20/03 15:05	EAD	460-00-4		
1,2-Dichloroethane-d4 (S)	88	%		1.0	03/20/03 15:05	EAD	17060-07-0		

Comments : ARS performed the Total Uranium analysis. Please refer to the enclosed report.

Date: 04/03/03

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 8532853
Client Project ID: NCL/TEL

Lab Sample No: 851795846 Project Sample Number: 8532853-009 Date Collected: 03/13/03 08:30
Client Sample ID: NCL-33 Matrix: Water Date Received: 03/14/03 08:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
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Metals

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
SW6010 Metals, Trace Water	Prep/Method: / EPA 6010								
Aluminum	936.	ug/l	200.	1.0	03/27/03 01:14	AJT1	7429-90-5		
Arsenic	ND	ug/l	10.0	1.0	03/27/03 01:14	AJT1	7440-38-2		
Barium	ND	ug/l	200.	1.0	03/27/03 01:14	AJT1	7440-39-3		
Beryllium	ND	ug/l	5.00	1.0	03/27/03 01:14	AJT1	7440-41-7		
Boron	490.	ug/l	100.	1.0	03/27/03 01:14	AJT1	7440-42-8		
Cadmium	ND	ug/l	5.00	1.0	03/27/03 01:14	AJT1	7440-43-9		
Chromium	ND	ug/l	10.0	1.0	03/27/03 01:14	AJT1	7440-47-3		
Cobalt	ND	ug/l	50.0	1.0	03/27/03 01:14	AJT1	7440-48-4		
Copper	34.4	ug/l	25.0	1.0	03/27/03 01:14	AJT1	7440-50-8		
Iron	1200	ug/l	100.	1.0	03/27/03 01:14	AJT1	7439-89-6		
Lead	ND	ug/l	3.00	1.0	03/27/03 01:14	AJT1	7439-92-1		
Manganese	117.	ug/l	15.0	1.0	03/27/03 01:14	AJT1	7439-96-5		
Molybdenum	ND	ug/l	10.0	1.0	03/27/03 01:14	AJT1	7439-98-7		
Nickel	ND	ug/l	40.0	1.0	03/27/03 01:14	AJT1	7440-02-0		
Selenium	21.3	ug/l	5.00	1.0	03/27/03 01:14	AJT1	7782-49-2		
Silver	ND	ug/l	10.0	1.0	03/27/03 01:14	AJT1	7440-22-4		
Vanadium	ND	ug/l	50.0	1.0	03/27/03 01:14	AJT1	7440-62-2		
Zinc	ND	ug/l	20.0	1.0	03/27/03 01:14	AJT1	7440-66-6		

Mercury, Water, SW 7470	Method: EPA 7470								
Mercury	ND	ug/l	0.200	1.0	03/25/03 13:23	SSPI	7439-97-6		200

Wet Chemistry

Sulfide, Total	Method: EPA 376.1								
Sulfide	ND	mg/l	4.00	4.0	03/20/03 08:04	HFEB			

Phenolics, Total Recoverable	Method: EPA 420.2								
Phenolics, Total Recoverable	ND	mg/l	0.0100	1.0	03/28/03	HFEB			

GC/MS Semivolatiles

SW8270 Semivolatiles, Water	Prep/Method: EPA 3510 / EPA 8270								
Acenaphthene	ND	ug/l	10.0	1.0	03/27/03 12:09	ALS	83-32-9		
Acenaphthylene	ND	ug/l	10.0	1.0	03/27/03 12:09	ALS	208-96-8		
Aniline	ND	ug/l	10.0	1.0	03/27/03 12:09	ALS	62-53-3		
Anthracene	ND	ug/l	10.0	1.0	03/27/03 12:09	ALS	120-12-7		
Benzidine	ND	ug/l	10.0	1.0	03/27/03 12:09	ALS	92-87-5		
Benzo(a)anthracene	ND	ug/l	10.0	1.0	03/27/03 12:09	ALS	56-55-3		

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
 900 Gemini Avenue
 Houston, TX 77058
 Phone: 281.488.1810
 Fax: 281.488.4661

Lab Project Number: 8532853
 Client Project ID: NCL/TEL

Lab Sample No: 851795846 Project Sample Number: 8532853-009 Date Collected: 03/13/03 08:30
 Client Sample ID: NCL-33 Matrix: Water Date Received: 03/14/03 08:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Benzo(a)pyrene	ND	ug/l	10.0	1.0	03/27/03 12:09	ALS	50-32-8		
Benzo(b)fluoranthene	ND	ug/l	10.0	1.0	03/27/03 12:09	ALS	205-99-2		
Benzo(g,h,i)perylene	ND	ug/l	10.0	1.0	03/27/03 12:09	ALS	191-24-2		
Benzo(k)fluoranthene	ND	ug/l	10.0	1.0	03/27/03 12:09	ALS	207-08-9		
Benzoic acid	ND	ug/l	25.0	1.0	03/27/03 12:09	ALS	65-85-0		
Benzyl alcohol	ND	ug/l	10.0	1.0	03/27/03 12:09	ALS	100-51-6		
4-Bromophenylphenyl ether	ND	ug/l	10.0	1.0	03/27/03 12:09	ALS	101-55-3		
Butylbenzylphthalate	ND	ug/l	10.0	1.0	03/27/03 12:09	ALS	85-68-7		
4-Chloro-3-methylphenol	ND	ug/l	10.0	1.0	03/27/03 12:09	ALS	59-50-7		
4-Chloroaniline	ND	ug/l	10.0	1.0	03/27/03 12:09	ALS	106-47-8		
bis(2-Chloroethoxy)methane	ND	ug/l	10.0	1.0	03/27/03 12:09	ALS	111-91-1		
bis(2-Chloroethyl) ether	ND	ug/l	10.0	1.0	03/27/03 12:09	ALS	111-44-4		
bis(2-Chloroisopropyl) ether	ND	ug/l	10.0	1.0	03/27/03 12:09	ALS	39638-32-9		
2-Chloronaphthalene	ND	ug/l	10.0	1.0	03/27/03 12:09	ALS	91-58-7		
2-Chlorophenol	ND	ug/l	10.0	1.0	03/27/03 12:09	ALS	95-57-8		
4-Chlorophenylphenyl ether	ND	ug/l	10.0	1.0	03/27/03 12:09	ALS	7005-72-3		
Chrysene	ND	ug/l	10.0	1.0	03/27/03 12:09	ALS	218-01-9		
Dibenz(a,h)anthracene	ND	ug/l	10.0	1.0	03/27/03 12:09	ALS	53-70-3		
Dibenzofuran	ND	ug/l	10.0	1.0	03/27/03 12:09	ALS	132-64-9		
1,2-Dichlorobenzene	ND	ug/l	10.0	1.0	03/27/03 12:09	ALS	95-50-1		
1,3-Dichlorobenzene	ND	ug/l	10.0	1.0	03/27/03 12:09	ALS	541-73-1		
1,4-Dichlorobenzene	ND	ug/l	10.0	1.0	03/27/03 12:09	ALS	106-46-7		
3,3'-Dichlorobenzidine	ND	ug/l	10.0	1.0	03/27/03 12:09	ALS	91-94-1		
2,4-Dichlorophenol	ND	ug/l	10.0	1.0	03/27/03 12:09	ALS	120-83-2		
Diethylphthalate	ND	ug/l	10.0	1.0	03/27/03 12:09	ALS	84-66-2		
2,4-Dimethylphenol	ND	ug/l	10.0	1.0	03/27/03 12:09	ALS	105-67-9		
Dimethylphthalate	ND	ug/l	10.0	1.0	03/27/03 12:09	ALS	131-11-3		
Di-n-butylphthalate	ND	ug/l	10.0	1.0	03/27/03 12:09	ALS	84-74-2		
4,6-Dinitro-2-methylphenol	ND	ug/l	10.0	1.0	03/27/03 12:09	ALS	534-52-1		
2,4-Dinitrophenol	ND	ug/l	10.0	1.0	03/27/03 12:09	ALS	51-28-5		
2,4-Dinitrotoluene	ND	ug/l	10.0	1.0	03/27/03 12:09	ALS	121-14-2		
2,6-Dinitrotoluene	ND	ug/l	10.0	1.0	03/27/03 12:09	ALS	606-20-2		
Di-n-octylphthalate	ND	ug/l	10.0	1.0	03/27/03 12:09	ALS	117-84-0		
bis(2-Ethylhexyl)phthalate	ND	ug/l	10.0	1.0	03/27/03 12:09	ALS	117-81-7		
Fluoranthene	ND	ug/l	10.0	1.0	03/27/03 12:09	ALS	206-44-0		
Fluorene	ND	ug/l	10.0	1.0	03/27/03 12:09	ALS	86-73-7		
Hexachloro-1,3-butadiene	ND	ug/l	10.0	1.0	03/27/03 12:09	ALS	87-68-3		
Hexachlorobenzene	ND	ug/l	10.0	1.0	03/27/03 12:09	ALS	118-74-1		
Hexachlorocyclopentadiene	ND	ug/l	10.0	1.0	03/27/03 12:09	ALS	77-47-4		

Date: 04/03/03

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 8532853
Client Project ID: NCL/TEL

Lab Sample No: 851795846 Project Sample Number: 8532853-009 Date Collected: 03/13/03 08:30
Client Sample ID: NCL-33 Matrix: Water Date Received: 03/14/03 08:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Hexachloroethane	ND	ug/l	10.0	1.0	03/27/03 12:09	ALS	67-72-1		
Indeno(1,2,3-cd)pyrene	ND	ug/l	10.0	1.0	03/27/03 12:09	ALS	193-39-5		
Isophorone	ND	ug/l	10.0	1.0	03/27/03 12:09	ALS	78-59-1		
2-Methylnaphthalene	ND	ug/l	10.0	1.0	03/27/03 12:09	ALS	91-57-6		
2-Methylphenol (o-Cresol)	ND	ug/l	10.0	1.0	03/27/03 12:09	ALS	95-48-7		
3&4-Methylphenol	ND	ug/l	10.0	1.0	03/27/03 12:09	ALS			
Naphthalene	ND	ug/l	10.0	1.0	03/27/03 12:09	ALS	91-20-3		
2-Nitroaniline	ND	ug/l	10.0	1.0	03/27/03 12:09	ALS	88-74-4		
3-Nitroaniline	ND	ug/l	10.0	1.0	03/27/03 12:09	ALS	99-09-2		
4-Nitroaniline	ND	ug/l	10.0	1.0	03/27/03 12:09	ALS	100-01-6		
Nitrobenzene	ND	ug/l	10.0	1.0	03/27/03 12:09	ALS	98-95-3		
2-Nitrophenol	ND	ug/l	10.0	1.0	03/27/03 12:09	ALS	88-75-5		
4-Nitrophenol	ND	ug/l	10.0	1.0	03/27/03 12:09	ALS	100-02-7		
N-Nitrosodimethylamine	ND	ug/l	10.0	1.0	03/27/03 12:09	ALS	62-75-9		
N-Nitroso-di-n-propylamine	ND	ug/l	10.0	1.0	03/27/03 12:09	ALS	621-64-7		
N-Nitrosodiphenylamine	ND	ug/l	10.0	1.0	03/27/03 12:09	ALS	86-30-6		
Pentachlorophenol	ND	ug/l	10.0	1.0	03/27/03 12:09	ALS	87-86-5		
Phenanthrene	ND	ug/l	10.0	1.0	03/27/03 12:09	ALS	85-01-8		
Phenol	ND	ug/l	10.0	1.0	03/27/03 12:09	ALS	108-95-2		
Pyrene	ND	ug/l	10.0	1.0	03/27/03 12:09	ALS	129-00-0		
1,2,4-Trichlorobenzene	ND	ug/l	10.0	1.0	03/27/03 12:09	ALS	120-82-1		
2,4,5-Trichlorophenol	ND	ug/l	10.0	1.0	03/27/03 12:09	ALS	95-95-4		
2,4,6-Trichlorophenol	ND	ug/l	10.0	1.0	03/27/03 12:09	ALS	88-06-2		
Nitrobenzene-d5 (S)	74	%		1.0	03/27/03 12:09	ALS	4165-60-0		
2-Fluorobiphenyl (S)	68	%		1.0	03/27/03 12:09	ALS	321-60-8		
Terphenyl-d14 (S)	90	%		1.0	03/27/03 12:09	ALS	1718-51-0		
Phenol-d5 (S)	27	%		1.0	03/27/03 12:09	ALS	4165-62-2		
2-Fluorophenol (S)	41	%		1.0	03/27/03 12:09	ALS	367-12-4		
2,4,6-Tribromophenol (S)	63	%		1.0	03/27/03 12:09	ALS			
Date Extracted	03/17/03 10:00				03/17/03 10:00				

GC/MS Volatiles

SW8260 Volatiles, Water

Method: EPA 8260

Acetone	ND	ug/l	10.0	1.0	03/20/03 15:31	EAD	67-64-1		
Benzene	ND	ug/l	5.00	1.0	03/20/03 15:31	EAD	71-43-2		
Bromodichloromethane	ND	ug/l	5.00	1.0	03/20/03 15:31	EAD	75-27-4		
Bromoform	ND	ug/l	5.00	1.0	03/20/03 15:31	EAD	75-25-2		
Bromomethane	ND	ug/l	10.0	1.0	03/20/03 15:31	EAD	74-83-9		
2-Butanone (MEK)	ND	ug/l	10.0	1.0	03/20/03 15:31	EAD	78-93-3		

Date: 04/03/03

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 8532853
Client Project ID: NCL/TEL

Lab Sample No: 851795846 Project Sample Number: 8532853-009 Date Collected: 03/13/03 08:30
Client Sample ID: NCL-33 Matrix: Water Date Received: 03/14/03 08:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	ReqLmt
Carbon disulfide	ND	ug/l	5.00	1.0	03/20/03 15:31	EAD	75-15-0		
Carbon tetrachloride	ND	ug/l	5.00	1.0	03/20/03 15:31	EAD	56-23-5		
Chlorobenzene	ND	ug/l	5.00	1.0	03/20/03 15:31	EAD	108-90-7		
Chloroethane	ND	ug/l	10.0	1.0	03/20/03 15:31	EAD	75-00-3		
2-Chloroethylvinyl ether	ND	ug/l	10.0	1.0	03/20/03 15:31	EAD	110-75-8		
Chloroform	ND	ug/l	5.00	1.0	03/20/03 15:31	EAD	67-66-3		
Chloromethane	ND	ug/l	10.0	1.0	03/20/03 15:31	EAD	74-87-3		
Dibromochloromethane	ND	ug/l	5.00	1.0	03/20/03 15:31	EAD	124-48-1		
1,1-Dichloroethane	ND	ug/l	5.00	1.0	03/20/03 15:31	EAD	75-34-3		
1,2-Dichloroethane	ND	ug/l	5.00	1.0	03/20/03 15:31	EAD	107-06-2		
1,1-Dichloroethene	ND	ug/l	5.00	1.0	03/20/03 15:31	EAD	75-35-4		
cis-1,2-Dichloroethene	ND	ug/l	5.00	1.0	03/20/03 15:31	EAD	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	5.00	1.0	03/20/03 15:31	EAD	156-60-5		
1,2-Dichloropropane	ND	ug/l	5.00	1.0	03/20/03 15:31	EAD	78-87-5		
cis-1,3-Dichloropropene	ND	ug/l	5.00	1.0	03/20/03 15:31	EAD	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/l	5.00	1.0	03/20/03 15:31	EAD	10061-02-6		
Ethylbenzene	ND	ug/l	5.00	1.0	03/20/03 15:31	EAD	100-41-4		
2-Hexanone	ND	ug/l	10.0	1.0	03/20/03 15:31	EAD	591-78-6		
Methylene chloride	ND	ug/l	5.00	1.0	03/20/03 15:31	EAD	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/l	10.0	1.0	03/20/03 15:31	EAD	108-10-1		
Styrene	ND	ug/l	5.00	1.0	03/20/03 15:31	EAD	100-42-5		
1,1,2,2-Tetrachloroethane	ND	ug/l	5.00	1.0	03/20/03 15:31	EAD	79-34-5		
Tetrachloroethene	ND	ug/l	5.00	1.0	03/20/03 15:31	EAD	127-18-4		
Toluene	ND	ug/l	5.00	1.0	03/20/03 15:31	EAD	108-88-3		
1,1,1-Trichloroethane	ND	ug/l	5.00	1.0	03/20/03 15:31	EAD	71-55-6		
1,1,2-Trichloroethane	ND	ug/l	5.00	1.0	03/20/03 15:31	EAD	79-00-5		
Trichloroethene	ND	ug/l	5.00	1.0	03/20/03 15:31	EAD	79-01-6		
Vinyl acetate	ND	ug/l	5.00	1.0	03/20/03 15:31	EAD	108-05-4		
Vinyl chloride	ND	ug/l	10.0	1.0	03/20/03 15:31	EAD	75-01-4		
Xylene (Total)	ND	ug/l	5.00	1.0	03/20/03 15:31	EAD	1330-20-7		
m&p-Xylene	ND	ug/l	5.00	1.0	03/20/03 15:31	EAD			
o-Xylene	ND	ug/l	5.00	1.0	03/20/03 15:31	EAD	95-47-6		
Toluene-d8 (S)	94	%		1.0	03/20/03 15:31	EAD	2037-26-5		
4-Bromofluorobenzene (S)	102	%		1.0	03/20/03 15:31	EAD	460-00-4		
1,2-Dichloroethane-d4 (S)	85	%		1.0	03/20/03 15:31	EAD	17060-07-0		

Comments : ARS performed the Total Uranium analysis. Please refer to the enclosed report.

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 8532853
Client Project ID: NCL/TEL

Lab Sample No: 851795847 Project Sample Number: 8532853-010 Date Collected: 03/13/03 10:20
Client Sample ID: TEL-3 Matrix: Water Date Received: 03/14/03 08:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
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Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Metals									
SW6010 Metals, Trace Water	Prep/Method: / EPA 6010								
Aluminum	604.	ug/l	200.	1.0	03/27/03 01:20	AJT1	7429-90-5		
Arsenic	ND	ug/l	10.0	1.0	03/27/03 01:20	AJT1	7440-38-2		
Barium	ND	ug/l	200.	1.0	03/27/03 01:20	AJT1	7440-39-3		
Beryllium	ND	ug/l	5.00	1.0	03/27/03 01:20	AJT1	7440-41-7		
Boron	844.	ug/l	100.	1.0	03/27/03 01:20	AJT1	7440-42-8		
Cadmium	ND	ug/l	5.00	1.0	03/27/03 01:20	AJT1	7440-43-9		
Chromium	ND	ug/l	10.0	1.0	03/27/03 01:20	AJT1	7440-47-3		
Cobalt	ND	ug/l	50.0	1.0	03/27/03 01:20	AJT1	7440-48-4		
Copper	40.3	ug/l	25.0	1.0	03/27/03 01:20	AJT1	7440-50-8		
Iron	ND	ug/l	100.	1.0	03/27/03 01:20	AJT1	7439-89-6		
Lead	ND	ug/l	3.00	1.0	03/27/03 01:20	AJT1	7439-92-1		
Manganese	ND	ug/l	15.0	1.0	03/27/03 01:20	AJT1	7439-96-5		
Molybdenum	ND	ug/l	10.0	1.0	03/27/03 01:20	AJT1	7439-98-7		
Nickel	ND	ug/l	40.0	1.0	03/27/03 01:20	AJT1	7440-02-0		
Selenium	22.3	ug/l	5.00	1.0	03/27/03 01:20	AJT1	7782-49-2		
Silver	ND	ug/l	10.0	1.0	03/27/03 01:20	AJT1	7440-22-4		
Vanadium	ND	ug/l	50.0	1.0	03/27/03 01:20	AJT1	7440-62-2		
Zinc	ND	ug/l	20.0	1.0	03/27/03 01:20	AJT1	7440-66-6		

Mercury, Water, SW 7470	Method: EPA 7470								
Mercury	ND	ug/l	0.200	1.0	03/25/03 13:23	SSPI	7439-97-6		200

Wet Chemistry									
Sulfide, Total	Method: EPA 376.1								
Sulfide	ND	mg/l	4.00	4.0	03/20/03 08:04	HFEB			

Phenolics, Total Recoverable	Method: EPA 420.2								
Phenolics, Total Recoverable	0.0280	mg/l	0.0100	1.0	03/28/03	HFEB			

GC/MS Semivolatiles									
SW8270 Semivolatiles, Water	Prep/Method: EPA 3510 / EPA 8270								
Acenaphthene	ND	ug/l	10.0	1.0	03/27/03 12:45	ALS	83-32-9		
Acenaphthylene	ND	ug/l	10.0	1.0	03/27/03 12:45	ALS	208-96-8		
Aniline	ND	ug/l	10.0	1.0	03/27/03 12:45	ALS	62-53-3		
Anthracene	ND	ug/l	10.0	1.0	03/27/03 12:45	ALS	120-12-7		
Benzidine	ND	ug/l	10.0	1.0	03/27/03 12:45	ALS	92-87-5		
Benzo(a)anthracene	ND	ug/l	10.0	1.0	03/27/03 12:45	ALS	56-55-3		

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
 900 Gemini Avenue
 Houston, TX 77058
 Phone: 281.488.1810
 Fax: 281.488.4661

Lab Project Number: 8532853
 Client Project ID: NCL/TEL

Lab Sample No: 851795847 Project Sample Number: 8532853-010 Date Collected: 03/13/03 10:20
 Client Sample ID: TEL-3 Matrix: Water Date Received: 03/14/03 08:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Benzo(a)pyrene	ND	ug/l	10.0	1.0	03/27/03 12:45	ALS	50-32-8		
Benzo(b)fluoranthene	ND	ug/l	10.0	1.0	03/27/03 12:45	ALS	205-99-2		
Benzo(g,h,i)perylene	ND	ug/l	10.0	1.0	03/27/03 12:45	ALS	191-24-2		
Benzo(k)fluoranthene	ND	ug/l	10.0	1.0	03/27/03 12:45	ALS	207-08-9		
Benzoic acid	ND	ug/l	25.0	1.0	03/27/03 12:45	ALS	65-85-0		
Benzyl alcohol	ND	ug/l	10.0	1.0	03/27/03 12:45	ALS	100-51-6		
4-Bromophenylphenyl ether	ND	ug/l	10.0	1.0	03/27/03 12:45	ALS	101-55-3		
Butylbenzylphthalate	ND	ug/l	10.0	1.0	03/27/03 12:45	ALS	85-68-7		
4-Chloro-3-methylphenol	ND	ug/l	10.0	1.0	03/27/03 12:45	ALS	59-50-7		
4-Chloroaniline	ND	ug/l	10.0	1.0	03/27/03 12:45	ALS	106-47-8		
bis(2-Chloroethoxy)methane	ND	ug/l	10.0	1.0	03/27/03 12:45	ALS	111-91-1		
bis(2-Chloroethyl) ether	ND	ug/l	10.0	1.0	03/27/03 12:45	ALS	111-44-4		
2-Chloronaphthalene	ND	ug/l	10.0	1.0	03/27/03 12:45	ALS	91-58-7		
2-Chlorophenol	ND	ug/l	10.0	1.0	03/27/03 12:45	ALS	95-57-8		
4-Chlorophenylphenyl ether	ND	ug/l	10.0	1.0	03/27/03 12:45	ALS	7005-72-3		
Chrysene	ND	ug/l	10.0	1.0	03/27/03 12:45	ALS	218-01-9		
Dibenz(a,h)anthracene	ND	ug/l	10.0	1.0	03/27/03 12:45	ALS	53-70-3		
Dibenzofuran	ND	ug/l	10.0	1.0	03/27/03 12:45	ALS	132-64-9		
1,2-Dichlorobenzene	ND	ug/l	10.0	1.0	03/27/03 12:45	ALS	95-50-1		
1,3-Dichlorobenzene	ND	ug/l	10.0	1.0	03/27/03 12:45	ALS	541-73-1		
1,4-Dichlorobenzene	ND	ug/l	10.0	1.0	03/27/03 12:45	ALS	106-46-7		
3,3'-Dichlorobenzidine	ND	ug/l	10.0	1.0	03/27/03 12:45	ALS	91-94-1		
2,4-Dichlorophenol	ND	ug/l	10.0	1.0	03/27/03 12:45	ALS	120-83-2		
Diethylphthalate	ND	ug/l	10.0	1.0	03/27/03 12:45	ALS	84-66-2		
2,4-Dimethylphenol	ND	ug/l	10.0	1.0	03/27/03 12:45	ALS	105-67-9		
Dimethylphthalate	ND	ug/l	10.0	1.0	03/27/03 12:45	ALS	131-11-3		
Di-n-butylphthalate	ND	ug/l	10.0	1.0	03/27/03 12:45	ALS	84-74-2		
4,6-Dinitro-2-methylphenol	ND	ug/l	10.0	1.0	03/27/03 12:45	ALS	534-52-1		
2,4-Dinitrophenol	ND	ug/l	10.0	1.0	03/27/03 12:45	ALS	51-28-5		
2,4-Dinitrotoluene	ND	ug/l	10.0	1.0	03/27/03 12:45	ALS	121-14-2		
2,6-Dinitrotoluene	ND	ug/l	10.0	1.0	03/27/03 12:45	ALS	606-20-2		
Di-n-octylphthalate	ND	ug/l	10.0	1.0	03/27/03 12:45	ALS	117-84-0		
bis(2-Ethylhexyl)phthalate	25.2	ug/l	10.0	1.0	03/27/03 12:45	ALS	117-81-7		
Fluoranthene	ND	ug/l	10.0	1.0	03/27/03 12:45	ALS	206-44-0		
Fluorene	ND	ug/l	10.0	1.0	03/27/03 12:45	ALS	86-73-7		
Hexachloro-1,3-butadiene	ND	ug/l	10.0	1.0	03/27/03 12:45	ALS	87-68-3		
Hexachlorobenzene	ND	ug/l	10.0	1.0	03/27/03 12:45	ALS	118-74-1		
Hexachlorocyclopentadiene	ND	ug/l	10.0	1.0	03/27/03 12:45	ALS	77-47-4		
Hexachloroethane	ND	ug/l	10.0	1.0	03/27/03 12:45	ALS	67-72-1		

Date: 04/03/03

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Pace Analytical Services, Inc.
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 Phone: 281.488.1810
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Lab Project Number: 8532853
 Client Project ID: NCL/TEL

Lab Sample No: 851795847 Project Sample Number: 8532853-010 Date Collected: 03/13/03 10:20
 Client Sample ID: TEL-3 Matrix: Water Date Received: 03/14/03 08:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	ReqLmt
Indeno(1,2,3-cd)pyrene	ND	ug/l	10.0	1.0	03/27/03 12:45	ALS	193-39-5		
Isophorone	ND	ug/l	10.0	1.0	03/27/03 12:45	ALS	78-59-1		
2-Methylnaphthalene	ND	ug/l	10.0	1.0	03/27/03 12:45	ALS	91-57-6		
2-Methylphenol (o-Cresol)	ND	ug/l	10.0	1.0	03/27/03 12:45	ALS	95-48-7		
3&4-Methylphenol	ND	ug/l	10.0	1.0	03/27/03 12:45	ALS			
Naphthalene	ND	ug/l	10.0	1.0	03/27/03 12:45	ALS	91-20-3		
2-Nitroaniline	ND	ug/l	10.0	1.0	03/27/03 12:45	ALS	88-74-4		
3-Nitroaniline	ND	ug/l	10.0	1.0	03/27/03 12:45	ALS	99-09-2		
4-Nitroaniline	ND	ug/l	10.0	1.0	03/27/03 12:45	ALS	100-01-6		
Nitrobenzene	ND	ug/l	10.0	1.0	03/27/03 12:45	ALS	98-95-3		
2-Nitrophenol	ND	ug/l	10.0	1.0	03/27/03 12:45	ALS	88-75-5		
4-Nitrophenol	ND	ug/l	10.0	1.0	03/27/03 12:45	ALS	100-02-7		
N-Nitrosodimethylamine	ND	ug/l	10.0	1.0	03/27/03 12:45	ALS	62-75-9		
N-Nitroso-di-n-propylamine	ND	ug/l	10.0	1.0	03/27/03 12:45	ALS	621-64-7		
N-Nitrosodiphenylamine	ND	ug/l	10.0	1.0	03/27/03 12:45	ALS	86-30-6		
Pentachlorophenol	ND	ug/l	10.0	1.0	03/27/03 12:45	ALS	87-86-5		
Phenanthrene	ND	ug/l	10.0	1.0	03/27/03 12:45	ALS	85-01-8		
Phenol	ND	ug/l	10.0	1.0	03/27/03 12:45	ALS	108-95-2		
Pyrene	ND	ug/l	10.0	1.0	03/27/03 12:45	ALS	129-00-0		
1,2,4-Trichlorobenzene	ND	ug/l	10.0	1.0	03/27/03 12:45	ALS	120-82-1		
2,4,5-Trichlorophenol	ND	ug/l	10.0	1.0	03/27/03 12:45	ALS	95-95-4		
2,4,6-Trichlorophenol	ND	ug/l	10.0	1.0	03/27/03 12:45	ALS	88-06-2		
Nitrobenzene-d5 (S)	72	%		1.0	03/27/03 12:45	ALS	4165-60-0		
2-Fluorobiphenyl (S)	63	%		1.0	03/27/03 12:45	ALS	321-60-8		
Terphenyl-d14 (S)	96	%		1.0	03/27/03 12:45	ALS	1718-51-0		
Phenol-d5 (S)	27	%		1.0	03/27/03 12:45	ALS	4165-62-2		
2-Fluorophenol (S)	38	%		1.0	03/27/03 12:45	ALS	367-12-4		
2,4,6-Tribromophenol (S)	67	%		1.0	03/27/03 12:45	ALS			
Date Extracted	03/17/03 10:00				03/17/03 10:00				

GC/MS Volatiles

SW8260 Volatiles, Water

Method: EPA 8260

Acetone	ND	ug/l	10.0	1.0	03/20/03 15:58	EAD	67-64-1		
Benzene	143	ug/l	5.00	1.0	03/20/03 15:58	EAD	71-43-2		
Bromodichloromethane	ND	ug/l	5.00	1.0	03/20/03 15:58	EAD	75-27-4		
Bromoform	ND	ug/l	5.00	1.0	03/20/03 15:58	EAD	75-25-2		
Bromomethane	ND	ug/l	10.0	1.0	03/20/03 15:58	EAD	74-83-9		
2-Butanone (MEK)	ND	ug/l	10.0	1.0	03/20/03 15:58	EAD	78-93-3		
Carbon disulfide	ND	ug/l	5.00	1.0	03/20/03 15:58	EAD	75-15-0		1

Date: 04/03/03

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REPORT OF LABORATORY ANALYSIS

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 Phone: 281.488.1810
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Lab Project Number: 8532853
 Client Project ID: NCL/TEL

Lab Sample No: 851795847 Project Sample Number: 8532853-010 Date Collected: 03/13/03 10:20
 Client Sample ID: TEL-3 Matrix: Water Date Received: 03/14/03 08:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Carbon tetrachloride	ND	ug/l	5.00	1.0	03/20/03 15:58	EAD	56-23-5		
Chlorobenzene	ND	ug/l	5.00	1.0	03/20/03 15:58	EAD	108-90-7		
Chloroethane	ND	ug/l	10.0	1.0	03/20/03 15:58	EAD	75-00-3		
2-Chloroethylvinyl ether	ND	ug/l	10.0	1.0	03/20/03 15:58	EAD	110-75-8		
Chloroform	ND	ug/l	5.00	1.0	03/20/03 15:58	EAD	67-66-3		
Chloromethane	ND	ug/l	10.0	1.0	03/20/03 15:58	EAD	74-87-3		
Dibromochloromethane	ND	ug/l	5.00	1.0	03/20/03 15:58	EAD	124-48-1		
1,1-Dichloroethane	ND	ug/l	5.00	1.0	03/20/03 15:58	EAD	75-34-3		
1,2-Dichloroethane	ND	ug/l	5.00	1.0	03/20/03 15:58	EAD	107-06-2		
1,1-Dichloroethene	ND	ug/l	5.00	1.0	03/20/03 15:58	EAD	75-35-4		
cis-1,2-Dichloroethene	ND	ug/l	5.00	1.0	03/20/03 15:58	EAD	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	5.00	1.0	03/20/03 15:58	EAD	156-60-5		
1,2-Dichloropropane	ND	ug/l	5.00	1.0	03/20/03 15:58	EAD	78-87-5		
cis-1,3-Dichloropropene	ND	ug/l	5.00	1.0	03/20/03 15:58	EAD	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/l	5.00	1.0	03/20/03 15:58	EAD	10061-02-6		
Ethylbenzene	17.7	ug/l	5.00	1.0	03/20/03 15:58	EAD	100-41-4		
2-Hexanone	ND	ug/l	10.0	1.0	03/20/03 15:58	EAD	591-78-6		
Methylene chloride	ND	ug/l	5.00	1.0	03/20/03 15:58	EAD	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/l	10.0	1.0	03/20/03 15:58	EAD	108-10-1		
Styrene	ND	ug/l	5.00	1.0	03/20/03 15:58	EAD	100-42-5		
1,1,2,2-Tetrachloroethane	ND	ug/l	5.00	1.0	03/20/03 15:58	EAD	79-34-5		
Tetrachloroethene	ND	ug/l	5.00	1.0	03/20/03 15:58	EAD	127-18-4		
Toluene	6.62	ug/l	5.00	1.0	03/20/03 15:58	EAD	108-88-3		
1,1,1-Trichloroethane	ND	ug/l	5.00	1.0	03/20/03 15:58	EAD	71-55-6		
1,1,2-Trichloroethane	ND	ug/l	5.00	1.0	03/20/03 15:58	EAD	79-00-5		
Trichloroethene	ND	ug/l	5.00	1.0	03/20/03 15:58	EAD	79-01-6		
Vinyl acetate	ND	ug/l	5.00	1.0	03/20/03 15:58	EAD	108-05-4		
Vinyl chloride	ND	ug/l	10.0	1.0	03/20/03 15:58	EAD	75-01-4		
Xylene (Total)	106.	ug/l	5.00	1.0	03/20/03 15:58	EAD	1330-20-7		
m&p-Xylene	95.0	ug/l	5.00	1.0	03/20/03 15:58	EAD			
o-Xylene	10.8	ug/l	5.00	1.0	03/20/03 15:58	EAD	95-47-6		
Toluene-d8 (S)	102	%		1.0	03/20/03 15:58	EAD	2037-26-5		
4-Bromofluorobenzene (S)	108	%		1.0	03/20/03 15:58	EAD	460-00-4		
1,2-Dichloroethane-d4 (S)	86	%		1.0	03/20/03 15:58	EAD	17060-07-0		

Comments : ARS performed the Total Uranium analysis. Please refer to the enclosed report.

Date: 04/03/03

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 8532853
Client Project ID: NCL/TEL

Lab Sample No: 851795848 Project Sample Number: 8532853-011 Date Collected: 03/13/03 13:30
Client Sample ID: TEL-2 Matrix: Water Date Received: 03/14/03 08:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	ReqLmt
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Metals

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	ReqLmt
SW6010 Metals, Trace Water Prep/Method: / EPA 6010									
Aluminum	302.	ug/l	200.	1.0	03/27/03 01:28	AJT1	7429-90-5		
Arsenic	18.0	ug/l	10.0	1.0	03/27/03 01:28	AJT1	7440-38-2		
Barium	ND	ug/l	200.	1.0	03/27/03 01:28	AJT1	7440-39-3		
Beryllium	ND	ug/l	5.00	1.0	03/27/03 01:28	AJT1	7440-41-7		
Boron	698.	ug/l	100.	1.0	03/27/03 01:28	AJT1	7440-42-8		
Cadmium	ND	ug/l	5.00	1.0	03/27/03 01:28	AJT1	7440-43-9		
Chromium	ND	ug/l	10.0	1.0	03/27/03 01:28	AJT1	7440-47-3		
Cobalt	ND	ug/l	50.0	1.0	03/27/03 01:28	AJT1	7440-48-4		
Copper	ND	ug/l	25.0	1.0	03/27/03 01:28	AJT1	7440-50-8		
Iron	ND	ug/l	100.	1.0	03/27/03 01:28	AJT1	7439-89-6		
Lead	ND	ug/l	3.00	1.0	03/27/03 01:28	AJT1	7439-92-1		
Manganese	21.6	ug/l	15.0	1.0	03/27/03 01:28	AJT1	7439-96-5		
Molybdenum	ND	ug/l	10.0	1.0	03/27/03 01:28	AJT1	7439-98-7		
Nickel	ND	ug/l	40.0	1.0	03/27/03 01:28	AJT1	7440-02-0		
Selenium	8.71	ug/l	5.00	1.0	03/27/03 01:28	AJT1	7782-49-2		
Silver	ND	ug/l	10.0	1.0	03/27/03 01:28	AJT1	7440-22-4		
Vanadium	ND	ug/l	50.0	1.0	03/27/03 01:28	AJT1	7440-62-2		
Zinc	ND	ug/l	20.0	1.0	03/27/03 01:28	AJT1	7440-66-6		

Mercury, Water, SW 7470 Method: EPA 7470									
Mercury	ND	ug/l	0.200	1.0	03/25/03 13:23	SSPI	7439-97-6		200

Wet Chemistry

Sulfide, Total Method: EPA 376.1									
Sulfide	ND	mg/l	4.00	4.0	03/20/03 08:04	HFEb			

Phenolics, Total Recoverable Method: EPA 420.2									
Phenolics, Total Recoverable	0.0870	mg/l	0.0100	1.0	03/28/03	HFEb			

GC/MS Semivolatiles

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	ReqLmt
SW8270 Semivolatiles, Water Prep/Method: EPA 3510 / EPA 8270									
Acenaphthene	ND	ug/l	10.0	1.0	03/27/03 13:22	ALS	83-32-9		
Acenaphthylene	ND	ug/l	10.0	1.0	03/27/03 13:22	ALS	208-96-8		
Aniline	ND	ug/l	10.0	1.0	03/27/03 13:22	ALS	62-53-3		
Anthracene	ND	ug/l	10.0	1.0	03/27/03 13:22	ALS	120-12-7		
Benzidine	ND	ug/l	10.0	1.0	03/27/03 13:22	ALS	92-87-5		
Benzo(a)anthracene	ND	ug/l	10.0	1.0	03/27/03 13:22	ALS	56-55-3		

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Lab Project Number: 8532853
Client Project ID: NCL/TEL

Lab Sample No: 851795848 Project Sample Number: 8532853-011 Date Collected: 03/13/03 13:30
Client Sample ID: TEL-2 Matrix: Water Date Received: 03/14/03 08:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	ReqLmt
Benzo(a)pyrene	ND	ug/l	10.0	1.0	03/27/03 13:22	ALS	50-32-8		
Benzo(b)fluoranthene	ND	ug/l	10.0	1.0	03/27/03 13:22	ALS	205-99-2		
Benzo(g,h,i)perylene	ND	ug/l	10.0	1.0	03/27/03 13:22	ALS	191-24-2		
Benzo(k)fluoranthene	ND	ug/l	10.0	1.0	03/27/03 13:22	ALS	207-08-9		
Benzoic acid	ND	ug/l	25.0	1.0	03/27/03 13:22	ALS	65-85-0		
Benzyl alcohol	ND	ug/l	10.0	1.0	03/27/03 13:22	ALS	100-51-6		
4-Bromophenylphenyl ether	ND	ug/l	10.0	1.0	03/27/03 13:22	ALS	101-55-3		
Butylbenzylphthalate	ND	ug/l	10.0	1.0	03/27/03 13:22	ALS	85-68-7		
4-Chloro-3-methylphenol	ND	ug/l	10.0	1.0	03/27/03 13:22	ALS	59-50-7		
4-Chloroaniline	ND	ug/l	10.0	1.0	03/27/03 13:22	ALS	106-47-8		
bis(2-Chloroethoxy)methane	ND	ug/l	10.0	1.0	03/27/03 13:22	ALS	111-91-1		
bis(2-Chloroethyl) ether	ND	ug/l	10.0	1.0	03/27/03 13:22	ALS	111-44-4		
2-Chloronaphthalene	ND	ug/l	10.0	1.0	03/27/03 13:22	ALS	91-58-7		
2-Chlorophenol	ND	ug/l	10.0	1.0	03/27/03 13:22	ALS	95-57-8		
4-Chlorophenylphenyl ether	ND	ug/l	10.0	1.0	03/27/03 13:22	ALS	7005-72-3		
Chrysene	ND	ug/l	10.0	1.0	03/27/03 13:22	ALS	218-01-9		
Dibenz(a,h)anthracene	ND	ug/l	10.0	1.0	03/27/03 13:22	ALS	53-70-3		
Dibenzofuran	ND	ug/l	10.0	1.0	03/27/03 13:22	ALS	132-64-9		
1,2-Dichlorobenzene	ND	ug/l	10.0	1.0	03/27/03 13:22	ALS	95-50-1		
1,3-Dichlorobenzene	ND	ug/l	10.0	1.0	03/27/03 13:22	ALS	541-73-1		
1,4-Dichlorobenzene	ND	ug/l	10.0	1.0	03/27/03 13:22	ALS	106-46-7		
3,3'-Dichlorobenzidine	ND	ug/l	10.0	1.0	03/27/03 13:22	ALS	91-94-1		
2,4-Dichlorophenol	ND	ug/l	10.0	1.0	03/27/03 13:22	ALS	120-83-2		
Diethylphthalate	ND	ug/l	10.0	1.0	03/27/03 13:22	ALS	84-66-2		
2,4-Dimethylphenol	ND	ug/l	10.0	1.0	03/27/03 13:22	ALS	105-67-9		
Dimethylphthalate	ND	ug/l	10.0	1.0	03/27/03 13:22	ALS	131-11-3		
Di-n-butylphthalate	ND	ug/l	10.0	1.0	03/27/03 13:22	ALS	84-74-2		
4,6-Dinitro-2-methylphenol	ND	ug/l	10.0	1.0	03/27/03 13:22	ALS	534-52-1		
2,4-Dinitrophenol	ND	ug/l	10.0	1.0	03/27/03 13:22	ALS	51-28-5		
2,4-Dinitrotoluene	ND	ug/l	10.0	1.0	03/27/03 13:22	ALS	121-14-2		
2,6-Dinitrotoluene	ND	ug/l	10.0	1.0	03/27/03 13:22	ALS	606-20-2		
Di-n-octylphthalate	ND	ug/l	10.0	1.0	03/27/03 13:22	ALS	117-84-0		
bis(2-Ethylhexyl)phthalate	19.4	ug/l	10.0	1.0	03/27/03 13:22	ALS	117-81-7		
Fluoranthene	ND	ug/l	10.0	1.0	03/27/03 13:22	ALS	206-44-0		
Fluorene	ND	ug/l	10.0	1.0	03/27/03 13:22	ALS	86-73-7		
Hexachloro-1,3-butadiene	ND	ug/l	10.0	1.0	03/27/03 13:22	ALS	87-68-3		
Hexachlorobenzene	ND	ug/l	10.0	1.0	03/27/03 13:22	ALS	118-74-1		
Hexachlorocyclopentadiene	ND	ug/l	10.0	1.0	03/27/03 13:22	ALS	77-47-4		
Hexachloroethane	ND	ug/l	10.0	1.0	03/27/03 13:22	ALS	67-72-1		

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
 900 Gemini Avenue
 Houston, TX 77058
 Phone: 281.488.1810
 Fax: 281.488.4661

Lab Project Number: 8532853
 Client Project ID: NCL/TEL

Lab Sample No: 851795848 Project Sample Number: 8532853-011 Date Collected: 03/13/03 13:30
 Client Sample ID: TEL-2 Matrix: Water Date Received: 03/14/03 08:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Indeno(1,2,3-cd)pyrene	ND	ug/l	10.0	1.0	03/27/03 13:22	ALS	193-39-5		
Isophorone	ND	ug/l	10.0	1.0	03/27/03 13:22	ALS	78-59-1		
2-Methylnaphthalene	ND	ug/l	10.0	1.0	03/27/03 13:22	ALS	91-57-6		
2-Methylphenol (o-Cresol)	ND	ug/l	10.0	1.0	03/27/03 13:22	ALS	95-48-7		
3&4-Methylphenol	ND	ug/l	10.0	1.0	03/27/03 13:22	ALS			
Naphthalene	12.9	ug/l	10.0	1.0	03/27/03 13:22	ALS	91-20-3		
2-Nitroaniline	ND	ug/l	10.0	1.0	03/27/03 13:22	ALS	88-74-4		
3-Nitroaniline	ND	ug/l	10.0	1.0	03/27/03 13:22	ALS	99-09-2		
4-Nitroaniline	ND	ug/l	10.0	1.0	03/27/03 13:22	ALS	100-01-6		
Nitrobenzene	ND	ug/l	10.0	1.0	03/27/03 13:22	ALS	98-95-3		
2-Nitrophenol	ND	ug/l	10.0	1.0	03/27/03 13:22	ALS	88-75-5		
4-Nitrophenol	ND	ug/l	10.0	1.0	03/27/03 13:22	ALS	100-02-7		
N-Nitrosodimethylamine	ND	ug/l	10.0	1.0	03/27/03 13:22	ALS	62-75-9		
N-Nitroso-di-n-propylamine	ND	ug/l	10.0	1.0	03/27/03 13:22	ALS	621-64-7		
N-Nitrosodiphenylamine	ND	ug/l	10.0	1.0	03/27/03 13:22	ALS	86-30-6		
Pentachlorophenol	ND	ug/l	10.0	1.0	03/27/03 13:22	ALS	87-86-5		
Phenanthrene	ND	ug/l	10.0	1.0	03/27/03 13:22	ALS	85-01-8		
Phenol	ND	ug/l	10.0	1.0	03/27/03 13:22	ALS	108-95-2		
Pyrene	ND	ug/l	10.0	1.0	03/27/03 13:22	ALS	129-00-0		
1,2,4-Trichlorobenzene	ND	ug/l	10.0	1.0	03/27/03 13:22	ALS	120-82-1		
2,4,5-Trichlorophenol	ND	ug/l	10.0	1.0	03/27/03 13:22	ALS	95-95-4		
2,4,6-Trichlorophenol	ND	ug/l	10.0	1.0	03/27/03 13:22	ALS	88-06-2		
Nitrobenzene-d5 (S)	73	%		1.0	03/27/03 13:22	ALS	4165-60-0		
2-Fluorobiphenyl (S)	68	%		1.0	03/27/03 13:22	ALS	321-60-8		
Terphenyl-d14 (S)	111	%		1.0	03/27/03 13:22	ALS	1718-51-0		
Phenol-d5 (S)	29	%		1.0	03/27/03 13:22	ALS	4165-62-2		
2-Fluorophenol (S)	40	%		1.0	03/27/03 13:22	ALS	367-12-4		
2,4,6-Tribromophenol (S)	79	%		1.0	03/27/03 13:22	ALS			
Date Extracted	03/17/03 10:00				03/17/03 10:00				

GC/MS Volatiles

SW8260 Volatiles, Water

Method: EPA 8260

Acetone	ND	ug/l	10.0	1.0	03/20/03 16:25	EAD	67-64-1		
Benzene	1420	ug/l	50.0	10.0	03/20/03 16:25	EAD	71-43-2		
Bromodichloromethane	ND	ug/l	5.00	1.0	03/20/03 16:25	EAD	75-27-4		
Bromoform	ND	ug/l	5.00	1.0	03/20/03 16:25	EAD	75-25-2		
Bromomethane	ND	ug/l	10.0	1.0	03/20/03 16:25	EAD	74-83-9		
2-Butanone (MEK)	ND	ug/l	10.0	1.0	03/20/03 16:25	EAD	78-93-3		
Carbon disulfide	ND	ug/l	5.00	1.0	03/20/03 16:25	EAD	75-15-0		

Date: 04/03/03

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 8532853
Client Project ID: NCL/TEL

Lab Sample No: 851795848 Project Sample Number: 8532853-011 Date Collected: 03/13/03 13:30
Client Sample ID: TEL-2 Matrix: Water Date Received: 03/14/03 08:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	ReqLmt
Carbon tetrachloride	ND	ug/l	5.00	1.0	03/20/03 16:25	EAD	56-23-5		
Chlorobenzene	ND	ug/l	5.00	1.0	03/20/03 16:25	EAD	108-90-7		
Chloroethane	ND	ug/l	10.0	1.0	03/20/03 16:25	EAD	75-00-3		
2-Chloroethylvinyl ether	ND	ug/l	10.0	1.0	03/20/03 16:25	EAD	110-75-8		
Chloroform	ND	ug/l	5.00	1.0	03/20/03 16:25	EAD	67-66-3		
Chloromethane	ND	ug/l	10.0	1.0	03/20/03 16:25	EAD	74-87-3		
Dibromochloromethane	ND	ug/l	5.00	1.0	03/20/03 16:25	EAD	124-48-1		
1,1-Dichloroethane	ND	ug/l	5.00	1.0	03/20/03 16:25	EAD	75-34-3		
1,2-Dichloroethane	ND	ug/l	5.00	1.0	03/20/03 16:25	EAD	107-06-2		
1,1-Dichloroethene	ND	ug/l	5.00	1.0	03/20/03 16:25	EAD	75-35-4		
cis-1,2-Dichloroethene	ND	ug/l	5.00	1.0	03/20/03 16:25	EAD	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	5.00	1.0	03/20/03 16:25	EAD	156-60-5		
1,2-Dichloropropane	ND	ug/l	5.00	1.0	03/20/03 16:25	EAD	78-87-5		
cis-1,3-Dichloropropene	ND	ug/l	5.00	1.0	03/20/03 16:25	EAD	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/l	5.00	1.0	03/20/03 16:25	EAD	10061-02-6		
Ethylbenzene	40.8	ug/l	5.00	1.0	03/20/03 16:25	EAD	100-41-4		
2-Hexanone	ND	ug/l	10.0	1.0	03/20/03 16:25	EAD	591-78-6		
Methylene chloride	ND	ug/l	5.00	1.0	03/20/03 16:25	EAD	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/l	10.0	1.0	03/20/03 16:25	EAD	108-10-1		
Styrene	ND	ug/l	5.00	1.0	03/20/03 16:25	EAD	100-42-5		
1,1,2,2-Tetrachloroethane	ND	ug/l	5.00	1.0	03/20/03 16:25	EAD	79-34-5		
Tetrachloroethene	ND	ug/l	5.00	1.0	03/20/03 16:25	EAD	127-18-4		
Toluene	92.2	ug/l	5.00	1.0	03/20/03 16:25	EAD	108-88-3		
1,1,1-Trichloroethane	ND	ug/l	5.00	1.0	03/20/03 16:25	EAD	71-55-6		
1,1,2-Trichloroethane	ND	ug/l	5.00	1.0	03/20/03 16:25	EAD	79-00-5		
Trichloroethene	ND	ug/l	5.00	1.0	03/20/03 16:25	EAD	79-01-6		
Vinyl acetate	ND	ug/l	5.00	1.0	03/20/03 16:25	EAD	108-05-4		
Vinyl chloride	ND	ug/l	10.0	1.0	03/20/03 16:25	EAD	75-01-4		
Xylene (Total)	261.	ug/l	5.00	1.0	03/20/03 16:25	EAD	1330-20-7		
m&p-Xylene	240.	ug/l	5.00	1.0	03/20/03 16:25	EAD			
o-Xylene	21.2	ug/l	5.00	1.0	03/20/03 16:25	EAD	95-47-6		
Toluene-d8 (S)	96	%		1.0	03/20/03 16:25	EAD	2037-26-5		
4-Bromofluorobenzene (S)	106	%		1.0	03/20/03 16:25	EAD	460-00-4		
1,2-Dichloroethane-d4 (S)	83	%		1.0	03/20/03 16:25	EAD	17060-07-0		

Comments : ARS performed the Total Uranium analysis. Please refer to the enclosed report.

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 8532853
Client Project ID: NCL/TEL

Lab Sample No: 851795849 Project Sample Number: 8532853-012 Date Collected: 03/13/03 14:00
Client Sample ID: TEL-1 Matrix: Water Date Received: 03/14/03 08:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
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Metals

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
SW6010 Metals, Trace Water	Prep/Method: / EPA 6010								
Aluminum	315.	ug/l	200.	1.0	03/27/03 01:34	AJT1	7429-90-5		
Arsenic	ND	ug/l	10.0	1.0	03/27/03 01:34	AJT1	7440-38-2		
Barium	ND	ug/l	200.	1.0	03/27/03 01:34	AJT1	7440-39-3		
Beryllium	ND	ug/l	5.00	1.0	03/27/03 01:34	AJT1	7440-41-7		
Boron	629.	ug/l	100.	1.0	03/27/03 01:34	AJT1	7440-42-8		
Cadmium	ND	ug/l	5.00	1.0	03/27/03 01:34	AJT1	7440-43-9		
Chromium	ND	ug/l	10.0	1.0	03/27/03 01:34	AJT1	7440-47-3		
Cobalt	ND	ug/l	50.0	1.0	03/27/03 01:34	AJT1	7440-48-4		
Copper	ND	ug/l	25.0	1.0	03/27/03 01:34	AJT1	7440-50-8		
Iron	ND	ug/l	100.	1.0	03/27/03 01:34	AJT1	7439-89-6		
Lead	ND	ug/l	3.00	1.0	03/27/03 01:34	AJT1	7439-92-1		
Manganese	57.3	ug/l	15.0	1.0	03/27/03 01:34	AJT1	7439-96-5		
Molybdenum	ND	ug/l	10.0	1.0	03/27/03 01:34	AJT1	7439-98-7		
Nickel	ND	ug/l	40.0	1.0	03/27/03 01:34	AJT1	7440-02-0		
Selenium	ND	ug/l	5.00	1.0	03/27/03 01:34	AJT1	7782-49-2		
Silver	ND	ug/l	10.0	1.0	03/27/03 01:34	AJT1	7440-22-4		
Vanadium	ND	ug/l	50.0	1.0	03/27/03 01:34	AJT1	7440-62-2		
Zinc	ND	ug/l	20.0	1.0	03/27/03 01:34	AJT1	7440-66-6		

Mercury, Water, SW 7470	Method: EPA 7470								
Mercury	ND	ug/l	0.200	1.0	03/25/03 13:23	SSPI	7439-97-6		200

Wet Chemistry

Sulfide, Total	Method: EPA 376.1								
Sulfide	ND	mg/l	4.00	4.0	03/20/03 08:04	HFEB			

Phenolics, Total Recoverable	Method: EPA 420.2								
Phenolics, Total Recoverable	0.0400	mg/l	0.0100	1.0	03/28/03	HFEB			

GC/MS Semivolatiles

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
SW8270 Semivolatiles, Water	Prep/Method: EPA 3510 / EPA 8270								
Acenaphthene	ND	ug/l	10.0	1.0	03/27/03 14:35	ALS	83-32-9		
Acenaphthylene	ND	ug/l	10.0	1.0	03/27/03 14:35	ALS	208-96-8		
Aniline	ND	ug/l	10.0	1.0	03/27/03 14:35	ALS	62-53-3		
Anthracene	ND	ug/l	10.0	1.0	03/27/03 14:35	ALS	120-12-7		
Benzidine	ND	ug/l	10.0	1.0	03/27/03 14:35	ALS	92-87-5		
Benzo(a)anthracene	ND	ug/l	10.0	1.0	03/27/03 14:35	ALS	56-55-3		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 8532853
Client Project ID: NCL/TEL

Lab Sample No: 851795849
Client Sample ID: TEL-1

Project Sample Number: 8532853-012
Matrix: Water

Date Collected: 03/13/03 14:00
Date Received: 03/14/03 08:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	ReqLmt
Benzo(a)pyrene	ND	ug/l	10.0	1.0	03/27/03 14:35	ALS	50-32-8		
Benzo(b)fluoranthene	ND	ug/l	10.0	1.0	03/27/03 14:35	ALS	205-99-2		
Benzo(g,h,i)perylene	ND	ug/l	10.0	1.0	03/27/03 14:35	ALS	191-24-2		
Benzo(k)fluoranthene	ND	ug/l	10.0	1.0	03/27/03 14:35	ALS	207-08-9		
Benzoic acid	ND	ug/l	25.0	1.0	03/27/03 14:35	ALS	65-85-0		
Benzyl alcohol	ND	ug/l	10.0	1.0	03/27/03 14:35	ALS	100-51-6		
4-Bromophenylphenyl ether	ND	ug/l	10.0	1.0	03/27/03 14:35	ALS	101-55-3		
Butylbenzylphthalate	ND	ug/l	10.0	1.0	03/27/03 14:35	ALS	85-68-7		
4-Chloro-3-methylphenol	ND	ug/l	10.0	1.0	03/27/03 14:35	ALS	59-50-7		
4-Chloroaniline	ND	ug/l	10.0	1.0	03/27/03 14:35	ALS	106-47-8		
bis(2-Chloroethoxy)methane	ND	ug/l	10.0	1.0	03/27/03 14:35	ALS	111-91-1		
bis(2-Chloroethyl) ether	ND	ug/l	10.0	1.0	03/27/03 14:35	ALS	111-44-4		
bis(2-Chloroisopropyl) ether	ND	ug/l	10.0	1.0	03/27/03 14:35	ALS	39638-32-9		
2-Chloronaphthalene	ND	ug/l	10.0	1.0	03/27/03 14:35	ALS	91-58-7		
2-Chlorophenol	ND	ug/l	10.0	1.0	03/27/03 14:35	ALS	95-57-8		
4-Chlorophenylphenyl ether	ND	ug/l	10.0	1.0	03/27/03 14:35	ALS	7005-72-3		
Chrysene	ND	ug/l	10.0	1.0	03/27/03 14:35	ALS	218-01-9		
Dibenz(a,h)anthracene	ND	ug/l	10.0	1.0	03/27/03 14:35	ALS	53-70-3		
Dibenzofuran	ND	ug/l	10.0	1.0	03/27/03 14:35	ALS	132-64-9		
1,2-Dichlorobenzene	ND	ug/l	10.0	1.0	03/27/03 14:35	ALS	95-50-1		
1,3-Dichlorobenzene	ND	ug/l	10.0	1.0	03/27/03 14:35	ALS	541-73-1		
1,4-Dichlorobenzene	ND	ug/l	10.0	1.0	03/27/03 14:35	ALS	106-46-7		
3,3'-Dichlorobenzidine	ND	ug/l	10.0	1.0	03/27/03 14:35	ALS	91-94-1		
2,4-Dichlorophenol	ND	ug/l	10.0	1.0	03/27/03 14:35	ALS	120-83-2		
Diethylphthalate	ND	ug/l	10.0	1.0	03/27/03 14:35	ALS	84-66-2		
2,4-Dimethylphenol	ND	ug/l	10.0	1.0	03/27/03 14:35	ALS	105-67-9		
Dimethylphthalate	ND	ug/l	10.0	1.0	03/27/03 14:35	ALS	131-11-3		
Di-n-butylphthalate	ND	ug/l	10.0	1.0	03/27/03 14:35	ALS	84-74-2		
4,6-Dinitro-2-methylphenol	ND	ug/l	10.0	1.0	03/27/03 14:35	ALS	534-52-1		
2,4-Dinitrophenol	ND	ug/l	10.0	1.0	03/27/03 14:35	ALS	51-28-5		
2,4-Dinitrotoluene	ND	ug/l	10.0	1.0	03/27/03 14:35	ALS	121-14-2		
2,6-Dinitrotoluene	ND	ug/l	10.0	1.0	03/27/03 14:35	ALS	606-20-2		
Di-n-octylphthalate	ND	ug/l	10.0	1.0	03/27/03 14:35	ALS	117-84-0		
bis(2-Ethylhexyl)phthalate	ND	ug/l	10.0	1.0	03/27/03 14:35	ALS	117-81-7		
Fluoranthene	ND	ug/l	10.0	1.0	03/27/03 14:35	ALS	206-44-0		
Fluorene	ND	ug/l	10.0	1.0	03/27/03 14:35	ALS	86-73-7		
Hexachloro-1,3-butadiene	ND	ug/l	10.0	1.0	03/27/03 14:35	ALS	87-68-3		
Hexachlorobenzene	ND	ug/l	10.0	1.0	03/27/03 14:35	ALS	118-74-1		
Hexachlorocyclopentadiene	ND	ug/l	10.0	1.0	03/27/03 14:35	ALS	77-47-4		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 8532853
Client Project ID: NCL/TEL

Lab Sample No: 851795849 Project Sample Number: 8532853-012 Date Collected: 03/13/03 14:00
Client Sample ID: TEL-1 Matrix: Water Date Received: 03/14/03 08:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Hexachloroethane	ND	ug/l	10.0	1.0	03/27/03 14:35	ALS	67-72-1		
Indeno(1,2,3-cd)pyrene	ND	ug/l	10.0	1.0	03/27/03 14:35	ALS	193-39-5		
Isophorone	ND	ug/l	10.0	1.0	03/27/03 14:35	ALS	78-59-1		
2-Methylnaphthalene	ND	ug/l	10.0	1.0	03/27/03 14:35	ALS	91-57-6		
2-Methylphenol (o-Cresol)	ND	ug/l	10.0	1.0	03/27/03 14:35	ALS	95-48-7		
3&4-Methylphenol	ND	ug/l	10.0	1.0	03/27/03 14:35	ALS			
Naphthalene	ND	ug/l	10.0	1.0	03/27/03 14:35	ALS	91-20-3		
2-Nitroaniline	ND	ug/l	10.0	1.0	03/27/03 14:35	ALS	88-74-4		
3-Nitroaniline	ND	ug/l	10.0	1.0	03/27/03 14:35	ALS	99-09-2		
4-Nitroaniline	ND	ug/l	10.0	1.0	03/27/03 14:35	ALS	100-01-6		
Nitrobenzene	ND	ug/l	10.0	1.0	03/27/03 14:35	ALS	98-95-3		
2-Nitrophenol	ND	ug/l	10.0	1.0	03/27/03 14:35	ALS	88-75-5		
4-Nitrophenol	ND	ug/l	10.0	1.0	03/27/03 14:35	ALS	100-02-7		
N-Nitrosodimethylamine	ND	ug/l	10.0	1.0	03/27/03 14:35	ALS	62-75-9		
N-Nitroso-di-n-propylamine	ND	ug/l	10.0	1.0	03/27/03 14:35	ALS	621-64-7		
N-Nitrosodiphenylamine	ND	ug/l	10.0	1.0	03/27/03 14:35	ALS	86-30-6		
Pentachlorophenol	ND	ug/l	10.0	1.0	03/27/03 14:35	ALS	87-86-5		
Phenanthrene	ND	ug/l	10.0	1.0	03/27/03 14:35	ALS	85-01-8		
Phenol	ND	ug/l	10.0	1.0	03/27/03 14:35	ALS	108-95-2		
Pyrene	ND	ug/l	10.0	1.0	03/27/03 14:35	ALS	129-00-0		
1,2,4-Trichlorobenzene	ND	ug/l	10.0	1.0	03/27/03 14:35	ALS	120-82-1		
2,4,5-Trichlorophenol	ND	ug/l	10.0	1.0	03/27/03 14:35	ALS	95-95-4		
2,4,6-Trichlorophenol	ND	ug/l	10.0	1.0	03/27/03 14:35	ALS	88-06-2		
Nitrobenzene-d5 (S)	81	%		1.0	03/27/03 14:35	ALS	4165-60-0		
2-Fluorobiphenyl (S)	69	%		1.0	03/27/03 14:35	ALS	321-60-8		
Terphenyl-d14 (S)	98	%		1.0	03/27/03 14:35	ALS	1718-51-0		
Phenol-d5 (S)	32	%		1.0	03/27/03 14:35	ALS	4165-62-2		
2-Fluorophenol (S)	48	%		1.0	03/27/03 14:35	ALS	367-12-4		
2,4,6-Tribromophenol (S)	74	%		1.0	03/27/03 14:35	ALS			
Date Extracted	03/17/03 10:00				03/17/03 10:00				

GC/MS Volatiles

SW8260 Volatiles, Water

Method: EPA 8260

Acetone	ND	ug/l	10.0	1.0	03/21/03 16:22	EAD	67-64-1		
Benzene	14.1	ug/l	5.00	1.0	03/21/03 16:22	EAD	71-43-2		
Bromodichloromethane	ND	ug/l	5.00	1.0	03/21/03 16:22	EAD	75-27-4		
Bromoform	ND	ug/l	5.00	1.0	03/21/03 16:22	EAD	75-25-2		
Bromomethane	ND	ug/l	10.0	1.0	03/21/03 16:22	EAD	74-83-9		
2-Butanone (MEK)	ND	ug/l	10.0	1.0	03/21/03 16:22	EAD	78-93-3		

Date: 04/03/03

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REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
 900 Gemini Avenue
 Houston, TX 77058
 Phone: 281.488.1810
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Lab Project Number: 8532853
 Client Project ID: NCL/TEL

Lab Sample No: 851795849 Project Sample Number: 8532853-012 Date Collected: 03/13/03 14:00
 Client Sample ID: TEL-1 Matrix: Water Date Received: 03/14/03 08:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Carbon disulfide	ND	ug/l	5.00	1.0	03/21/03 16:22	EAD	75-15-0		
Carbon tetrachloride	ND	ug/l	5.00	1.0	03/21/03 16:22	EAD	56-23-5		
Chlorobenzene	ND	ug/l	5.00	1.0	03/21/03 16:22	EAD	108-90-7		
Chloroethane	ND	ug/l	10.0	1.0	03/21/03 16:22	EAD	75-00-3		
2-Chloroethylvinyl ether	ND	ug/l	10.0	1.0	03/21/03 16:22	EAD	110-75-8		
Chloroform	ND	ug/l	5.00	1.0	03/21/03 16:22	EAD	67-66-3		
Chloromethane	ND	ug/l	10.0	1.0	03/21/03 16:22	EAD	74-87-3		
Dibromochloromethane	ND	ug/l	5.00	1.0	03/21/03 16:22	EAD	124-48-1		
1,1-Dichloroethane	ND	ug/l	5.00	1.0	03/21/03 16:22	EAD	75-34-3		
1,2-Dichloroethane	ND	ug/l	5.00	1.0	03/21/03 16:22	EAD	107-06-2		
1,1-Dichloroethene	ND	ug/l	5.00	1.0	03/21/03 16:22	EAD	75-35-4		
cis-1,2-Dichloroethene	ND	ug/l	5.00	1.0	03/21/03 16:22	EAD	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	5.00	1.0	03/21/03 16:22	EAD	156-60-5		
1,2-Dichloropropane	ND	ug/l	5.00	1.0	03/21/03 16:22	EAD	78-87-5		
cis-1,3-Dichloropropene	ND	ug/l	5.00	1.0	03/21/03 16:22	EAD	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/l	5.00	1.0	03/21/03 16:22	EAD	10061-02-6		
Ethylbenzene	6.22	ug/l	5.00	1.0	03/21/03 16:22	EAD	100-41-4		
2-Hexanone	ND	ug/l	10.0	1.0	03/21/03 16:22	EAD	591-78-6		
Methylene chloride	ND	ug/l	5.00	1.0	03/21/03 16:22	EAD	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/l	10.0	1.0	03/21/03 16:22	EAD	108-10-1		
Styrene	ND	ug/l	5.00	1.0	03/21/03 16:22	EAD	100-42-5		
1,1,2,2-Tetrachloroethane	ND	ug/l	5.00	1.0	03/21/03 16:22	EAD	79-34-5		
Tetrachloroethene	ND	ug/l	5.00	1.0	03/21/03 16:22	EAD	127-18-4		
Toluene	ND	ug/l	5.00	1.0	03/21/03 16:22	EAD	108-88-3	1	
1,1,1-Trichloroethane	ND	ug/l	5.00	1.0	03/21/03 16:22	EAD	71-55-6		
1,1,2-Trichloroethane	ND	ug/l	5.00	1.0	03/21/03 16:22	EAD	79-00-5		
Trichloroethene	ND	ug/l	5.00	1.0	03/21/03 16:22	EAD	79-01-6		
Vinyl acetate	ND	ug/l	5.00	1.0	03/21/03 16:22	EAD	108-05-4		
Vinyl chloride	ND	ug/l	10.0	1.0	03/21/03 16:22	EAD	75-01-4		
Xylene (Total)	11.6	ug/l	5.00	1.0	03/21/03 16:22	EAD	1330-20-7		
m&p-Xylene	7.73	ug/l	5.00	1.0	03/21/03 16:22	EAD			
o-Xylene	ND	ug/l	5.00	1.0	03/21/03 16:22	EAD	95-47-6	1	
Toluene-d8 (S)	96	%		1.0	03/21/03 16:22	EAD	2037-26-5		
4-Bromofluorobenzene (S)	104	%		1.0	03/21/03 16:22	EAD	460-00-4		
1,2-Dichloroethane-d4 (S)	91	%		1.0	03/21/03 16:22	EAD	17060-07-0		

Comments : ARS performed the Total Uranium analysis. Please refer to the enclosed report.

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Lab Project Number: 8532853
Client Project ID: NCL/TEL

Lab Sample No: 851795850 Project Sample Number: 8532853-013 Date Collected: 03/13/03 15:15
Client Sample ID: TEL-4 Matrix: Water Date Received: 03/14/03 08:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
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Metals

SW6010 Metals, Trace Water		Prep/Method: / EPA 6010							
Aluminum	307.	ug/l	200.	1.0	03/27/03	01:40	AJT1	7429-90-5	
Arsenic	10.1	ug/l	10.0	1.0	03/27/03	01:40	AJT1	7440-38-2	
Barium	353.	ug/l	200.	1.0	03/27/03	01:40	AJT1	7440-39-3	
Beryllium	ND	ug/l	5.00	1.0	03/27/03	01:40	AJT1	7440-41-7	
Boron	738.	ug/l	100.	1.0	03/27/03	01:40	AJT1	7440-42-8	
Cadmium	ND	ug/l	5.00	1.0	03/27/03	01:40	AJT1	7440-43-9	
Chromium	ND	ug/l	10.0	1.0	03/27/03	01:40	AJT1	7440-47-3	
Cobalt	ND	ug/l	50.0	1.0	03/27/03	01:40	AJT1	7440-48-4	
Copper	ND	ug/l	25.0	1.0	03/27/03	01:40	AJT1	7440-50-8	
Iron	116.	ug/l	100.	1.0	03/27/03	01:40	AJT1	7439-89-6	
Lead	ND	ug/l	3.00	1.0	03/27/03	01:40	AJT1	7439-92-1	
Manganese	182.	ug/l	15.0	1.0	03/27/03	01:40	AJT1	7439-96-5	
Molybdenum	ND	ug/l	10.0	1.0	03/27/03	01:40	AJT1	7439-98-7	
Nickel	ND	ug/l	40.0	1.0	03/27/03	01:40	AJT1	7440-02-0	
Selenium	8.98	ug/l	5.00	1.0	03/27/03	01:40	AJT1	7782-49-2	
Silver	ND	ug/l	10.0	1.0	03/27/03	01:40	AJT1	7440-22-4	
Vanadium	ND	ug/l	50.0	1.0	03/27/03	01:40	AJT1	7440-62-2	
Zinc	ND	ug/l	20.0	1.0	03/27/03	01:40	AJT1	7440-66-6	

Mercury, Water, SW 7470		Method: EPA 7470							
Mercury	ND	ug/l	0.200	1.0	03/25/03	13:23	SSPI	7439-97-6	200

Wet Chemistry

Sulfide, Total		Method: EPA 376.1							
Sulfide	ND	mg/l	4.00	4.0	03/20/03	08:04	HFEB		

Phenolics, Total Recoverable		Method: EPA 420.2							
Phenolics, Total Recoverable	0.0690	mg/l	0.0100	1.0	03/28/03		HFEB		

GC/MS Semivolatiles

SW8270 Semivolatiles, Water		Prep/Method: EPA 3510 / EPA 8270							
Acenaphthene	ND	ug/l	10.0	1.0	03/27/03	15:11	ALS	83-32-9	
Acenaphthylene	ND	ug/l	10.0	1.0	03/27/03	15:11	ALS	208-96-8	
Aniline	ND	ug/l	10.0	1.0	03/27/03	15:11	ALS	62-53-3	
Anthracene	ND	ug/l	10.0	1.0	03/27/03	15:11	ALS	120-12-7	
Benzidine	ND	ug/l	10.0	1.0	03/27/03	15:11	ALS	92-87-5	
Benzo(a)anthracene	ND	ug/l	10.0	1.0	03/27/03	15:11	ALS	56-55-3	

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 8532853
Client Project ID: NCL/TEL

Lab Sample No: 851795850 Project Sample Number: 8532853-013 Date Collected: 03/13/03 15:15
Client Sample ID: TEL-4 Matrix: Water Date Received: 03/14/03 08:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	ReqLmt
Benzo(a)pyrene	ND	ug/l	10.0	1.0	03/27/03 15:11	ALS	50-32-8		
Benzo(b)fluoranthene	ND	ug/l	10.0	1.0	03/27/03 15:11	ALS	205-99-2		
Benzo(g,h,i)perylene	ND	ug/l	10.0	1.0	03/27/03 15:11	ALS	191-24-2		
Benzo(k)fluoranthene	ND	ug/l	10.0	1.0	03/27/03 15:11	ALS	207-08-9		
Benzoic acid	ND	ug/l	25.0	1.0	03/27/03 15:11	ALS	65-85-0		
Benzyl alcohol	ND	ug/l	10.0	1.0	03/27/03 15:11	ALS	100-51-6		
4-Bromophenylphenyl ether	ND	ug/l	10.0	1.0	03/27/03 15:11	ALS	101-55-3		
Butylbenzylphthalate	ND	ug/l	10.0	1.0	03/27/03 15:11	ALS	85-68-7		
4-Chloro-3-methylphenol	ND	ug/l	10.0	1.0	03/27/03 15:11	ALS	59-50-7		
4-Chloroaniline	ND	ug/l	10.0	1.0	03/27/03 15:11	ALS	106-47-8		
bis(2-Chloroethoxy)methane	ND	ug/l	10.0	1.0	03/27/03 15:11	ALS	111-91-1		
bis(2-Chloroethyl) ether	ND	ug/l	10.0	1.0	03/27/03 15:11	ALS	111-44-4		
2-Chloronaphthalene	ND	ug/l	10.0	1.0	03/27/03 15:11	ALS	91-58-7		
2-Chlorophenol	ND	ug/l	10.0	1.0	03/27/03 15:11	ALS	95-57-8		
4-Chlorophenylphenyl ether	ND	ug/l	10.0	1.0	03/27/03 15:11	ALS	7005-72-3		
Chrysene	ND	ug/l	10.0	1.0	03/27/03 15:11	ALS	218-01-9		
Dibenz(a,h)anthracene	ND	ug/l	10.0	1.0	03/27/03 15:11	ALS	53-70-3		
Dibenzofuran	ND	ug/l	10.0	1.0	03/27/03 15:11	ALS	132-64-9		
1,2-Dichlorobenzene	ND	ug/l	10.0	1.0	03/27/03 15:11	ALS	95-50-1		
1,3-Dichlorobenzene	ND	ug/l	10.0	1.0	03/27/03 15:11	ALS	541-73-1		
1,4-Dichlorobenzene	ND	ug/l	10.0	1.0	03/27/03 15:11	ALS	106-46-7		
3,3'-Dichlorobenzidine	ND	ug/l	10.0	1.0	03/27/03 15:11	ALS	91-94-1		
2,4-Dichlorophenol	ND	ug/l	10.0	1.0	03/27/03 15:11	ALS	120-83-2		
Diethylphthalate	ND	ug/l	10.0	1.0	03/27/03 15:11	ALS	84-66-2		
2,4-Dimethylphenol	ND	ug/l	10.0	1.0	03/27/03 15:11	ALS	105-67-9		
Dimethylphthalate	ND	ug/l	10.0	1.0	03/27/03 15:11	ALS	131-11-3		
Di-n-butylphthalate	ND	ug/l	10.0	1.0	03/27/03 15:11	ALS	84-74-2		
4,6-Dinitro-2-methylphenol	ND	ug/l	10.0	1.0	03/27/03 15:11	ALS	534-52-1		
2,4-Dinitrophenol	ND	ug/l	10.0	1.0	03/27/03 15:11	ALS	51-28-5		
2,4-Dinitrotoluene	ND	ug/l	10.0	1.0	03/27/03 15:11	ALS	121-14-2		
2,6-Dinitrotoluene	ND	ug/l	10.0	1.0	03/27/03 15:11	ALS	606-20-2		
Di-n-octylphthalate	ND	ug/l	10.0	1.0	03/27/03 15:11	ALS	117-84-0		
bis(2-Ethylhexyl)phthalate	ND	ug/l	10.0	1.0	03/27/03 15:11	ALS	117-81-7		
Fluoranthene	ND	ug/l	10.0	1.0	03/27/03 15:11	ALS	206-44-0		
Fluorene	ND	ug/l	10.0	1.0	03/27/03 15:11	ALS	86-73-7		
Hexachloro-1,3-butadiene	ND	ug/l	10.0	1.0	03/27/03 15:11	ALS	87-68-3		
Hexachlorobenzene	ND	ug/l	10.0	1.0	03/27/03 15:11	ALS	118-74-1		
Hexachlorocyclopentadiene	ND	ug/l	10.0	1.0	03/27/03 15:11	ALS	77-47-4		
Hexachloroethane	ND	ug/l	10.0	1.0	03/27/03 15:11	ALS	67-72-1		

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Lab Project Number: 8532853
 Client Project ID: NCL/TEL

Lab Sample No: 851795850 Project Sample Number: 8532853-013 Date Collected: 03/13/03 15:15
 Client Sample ID: TEL-4 Matrix: Water Date Received: 03/14/03 08:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Indeno(1,2,3-cd)pyrene	ND	ug/l	10.0	1.0	03/27/03 15:11	ALS	193-39-5		
Isophorone	ND	ug/l	10.0	1.0	03/27/03 15:11	ALS	78-59-1		
2-Methylnaphthalene	ND	ug/l	10.0	1.0	03/27/03 15:11	ALS	91-57-6		
2-Methylphenol (o-Cresol)	ND	ug/l	10.0	1.0	03/27/03 15:11	ALS	95-48-7		
3&4-Methylphenol	ND	ug/l	10.0	1.0	03/27/03 15:11	ALS			
Naphthalene	ND	ug/l	10.0	1.0	03/27/03 15:11	ALS	91-20-3		
2-Nitroaniline	ND	ug/l	10.0	1.0	03/27/03 15:11	ALS	88-74-4		
3-Nitroaniline	ND	ug/l	10.0	1.0	03/27/03 15:11	ALS	99-09-2		
4-Nitroaniline	ND	ug/l	10.0	1.0	03/27/03 15:11	ALS	100-01-6		
Nitrobenzene	ND	ug/l	10.0	1.0	03/27/03 15:11	ALS	98-95-3		
2-Nitrophenol	ND	ug/l	10.0	1.0	03/27/03 15:11	ALS	88-75-5		
4-Nitrophenol	ND	ug/l	10.0	1.0	03/27/03 15:11	ALS	100-02-7		
N-Nitrosodimethylamine	ND	ug/l	10.0	1.0	03/27/03 15:11	ALS	62-75-9		
N-Nitroso-di-n-propylamine	ND	ug/l	10.0	1.0	03/27/03 15:11	ALS	621-64-7		
N-Nitrosodiphenylamine	ND	ug/l	10.0	1.0	03/27/03 15:11	ALS	86-30-6		
Pentachlorophenol	ND	ug/l	10.0	1.0	03/27/03 15:11	ALS	87-86-5		
Phenanthrene	ND	ug/l	10.0	1.0	03/27/03 15:11	ALS	85-01-8		
Phenol	ND	ug/l	10.0	1.0	03/27/03 15:11	ALS	108-95-2		
Pyrene	ND	ug/l	10.0	1.0	03/27/03 15:11	ALS	129-00-0		
1,2,4-Trichlorobenzene	ND	ug/l	10.0	1.0	03/27/03 15:11	ALS	120-82-1		
2,4,5-Trichlorophenol	ND	ug/l	10.0	1.0	03/27/03 15:11	ALS	95-95-4		
2,4,6-Trichlorophenol	ND	ug/l	10.0	1.0	03/27/03 15:11	ALS	88-06-2		
Nitrobenzene-d5 (S)	68	%		1.0	03/27/03 15:11	ALS	4165-60-0		
2-Fluorobiphenyl (S)	58	%		1.0	03/27/03 15:11	ALS	321-60-8		
Terphenyl-d14 (S)	96	%		1.0	03/27/03 15:11	ALS	1718-51-0		
Phenol-d5 (S)	25	%		1.0	03/27/03 15:11	ALS	4165-62-2		
2-Fluorophenol (S)	36	%		1.0	03/27/03 15:11	ALS	367-12-4		
2,4,6-Tribromophenol (S)	68	%		1.0	03/27/03 15:11	ALS			
Date Extracted	03/17/03 10:00				03/17/03 10:00				

GC/MS Volatiles

SW8260 Volatiles, Water

Method: EPA 8260

Acetone	ND	ug/l	10.0	1.0	03/20/03 17:19	EAD	67-64-1		
Benzene	1840	ug/l	100.	20.0	03/20/03 17:19	EAD	71-43-2		
Bromodichloromethane	ND	ug/l	5.00	1.0	03/20/03 17:19	EAD	75-27-4		
Bromoform	ND	ug/l	5.00	1.0	03/20/03 17:19	EAD	75-25-2		
Bromomethane	ND	ug/l	10.0	1.0	03/20/03 17:19	EAD	74-83-9		
2-Butanone (MEK)	ND	ug/l	10.0	1.0	03/20/03 17:19	EAD	78-93-3		
Carbon disulfide	ND	ug/l	5.00	1.0	03/20/03 17:19	EAD	75-15-0		1

Date: 04/03/03

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Lab Project Number: 8532853
 Client Project ID: NCL/TEL

Lab Sample No: 851795850 Project Sample Number: 8532853-013 Date Collected: 03/13/03 15:15
 Client Sample ID: TEL-4 Matrix: Water Date Received: 03/14/03 08:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Carbon tetrachloride	ND	ug/l	5.00	1.0	03/20/03 17:19	EAD	56-23-5		
Chlorobenzene	ND	ug/l	5.00	1.0	03/20/03 17:19	EAD	108-90-7		
Chloroethane	ND	ug/l	10.0	1.0	03/20/03 17:19	EAD	75-00-3		
2-Chloroethylvinyl ether	ND	ug/l	10.0	1.0	03/20/03 17:19	EAD	110-75-8		
Chloroform	ND	ug/l	5.00	1.0	03/20/03 17:19	EAD	67-66-3		
Chloromethane	ND	ug/l	10.0	1.0	03/20/03 17:19	EAD	74-87-3		
Dibromochloromethane	ND	ug/l	5.00	1.0	03/20/03 17:19	EAD	124-48-1		
1,1-Dichloroethane	ND	ug/l	5.00	1.0	03/20/03 17:19	EAD	75-34-3		
1,2-Dichloroethane	ND	ug/l	5.00	1.0	03/20/03 17:19	EAD	107-06-2		
1,1-Dichloroethene	ND	ug/l	5.00	1.0	03/20/03 17:19	EAD	75-35-4		
cis-1,2-Dichloroethene	ND	ug/l	5.00	1.0	03/20/03 17:19	EAD	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	5.00	1.0	03/20/03 17:19	EAD	156-60-5		
1,2-Dichloropropane	ND	ug/l	5.00	1.0	03/20/03 17:19	EAD	78-87-5		
cis-1,3-Dichloropropene	ND	ug/l	5.00	1.0	03/20/03 17:19	EAD	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/l	5.00	1.0	03/20/03 17:19	EAD	10061-02-6		
Ethylbenzene	142.	ug/l	5.00	1.0	03/20/03 17:19	EAD	100-41-4		
2-Hexanone	ND	ug/l	10.0	1.0	03/20/03 17:19	EAD	591-78-6		
Methylene chloride	ND	ug/l	5.00	1.0	03/20/03 17:19	EAD	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/l	10.0	1.0	03/20/03 17:19	EAD	108-10-1		
Styrene	ND	ug/l	5.00	1.0	03/20/03 17:19	EAD	100-42-5		
1,1,2,2-Tetrachloroethane	ND	ug/l	5.00	1.0	03/20/03 17:19	EAD	79-34-5		
Tetrachloroethene	ND	ug/l	5.00	1.0	03/20/03 17:19	EAD	127-18-4		
Toluene	35.9	ug/l	5.00	1.0	03/20/03 17:19	EAD	108-88-3		
1,1,1-Trichloroethane	ND	ug/l	5.00	1.0	03/20/03 17:19	EAD	71-55-6		
1,1,2-Trichloroethane	ND	ug/l	5.00	1.0	03/20/03 17:19	EAD	79-00-5		
Trichloroethene	ND	ug/l	5.00	1.0	03/20/03 17:19	EAD	79-01-6		
Vinyl acetate	ND	ug/l	5.00	1.0	03/20/03 17:19	EAD	108-05-4		
Vinyl chloride	ND	ug/l	10.0	1.0	03/20/03 17:19	EAD	75-01-4		
Xylene (Total)	302.	ug/l	5.00	1.0	03/20/03 17:19	EAD	1330-20-7		
m&p-Xylene	296.	ug/l	5.00	1.0	03/20/03 17:19	EAD			
o-Xylene	5.89	ug/l	5.00	1.0	03/20/03 17:19	EAD	95-47-6		
Toluene-d8 (S)	99	%		1.0	03/20/03 17:19	EAD	2037-26-5		
4-Bromofluorobenzene (S)	107	%		1.0	03/20/03 17:19	EAD	460-00-4		
1,2-Dichloroethane-d4 (S)	82	%		1.0	03/20/03 17:19	EAD	17060-07-0		

Comments : ARS performed the Total Uranium analysis. Please refer to the enclosed report.

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 8532853
Client Project ID: NCL/TEL

Lab Sample No: 851795851 Project Sample Number: 8532853-014 Date Collected: 03/13/03 08:50
Client Sample ID: NCL-34 Matrix: Water Date Received: 03/14/03 08:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
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Metals

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
SW6010 Metals, Trace Water	Prep/Method: / EPA 6010								
Aluminum	348.	ug/l	200.	1.0	03/27/03 01:46	AJT1	7429-90-5		
Arsenic	ND	ug/l	10.0	1.0	03/27/03 01:46	AJT1	7440-38-2		
Barium	526.	ug/l	200.	1.0	03/27/03 01:46	AJT1	7440-39-3		
Beryllium	ND	ug/l	5.00	1.0	03/27/03 01:46	AJT1	7440-41-7		
Boron	349.	ug/l	100.	1.0	03/27/03 01:46	AJT1	7440-42-8		
Cadmium	ND	ug/l	5.00	1.0	03/27/03 01:46	AJT1	7440-43-9		
Chromium	ND	ug/l	10.0	1.0	03/27/03 01:46	AJT1	7440-47-3		
Cobalt	ND	ug/l	50.0	1.0	03/27/03 01:46	AJT1	7440-48-4		
Copper	26.6	ug/l	25.0	1.0	03/27/03 01:46	AJT1	7440-50-8		
Iron	411.	ug/l	100.	1.0	03/27/03 01:46	AJT1	7439-89-6		
Lead	ND	ug/l	3.00	1.0	03/27/03 01:46	AJT1	7439-92-1		
Manganese	166.	ug/l	15.0	1.0	03/27/03 01:46	AJT1	7439-96-5		
Molybdenum	ND	ug/l	10.0	1.0	03/27/03 01:46	AJT1	7439-98-7		
Nickel	ND	ug/l	40.0	1.0	03/27/03 01:46	AJT1	7440-02-0		
Selenium	7.21	ug/l	5.00	1.0	03/27/03 01:46	AJT1	7782-49-2		
Silver	ND	ug/l	10.0	1.0	03/27/03 01:46	AJT1	7440-22-4		
Vanadium	ND	ug/l	50.0	1.0	03/27/03 01:46	AJT1	7440-62-2		
Zinc	ND	ug/l	20.0	1.0	03/27/03 01:46	AJT1	7440-66-6		

Mercury, Water, SW 7470	Method: EPA 7470								
Mercury	ND	ug/l	0.200	1.0	03/25/03 13:23	SSPI	7439-97-6		200

Wet Chemistry

Sulfide, Total	Method: EPA 376.1								
Sulfide	ND	mg/l	4.00	4.0	03/20/03 08:04	HFEB			

Phenolics, Total Recoverable	Method: EPA 420.2								
Phenolics, Total Recoverable	0.0530	mg/l	0.0100	1.0	03/28/03	HFEB			

GC/MS Semivolatiles

SW8270 Semivolatiles, Water	Prep/Method: EPA 3510 / EPA 8270								
Acenaphthene	ND	ug/l	11.6	1.2	03/27/03 15:48	ALS	83-32-9		
Acenaphthylene	ND	ug/l	11.6	1.2	03/27/03 15:48	ALS	208-96-8		
Aniline	ND	ug/l	11.6	1.2	03/27/03 15:48	ALS	62-53-3		
Anthracene	ND	ug/l	11.6	1.2	03/27/03 15:48	ALS	120-12-7		
Benzidine	ND	ug/l	11.6	1.2	03/27/03 15:48	ALS	92-87-5		
Benzo(a)anthracene	ND	ug/l	11.6	1.2	03/27/03 15:48	ALS	56-55-3		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 8532853
Client Project ID: NCL/TEL

Lab Sample No: 851795851 Project Sample Number: 8532853-014 Date Collected: 03/13/03 08:50
Client Sample ID: NCL-34 Matrix: Water Date Received: 03/14/03 08:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Benzo(a)pyrene	ND	ug/l	11.6	1.2	03/27/03 15:48	ALS	50-32-8		
Benzo(b)fluoranthene	ND	ug/l	11.6	1.2	03/27/03 15:48	ALS	205-99-2		
Benzo(g,h,i)perylene	ND	ug/l	11.6	1.2	03/27/03 15:48	ALS	191-24-2		
Benzo(k)fluoranthene	ND	ug/l	11.6	1.2	03/27/03 15:48	ALS	207-08-9		
Benzoic acid	ND	ug/l	29.1	1.2	03/27/03 15:48	ALS	65-85-0		
Benzyl alcohol	ND	ug/l	11.6	1.2	03/27/03 15:48	ALS	100-51-6		
4-Bromophenylphenyl ether	ND	ug/l	11.6	1.2	03/27/03 15:48	ALS	101-55-3		
Butylbenzylphthalate	ND	ug/l	11.6	1.2	03/27/03 15:48	ALS	85-68-7		
4-Chloro-3-methylphenol	ND	ug/l	11.6	1.2	03/27/03 15:48	ALS	59-50-7		
4-Chloroaniline	ND	ug/l	11.6	1.2	03/27/03 15:48	ALS	106-47-8		
bis(2-Chloroethoxy)methane	ND	ug/l	11.6	1.2	03/27/03 15:48	ALS	111-91-1		
bis(2-Chloroethyl) ether	ND	ug/l	11.6	1.2	03/27/03 15:48	ALS	111-44-4		
bis(2-Chloroisopropyl) ether	ND	ug/l	11.6	1.2	03/27/03 15:48	ALS	39638-32-9		
2-Chloronaphthalene	ND	ug/l	11.6	1.2	03/27/03 15:48	ALS	91-58-7		
2-Chlorophenol	ND	ug/l	11.6	1.2	03/27/03 15:48	ALS	95-57-8		
4-Chlorophenylphenyl ether	ND	ug/l	11.6	1.2	03/27/03 15:48	ALS	7005-72-3		
Chrysene	ND	ug/l	11.6	1.2	03/27/03 15:48	ALS	218-01-9		
Dibenz(a,h)anthracene	ND	ug/l	11.6	1.2	03/27/03 15:48	ALS	53-70-3		
Dibenzofuran	ND	ug/l	11.6	1.2	03/27/03 15:48	ALS	132-64-9		
1,2-Dichlorobenzene	ND	ug/l	11.6	1.2	03/27/03 15:48	ALS	95-50-1		
1,3-Dichlorobenzene	ND	ug/l	11.6	1.2	03/27/03 15:48	ALS	541-73-1		
1,4-Dichlorobenzene	ND	ug/l	11.6	1.2	03/27/03 15:48	ALS	106-46-7		
3,3'-Dichlorobenzidine	ND	ug/l	11.6	1.2	03/27/03 15:48	ALS	91-94-1		
2,4-Dichlorophenol	ND	ug/l	11.6	1.2	03/27/03 15:48	ALS	120-83-2		
Diethylphthalate	ND	ug/l	11.6	1.2	03/27/03 15:48	ALS	84-66-2		
2,4-Dimethylphenol	ND	ug/l	11.6	1.2	03/27/03 15:48	ALS	105-67-9		
Dimethylphthalate	ND	ug/l	11.6	1.2	03/27/03 15:48	ALS	131-11-3		
Di-n-butylphthalate	ND	ug/l	11.6	1.2	03/27/03 15:48	ALS	84-74-2		
4,6-Dinitro-2-methylphenol	ND	ug/l	11.6	1.2	03/27/03 15:48	ALS	534-52-1		
2,4-Dinitrophenol	ND	ug/l	11.6	1.2	03/27/03 15:48	ALS	51-28-5		
2,4-Dinitrotoluene	ND	ug/l	11.6	1.2	03/27/03 15:48	ALS	121-14-2		
2,6-Dinitrotoluene	ND	ug/l	11.6	1.2	03/27/03 15:48	ALS	606-20-2		
Di-n-octylphthalate	ND	ug/l	11.6	1.2	03/27/03 15:48	ALS	117-84-0		
bis(2-Ethylhexyl)phthalate	ND	ug/l	11.6	1.2	03/27/03 15:48	ALS	117-81-7		
Fluoranthene	ND	ug/l	11.6	1.2	03/27/03 15:48	ALS	206-44-0		
Fluorene	ND	ug/l	11.6	1.2	03/27/03 15:48	ALS	86-73-7		
Hexachloro-1,3-butadiene	ND	ug/l	11.6	1.2	03/27/03 15:48	ALS	87-68-3		
Hexachlorobenzene	ND	ug/l	11.6	1.2	03/27/03 15:48	ALS	118-74-1		
Hexachlorocyclopentadiene	ND	ug/l	11.6	1.2	03/27/03 15:48	ALS	77-47-4		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 8532853
Client Project ID: NCL/TEL

Lab Sample No: 851795851 Project Sample Number: 8532853-014 Date Collected: 03/13/03 08:50
Client Sample ID: NCL-34 Matrix: Water Date Received: 03/14/03 08:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	ReqLmt
Hexachloroethane	ND	ug/l	11.6	1.2	03/27/03 15:48	ALS	67-72-1		
Indeno(1,2,3-cd)pyrene	ND	ug/l	11.6	1.2	03/27/03 15:48	ALS	193-39-5		
Isophorone	ND	ug/l	11.6	1.2	03/27/03 15:48	ALS	78-59-1		
2-Methylnaphthalene	ND	ug/l	11.6	1.2	03/27/03 15:48	ALS	91-57-6		
2-Methylphenol (o-Cresol)	ND	ug/l	11.6	1.2	03/27/03 15:48	ALS	95-48-7		
3&4-Methylphenol	ND	ug/l	11.6	1.2	03/27/03 15:48	ALS			
Naphthalene	20.4	ug/l	11.6	1.2	03/27/03 15:48	ALS	91-20-3		
2-Nitroaniline	ND	ug/l	11.6	1.2	03/27/03 15:48	ALS	88-74-4		
3-Nitroaniline	ND	ug/l	11.6	1.2	03/27/03 15:48	ALS	99-09-2		
4-Nitroaniline	ND	ug/l	11.6	1.2	03/27/03 15:48	ALS	100-01-6		
Nitrobenzene	ND	ug/l	11.6	1.2	03/27/03 15:48	ALS	98-95-3		
2-Nitrophenol	ND	ug/l	11.6	1.2	03/27/03 15:48	ALS	88-75-5		
4-Nitrophenol	ND	ug/l	11.6	1.2	03/27/03 15:48	ALS	100-02-7		
N-Nitrosodimethylamine	ND	ug/l	11.6	1.2	03/27/03 15:48	ALS	62-75-9		
N-Nitroso-di-n-propylamine	ND	ug/l	11.6	1.2	03/27/03 15:48	ALS	621-64-7		
N-Nitrosodiphenylamine	ND	ug/l	11.6	1.2	03/27/03 15:48	ALS	86-30-6		
Pentachlorophenol	ND	ug/l	11.6	1.2	03/27/03 15:48	ALS	87-86-5		
Phenanthrene	ND	ug/l	11.6	1.2	03/27/03 15:48	ALS	85-01-8		
Phenol	ND	ug/l	11.6	1.2	03/27/03 15:48	ALS	108-95-2		
Pyrene	ND	ug/l	11.6	1.2	03/27/03 15:48	ALS	129-00-0		
1,2,4-Trichlorobenzene	ND	ug/l	11.6	1.2	03/27/03 15:48	ALS	120-82-1		
2,4,5-Trichlorophenol	ND	ug/l	11.6	1.2	03/27/03 15:48	ALS	95-95-4		
2,4,6-Trichlorophenol	ND	ug/l	11.6	1.2	03/27/03 15:48	ALS	88-06-2		
Nitrobenzene-d5 (S)	72	%		1.0	03/27/03 15:48	ALS	4165-60-0		
2-Fluorobiphenyl (S)	62	%		1.0	03/27/03 15:48	ALS	321-60-8		
Terphenyl-d14 (S)	93	%		1.0	03/27/03 15:48	ALS	1718-51-0		
Phenol-d5 (S)	32	%		1.0	03/27/03 15:48	ALS	4165-62-2		
2-Fluorophenol (S)	45	%		1.0	03/27/03 15:48	ALS	367-12-4		
2,4,6-Tribromophenol (S)	68	%		1.0	03/27/03 15:48	ALS			
Date Extracted	03/17/03 10:00				03/17/03 10:00				

GC/MS Volatiles

SW8260 Volatiles, Water

Method: EPA 8260

Acetone	ND	ug/l	10.0	1.0	03/20/03 17:46	EAD	67-64-1		
Benzene	2160	ug/l	100.	20.0	03/20/03 17:46	EAD	71-43-2		
Bromodichloromethane	ND	ug/l	5.00	1.0	03/20/03 17:46	EAD	75-27-4		
Bromoform	ND	ug/l	5.00	1.0	03/20/03 17:46	EAD	75-25-2		
Bromomethane	ND	ug/l	10.0	1.0	03/20/03 17:46	EAD	74-83-9		
2-Butanone (MEK)	ND	ug/l	10.0	1.0	03/20/03 17:46	EAD	78-93-3		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 8532853
Client Project ID: NCL/TEL

Lab Sample No: 851795851 Project Sample Number: 8532853-014 Date Collected: 03/13/03 08:50
Client Sample ID: NCL-34 Matrix: Water Date Received: 03/14/03 08:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Carbon disulfide	ND	ug/l	5.00	1.0	03/20/03 17:46	EAD	75-15-0		
Carbon tetrachloride	ND	ug/l	5.00	1.0	03/20/03 17:46	EAD	56-23-5		
Chlorobenzene	ND	ug/l	5.00	1.0	03/20/03 17:46	EAD	108-90-7		
Chloroethane	ND	ug/l	10.0	1.0	03/20/03 17:46	EAD	75-00-3		
2-Chloroethylvinyl ether	ND	ug/l	10.0	1.0	03/20/03 17:46	EAD	110-75-8		
Chloroform	ND	ug/l	5.00	1.0	03/20/03 17:46	EAD	67-66-3		
Chloromethane	ND	ug/l	10.0	1.0	03/20/03 17:46	EAD	74-87-3		
Dibromochloromethane	ND	ug/l	5.00	1.0	03/20/03 17:46	EAD	124-48-1		
1,1-Dichloroethane	ND	ug/l	5.00	1.0	03/20/03 17:46	EAD	75-34-3		
1,2-Dichloroethane	ND	ug/l	5.00	1.0	03/20/03 17:46	EAD	107-06-2		
1,1-Dichloroethene	ND	ug/l	5.00	1.0	03/20/03 17:46	EAD	75-35-4		
cis-1,2-Dichloroethene	ND	ug/l	5.00	1.0	03/20/03 17:46	EAD	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	5.00	1.0	03/20/03 17:46	EAD	156-60-5		
1,2-Dichloropropane	ND	ug/l	5.00	1.0	03/20/03 17:46	EAD	78-87-5		
cis-1,3-Dichloropropene	ND	ug/l	5.00	1.0	03/20/03 17:46	EAD	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/l	5.00	1.0	03/20/03 17:46	EAD	10061-02-6		
Ethylbenzene	172.	ug/l	5.00	1.0	03/20/03 17:46	EAD	100-41-4		
2-Hexanone	ND	ug/l	10.0	1.0	03/20/03 17:46	EAD	591-78-6		
Methylene chloride	ND	ug/l	5.00	1.0	03/20/03 17:46	EAD	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/l	10.0	1.0	03/20/03 17:46	EAD	108-10-1		
Styrene	ND	ug/l	5.00	1.0	03/20/03 17:46	EAD	100-42-5		
1,1,2,2-Tetrachloroethane	ND	ug/l	5.00	1.0	03/20/03 17:46	EAD	79-34-5		
Tetrachloroethene	ND	ug/l	5.00	1.0	03/20/03 17:46	EAD	127-18-4		
Toluene	ND	ug/l	5.00	1.0	03/20/03 17:46	EAD	108-88-3		
1,1,1-Trichloroethane	ND	ug/l	5.00	1.0	03/20/03 17:46	EAD	71-55-6		
1,1,2-Trichloroethane	ND	ug/l	5.00	1.0	03/20/03 17:46	EAD	79-00-5		
Trichloroethene	ND	ug/l	5.00	1.0	03/20/03 17:46	EAD	79-01-6		
Vinyl acetate	ND	ug/l	5.00	1.0	03/20/03 17:46	EAD	108-05-4		
Vinyl chloride	ND	ug/l	10.0	1.0	03/20/03 17:46	EAD	75-01-4		
Xylene (Total)	266.	ug/l	5.00	1.0	03/20/03 17:46	EAD	1330-20-7		
m&p-Xylene	266.	ug/l	5.00	1.0	03/20/03 17:46	EAD			
o-Xylene	ND	ug/l	5.00	1.0	03/20/03 17:46	EAD	95-47-6		
Toluene-d8 (S)	96	%		1.0	03/20/03 17:46	EAD	2037-26-5		
4-Bromofluorobenzene (S)	105	%		1.0	03/20/03 17:46	EAD	460-00-4		
1,2-Dichloroethane-d4 (S)	83	%		1.0	03/20/03 17:46	EAD	17060-07-0		

Comments : ARS performed the Total Uranium analysis. Please refer to the enclosed report.

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 8532853
Client Project ID: NCL/TEL

Lab Sample No: 851795852 Project Sample Number: 8532853-015 Date Collected: 03/05/03 00:00
Client Sample ID: TRIP BLANK 2 Matrix: Water Date Received: 03/14/03 08:30

Parameters Results Units Report Limit DF Analyzed By CAS No. Qual ReqLmt

GC/MS Volatiles

SW8260 Volatiles, Water

Method: EPA 8260

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	ReqLmt
Acetone	ND	ug/l	10.0	1.0	03/19/03 14:13	HF	67-64-1		
Benzene	ND	ug/l	5.00	1.0	03/19/03 14:13	HF	71-43-2		
Bromodichloromethane	ND	ug/l	5.00	1.0	03/19/03 14:13	HF	75-27-4		
Bromoform	ND	ug/l	5.00	1.0	03/19/03 14:13	HF	75-25-2		
Bromomethane	ND	ug/l	10.0	1.0	03/19/03 14:13	HF	74-83-9		
2-Butanone (MEK)	ND	ug/l	10.0	1.0	03/19/03 14:13	HF	78-93-3		
Carbon disulfide	ND	ug/l	5.00	1.0	03/19/03 14:13	HF	75-15-0		
Carbon tetrachloride	ND	ug/l	5.00	1.0	03/19/03 14:13	HF	56-23-5		
Chlorobenzene	ND	ug/l	5.00	1.0	03/19/03 14:13	HF	108-90-7		
Chloroethane	ND	ug/l	10.0	1.0	03/19/03 14:13	HF	75-00-3		
2-Chloroethylvinyl ether	ND	ug/l	10.0	1.0	03/19/03 14:13	HF	110-75-8		
Chloroform	ND	ug/l	5.00	1.0	03/19/03 14:13	HF	67-66-3		
Chloromethane	ND	ug/l	10.0	1.0	03/19/03 14:13	HF	74-87-3		
Dibromochloromethane	ND	ug/l	5.00	1.0	03/19/03 14:13	HF	124-48-1		
1,1-Dichloroethane	ND	ug/l	5.00	1.0	03/19/03 14:13	HF	75-34-3		
1,2-Dichloroethane	ND	ug/l	5.00	1.0	03/19/03 14:13	HF	107-06-2		
1,1-Dichloroethene	ND	ug/l	5.00	1.0	03/19/03 14:13	HF	75-35-4		
cis-1,2-Dichloroethene	ND	ug/l	5.00	1.0	03/19/03 14:13	HF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	5.00	1.0	03/19/03 14:13	HF	156-60-5		
1,2-Dichloropropane	ND	ug/l	5.00	1.0	03/19/03 14:13	HF	78-87-5		
cis-1,3-Dichloropropene	ND	ug/l	5.00	1.0	03/19/03 14:13	HF	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/l	5.00	1.0	03/19/03 14:13	HF	10061-02-6		
Ethylbenzene	ND	ug/l	5.00	1.0	03/19/03 14:13	HF	100-41-4		
2-Hexanone	ND	ug/l	10.0	1.0	03/19/03 14:13	HF	591-78-6		
Methylene chloride	ND	ug/l	5.00	1.0	03/19/03 14:13	HF	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/l	10.0	1.0	03/19/03 14:13	HF	108-10-1		
Styrene	ND	ug/l	5.00	1.0	03/19/03 14:13	HF	100-42-5		
1,1,2,2-Tetrachloroethane	ND	ug/l	5.00	1.0	03/19/03 14:13	HF	79-34-5		
Tetrachloroethene	ND	ug/l	5.00	1.0	03/19/03 14:13	HF	127-18-4		
Toluene	ND	ug/l	5.00	1.0	03/19/03 14:13	HF	108-88-3		
1,1,1-Trichloroethane	ND	ug/l	5.00	1.0	03/19/03 14:13	HF	71-55-6		
1,1,2-Trichloroethane	ND	ug/l	5.00	1.0	03/19/03 14:13	HF	79-00-5		
Trichloroethene	ND	ug/l	5.00	1.0	03/19/03 14:13	HF	79-01-6		
Vinyl acetate	ND	ug/l	5.00	1.0	03/19/03 14:13	HF	108-05-4		
Vinyl chloride	ND	ug/l	10.0	1.0	03/19/03 14:13	HF	75-01-4		
Xylene (Total)	ND	ug/l	5.00	1.0	03/19/03 14:13	HF	1330-20-7		
m&p-Xylene	ND	ug/l	5.00	1.0	03/19/03 14:13	HF			

Date: 04/03/03

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REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
900 Gemini Avenue
Houston, TX 77058
Phone: 281.488.1810
Fax: 281.488.4661

Lab Project Number: 8532853
Client Project ID: NCL/TEL

Lab Sample No: 851795852 Project Sample Number: 8532853-015 Date Collected: 03/05/03 00:00
Client Sample ID: TRIP BLANK 2 Matrix: Water Date Received: 03/14/03 08:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	ReqLmt
o-Xylene	ND	ug/l	5.00	1.0	03/19/03 14:13	HF	95-47-6		
Toluene-d8 (S)	122	%		1.0	03/19/03 14:13	HF	2037-26-5		
4-Bromofluorobenzene (S)	115	%		1.0	03/19/03 14:13	HF	460-00-4		
1,2-Dichloroethane-d4 (S)	104	%		1.0	03/19/03 14:13	HF	17060-07-0		

Date: 04/03/03

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REPORT OF LABORATORY ANALYSIS

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**INTERIM STATUS MONITORING WELL
SAMPLING AND DATA SHEETS**

ASSESSMENT QUARTERLY REPORT

This set of data sheets is for use by all facilities with RCRA monitoring wells and should be completed by facilities in assessment. HWMR-5, Part VI, Section 265.93(d)(3)(i).

ENVIRONMENTAL DIVISION
HAZARDOUS & RADIOACTIVE MATERIALS BUREAU
P. O. BOX 26110
SANTA FE, N.M. 87502

Facility Name: Navajo Refining Company
EPA I.D. Number NMDO48918817

Well Number	MW-53	Sample Collection By	Charlie Plymale
Well Depth		Laboratory Name	Pace Analytical Services, Inc.
Date Sampled	03/11/03	Laboratory Sample I.D.	851795838
Time Sampled	09:00	Date Received By Lab	03/12/03

Parameters	Storet Code	Units	Value	Date Analyzed
Elevation of G. Water	71993	ft.	3353.49	03/11/03
Well Casing Volume	-----	gal.	1.0	03/11/03
Pump Rate	-----	Gal/min		
Pump Period	72004	min.		
Volume Evacuated	73675	gal.	3.00	03/11/03
Well Sampling Method	84077	-----	BOTUB	
Sampler Material		-----	TEFLON	N/A

Well Sampling Method:

INTERIM STATUS MONITORING WELL
SAMPLING AND DATA SHEETS

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ENVIRONMENTAL DIVISION
HAZARDOUS & RADIOACTIVE MATERIALS BUREAU
P. O. BOX 26110
SANTA FE, N.M. 87502

Facility Name: Navajo Refining Company
EPA I.D. Number NMDO48918817

Well Number	NCL-49	Sample Collection By	Charlie Plymale
Well Depth		Laboratory Name	Pace Analytical Services, Inc.
Date Sampled	03/11/03	Laboratory Sample I.D.	851795839
Time Sampled	09:50	Date Received By Lab	03/12/03

Parameters	Storet Code	Units	Value	Date Analyzed
Elevation of G. Water	71993	ft.	3351.83	03/11/03
Well Casing Volume	-----	gal.	2.3	03/11/03
Pump Rate	-----	Gal/min		
Pump Period	72004	min.		
Volume Evacuated	73675	gal.	7.00	03/11/03
Well Sampling Method	84077	-----	BOTUB	
Sampler Material		-----	TEFLON	N/A

Well Sampling Method:

INTERIM STATUS MONITORING WELL
SAMPLING AND DATA SHEETS

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ENVIRONMENTAL DIVISION
HAZARDOUS & RADIOACTIVE MATERIALS BUREAU
P. O. BOX 26110
SANTA FE, N.M. 87502

Facility Name: Navajo Refining Company
EPA I.D. Number NMDO48918817

Well Number	NCL-32	Sample Collection By	Charlie Plymale
Well Depth		Laboratory Name	Pace Analytical Services, Inc.
Date Sampled	03/11/03	Laboratory Sample I.D.	851795840
Time Sampled	10:20	Date Received By Lab	03/12/03

Parameters	Storet Code	Units	Value	Date Analyzed
Elevation of G. Water	71993	ft.	3351.96	03/11/03
Well Casing Volume	-----	gal.	1.3	03/11/03
Pump Rate	-----	gal/min		
Pump Period	72004	min.		
Volume Evacuated	73675	gal.	4.00	03/11/03
Well Sampling Method	84077	-----	BOTUB	
Sampler Material		-----	TEFLON	N/A

Well Sampling Method:

INTERIM STATUS MONITORING WELL
SAMPLING AND DATA SHEETS

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ENVIRONMENTAL DIVISION
 HAZARDOUS & RADIOACTIVE MATERIALS BUREAU
 P. O. BOX 26110
 SANTA FE, N.M. 87502

Facility Name: Navajo Refining Company
 EPA I.D. Number NMDO48918817

Well Number	NCL-44	Sample Collection By	Charlie Plymale
Well Depth		Laboratory Name	Pace Analytical Services, Inc.
Date Sampled	03/11/03	Laboratory Sample I.D.	851795841
Time Sampled	11:15	Date Received By Lab	03/12/03

Parameters	Storet Code	Units	Value	Date Analyzed
Elevation of G. Water	71993	ft.	3351.96	03/11/03
Well Casing Volume	-----	gal.	1.4	03/11/03
Pump Rate	-----	gal/min		
Pump Period	72004	min.		
Volume Evacuated	73675	gal.	5.00	03/11/03
Well Sampling Method	84077	-----	BOTUB	
Sampler Material		-----	TEFLON	N/A

Well Sampling Method:

**INTERIM STATUS MONITORING WELL
SAMPLING AND DATA SHEETS**

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ENVIRONMENTAL DIVISION
HAZARDOUS & RADIOACTIVE MATERIALS BUREAU
P. O. BOX 26110
SANTA FE, N.M. 87502

Facility Name: Navajo Refining Company
EPA I.D. Number NMDO48918817

Well Number	MW-54A	Sample Collection By	Charlie Plymale
Well Depth		Laboratory Name	Pace Analytical Services, Inc.
Date Sampled	03/11/03	Laboratory Sample I.D.	851795842
Time Sampled	13:50	Date Received By Lab	03/12/03

Parameters	Storet Code	Units	Value	Date Analyzed
Elevation of G. Water	71993	ft.	3352.04	03/11/03
Well Casing Volume	-----	gal.	2.9	03/11/03
Pump Rate	-----	gal/min		
Pump Period	72004	min.		
Volume Evacuated	73675	gal.	9.00	03/11/03
Well Sampling Method	84077	-----	BOTUB	
Sampler Material		-----	TEFLON	N/A

Well Sampling Method:

INTERIM STATUS MONITORING WELL
SAMPLING AND DATA SHEETS

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ENVIRONMENTAL DIVISION
HAZARDOUS & RADIOACTIVE MATERIALS BUREAU
P. O. BOX 26110
SANTA FE, N.M. 87502

Facility Name: Navajo Refining Company
EPA I.D. Number NMDO48918817

Well Number	MW-56	Sample Collection By	Charlie Plymale
Well Depth		Laboratory Name	Pace Analytical Services, Inc.
Date Sampled	03/11/03	Laboratory Sample I.D.	851795843
Time Sampled	14:15	Date Received By Lab	03/12/03

Parameters	Storet Code	Units	Value	Date Analyzed
Elevation of G. Water	71993	ft.	3351.40	03/11/03
Well Casing Volume	-----	gal.	2.5	03/11/03
Pump Rate	-----	gal/min		
Pump Period	72004	min.		
Volume Evacuated	73675	gal.	8.00	03/11/03
Well Sampling Method	84077	-----	BOTUB	
Sampler Material		-----	TEFLON	N/A

Well Sampling Method:

**INTERIM STATUS MONITORING WELL
SAMPLING AND DATA SHEETS**

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ENVIRONMENTAL DIVISION
HAZARDOUS & RADIOACTIVE MATERIALS BUREAU
P. O. BOX 26110
SANTA FE, N.M. 87502

Facility Name: Navajo Refining Company
EPA I.D. Number NMDO48918817

Well Number	MW-55	Sample Collection By	Charlie Plymale
Well Depth		Laboratory Name	Pace Analytical Services, Inc.
Date Sampled	03/13/03	Laboratory Sample I.D.	851795845
Time Sampled	08:10	Date Received By Lab	03/14/03

Parameters	Storet Code	Units	Value	Date Analyzed
Elevation of G. Water	71993	ft.	3351.65	03/13/03
Well Casing Volume	-----	gal.	2.3	03/13/03
Pump Rate	-----	gal/min		
Pump Period	72004	min.		
Volume Evacuated	73675	gal.	7.00	03/13/03
Well Sampling Method	84077	-----	BOTUB	
Sampler Material		-----	TEFLON	N/A

Well Sampling Method:

**INTERIM STATUS MONITORING WELL
SAMPLING AND DATA SHEETS**

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ENVIRONMENTAL DIVISION
HAZARDOUS & RADIOACTIVE MATERIALS BUREAU
P. O. BOX 26110
SANTA FE, N.M. 87502

Facility Name: Navajo Refining Company
EPA I.D. Number NMDO48918817

Well Number	NCL-33	Sample Collection By	Charlie Plymale
Well Depth		Laboratory Name	Pace Analytical Services, Inc.
Date Sampled	03/13/03	Laboratory Sample I.D.	851795846
Time Sampled	08:30	Date Received By Lab	03/14/03

Parameters	Storet Code	Units	Value	Date Analyzed
Elevation of G. Water	71993	ft.	3352.22	03/13/03
Well Casing Volume	-----	gal.	1.5	03/13/03
Pump Rate	-----	gal/min		
Pump Period	72004	min.		
Volume Evacuated	73675	gal.	5.00	03/13/03
Well Sampling Method	84077	-----	BOTUB	
Sampler Material		-----	TEFLON	N/A

Well Sampling Method:

**INTERIM STATUS MONITORING WELL
SAMPLING AND DATA SHEETS**

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ENVIRONMENTAL DIVISION
HAZARDOUS & RADIOACTIVE MATERIALS BUREAU
P. O. BOX 26110
SANTA FE, N.M. 87502

Facility Name: Navajo Refining Company
EPA I.D. Number NMDO48918817

Well Number	TEL-3	Sample Collection By	Charlie Plymale
Well Depth		Laboratory Name	Pace Analytical Services, Inc.
Date Sampled	03/13/03	Laboratory Sample I.D.	851795847
Time Sampled	10:20	Date Received By Lab	03/14/03

Parameters	Storet Code	Units	Value	Date Analyzed
Elevation of G. Water	71993	ft.	3354.35	03/13/03
Well Casing Volume	-----	gal.	3.3	03/13/03
Pump Rate	-----	gal/min		
Pump Period	72004	min.		
Volume Evacuated	73675	gal.	10.00	03/13/03
Well Sampling Method	84077	-----	BOTUB	
Sampler Material		-----	TEFLON	N/A

Well Sampling Method:

**INTERIM STATUS MONITORING WELL
SAMPLING AND DATA SHEETS**

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ENVIRONMENTAL DIVISION
HAZARDOUS & RADIOACTIVE MATERIALS BUREAU
P. O. BOX 26110
SANTA FE, N.M. 87502

Facility Name: Navajo Refining Company
EPA I.D. Number NMDO48918817

Well Number	TEL-2	Sample Collection By	Charlie Plymale
Well Depth		Laboratory Name	Pace Analytical Services, Inc.
Date Sampled	03/13/03	Laboratory Sample I.D.	851795848
Time Sampled	13:30	Date Received By Lab	03/14/03

Parameters	Storet Code	Units	Value	Date Analyzed
Elevation of G. Water	71993	ft.	3354.02	03/13/03
Well Casing Volume	-----	gal.	3.1	03/13/03
Pump Rate	-----	gal/min		
Pump Period	72004	min.		
Volume Evacuated	73675	gal.	10.00	03/13/03
Well Sampling Method	84077	-----	BOTUB	
Sampler Material		-----	TEFLON	N/A

Well Sampling Method:

**INTERIM STATUS MONITORING WELL
SAMPLING AND DATA SHEETS**

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ENVIRONMENTAL DIVISION
HAZARDOUS & RADIOACTIVE MATERIALS BUREAU
P. O. BOX 26110
SANTA FE, N.M. 87502

Facility Name: Navajo Refining Company
EPA I.D. Number NMDO48918817

Well Number	TEL-1	Sample Collection By	Charlie Plymale
Well Depth		Laboratory Name	Pace Analytical Services, Inc.
Date Sampled	03/13/03	Laboratory Sample I.D.	851795849
Time Sampled	14:00	Date Received By Lab	03/14/03

Parameters	Storet Code	Units	Value	Date Analyzed
Elevation of G. Water	71993	ft.	3354.55	03/13/03
Well Casing Volume	-----	gal.	3.3	03/13/03
Pump Rate	-----	gal/min		
Pump Period	72004	min.		
Volume Evacuated	73675	gal.	10.00	03/13/03
Well Sampling Method	84077	-----	BOTUB	
Sampler Material		-----	TEFLON	N/A

Well Sampling Method:

**INTERIM STATUS MONITORING WELL
SAMPLING AND DATA SHEETS**

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ENVIRONMENTAL DIVISION
HAZARDOUS & RADIOACTIVE MATERIALS BUREAU
P. O. BOX 26110
SANTA FE, N.M. 87502

Facility Name: Navajo Refining Company
EPA I.D. Number NMDO48918817

Well Number	TEL-4	Sample Collection By	Charlie Plymale
Well Depth		Laboratory Name	Pace Analytical Services, Inc.
Date Sampled	03/13/03	Laboratory Sample I.D.	851795850
Time Sampled	15:15	Date Received By Lab	03/14/03

Parameters	Storet Code	Units	Value	Date Analyzed
Elevation of G. Water	71993	ft.	3353.68	03/13/03
Well Casing Volume	-----	gal.	2.9	03/13/03
Pump Rate	-----	gal/min		
Pump Period	72004	min.		
Volume Evacuated	73675	gal.	9.00	03/13/03
Well Sampling Method	84077	-----	BOTUB	
Sampler Material		-----	TEFLON	N/A

Well Sampling Method:

**INTERIM STATUS MONITORING WELL
SAMPLING AND DATA SHEETS**

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ENVIRONMENTAL DIVISION
HAZARDOUS & RADIOACTIVE MATERIALS BUREAU
P. O. BOX 26110
SANTA FE, N.M. 87502

Facility Name: Navajo Refining Company
EPA I.D. Number NMDO48918817

Well Number	NCL-34	Sample Collection By	Charlie Plymale
Well Depth		Laboratory Name	Pace Analytical Services, Inc.
Date Sampled	03/13/03	Laboratory Sample I.D.	851795851
Time Sampled	08:50	Date Received By Lab	03/14/03

Parameters	Storet Code	Units	Value	Date Analyzed
Elevation of G. Water	71993	ft.	3352.08	03/13/03
Well Casing Volume	-----	gal.	1.1	03/13/03
Pump Rate	-----	gal/min		
Pump Period	72004	min.		
Volume Evacuated	73675	gal.	4.00	03/13/03
Well Sampling Method	84077	-----	BOTUB	
Sampler Material		-----	TEFLON	N/A

Well Sampling Method:

From: Jeff Byrd-505-7463311
Navajo Refining Company

Attn: Paula Cartley, PACE Analytical - fax (281) 488-4661
First Quarter 2003 Sampling Data

FIELD SAMPLING DATA NCL-TEL WELLS

WELL #	CONDUCTIVITY	TEMPERATURE	pH	ELEV. TO TOP OF CASING	GROUND WATER ELEVATION	TD	DEPTH TO H2O	DEPTH TO FLUID	THICKNESS OF PRODUCT	CORR. DEPTH TO H2O	WELL VOLUME	MINIMUM VOLUME EVACUATED
TEL 4	2650	22.3	7.48	3363.31	3353.68	27.2	9.63	9.63	0	9.63	2.9	9
TEL 3	2550	23.6	7.07	3361.45	3354.35	27.2	7.32	7.07	0.25	7.10	3.3	10
TEL 2	2490	22.4	7.19	3362.23	3354.02	27.2	8.23	8.21	0.02	8.21	3.1	10
TEL 1	2780	22.7	7.67	3361.34	3354.55	28.9	6.80	6.79	0.01	6.79	3.3	10
MW-53	2040	19.2	7.00	3367.87	3353.49	20.5	14.38	14.38	0	14.38	1.0	3
MW-55	2120	21.8	6.88	3363.97	3351.65	26.5	12.32	12.32	0	12.32	2.3	7
MW-56	3130	22.7	6.98	3362.42	3351.40	26.5	11.02	11.02	0	11.02	2.5	8
MW-54A	1650	23.9	7.25	3365.68	3352.04	31.1	13.62	13.62	0	13.62	2.9	9
NCL-49	1804	18.9	7.36	3369.87	3351.83	32.1	18.04	18.04	0	18.04	2.3	7
NCL-32	2370	21.2	7.21	3363.72	3351.96	18.8	11.76	11.76	0	11.76	1.3	4
NCL-44	1750	22.3	6.87	3363.23	3351.96	19.7	11.27	11.27	0	11.27	1.4	5
NCL-33	1810	19.8	6.73	3363.28	3352.22	20.5	11.06	11.06	0	11.06	1.5	5
NCL-34	1770	22.8	6.65	3364.74	3352.08	19.3	12.66	12.66	0	12.66	1.1	4



1726 Woodale Court Baton Rouge, Louisiana 70806

1 (800) 401-4277 FAX (225) 927-6822

American Radiation Services, Inc.

Laboratory Analysis Report

Prepared For :

Pace Analytical Services
Paula Kirtly
900 Gemini Ave.
Houston, TX 77058

Phone: 281-488-1810
FAX: 281-488-2835

A handwritten signature in black ink, appearing to read 'David D. King', is written over a horizontal line.

Quality Assurance Review

A handwritten signature in black ink, consisting of a stylized, circular loop followed by a horizontal stroke, is written over a horizontal line.

Technical Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.



1726 Wooddale Court • Baton Rouge, Louisiana 70806

1 (800) 401-4277 • Fax (225) 927-6822

Quality Assurance Report

ARS Tracking Number:

ARS-03-0514

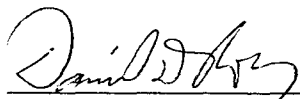
P.O. Number:

NA

Analysis Method(s):

ASTM-D 5174-97

Analysis Type	Analysis Sub-Type	Analysis I.D.	Analysis Result	Analysis Error $\pm 2 \sigma$	Analysis Units	Expected or Duplicate Value	Analysis Error $\pm 2 \sigma$	Analysis Units	% Rec.	Sample Date & Time	Analysis Tech.
T. Uranium	Blk	Blk 95	<0.04	NA	$\mu\text{g/L}$	<2.50	NA	$\mu\text{g/L}$	NA	4/1/03 1026	SM
T. Uranium	LCS	LCS 245	117.39	3.61	$\mu\text{g/L}$	108.78	27.20	$\mu\text{g/L}$	108	4/1/03 1031	SM
T. Uranium	LCSD	LCS 246	102.88	3.15	$\mu\text{g/L}$	108.78	27.20	$\mu\text{g/L}$	95	4/1/03 1034	SM


Quality Assurance Review

Notes: American Radiation Services, Inc assumes no liability for the use or interpretation of any analytical results provided other than the cost of the performed analysis itself. Reproduction of this report in less than full requires the written consent of the client.



ARS Tracking Number:	ARS030514	P.O. Number:	NA
Client I.D.:	MW-55	ARS Sample I.D.:	ARS030514-2127
Date Sampled:	3/13/03	Date Received:	3/17/03
Time Sample:	0810	Time Received:	1600
Type of Sample:	Liquid	Date of Report:	4/1/03
NELAP Certification #:	E87558	L. A. Agency Interest #:	30658

Analysis Description	Analysis Result	Analysis Error $\pm 2\sigma$	Detection Limit	Analysis Unit	Analysis Test Method	Analysis Date & Time	Analysis Technician
Total Uranium	0.02	0.0003	0.00004	mg/L	ASTM D 5174-97	4/1/03 1039	SM

David D. Boy

 Quality Assurance Review

Notes: American Radiation Services, Inc assumes no liability for the use or interpretation of any analytical results provided other than the cost of the performed analysis itself. Reproduction of this report in less than full requires the written consent of the client.



ARS Tracking Number: ARS030514 P.O. Number: NA
 Client I.D.: NCL-33 ARS Sample I.D.: ARS030514-2128
 Date Sampled: 3/13/03 Date Received: 3/17/03
 Time Sample: 0830 Time Received: 1600
 Type of Sample: Liquid Date of Report: 4/1/03
 NELAP Certification #: E87558 L. A. Agency Interest #: 30658

Analysis Description	Analysis Result	Analysis Error $\pm 2\sigma$	Detection Limit	Analysis Unit	Analysis Test Method	Analysis Date & Time	Analysis Technician
Total Uranium	0.01	0.0001	0.00004	mg/L	ASTM D 5174-97	4/1/03 1041	SM

Daniel D. King
 Quality Assurance Review

Notes: American Radiation Services, Inc assumes no liability for the use or interpretation of any analytical results provided other than the cost of the performed analysis itself. Reproduction of this report in less than full requires the written consent of the client.



ARS Tracking Number:	ARS030514	P.O. Number:	NA
Client I.D.:	TEL-3	ARS Sample I.D.:	ARS030514-2129
Date Sampled:	3/13/03	Date Received:	3/17/03
Time Sample:	1020	Time Received:	1600
Type of Sample:	Liquid	Date of Report:	4/1/03
NELAP Certification #:	E87558	L. A. Agency Interest #:	30658

Analysis Description	Analysis Result	Analysis Error $\pm 2\sigma$	Detection Limit	Analysis Unit	Analysis Test Method	Analysis Date & Time	Analysis Technician
Total Uranium	0.002	0.0001	0.00004	mg/L	ASTM D 5174-97	4/1/03 1048	SM

Demetrius D. King
 Quality Assurance Review

Notes: American Radiation Services, Inc assumes no liability for the use or interpretation of any analytical results provided other than the cost of the performed analysis itself. Reproduction of this report in less than full requires the written consent of the client.



ARS Tracking Number:	ARS030514	P.O. Number:	NA
Client I.D.:	TEL-2	ARS Sample I.D.:	ARS030514-2130
Date Sampled:	3/13/03	Date Received:	3/17/03
Time Sample:	1330	Time Received:	1600
Type of Sample:	Liquid	Date of Report:	4/1/03
NELAP Certification #:	E87558	L. A. Agency Interest #:	30658

Analysis Description	Analysis Result	Analysis Error $\pm 2\sigma$	Detection Limit	Analysis Unit	Analysis Test Method	Analysis Date & Time	Analysis Technician
Total Uranium	0.002	0.0001	0.00004	mg/L	ASTM D 5174-97	4/1/03 1058	SM

David D. Key
 Quality Assurance Review

Notes: American Radiation Services, Inc assumes no liability for the use or interpretation of any analytical results provided other than the cost of the performed analysis itself. Reproduction of this report in less than full requires the written consent of the client.



ARS Tracking Number:	ARS030514	P.O. Number:	NA
Client I.D.:	TEL-1	ARS Sample I.D.:	ARS030514-2131
Date Sampled:	3/13/03	Date Received:	3/17/03
Time Sample:	1400	Time Received:	1600
Type of Sample:	Liquid	Date of Report:	4/1/03
NELAP Certification #:	E87558	L. A. Agency Interest #:	30658

Analysis Description	Analysis Result	Analysis Error $\pm 2\sigma$	Detection Limit	Analysis Unit	Analysis Test Method	Analysis Date & Time	Analysis Technician
Total Uranium	0.002	0.0001	0.00004	mg/L	ASTM D 5174-97	4/1/03 1101	SM

David D. King
Quality Assurance Review

Notes: American Radiation Services, Inc assumes no liability for the use or interpretation of any analytical results provided other than the cost of the performed analysis itself. Reproduction of this report in less than full requires the written consent of the client.



ARS Tracking Number:	ARS030514	P.O. Number:	NA
Client I.D.:	TEL-4	ARS Sample I.D.:	ARS030514-2132
Date Sampled:	3/13/03	Date Received:	3/17/03
Time Sample:	1515	Time Received:	1600
Type of Sample:	Liquid	Date of Report:	4/1/03
NELAP Certification #:	E87558	L. A. Agency Interest #:	30658

Analysis Description	Analysis Result	Analysis Error $\pm 2\sigma$	Detection Limit	Analysis Unit	Analysis Test Method	Analysis Date & Time	Analysis Technician
Total Uranium	0.003	0.00004	0.00004	mg/L	ASTM D 5174-97	4/1/03 1104	SM

Daniel Daley
 Quality Assurance Review

Notes: American Radiation Services, Inc assumes no liability for the use or interpretation of any analytical results provided other than the cost of the performed analysis itself. Reproduction of this report in less than full requires the written consent of the client.



ARS Tracking Number:	ARS030514	P.O. Number:	NA
Client I.D.:	NCL-34	ARS Sample I.D.:	ARS030514-2133
Date Sampled:	3/13/03	Date Received:	3/17/03
Time Sample:	0850	Time Received:	1600
Type of Sample:	Liquid	Date of Report:	4/1/03
NELAP Certification #:	E87558	L. A. Agency Interest #:	30658

Analysis Description	Analysis Result	Analysis Error $\pm 2\sigma$	Detection Limit	Analysis Unit	Analysis Test Method	Analysis Date & Time	Analysis Technician
Total Uranium	0.002	0.00004	0.00004	mg/L	ASTM D 5174-97	4/1/03 1107	SM

Dennis J. [Signature]
 Quality Assurance Review

Notes: American Radiation Services, Inc assumes no liability for the use or interpretation of any analytical results provided other than the cost of the performed analysis itself. Reproduction of this report in less than full requires the written consent of the client.



Comments:

- 1.0) Soil and Sludge analysis are reported on a wet basis basis or an as received basis unless otherwise indicated.
- 2.0) The data in this report are within the limits of uncertainty specified in the reference method unless specified.
- 3.0) Modified analysis procedures are procedures that are modified to meet the certain specifications. An example may be the use of a water method to analyze a solid matrix due ti the lack of an officially recognized procedure for the analysis of the solid matix.
- 4.0) Derived Air Concentrations and Effluent Release Concentrations are obtained from 10 CFR 20 Appendix B.
- 5.0) Total activity is actually total gamma activity and is determined utilizing the prominent gamma emitters from the naturally occurring radioactive decay chains and other prominent radioactive nuclides. Total activity may be lower than the actual total activity due to the extent of secular equilibrium achieved in the various decay chains at the time of analysis. The total activity is not represenative of nuclides that emit soley alpha or beta particles.
- 6.0) Ra-228 is determined via secular equilibrium with its daughter, Actinium 228. (Gamma Spectroscopy only).
- 7.0) U-238 is determined via secular equilibrium with its daughter, Thorium 234. (Gamma Spectroscopy only).
- 8.0) All gamma spectroscopy was performed utilizing high purity germanium detectors (HPGe).

Method References:

- 1.0) EPA 600/4-80-032, Prescribed Procedures for the Measurments of Radioactivity in Drinking Water, August 1980.
- 2.0) Standard Methods for Examination of Water and Waste Water, 18th, 1992.
- 3.0) EPA SW-846, Test Methods for Evaluating Solid Waste, Third Edition, (9/86). (Updated through 1995).
- 4.0) EPA 600/4/79-020, Methods for Chemical Analysis of Water and Waste, March 1983.
- 5.0) HASL 300

Definitions:

- | | |
|-----------------------|--|
| 1.0) BDL | Analyte not detected because the value was below the detection limit. |
| 2.0) ND | Not detected above the detection limit. |
| 3.0) Dectection Limit | The minimum amount of the analyte that ARS can detect utilizing the specific analysis. |
| 4.0) B | Method Bank |
| 5.0) D | Method Duplicate |
| 6.0) MS | Matrix Spike |
| 7.0) S | Spike |
| 8.0) RS | Reference Spike |
| 9.0) *SC | Subcontracted out to another qualified laboratory |
| 10.0) NR | Not Referenced |
| 11.0) N/A | Not Applicable |

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

SUBCONTRACT CHAIN OF CUSTODY



900 Gemini
Houston, TX 77058
Phone: 281-488-1810 Fax: 281-488-2835

CHAIN-OF-CUSTODY RECORD Analytical Request

EPN: 8532853
Project Manager: Paula Kirtley

HARD COPY DUE:

Sub Lab: ARS
Contact: Danny Coleman
Address: 1726 Wood Dale Ct.
Baton Rouge, La 70806

Phone #: 800-401-4277

Send Report to: Pace Analytical
900 Gemini Ave.
Houston, TX 77058
Fax #: 281-488-2835
Attention: Data Reporting Department

**MAIL INVOICE AND
REPORT TOGETHER**

ITEM NO.	CLIENT SAMPLE ID	PACE SAMPLE NO.	DATE	TIME	MATRIX	# OF CONT	PRESERVATIVES							ANALYSES REQUESTED							Remarks															
							Unpreserved	H2SO4	HNO3	Na OH	Voa w/ HCL	HCL	Na2S2O3	Uranium																						
1	MW-55	851785845	3/13/03	810	H2O	1		1																												
2	NCL-33	851785846	3/13/03	830	H2O	1		1																												
3	TEL-3	851785847	3/13/03	1020	H2O	1		1																												
4	TEL-2	851785848	3/13/03	1330	H2O	1		1																												
5	TEL-1	851785849	3/13/03	1400	H2O	1		1																												
6	TEL-4	851785850	3/13/03	1515	H2O	1		1																												
7	NCL-34	851785851	3/13/03	850	H2O	1		1																												
8																																				

ADDITIONAL COMMENTS	RELINQUISHED BY		ACCEPTED BY / AFFIL		DATE	TIME
	Signature	Date	Signature	Date	DATE	TIME
OS		3/17		3/17	3/17/03	16:00

Cooler Temperatures



1726 Woodale Court Baton Rouge, Louisiana 70806

1 (800) 401-4277 FAX (225) 927-6822

American Radiation Services, Inc.

Laboratory Analysis Report

Prepared For :

Pace Analytical Services
Paula Kirtly
900 Gemini Ave.
Houston, TX 77058

Phone: 281-488-1810
FAX: 281-488-2835

A handwritten signature in cursive script, appearing to read 'Daniel D. Stuy', is written over a horizontal line.

Quality Assurance Review

A handwritten signature in cursive script is written over a horizontal line.

Technical Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.



ARS Tracking Number:	ARS030498	P.O. Number:	EPN: 8532853
Client I.D.:	MW-53	ARS Sample I.D.:	ARS030498-2080
Date Sampled:	11-Mar	Date Received:	3/13/03
Time Sample:	0900	Time Received:	1500
Type of Sample:	Liquid	Date of Report:	3/31/03
NELAP Certification #:	E87558	L. A. Agency Interest #:	30658

Analysis Description	Analysis Result	Analysis Error $\pm 2\sigma$	Detection Limit	Analysis Unit	Analysis Test Method	Analysis Date & Time	Analysis Technician
Total Uranium	0.005	0.00008	0.00004	$\mu\text{g/L}$	ASTM D 5147-97	3/27/03 1312	SM

Daniel D. Long
 Quality Assurance Review

Notes: American Radiation Services, Inc assumes no liability for the use or interpretation of any analytical results provided other than the cost of the performed analysis itself. Reproduction of this report in less than full requires the written consent of the client.



ARS Tracking Number:	ARS030498	P.O. Number:	EPN: 8532853
Client I.D.:	NCL-49	ARS Sample I.D.:	ARS030498-2081
Date Sampled:	11-Mar	Date Received:	3/13/03
Time Sample:	0950	Time Received:	1500
Type of Sample:	Liquid	Date of Report:	3/31/03
NELAP Certification #:	E87558	L. A. Agency Interest #:	30658

Analysis Description	Analysis Result	Analysis Error $\pm 2\sigma$	Detection Limit	Analysis Unit	Analysis Test Method	Analysis Date & Time	Analysis Technician
Total Uranium	0.009	0.0001	0.00004	$\mu\text{g/L}$	ASTM D 5147-97	3/27/03 1315	SM

Daniel J. [Signature]
 Quality Assurance Review

Notes: American Radiation Services, Inc assumes no liability for the use or interpretation of any analytical results provided other than the cost of the performed analysis itself. Reproduction of this report in less than full requires the written consent of the client.



ARS Tracking Number:	ARS030498	P.O. Number:	EPN: 8532853
Client I.D.:	NCL-32	ARS Sample I.D.:	ARS030498-2082
Date Sampled:	11-Mar	Date Received:	3/13/03
Time Sample:	1020	Time Received:	1500
Type of Sample:	Liquid	Date of Report:	3/31/03
NELAP Certification #:	E87558	L. A. Agency Interest #:	30658

Analysis Description	Analysis Result	Analysis Error $\pm 2\sigma$	Detection Limit	Analysis Unit	Analysis Test Method	Analysis Date & Time	Analysis Technician
Total Uranium	0.008	0.0001	0.00004	$\mu\text{g/L}$	ASTM D 5147-97	3/27/03 1318	SM

Daniel D. [Signature]
 Quality Assurance Review

Notes: American Radiation Services, Inc assumes no liability for the use or interpretation of any analytical results provided other than the cost of the performed analysis itself. Reproduction of this report in less than full requires the written consent of the client.



ARS Tracking Number:	ARS030498	P.O. Number:	EPN: 8532853
Client I.D.:	NCL-44	ARS Sample I.D.:	ARS030498-2083
Date Sampled:	11-Mar	Date Received:	3/13/03
Time Sample:	1115	Time Received:	1500
Type of Sample:	Liquid	Date of Report:	3/31/03
NELAP Certification #:	E87558	L. A. Agency Interest #:	30658

Analysis Description	Analysis Result	Analysis Error $\pm 2\sigma$	Detection Limit	Analysis Unit	Analysis Test Method	Analysis Date & Time	Analysis Technician
Total Uranium	0.004	0.00006	0.00004	$\mu\text{g/L}$	ASTM D 5147-97	3/27/03 1321	SM

David D. Key
Quality Assurance Review

Notes: American Radiation Services, Inc assumes no liability for the use or interpretation of any analytical results provided other than the cost of the performed analysis itself. Reproduction of this report in less than full requires the written consent of the client.



ARS Tracking Number:	ARS030498	P.O. Number:	EPN: 8532853
Client I.D.:	MW-54A	ARS Sample I.D.:	ARS030498-2084
Date Sampled:	11-Mar	Date Received:	3/13/03
Time Sample:	1350	Time Received:	1500
Type of Sample:	Liquid	Date of Report:	3/31/03
NELAP Certification #:	E87558	L. A. Agency Interest #:	30658

Analysis Description	Analysis Result	Analysis Error $\pm 2 \sigma$	Detection Limit	Analysis Unit	Analysis Test Method	Analysis Date & Time	Analysis Technician
Total Uranium	0.007	0.0001	0.00004	$\mu\text{g/L}$	ASTM D 5147-97	3/27/03 1333	SM

David [Signature]
 Quality Assurance Review

Notes: American Radiation Services, Inc assumes no liability for the use or interpretation of any analytical results provided other than the cost of the performed analysis itself. Reproduction of this report in less than full requires the written consent of the client.



ARS Tracking Number:	ARS030498	P.O. Number:	EPN: 8532853
Client I.D.:	MW-56	ARS Sample I.D.:	ARS030498-2085
Date Sampled:	11-Mar	Date Received:	3/13/03
Time Sample:	1415	Time Received:	1500
Type of Sample:	Liquid	Date of Report:	3/31/03
NELAP Certification #:	E87558	L. A. Agency Interest #:	30658

Analysis Description	Analysis Result	Analysis Error $\pm 2\sigma$	Detection Limit	Analysis Unit	Analysis Test Method	Analysis Date & Time	Analysis Technician
Total Uranium	0.023	0.0003	0.00004	$\mu\text{g/L}$	ASTM D 5147-97	3/27/03 1337	SM

Daniel D. King
 Quality Assurance Review

Notes: American Radiation Services, Inc assumes no liability for the use or interpretation of any analytical results provided other than the cost of the performed analysis itself. Reproduction of this report in less than full requires the written consent of the client.

Comments:

- 1.0) Soil and Sludge analysis are reported on a wet basis basis or an as received basis unless otherwise indicated.
- 2.0) The data in this report are within the limits of uncertainty specified in the reference method unless specified.
- 3.0) Modified analysis procedures are procedures that are modified to meet the certain specifications. An example may be the use of a water method to analyze a solid matrix due ti the lack of an officially recognized procedure for the analysis of the solid matix.
- 4.0) Derived Air Concentrations and Effluent Release Concentrations are obtained from 10 CFR 20 Appendix B.
- 5.0) Total activity is actually total gamma activity and is determined utilizing the prominent gamma emitters from the naturally occurring radioactive decay chains and other prominent radioactive nuclides. Total activity may be lower than the actual total activity due to the extent of secular equilibrium achieved in the various decay chains at the time of analysis. The total activity is not represenative of nuclides that emit soley alpha or beta particles.
- 6.0) Ra-228 is determined via secular equilibrium with its daughter, Actinium 228. (Gamma Spectroscopy only).
- 7.0) U-238 is determined via secular equilibrium with its daughter, Thorium 234. (Gamma Spectroscopy only).
- 8.0) All gamma spectroscopy was performed utilizing high purity germanium detectors (HPGe).

Method References:

- 1.0) EPA 600/4-80-032, Prescribed Procedures for the Measurments of Radioactivity in Drinking Water, August 1980.
- 2.0) Standard Methods for Examination of Water and Waste Water, 18th, 1992.
- 3.0) EPA SW-846, Test Methods for Evaluating Solid Waste, Third Edition, (9/86). (Updated through 1995).
- 4.0) EPA 600/4/79-020, Methods for Chemical Analysis of Water and Waste, March 1983.
- 5.0) HASL 300

Definitions:

- | | |
|-----------------------|--|
| 1.0) BDL | Analyte not detected because the value was below the detection limit. |
| 2.0) ND | Not detected above the detection limit. |
| 3.0) Dectection Limit | The minimum amount of the analyte that ARS can detect utilizing the specific analysis. |
| 4.0) B | Method Bank |
| 5.0) D | Method Duplicate |
| 6.0) MS | Matrix Spike |
| 7.0) S | Spike |
| 8.0) RS | Reference Spike |
| 9.0) *SC | Subcontracted out to another qualified laboratory |
| 10.0) NR | Not Referenced |
| 11.0) N/A | Not Applicable |

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

SUBCONTRACT CHAIN OF CUSTODY



900 Gemini
Houston, TX 77058
Phone: 281-488-1810 Fax: 281-488-2835

CHAIN-OF-CUSTODY RECORD
Analytical Request

EPN: 8532853
Project Manager: Paula Kirtley

HARD COPY DUE: 3/24/03

Sub Lab: ARS
Contact: Danny Coleman
Address: 1726 Wood Dale Ct.
Baton Rouge, La 70806
Phone #: 800-401-4277

Send Report to: Pace Analytical
900 Gemini Ave.
Houston, TX 77058
Fax #: 281-488-2835
Attention: Data Reporting Department

MAIL INVOICE AND
REPORT TOGETHER

ITEM NO.	CLIENT SAMPLE ID	PACE SAMPLE NO.	DATE	TIME	MATRIX	# OF CONT	PRESERVATIVES							ANALYSES REQUESTED	Remarks
							H2SO4	HNO3	Na OH	Vol w/ HCL	HCL	Na2S2O3	Uranium		
1	MW-53	851785838	11-Mar	900	H2O	1	1	1				X			
2	NCL-49	851785839	11-Mar	950	H2O	1	1	1				X			
3	NCL-32	851785840	11-Mar	1020	H2O	1	1	1				X			
4	NCL-44	851785841	11-Mar	1115	H2O	1	1	1				X			
5	MW-54 <i>30493</i>	851785842	11-Mar	1350	H2O	1	1	1				X			
6	MW586	851785843	11-Mar	1415	H2O	1	1	1				X			
7															
8															

ADDITIONAL COMMENTS	RELINQUISHED BY	Date	Time	ACCEPTED BY	DATE	TIME
	S. B. Williams	3/13/03	1100	Paula Kirtley	3/13/03	1500

Cooler Temperature:

PARAMETER FOOTNOTES

Dilution factor shown represents the factor applied to the reported result and reporting limit due to changes in sample preparation, dilution of the extract, or moisture content

- ND Not detected at or above adjusted reporting limit
- NC Not Calculable
- J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
- MDL Adjusted Method Detection Limit
- (S) Surrogate
- [1] J-FLAG

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.



Pace Analytical Services, Inc.
 900 Gemini Avenue
 Houston, TX 77058
 Phone: 281.488.1810
 Fax: 281.488.4661

QUALITY CONTROL DATA

Lab Project Number: 8532853
 Client Project ID: NCL/TEL

QC Batch: 80863	Analysis Method: EPA 8270				
QC Batch Method: EPA 3510	Analysis Description: SW8270 Semivolatiles, Water				
Associated Lab Samples:	851795838	851795839	851795840	851795841	851795842
	851795843				

METHOD BLANK: 851797726					
Associated Lab Samples:	851795838	851795839	851795840	851795841	851795842
				851795843	

Parameter	Units	Blank	Reporting	Footnotes
		Result	Limit	
Acenaphthene	ug/l	ND	10.0	
Acenaphthylene	ug/l	ND	10.0	
Aniline	ug/l	ND	10.0	
Anthracene	ug/l	ND	10.0	
Benzidine	ug/l	ND	10.0	
Benzo(a)anthracene	ug/l	ND	10.0	
Benzo(a)pyrene	ug/l	ND	10.0	
Benzo(b)fluoranthene	ug/l	ND	10.0	
Benzo(g,h,i)perylene	ug/l	ND	10.0	
Benzo(k)fluoranthene	ug/l	ND	10.0	
Benzoic acid	ug/l	ND	25.0	
Benzyl alcohol	ug/l	ND	10.0	
4-Bromophenylphenyl ether	ug/l	ND	10.0	
Butylbenzylphthalate	ug/l	ND	10.0	
4-Chloro-3-methylphenol	ug/l	ND	10.0	
4-Chloroaniline	ug/l	ND	10.0	
bis(2-Chloroethoxy)methane	ug/l	ND	10.0	
bis(2-Chloroethyl) ether	ug/l	ND	10.0	
bis(2-Chloroisopropyl) ether	ug/l	ND	10.0	
2-Chloronaphthalene	ug/l	ND	10.0	
2-Chlorophenol	ug/l	ND	10.0	
4-Chlorophenylphenyl ether	ug/l	ND	10.0	
Chrysene	ug/l	ND	10.0	
Dibenz(a,h)anthracene	ug/l	ND	10.0	
Dibenzofuran	ug/l	ND	10.0	
1,2-Dichlorobenzene	ug/l	ND	10.0	
1,3-Dichlorobenzene	ug/l	ND	10.0	
1,4-Dichlorobenzene	ug/l	ND	10.0	
3,3'-Dichlorobenzidine	ug/l	ND	10.0	
2,4-Dichlorophenol	ug/l	ND	10.0	

Date: 04/03/03

Page: 58 of 82

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
 900 Gemini Avenue
 Houston, TX 77058
 Phone: 281.488.1810
 Fax: 281.488.4661

QUALITY CONTROL DATA

Lab Project Number: 8532853
 Client Project ID: NCL/TEL

METHOD BLANK: 851797726

Associated Lab Samples: 851795838 851795839 851795840 851795841 851795842 851795843

<u>Parameter</u>	<u>Units</u>	<u>Blank Result</u>	<u>Reporting Limit</u>	<u>Footnotes</u>
Diethylphthalate	ug/l	ND	10.0	
2,4-Dimethylphenol	ug/l	ND	10.0	
Dimethylphthalate	ug/l	ND	10.0	
Di-n-butylphthalate	ug/l	ND	10.0	
4,6-Dinitro-2-methylphenol	ug/l	ND	10.0	
2,4-Dinitrophenol	ug/l	ND	10.0	
2,4-Dinitrotoluene	ug/l	ND	10.0	
2,6-Dinitrotoluene	ug/l	ND	10.0	
Di-n-octylphthalate	ug/l	ND	10.0	
bis(2-Ethylhexyl)phthalate	ug/l	ND	10.0	
Fluoranthene	ug/l	ND	10.0	
Fluorene	ug/l	ND	10.0	
Hexachloro-1,3-butadiene	ug/l	ND	10.0	
Hexachlorobenzene	ug/l	ND	10.0	
Hexachlorocyclopentadiene	ug/l	ND	10.0	
Hexachloroethane	ug/l	ND	10.0	
Indeno(1,2,3-cd)pyrene	ug/l	ND	10.0	
Isophorone	ug/l	ND	10.0	
2-Methylnaphthalene	ug/l	ND	10.0	
2-Methylphenol (o-Cresol)	ug/l	ND	10.0	
3&4-Methylphenol	ug/l	ND	10.0	
Naphthalene	ug/l	ND	10.0	
2-Nitroaniline	ug/l	ND	10.0	
3-Nitroaniline	ug/l	ND	10.0	
4-Nitroaniline	ug/l	ND	10.0	
Nitrobenzene	ug/l	ND	10.0	
2-Nitrophenol	ug/l	ND	10.0	
4-Nitrophenol	ug/l	ND	10.0	
N-Nitrosodimethylamine	ug/l	ND	10.0	
N-Nitroso-di-n-propylamine	ug/l	ND	10.0	
N-Nitrosodiphenylamine	ug/l	ND	10.0	
Pentachlorophenol	ug/l	ND	10.0	
Phenanthrene	ug/l	ND	10.0	
Phenol	ug/l	ND	10.0	
Pyrene	ug/l	ND	10.0	
1,2,4-Trichlorobenzene	ug/l	ND	10.0	

Date: 04/03/03

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Lab Project Number: 8532853
Client Project ID: NCL/TEL

METHOD BLANK: 851797726

Associated Lab Samples: 851795838 851795839 851795840 851795841 851795842 851795843

Parameter	Units	Blank Result	Reporting Limit	Footnotes
2,4,5-Trichlorophenol	ug/l	ND	10.0	
2,4,6-Trichlorophenol	ug/l	ND	10.0	
Nitrobenzene-d5 (S)	%	50		
2-Fluorobiphenyl (S)	%	50		
Terphenyl-d14 (S)	%	72		
Phenol-d5 (S)	%	25		
2-Fluorophenol (S)	%	36		
2,4,6-Tribromophenol (S)	%	43		

LABORATORY CONTROL SAMPLE & LCSD: 851797727 851797728

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	RPD	Footnotes
Acenaphthene	ug/l	20.00	11.49	12.68	57	63	10	
Acenaphthylene	ug/l	20.00	9.035	9.629	45	48	6	
Anthracene	ug/l	20.00	12.41	12.73	62	64	3	
Benzo(a)anthracene	ug/l	20.00	13.59	14.07	68	70	3	
Benzo(a)pyrene	ug/l	20.00	12.90	13.23	64	66	3	
Benzo(b)fluoranthene	ug/l	20.00	13.11	13.50	66	68	3	
Benzo(g,h,i)perylene	ug/l	20.00	13.90	14.48	70	72	4	
Benzo(k)fluoranthene	ug/l	20.00	16.37	16.70	82	84	2	
4-Bromophenylphenyl ether	ug/l	20.00	12.63	13.46	63	67	6	
Butylbenzylphthalate	ug/l	20.00	16.85	16.53	84	83	2	
4-Chloro-3-methylphenol	ug/l	20.00	11.77	12.01	59	60	2	
4-Chloroaniline	ug/l	20.00	10.95	11.15	55	56	2	
bis(2-Chloroethoxy)methane	ug/l	20.00	12.50	12.58	62	63	1	
bis(2-Chloroethyl) ether	ug/l	20.00	12.43	12.45	62	62	0	
2-Chloronaphthalene	ug/l	20.00	10.88	12.05	54	60	10	
2-Chlorophenol	ug/l	20.00	11.99	11.91	60	60	1	
4-Chlorophenylphenyl ether	ug/l	20.00	10.73	11.66	54	58	8	
Chrysene	ug/l	20.00	13.39	13.68	67	68	2	
Dibenz(a,h)anthracene	ug/l	20.00	11.93	12.64	60	63	6	
Dibenzofuran	ug/l	20.00	11.07	11.91	55	60	7	
1,2-Dichlorobenzene	ug/l	20.00	10.77	11.70	54	58	8	
1,3-Dichlorobenzene	ug/l	20.00	10.56	11.31	53	57	7	

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QUALITY CONTROL DATA

Lab Project Number: 8532853
Client Project ID: NCL/TEL

LABORATORY CONTROL SAMPLE & LCSD: 851797727 851797728

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	RPD	Footnotes
1,4-Dichlorobenzene	ug/l	20.00	10.85	11.63	54	58	7	
3,3'-Dichlorobenzidine	ug/l	20.00	10.59	10.95	53	55	3	
2,4-Dichlorophenol	ug/l	20.00	12.24	12.62	61	63	3	
Diethylphthalate	ug/l	20.00	13.04	13.67	65	68	5	
2,4-Dimethylphenol	ug/l	20.00	9.757	9.760	49	49	0	
Dimethylphthalate	ug/l	20.00	13.36	13.85	67	69	4	
Di-n-butylphthalate	ug/l	20.00	14.05	14.65	70	73	4	
4,6-Dinitro-2-methylphenol	ug/l	20.00	13.34	13.54	67	68	1	
2,4-Dinitrophenol	ug/l	20.00	9.904	9.703	50	48	2	
2,4-Dinitrotoluene	ug/l	20.00	13.42	13.89	67	69	3	
2,6-Dinitrotoluene	ug/l	20.00	12.52	13.21	63	66	5	
Di-n-octylphthalate	ug/l	20.00	16.55	17.62	83	88	6	
bis(2-Ethylhexyl)phthalate	ug/l	20.00	15.76	16.73	79	84	6	
Fluoranthene	ug/l	20.00	13.42	14.05	67	70	5	
Fluorene	ug/l	20.00	11.02	11.74	55	59	6	
Hexachloro-1,3-butadiene	ug/l	20.00	8.413	10.12	42	51	18	
Hexachlorobenzene	ug/l	20.00	12.73	13.05	64	65	2	
Hexachlorocyclopentadiene	ug/l	20.00	1.792	2.128	9	11	17	
Hexachloroethane	ug/l	20.00	8.820	10.13	44	51	14	
Indeno(1,2,3-cd)pyrene	ug/l	20.00	12.67	13.27	63	66	5	
Isophorone	ug/l	20.00	9.511	9.744	48	49	2	
2-Methylnaphthalene	ug/l	20.00	10.47	11.78	52	59	12	
2-Methylphenol (o-Cresol)	ug/l	20.00	10.47	10.19	52	51	3	
3&4-Methylphenol	ug/l	20.00	9.291	8.883	46	44	4	
Naphthalene	ug/l	20.00	11.12	12.18	56	61	9	
2-Nitroaniline	ug/l	20.00	11.60	12.10	58	60	4	
3-Nitroaniline	ug/l	20.00	12.80	12.89	64	64	1	
4-Nitroaniline	ug/l	20.00	13.18	13.27	66	66	1	
Nitrobenzene	ug/l	20.00	11.30	11.61	56	58	3	
2-Nitrophenol	ug/l	20.00	12.39	13.13	62	66	6	
4-Nitrophenol	ug/l	20.00	4.603	3.989	23	20	14	
N-Nitroso-di-n-propylamine	ug/l	20.00	10.83	11.16	54	56	3	
N-Nitrosodiphenylamine	ug/l	20.00	13.38	13.37	67	67	0	
Pentachlorophenol	ug/l	20.00	9.815	9.838	49	49	0	
Phenanthrene	ug/l	20.00	13.58	14.31	68	72	5	
Phenol	ug/l	20.00	5.549	5.151	28	26	7	
Pyrene	ug/l	20.00	14.17	14.74	71	74	4	

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QUALITY CONTROL DATA

Lab Project Number: 8532853
 Client Project ID: NCL/TEL

LABORATORY CONTROL SAMPLE & LCSD: 851797727 851797728

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	RPD	Footnotes
1,2,4-Trichlorobenzene	ug/l	20.00	9.935	11.25	50	56	12	
2,4,5-Trichlorophenol	ug/l	20.00	12.49	12.64	62	63	1	
2,4,6-Trichlorophenol	ug/l	20.00	11.59	12.28	58	61	6	
Nitrobenzene-d5 (S)					56	56		
2-Fluorobiphenyl (S)					55	57		
Terphenyl-d14 (S)					71	72		
Phenol-d5 (S)					27	25		
2-Fluorophenol (S)					41	39		
2,4,6-Tribromophenol (S)					59	60		

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QUALITY CONTROL DATA

Lab Project Number: 8532853
Client Project ID: NCL/TEL

QC Batch: 80935 Analysis Method: EPA 8270
QC Batch Method: EPA 3510 Analysis Description: SW8270 Semivolatiles, Water
Associated Lab Samples: 851795845 851795846 851795847 851795848 851795849 851795850 851795851

METHOD BLANK: 851797947
Associated Lab Samples: 851795845 851795846 851795847 851795848 851795849 851795850 851795851

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Acenaphthene	ug/l	ND	10.0	
Acenaphthylene	ug/l	ND	10.0	
Aniline	ug/l	ND	10.0	
Anthracene	ug/l	ND	10.0	
Benzydine	ug/l	ND	10.0	
Benzo(a)anthracene	ug/l	ND	10.0	
Benzo(a)pyrene	ug/l	ND	10.0	
Benzo(b)fluoranthene	ug/l	ND	10.0	
Benzo(g,h,i)perylene	ug/l	ND	10.0	
Benzo(k)fluoranthene	ug/l	ND	10.0	
Benzoic acid	ug/l	ND	25.0	
Benzyl alcohol	ug/l	ND	10.0	
4-Bromophenylphenyl ether	ug/l	ND	10.0	
Butylbenzylphthalate	ug/l	ND	10.0	
4-Chloro-3-methylphenol	ug/l	ND	10.0	
4-Chloroaniline	ug/l	ND	10.0	
bis(2-Chloroethoxy)methane	ug/l	ND	10.0	
bis(2-Chloroethyl) ether	ug/l	ND	10.0	
bis(2-Chloroisopropyl) ether	ug/l	ND	10.0	
2-Chloronaphthalene	ug/l	ND	10.0	
2-Chlorophenol	ug/l	ND	10.0	
4-Chlorophenylphenyl ether	ug/l	ND	10.0	
Chrysene	ug/l	ND	10.0	
Dibenz(a,h)anthracene	ug/l	ND	10.0	
Dibenzofuran	ug/l	ND	10.0	
1,2-Dichlorobenzene	ug/l	ND	10.0	
1,3-Dichlorobenzene	ug/l	ND	10.0	
1,4-Dichlorobenzene	ug/l	ND	10.0	
3,3'-Dichlorobenzidine	ug/l	ND	10.0	
2,4-Dichlorophenol	ug/l	ND	10.0	

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QUALITY CONTROL DATA

Lab Project Number: 8532853
Client Project ID: NCL/TEL

METHOD BLANK: 851797947

Associated Lab Samples: 851795845 851795846 851795847 851795848 851795849 851795850 851795851

<u>Parameter</u>	<u>Units</u>	<u>Blank Result</u>	<u>Reporting Limit</u>	<u>Footnotes</u>
Diethylphthalate	ug/l	ND	10.0	
2,4-Dimethylphenol	ug/l	ND	10.0	
Dimethylphthalate	ug/l	ND	10.0	
Di-n-butylphthalate	ug/l	ND	10.0	
4,6-Dinitro-2-methylphenol	ug/l	ND	10.0	
2,4-Dinitrophenol	ug/l	ND	10.0	
2,4-Dinitrotoluene	ug/l	ND	10.0	
2,6-Dinitrotoluene	ug/l	ND	10.0	
Di-n-octylphthalate	ug/l	ND	10.0	
bis(2-Ethylhexyl)phthalate	ug/l	ND	10.0	
Fluoranthene	ug/l	ND	10.0	
Fluorene	ug/l	ND	10.0	
Hexachloro-1,3-butadiene	ug/l	ND	10.0	
Hexachlorobenzene	ug/l	ND	10.0	
Hexachlorocyclopentadiene	ug/l	ND	10.0	
Hexachloroethane	ug/l	ND	10.0	
Indeno(1,2,3-cd)pyrene	ug/l	ND	10.0	
Isophorone	ug/l	ND	10.0	
2-Methylnaphthalene	ug/l	ND	10.0	
2-Methylphenol (o-Cresol)	ug/l	ND	10.0	
3&4-Methylphenol	ug/l	ND	10.0	
Naphthalene	ug/l	ND	10.0	
2-Nitroaniline	ug/l	ND	10.0	
3-Nitroaniline	ug/l	ND	10.0	
4-Nitroaniline	ug/l	ND	10.0	
Nitrobenzene	ug/l	ND	10.0	
2-Nitrophenol	ug/l	ND	10.0	
4-Nitrophenol	ug/l	ND	10.0	
N-Nitrosodimethylamine	ug/l	ND	10.0	
N-Nitroso-di-n-propylamine	ug/l	ND	10.0	
N-Nitrosodiphenylamine	ug/l	ND	10.0	
Pentachlorophenol	ug/l	ND	10.0	
Phenanthrene	ug/l	ND	10.0	
Phenol	ug/l	ND	10.0	
Pyrene	ug/l	ND	10.0	
1,2,4-Trichlorobenzene	ug/l	ND	10.0	

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QUALITY CONTROL DATA

Lab Project Number: 8532853
Client Project ID: NCL/TEL

METHOD BLANK: 851797947

Associated Lab Samples: 851795845 851795846 851795847 851795848 851795849 851795850 851795851

Parameter	Units	Blank	Reporting	Footnotes
		Result	Limit	
2,4,5-Trichlorophenol	ug/l	ND	10.0	
2,4,6-Trichlorophenol	ug/l	ND	10.0	
Nitrobenzene-d5 (S)	%	56		
2-Fluorobiphenyl (S)	%	53		
Terphenyl-d14 (S)	%	77		
Phenol-d5 (S)	%	50		
2-Fluorophenol (S)	%	57		
2,4,6-Tribromophenol (S)	%	51		

LABORATORY CONTROL SAMPLE & LCSD: 851797948 851797949

Parameter	Units	Spike	LCS	LCSD	LCS	LCSD	RPD	Footnotes
		Conc.	Result	Result	% Rec	% Rec		
Acenaphthene	ug/l	20.00	12.89	11.45	64	57	12	
Acenaphthylene	ug/l	20.00	10.24	9.083	51	45	12	
Anthracene	ug/l	20.00	12.74	12.87	64	64	1	
Benzo(a)anthracene	ug/l	20.00	13.98	14.43	70	72	3	
Benzo(a)pyrene	ug/l	20.00	13.23	13.73	66	69	4	
Benzo(b)fluoranthene	ug/l	20.00	13.77	14.08	69	70	2	
Benzo(g,h,i)perylene	ug/l	20.00	12.46	12.97	62	65	4	
Benzo(k)fluoranthene	ug/l	20.00	15.95	16.67	80	83	4	
4-Bromophenylphenyl ether	ug/l	20.00	13.29	12.88	66	64	3	
Butylbenzylphthalate	ug/l	20.00	16.40	16.76	82	84	2	
4-Chloro-3-methylphenol	ug/l	20.00	13.17	12.16	66	61	8	
4-Chloroaniline	ug/l	20.00	12.33	10.92	62	55	12	
bis(2-Chloroethoxy)methane	ug/l	20.00	14.45	12.09	72	60	18	
bis(2-Chloroethyl) ether	ug/l	20.00	14.81	12.65	74	63	16	
2-Chloronaphthalene	ug/l	20.00	12.38	10.71	62	54	14	
2-Chlorophenol	ug/l	20.00	14.67	12.11	73	60	19	
4-Chlorophenylphenyl ether	ug/l	20.00	11.70	10.89	58	54	7	
Chrysene	ug/l	20.00	13.19	13.57	66	68	3	
Dibenz(a,h)anthracene	ug/l	20.00	10.67	11.13	53	56	4	
Dibenzofuran	ug/l	20.00	12.28	11.17	61	56	9	
1,2-Dichlorobenzene	ug/l	20.00	12.19	10.23	61	51	17	
1,3-Dichlorobenzene	ug/l	20.00	11.70	9.982	58	50	16	

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QUALITY CONTROL DATA

Lab Project Number: 8532853

Client Project ID: NCL/TEL

LABORATORY CONTROL SAMPLE & LCSD: 851797948 851797949

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	RPD	Footnotes
1,4-Dichlorobenzene	ug/l	20.00	11.76	10.25	59	51	14	
3,3'-Dichlorobenzidine	ug/l	20.00	10.34	10.78	52	54	4	
2,4-Dichlorophenol	ug/l	20.00	14.30	12.06	72	60	17	
Diethylphthalate	ug/l	20.00	13.89	13.64	69	68	2	
2,4-Dimethylphenol	ug/l	20.00	12.80	11.00	64	55	15	
Dimethylphthalate	ug/l	20.00	14.20	13.73	71	69	3	
Di-n-butylphthalate	ug/l	20.00	13.96	14.40	70	72	3	
4,6-Dinitro-2-methylphenol	ug/l	20.00	8.620	9.458	43	47	9	
2,4-Dinitrophenol	ug/l	20.00	3.847	3.095	19	16	22	
2,4-Dinitrotoluene	ug/l	20.00	14.02	13.68	70	68	2	
2,6-Dinitrotoluene	ug/l	20.00	13.35	13.02	67	65	3	
Di-n-octylphthalate	ug/l	20.00	18.05	18.66	90	93	3	
bis(2-Ethylhexyl)phthalate	ug/l	20.00	16.41	16.82	82	84	2	
Fluoranthene	ug/l	20.00	13.70	13.97	68	70	2	
Fluorene	ug/l	20.00	11.88	11.25	59	56	5	
Hexachloro-1,3-butadiene	ug/l	20.00	9.280	7.735	46	39	18	
Hexachlorobenzene	ug/l	20.00	13.09	13.40	65	67	2	
Hexachlorocyclopentadiene	ug/l	20.00	2.036	1.731	10	9	16	
Hexachloroethane	ug/l	20.00	9.763	8.257	49	41	17	
Indeno(1,2,3-cd)pyrene	ug/l	20.00	11.60	12.03	58	60	4	
Isophorone	ug/l	20.00	10.87	9.367	54	47	15	
2-Methylnaphthalene	ug/l	20.00	12.00	10.46	60	52	14	
2-Methylphenol (o-Cresol)	ug/l	20.00	13.55	11.40	68	57	17	
3&4-Methylphenol	ug/l	20.00	12.56	10.86	63	54	15	
Naphthalene	ug/l	20.00	13.06	11.23	65	56	15	
2-Nitroaniline	ug/l	20.00	12.77	12.24	64	61	4	
3-Nitroaniline	ug/l	20.00	13.20	13.06	66	65	1	
4-Nitroaniline	ug/l	20.00	13.65	14.05	68	70	3	
Nitrobenzene	ug/l	20.00	13.24	11.24	66	56	16	
2-Nitrophenol	ug/l	20.00	14.72	12.43	74	62	17	
4-Nitrophenol	ug/l	20.00	7.457	8.274	37	41	10	
N-Nitroso-di-n-propylamine	ug/l	20.00	12.43	10.76	62	54	14	
N-Nitrosodiphenylamine	ug/l	20.00	13.84	13.72	69	69	1	
Pentachlorophenol	ug/l	20.00	6.441	7.605	32	38	17	
Phenanthrene	ug/l	20.00	14.02	14.47	70	72	3	
Phenol	ug/l	20.00	10.92	9.396	55	47	15	
Pyrene	ug/l	20.00	14.38	14.95	72	75	4	

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QUALITY CONTROL DATA

Lab Project Number: 8532853
 Client Project ID: NCL/TEL

LABORATORY CONTROL SAMPLE & LCSD: 851797948 851797949

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	RPD	Footnotes
1,2,4-Trichlorobenzene	ug/l	20.00	11.28	9.516	56	48	17	
2,4,5-Trichlorophenol	ug/l	20.00	13.38	12.45	67	62	7	
2,4,6-Trichlorophenol	ug/l	20.00	12.82	11.59	64	58	10	
Nitrobenzene-d5 (S)					64	54		
2-Fluorobiphenyl (S)					60	51		
Terphenyl-d14 (S)					72	71		
Phenol-d5 (S)					56	47		
2-Fluorophenol (S)					66	54		
2,4,6-Tribromophenol (S)					59	58		

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QUALITY CONTROL DATA

Lab Project Number: 8532853
 Client Project ID: NCL/TEL

QC Batch: 80831
 QC Batch Method: EPA 624
 Associated Lab Samples: 851795844

Analysis Method: EPA 8260
 Analysis Description: SW8260 Volatiles, Water

METHOD BLANK: 851797575
 Associated Lab Samples: 851795844

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Acetone	ug/l	ND	10.0	
Benzene	ug/l	ND	5.00	
Bromodichloromethane	ug/l	ND	5.00	
Bromoform	ug/l	ND	5.00	
Bromomethane	ug/l	ND	10.0	
2-Butanone (MEK)	ug/l	ND	10.0	
Carbon disulfide	ug/l	ND	5.00	
Carbon tetrachloride	ug/l	ND	5.00	
Chlorobenzene	ug/l	ND	5.00	
Chloroethane	ug/l	ND	10.0	
2-Chloroethylvinyl ether	ug/l	ND	10.0	
Chloroform	ug/l	ND	5.00	
Chloromethane	ug/l	ND	10.0	
Dibromochloromethane	ug/l	ND	5.00	
1,1-Dichloroethane	ug/l	ND	5.00	
1,2-Dichloroethane	ug/l	ND	5.00	
1,1-Dichloroethene	ug/l	ND	5.00	
cis-1,2-Dichloroethene	ug/l	ND	5.00	
trans-1,2-Dichloroethene	ug/l	ND	5.00	
1,2-Dichloropropane	ug/l	ND	5.00	
cis-1,3-Dichloropropene	ug/l	ND	5.00	
trans-1,3-Dichloropropene	ug/l	ND	5.00	
Ethylbenzene	ug/l	ND	5.00	
2-Hexanone	ug/l	ND	10.0	
Methylene chloride	ug/l	ND	5.00	
4-Methyl-2-pentanone (MIBK)	ug/l	ND	10.0	
Styrene	ug/l	ND	5.00	
1,1,2,2-Tetrachloroethane	ug/l	ND	5.00	
Tetrachloroethene	ug/l	ND	5.00	
Toluene	ug/l	ND	5.00	
1,1,1-Trichloroethane	ug/l	ND	5.00	

Date: 04/03/03

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Lab Project Number: 8532853
Client Project ID: NCL/TEL

METHOD BLANK: 851797575
Associated Lab Samples: 851795844

Parameter	Units	Blank Result	Reporting Limit	Footnotes
1,1,2-Trichloroethane	ug/l	ND	5.00	
Trichloroethene	ug/l	ND	5.00	
Vinyl acetate	ug/l	ND	5.00	
Vinyl chloride	ug/l	ND	10.0	
Xylene (Total)	ug/l	ND	5.00	
m&p-Xylene	ug/l	ND	5.00	
o-Xylene	ug/l	ND	5.00	
Toluene-d8 (S)	%	109		
4-Bromofluorobenzene (S)	%	92		
1,2-Dichloroethane-d4 (S)	%	108		

LABORATORY CONTROL SAMPLE & LCSD: 851797576 851797577

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	RPD	Footnotes
Benzene	ug/l	50.00	54.91	51.50	110	103	6	
Chlorobenzene	ug/l	50.00	50.34	47.40	101	95	6	
1,1-Dichloroethene	ug/l	50.00	54.68	56.42	109	113	3	
Toluene	ug/l	50.00	52.43	52.62	105	105	0	
Trichloroethene	ug/l	50.00	52.81	51.50	106	103	3	
Toluene-d8 (S)					111	107		
4-Bromofluorobenzene (S)					95	102		
1,2-Dichloroethane-d4 (S)					98	106		

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QUALITY CONTROL DATA

Lab Project Number: 8532853
Client Project ID: NCL/TEL

QC Batch: 80847 Analysis Method: EPA 8260
QC Batch Method: EPA 624 Analysis Description: SW8260 Volatiles, Water
Associated Lab Samples: 851795838 851795839 851795840 851795841 851795842
851795843

METHOD BLANK: 851797647
Associated Lab Samples: 851795838 851795839 851795840 851795841 851795842 851795843

Parameter	Units	Blank	Reporting	Footnotes
		Result	Limit	
Acetone	ug/l	ND	10.0	
Benzene	ug/l	ND	5.00	
Bromodichloromethane	ug/l	ND	5.00	
Bromoform	ug/l	ND	5.00	
Bromomethane	ug/l	ND	10.0	
2-Butanone (MEK)	ug/l	ND	10.0	
Carbon disulfide	ug/l	ND	5.00	
Carbon tetrachloride	ug/l	ND	5.00	
Chlorobenzene	ug/l	ND	5.00	
Chloroethane	ug/l	ND	10.0	
2-Chloroethylvinyl ether	ug/l	ND	10.0	
Chloroform	ug/l	ND	5.00	
Chloromethane	ug/l	ND	10.0	
Dibromochloromethane	ug/l	ND	5.00	
1,1-Dichloroethane	ug/l	ND	5.00	
1,2-Dichloroethane	ug/l	ND	5.00	
1,1-Dichloroethene	ug/l	ND	5.00	
cis-1,2-Dichloroethene	ug/l	ND	5.00	
trans-1,2-Dichloroethene	ug/l	ND	5.00	
1,2-Dichloropropane	ug/l	ND	5.00	
cis-1,3-Dichloropropene	ug/l	ND	5.00	
trans-1,3-Dichloropropene	ug/l	ND	5.00	
Ethylbenzene	ug/l	ND	5.00	
2-Hexanone	ug/l	ND	10.0	
Methylene chloride	ug/l	ND	5.00	
4-Methyl-2-pentanone (MIBK)	ug/l	ND	10.0	
Styrene	ug/l	ND	5.00	
1,1,2,2-Tetrachloroethane	ug/l	ND	5.00	
Tetrachloroethene	ug/l	ND	5.00	
Toluene	ug/l	ND	5.00	

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QUALITY CONTROL DATA

Lab Project Number: 8532853
Client Project ID: NCL/TEL

METHOD BLANK: 851797647

Associated Lab Samples: 851795838 851795839 851795840 851795841 851795842 851795843

Parameter	Units	Blank	Reporting	Footnotes
		Result	Limit	
1,1,1-Trichloroethane	ug/l	ND	5.00	
1,1,2-Trichloroethane	ug/l	ND	5.00	
Trichloroethene	ug/l	ND	5.00	
Vinyl acetate	ug/l	ND	5.00	
Vinyl chloride	ug/l	ND	10.0	
Xylene (Total)	ug/l	ND	5.00	
m&p-Xylene	ug/l	ND	5.00	
o-Xylene	ug/l	ND	5.00	
Toluene-d8 (S)	%	115		
4-Bromofluorobenzene (S)	%	95		
1,2-Dichloroethane-d4 (S)	%	105		

LABORATORY CONTROL SAMPLE & LCSD: 851797648 851797649

Parameter	Units	Spike	LCS	LCSD	LCS	LCSD	RPD	Footnotes
		Conc.	Result	Result	% Rec	% Rec		
Benzene	ug/l	50.00	54.03	48.68	108	97	10	
Chlorobenzene	ug/l	50.00	47.63	47.85	95	96	0	
1,1-Dichloroethene	ug/l	50.00	48.79	44.90	98	90	8	
Toluene	ug/l	50.00	51.89	47.48	104	95	9	
Trichloroethene	ug/l	50.00	50.64	45.44	101	91	11	
Toluene-d8 (S)					112	104		
4-Bromofluorobenzene (S)					101	99		
1,2-Dichloroethane-d4 (S)					100	96		

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QUALITY CONTROL DATA

Lab Project Number: 8532853
Client Project ID: NCL/TEL

METHOD BLANK: 851798994

Associated Lab Samples: 851795845 851795846 851795847 851795848 851795849 851795850 851795851
851795852

Parameter	Units	Blank	Reporting	Footnotes
		Result	Limit	
Toluene	ug/l	ND	5.00	
1,1,1-Trichloroethane	ug/l	ND	5.00	
1,1,2-Trichloroethane	ug/l	ND	5.00	
Trichloroethene	ug/l	ND	5.00	
Vinyl acetate	ug/l	ND	5.00	
Vinyl chloride	ug/l	ND	10.0	
Xylene (Total)	ug/l	ND	5.00	
m&p-Xylene	ug/l	ND	5.00	
o-Xylene	ug/l	ND	5.00	
Toluene-d8 (S)	%	122		
4-Bromofluorobenzene (S)	%	119		
1,2-Dichloroethane-d4 (S)	%	100		

LABORATORY CONTROL SAMPLE & LCSD: 851798995 851798996

Parameter	Units	Spike	LCS	LCSD	LCS	LCSD	RPD	Footnotes
		Conc.	Result	Result	% Rec	% Rec		
Benzene	ug/l	50.00	43.25	42.26	86	84	2	
Chlorobenzene	ug/l	50.00	48.21	47.80	96	96	1	
1,1-Dichloroethene	ug/l	50.00	41.30	39.23	83	78	5	
Toluene	ug/l	50.00	47.36	46.39	95	93	2	
Trichloroethene	ug/l	50.00	45.22	41.61	90	83	8	
Toluene-d8 (S)					125	122		
4-Bromofluorobenzene (S)					126	128		
1,2-Dichloroethane-d4 (S)					97	95		

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Fax: 281.488.4661

QUALITY CONTROL DATA

Lab Project Number: 8532853
Client Project ID: NCL/TEL

QC Batch: 80636 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: Mercury, Water, SW 7470
Associated Lab Samples: 851795838 851795839 851795840 851795841 851795842
 851795843

METHOD BLANK: 851796856
Associated Lab Samples: 851795838 851795839 851795840 851795841 851795842 851795843

<u>Parameter</u>	<u>Units</u>	<u>Blank Result</u>	<u>Reporting Limit</u>	<u>Footnotes</u>
Mercury	ug/l	ND	0.200	

LABORATORY CONTROL SAMPLE: 851796857

<u>Parameter</u>	<u>Units</u>	<u>Spike Conc.</u>	<u>LCS Result</u>	<u>LCS % Rec</u>	<u>Footnotes</u>
Mercury	ug/l	2.000	2.350	118	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 851796858 851796859

<u>Parameter</u>	<u>Units</u>	<u>851796557 Result</u>	<u>Spike Conc.</u>	<u>MS Result</u>	<u>MSD Result</u>	<u>MS % Rec</u>	<u>MSD % Rec</u>	<u>RPD</u>	<u>Footnotes</u>
Mercury	ug/l	0.03500	2.000	2.309	2.315	114	114	0	

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QUALITY CONTROL DATA

Lab Project Number: 8532853
Client Project ID: NCL/TEL

QC Batch: 81149 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: Mercury, Water, SW 7470
Associated Lab Samples: 851795845 851795846 851795847 851795848 851795849
851795850 851795851

METHOD BLANK: 851798697
Associated Lab Samples: 851795845 851795846 851795847 851795848 851795849 851795850 851795851

Table with 5 columns: Parameter, Units, Blank Result, Reporting Limit, Footnotes. Row for Mercury: ug/l, ND, 0.200.

LABORATORY CONTROL SAMPLE: 851798698

Table with 6 columns: Parameter, Units, Spike Conc., LCS Result, LCS % Rec, Footnotes. Row for Mercury: ug/l, 2.000, 1.994, 100.

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 851798699 851798700

Table with 10 columns: Parameter, Units, 851795845 Result, Spike Conc., MS Result, MSD Result, MS % Rec, MSD % Rec, RPD, Footnotes. Row for Mercury: ug/l, 0, 2.000, 0.7510, 0.7540, 38, 38, 0, 1,1.

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QUALITY CONTROL DATA

Lab Project Number: 8532853
Client Project ID: NCL/TEL

QC Batch: 80768 Analysis Method: EPA 6010
QC Batch Method: Analysis Description: SW6010 Metals, Trace Water
Associated Lab Samples: 851795838 851795839 851795840 851795841 851795842
 851795843 851795845 851795846 851795847 851795848
 851795849 851795850 851795851

METHOD BLANK: 851797361
Associated Lab Samples: 851795838 851795839 851795840 851795841 851795842 851795843 851795845
 851795846 851795847 851795848 851795849 851795850 851795851

Parameter	Units	Blank	Reporting	Footnotes
		Result	Limit	
Aluminum	ug/l	ND	200.	
Arsenic	ug/l	ND	10.0	
Barium	ug/l	ND	200.	
Beryllium	ug/l	ND	5.00	
Boron	ug/l	ND	100.	
Cadmium	ug/l	ND	5.00	
Chromium	ug/l	ND	10.0	
Cobalt	ug/l	ND	50.0	
Copper	ug/l	ND	25.0	
Iron	ug/l	ND	100.	
Lead	ug/l	ND	3.00	
Manganese	ug/l	ND	15.0	
Molybdenum	ug/l	ND	10.0	
Nickel	ug/l	ND	40.0	
Selenium	ug/l	ND	5.00	
Silver	ug/l	ND	10.0	
Vanadium	ug/l	ND	50.0	
Zinc	ug/l	ND	20.0	

LABORATORY CONTROL SAMPLE: 851797362

Parameter	Units	Spike	LCS	LCS	Footnotes
		Conc.	Result	% Rec	
Aluminum	ug/l	500.00	507.6	102	
Arsenic	ug/l	250.00	249.4	100	
Barium	ug/l	250.00	249.2	100	
Beryllium	ug/l	250.00	263.0	105	

Date: 04/03/03

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QUALITY CONTROL DATA

Lab Project Number: 8532853
Client Project ID: NCL/TEL

LABORATORY CONTROL SAMPLE: 851797362

Parameter	Units	Spike	LCS	LCS	Footnotes
		Conc.	Result	% Rec	
Cadmium	ug/l	250.00	249.4	100	
Chromium	ug/l	250.00	248.3	99	
Cobalt	ug/l	250.00	245.7	98	
Copper	ug/l	250.00	257.0	103	
Iron	ug/l	250.00	261.7	105	
Lead	ug/l	250.00	245.5	98	
Manganese	ug/l	250.00	249.9	100	
Molybdenum	ug/l	250.00	255.0	102	
Nickel	ug/l	250.00	246.7	99	
Selenium	ug/l	250.00	245.5	98	
Silver	ug/l	250.00	250.6	100	
Vanadium	ug/l	250.00	254.3	102	
Zinc	ug/l	250.00	245.4	98	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 851797363 851797364

Parameter	Units	851795838	Spike	MS	MSD	MS	MSD	RPD	Footnotes
		Result	Conc.	Result	Result	% Rec	% Rec		
Aluminum	ug/l	564.7	500.00	1097	1090	106	105	1	
Arsenic	ug/l	4.363	250.00	252.0	254.3	99	100	1	
Barium	ug/l	32.99	250.00	282.5	282.9	100	100	0	
Beryllium	ug/l	0.01120	250.00	257.1	255.3	103	102	1	
Cadmium	ug/l	0	250.00	235.3	232.5	94	93	1	
Chromium	ug/l	1.264	250.00	242.2	240.3	96	96	1	
Cobalt	ug/l	9.841	250.00	239.4	238.0	92	91	1	
Copper	ug/l	35.90	250.00	303.7	303.1	107	107	0	
Iron	ug/l	90.90	250.00	343.8	332.0	101	96	3	
Lead	ug/l	0	250.00	233.6	231.8	93	93	1	
Manganese	ug/l	2314	250.00	2484	2460	68	58	1	
Molybdenum	ug/l	17.95	250.00	263.1	264.0	98	98	0	
Nickel	ug/l	6.300	250.00	237.7	235.0	93	92	1	
Selenium	ug/l	15.82	250.00	258.9	260.8	97	98	1	
Silver	ug/l	0.7210	250.00	257.2	257.5	103	103	0	
Vanadium	ug/l	4.992	250.00	258.0	257.0	101	101	0	
Zinc	ug/l	8.285	250.00	249.7	248.7	97	96	0	

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QUALITY CONTROL DATA

Lab Project Number: 8532853
Client Project ID: NCL/TEL

QC Batch: 81282 Analysis Method: EPA 376.1
QC Batch Method: EPA 376.1 Analysis Description: Sulfide, Total
Associated Lab Samples: 851795838 851795839 851795840 851795841 851795842
851795843

METHOD BLANK: 851799117
Associated Lab Samples: 851795838 851795839 851795840 851795841 851795842 851795843

Table with columns: Parameter, Units, Blank Result, Reporting Limit, Footnotes. Row: Sulfide, mg/l, ND, 1.00

LABORATORY CONTROL SAMPLE: 851799118

Table with columns: Parameter, Units, Spike Conc., LCS Result, LCS % Rec, Footnotes. Row: Sulfide, mg/l, 8.917, 9.000, 101

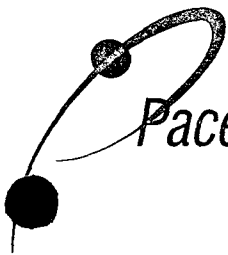
SAMPLE DUPLICATE: 851799119

Table with columns: Parameter, Units, 851795838 Result, DUP Result, RPD, Footnotes. Row: Sulfide, mg/l, ND, ND, NC

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QUALITY CONTROL DATA

Lab Project Number: 8532853
Client Project ID: NCL/TEL

QC Batch: 81283	Analysis Method: EPA 376.1				
QC Batch Method: EPA 376.1	Analysis Description: Sulfide, Total				
Associated Lab Samples:	851795845	851795846	851795847	851795848	851795849
	851795850	851795851			

METHOD BLANK: 851799120

Associated Lab Samples:	851795845	851795846	851795847	851795848	851795849	851795850	851795851
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<u>Parameter</u>	<u>Units</u>	Blank <u>Result</u>	Reporting <u>Limit</u>	<u>Footnotes</u>
Sulfide	mg/l	ND	1.00	

LABORATORY CONTROL SAMPLE: 851799121

<u>Parameter</u>	<u>Units</u>	Spike <u>Conc.</u>	LCS <u>Result</u>	LCS <u>% Rec</u>	<u>Footnotes</u>
Sulfide	mg/l	8.736	8.700	100	

SAMPLE DUPLICATE: 851799122

<u>Parameter</u>	<u>Units</u>	851795845 <u>Result</u>	DUP <u>Result</u>	RPD	<u>Footnotes</u>
Sulfide	mg/l	ND	ND	NC	

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QUALITY CONTROL DATA

Lab Project Number: 8532853
Client Project ID: NCL/TEL

QC Batch: 81320	Analysis Method: EPA 420.2
QC Batch Method: EPA 420.2	Analysis Description: Phenolics, Total Recoverable
Associated Lab Samples:	851795838 851795839 851795840 851795841 851795842
	851795843

METHOD BLANK: 851799368

Associated Lab Samples:	851795838	851795839	851795840	851795841	851795842	851795843
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<u>Parameter</u>	<u>Units</u>	<u>Blank Result</u>	<u>Reporting Limit</u>	<u>Footnotes</u>
Phenolics, Total Recoverable	mg/l	ND	0.0100	

LABORATORY CONTROL SAMPLE: 851799369

<u>Parameter</u>	<u>Units</u>	<u>Spike Conc.</u>	<u>LCS Result</u>	<u>LCS % Rec</u>	<u>Footnotes</u>
Phenolics, Total Recoverable	mg/l	0.4000	0.3660	92	

MATRIX SPIKE: 851799370

<u>Parameter</u>	<u>Units</u>	<u>851795838 Result</u>	<u>Spike Conc.</u>	<u>MS Result</u>	<u>MS % Rec</u>	<u>Footnotes</u>
Phenolics, Total Recoverable	mg/l	0	0.2000	0.1950	98	

SAMPLE DUPLICATE: 851799371

<u>Parameter</u>	<u>Units</u>	<u>851795839 Result</u>	<u>DUP Result</u>	<u>RPD</u>	<u>Footnotes</u>
Phenolics, Total Recoverable	mg/l	ND	ND	NC	

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QUALITY CONTROL DATA

Lab Project Number: 8532853
Client Project ID: NCL/TEL

QC Batch: 81379		Analysis Method: EPA 420.2			
QC Batch Method: EPA 420.2		Analysis Description: Phenolics, Total Recoverable			
Associated Lab Samples:	851795845	851795846	851795847	851795848	851795849
	851795850	851795851			

METHOD BLANK: 851799682
Associated Lab Samples: 851795845 851795846 851795847 851795848 851795849 851795850 851795851

<u>Parameter</u>	<u>Units</u>	<u>Blank Result</u>	<u>Reporting Limit</u>	<u>Footnotes</u>
Phenolics, Total Recoverable	mg/l	ND	0.0100	

LABORATORY CONTROL SAMPLE: 851799683

<u>Parameter</u>	<u>Units</u>	<u>Spike Conc.</u>	<u>LCS Result</u>	<u>LCS % Rec</u>	<u>Footnotes</u>
Phenolics, Total Recoverable	mg/l	0.4000	0.4010	100	

MATRIX SPIKE: 851799684

<u>Parameter</u>	<u>Units</u>	<u>851795845 Result</u>	<u>Spike Conc.</u>	<u>MS Result</u>	<u>MS % Rec</u>	<u>Footnotes</u>
Phenolics, Total Recoverable	mg/l	0.00100	0.2000	0.2020	100	

SAMPLE DUPLICATE: 851799685

<u>Parameter</u>	<u>Units</u>	<u>851795846 Result</u>	<u>DUP Result</u>	<u>RPD</u>	<u>Footnotes</u>
Phenolics, Total Recoverable	mg/l	ND	ND	NC	

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Houston, TX 77058

Phone: 281.488.1810

Fax: 281.488.4661

Lab Project Number: 8532853

Client Project ID: NCL/TEL

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

- LCS(D) Laboratory Control Sample (Duplicate)
- MS(D) Matrix Spike (Duplicate)
- DUP Sample Duplicate
- ND Not detected at or above adjusted reporting limit
- NC Not Calculable
- J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
- MDL Adjusted Method Detection Limit
- RPD Relative Percent Difference
- (S) Surrogate
- [1] Matrix spike or spike duplicate recovery is outside of laboratory control limits; however, data is accepted based on LCS and the other spike recovery. (Mercury)

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CHAIN-OF-CUSTODY RECORD
Analytical Request

1199/1

Client: Navajo Refining Co.
Address: 501 E. Main
Artesia, NM 88210
Phone #: 505-748-3311
Fax #:

Report To: Jeff Byrd
Bill To: Accts. Payable
P.O.#/Billing Ref.:
Project Name: NCL/TEL

Pace Client: Paula Kirtley
Project Manager: 8532853
Pace Project No: 10 TAT
TAT:

ITEM NO	SAMPLE DESCRIPTION	SAMPLE NUMBER	DATE	TIME	MATRIX	PRESERVATIVES									ANALYSES REQUESTED									Remarks								
						# OF CONT	Unpreserved	H2SO4	HNO3	NaOH	HCl	Vol w/HCl	H2O2	Volatiles	Sem-Volatiles	Metals	Phenolics	Sulfide	Uranium													
1	MW-53	851795838	3/11/03	0700	H2O	8	2	1	2	1	2			X	X	X	X	X	X													
2	NCL-49	851795839		0950	H2O	8	2	1	2	1	2			X	X	X	X	X	X													
3	NCL-32	851795840		1020	H2O	8	2	1	2	1	2			X	X	X	X	X	X													
4	NCL-44	851795841		1115	H2O	8	2	1	2	1	2			X	X	X	X	X	X													
5	MW-54A	851795842		1350	H2O	8	2	1	2	1	2			X	X	X	X	X	X													
6	MW-55 MW-56	851795843		1415	H2O	8	2	1	2	1	2			X	X	X	X	X	X													
7	Trip Blank 1	851795844	3/11	1700	H2O	2					2			X																		

REINQUISHED BY	DATE	TIME	ACCEPTED BY / AFFIL	DATE	TIME
Byrd	3/11	1615	FEO	3/12	0720
FEO			S. R...		

ADDITIONAL COMMENTS
 * Subcontract Uranium to ARS laboratories
 & Pace Jeff Byrd sample MW-55
 should be MW-56 @ 3/13/03
 Cooler Temperature:
 Sampler Name:
 Signature:

853203

CHAIN-OF-CUSTODY RECORD
Analytical Request

900 Gemini
Houston, TX 77058
Phone: 281-488-1810 Fax: 281-488-2835

Pace Analytical

Client: Navajo Refining Co.
Address: 501 E. Main
Artesia, NM 88210
Phone #: 505-748-3311
Fax #:

Report To:
Bill To:
P.O.#/Billing Ref:
Project Name:

Jeff Byrd
Accts. Payable
NCLTEL

Pace Client:
Project Manager:
Pace Project No:
TAT:

Paula Kirtley

199/1

ITEM NO.	SAMPLE DESCRIPTION	SAMPLE NUMBER	DATE	TIME	MATRIX	# OF CONT	PRESERVATIVES							ANALYSES REQUESTED							Remarks			
							Unpreserved	H2SO4	HNO3	Na OH	Voa w/HCL	HCL	Na2S2O3	Volatiles	Semi-Volatiles	Metals	Phenolics	Sulfide	Uranium					
1	MW-5655	851795845	3/13/03	0810	H2O	8	2	1	2	1	2	2	X	X	X	X	X	X	X	X	X	X	X	
2	NCL-33	851795846		0830	H2O	8	2	1	2	1	2	2	X	X	X	X	X	X	X	X	X	X	X	
3	TEL-3	851795847		1020	H2O	8	2	1	2	1	2	2	X	X	X	X	X	X	X	X	X	X	X	
4	TEL-2	851795848		1330	H2O	8	2	1	2	1	2	2	X	X	X	X	X	X	X	X	X	X	X	
5	TEL-1	851795849		1410	H2O	8	2	1	2	1	2	2	X	X	X	X	X	X	X	X	X	X	X	
6	TEL-4	851795850		1515	H2O	8	2	1	2	1	2	2	X	X	X	X	X	X	X	X	X	X	X	
7	NCL-34	851795851		0850	H2O	8	2	1	2	1	2	2	X	X	X	X	X	X	X	X	X	X	X	
8	Trip Blank 2	851795852	3/13/03	-	H2O	2							X											

RELINQUISHED BY	Date	Time	ACCEPTED BY / AFFIL	DATE	TIME
<i>Byrd</i>	3/13	11:15	<i>Fed</i>	3/14	0830
<i>Fed</i>			<i>S. Byrd</i>		

ADDITIONAL COMMENTS

* Subcontract Uranium to ARS laboratories

1.6

Cooler Temperature:

Sampler Name:

Signature:



e-Lab, Inc.

10450 Stancliff Rd, Suite 210 Houston, Texas 77099-4338 281-530-5656 Fax 281-530-51

August 30, 2003

Jeff Byrd
Navajo Refining Company
P.O. Box 159
Artesia, New Mexico 88211

Tel: (505) 746-5468
Fax: (505) 746-5421

Re: NCL/TEL

Work Order : **0308134**

Dear Jeff Byrd,

e-Lab, Inc. received 5 samples on 8/13/2003 9:15:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by e-Lab, Inc. and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by e-Lab Inc. The total number of pages in this report is 39.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Lora Terrill

Electronically approved by: Lora Terrill

Lora Terrill
VP Lab Operations

e-Lab, Inc.

Date: August 29, 2003

CLIENT: Navajo Refining Company
Project: NCL/TEL
Work Order: 0308134

Work Order Sample Summary

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
0308134-01	MW-54A	Water		8/12/2003 10:15	8/13/2003 09:15	<input type="checkbox"/>
0308134-02	MW-56	Water		8/12/2003 11:00	8/13/2003 09:15	<input type="checkbox"/>
0308134-03	MW-55	Water		8/12/2003 11:30	8/13/2003 09:15	<input type="checkbox"/>
0308134-04	NCL-33	Water		8/12/2003 13:45	8/13/2003 09:15	<input type="checkbox"/>
0308134-05	NCL-34	Water		8/12/2003 14:00	8/13/2003 09:15	<input type="checkbox"/>

e-Lab, Inc.

Date: *August 29, 2003*

CLIENT: Navajo Refining Company
Project: NCL/TEL
Work Order: 0308134

Case Narrative

The volatiles LCS/LCSD from 8/14/03 recovered high for 2-chloro-vinyl-ether.
The associated samples were ND therefore the data was released for reporting.

CLIENT: Navajo Refining Company
 Work Order: 0308134
 Project: NCL/TEL
 Lab ID: 0308134-01

Client Sample ID: MW-54A
 Collection Date: 8/12/2003 10:15:00 AM
 Matrix: WATER

Analyses	Result	MDL	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL		SW7470			Prep Date: 8/19/2003		Analyst: MG
Mercury	U	0.000042	0.000200		mg/L	1	8/20/2003
ICP METALS, TOTAL		SW6020			Prep Date: 8/14/2003		Analyst: ALR
Aluminum	0.281	0.0032	0.0200		mg/L	2	8/28/2003
Arsenic	0.00843	0.0018	0.00500		mg/L	1	8/16/2003
Barium	0.0211	0.00060	0.00500		mg/L	1	8/16/2003
Beryllium	U	0.00030	0.00200		mg/L	1	8/16/2003
Boron	0.309	0.022	0.0400		mg/L	2	8/28/2003
Cadmium	U	0.00015	0.00100		mg/L	1	8/16/2003
Calcium	343	1.6	10.0		mg/L	20	8/26/2003
Chromium	0.000688	0.00050	0.00200	J	mg/L	1	8/16/2003
Cobalt	0.00260	0.00010	0.00200		mg/L	1	8/16/2003
Copper	0.00458	0.00030	0.00200		mg/L	1	8/16/2003
Iron	1.25	0.025	0.200		mg/L	1	8/16/2003
Lead	0.00164	0.00020	0.00500	J	mg/L	1	8/16/2003
Magnesium	111	0.25	2.00		mg/L	10	8/27/2003
Manganese	0.427	0.010	0.0500		mg/L	10	8/27/2003
Nickel	0.00859	0.00030	0.00500		mg/L	1	8/16/2003
Potassium	0.369	0.020	0.200		mg/L	1	8/16/2003
Selenium	0.00775	0.0017	0.00500		mg/L	1	8/16/2003
Silver	U	0.00020	0.00500		mg/L	1	8/16/2003
Sodium	43.8	0.32	2.00		mg/L	10	8/27/2003
Vanadium	0.00374	0.00040	0.00500	J	mg/L	1	8/16/2003
Zinc	0.0113	0.0015	0.00500		mg/L	1	8/16/2003
SEMIVOLATILE ORGANICS BY GC/MS		SW8270			Prep Date: 8/14/2003		Analyst: HV
1,2,4-Trichlorobenzene	U	0.83	10		µg/L	1	8/18/2003
2,4,5-Trichlorophenol	U	2.4	10		µg/L	1	8/18/2003
2,4,6-Trichlorophenol	U	2.7	10		µg/L	1	8/18/2003
2-Methylnaphthalene	U	0.86	10		µg/L	1	8/18/2003
2-Methylphenol	U	2.8	10		µg/L	1	8/18/2003
2-Nitroaniline	U	1.1	10		µg/L	1	8/18/2003
2-Nitrophenol	U	2.6	10		µg/L	1	8/18/2003
3-Nitroaniline	U	1.2	10		µg/L	1	8/18/2003
4-Methylphenol	U	4.6	10		µg/L	1	8/18/2003
4-Nitroaniline	U	0.95	10		µg/L	1	8/18/2003
4-Nitrophenol	U	2.7	10		µg/L	1	8/18/2003
Acenaphthene	U	1.1	10		µg/L	1	8/18/2003
Acenaphthylene	U	1.0	10		µg/L	1	8/18/2003
Aniline	U	10	10		µg/L	1	8/18/2003

Qualifiers

U - Analyzed for but Not Detected

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

P - Dual Column results percent difference > 40%

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

H - Analyzed outside of Hold Time

CLIENT: Navajo Refining Company Client Sample ID: MW-54A
 Work Order: 0308134 Collection Date: 8/12/2003 10:15:00 AM
 Project: NCL/TEL
 Lab ID: 0308134-01 Matrix: WATER

Analyses	Result	MDL	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Anthracene	U	0.36	10		µg/L	1	8/18/2003
Benz(a)anthracene	U	0.77	10		µg/L	1	8/18/2003
Benzidine	U	0.34	10		µg/L	1	8/18/2003
Hexachloroethane	U	0.64	10		µg/L	1	8/18/2003
Indeno(1,2,3-cd)pyrene	U	0.77	10		µg/L	1	8/18/2003
Isophorone	U	1.2	10		µg/L	1	8/18/2003
N-Nitrosodi-n-propylamine	U	1.5	10		µg/L	1	8/18/2003
N-Nitrosodimethylamine	U	1.1	10		µg/L	1	8/18/2003
N-Nitrosodiphenylamine	U	1.3	10		µg/L	1	8/18/2003
Naphthalene	U	1.0	10		µg/L	1	8/18/2003
Nitrobenzene	U	1.7	10		µg/L	1	8/18/2003
Pentachlorophenol	U	1.5	10		µg/L	1	8/18/2003
Phenanthrene	U	1.2	10		µg/L	1	8/18/2003
Phenol	U	3.5	10		µg/L	1	8/18/2003
Pyrene	U	0.92	10		µg/L	1	8/18/2003
Surr: 2,4,6-Tribromophenol	89.4	0	10-123		%REC	1	8/18/2003
Surr: 2-Fluorobiphenyl	79.2	0	43-116		%REC	1	8/18/2003
Surr: 2-Fluorophenol	35.4	0	21-100		%REC	1	8/18/2003
Surr: 4-Terphenyl-d14	84.0	0	33-141		%REC	1	8/18/2003
Surr: Nitrobenzene-d5	81.1	0	35-114		%REC	1	8/18/2003
Surr: Phenol-d6	21.7	0	10-94		%REC	1	8/18/2003

VOLATILES BY GC/MS

SW8260

Prep Date:

Analyst: PC

1,1,1-Trichloroethane	U	0.62	5.0		µg/L	1	8/15/2003
1,1,2,2-Tetrachloroethane	U	0.58	5.0		µg/L	1	8/15/2003
1,1,2-Trichloroethane	U	0.41	5.0		µg/L	1	8/15/2003
1,1-Dichloroethane	U	0.43	5.0		µg/L	1	8/15/2003
1,1-Dichloroethene	U	0.53	5.0		µg/L	1	8/15/2003
1,2-Dichloroethane	U	0.38	5.0		µg/L	1	8/15/2003
2-Butanone	U	0.70	10		µg/L	1	8/15/2003
2-Chloroethyl vinyl ether	U	0.63	10		µg/L	1	8/15/2003
2-Hexanone	U	1.1	10		µg/L	1	8/15/2003
4-Methyl-2-pentanone	U	0.64	10		µg/L	1	8/15/2003
Acetone	U	1.2	10		µg/L	1	8/15/2003
Benzene	U	0.66	5.0		µg/L	1	8/15/2003
Bromodichloromethane	U	0.45	5.0		µg/L	1	8/15/2003
Bromoform	U	0.40	5.0		µg/L	1	8/15/2003
Bromomethane	U	0.70	5.0		µg/L	1	8/15/2003
Carbon disulfide	U	0.76	10		µg/L	1	8/15/2003
Carbon tetrachloride	U	0.65	5.0		µg/L	1	8/15/2003
Chlorobenzene	U	0.43	5.0		µg/L	1	8/15/2003

Qualifiers

U - Analyzed for but Not Detected

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

P - Dual Column results percent difference > 40%

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

H - Analyzed outside of Hold Time

CLIENT: Navajo Refining Company
 Work Order: 0308134
 Project: NCL/TEL
 Lab ID: 0308134-01

Client Sample ID: MW-54A
 Collection Date: 8/12/2003 10:15:00 AM
 Matrix: WATER

Analyses	Result	MDL	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chloroethane	U	0.56	5.0		µg/L	1	8/15/2003
Chloroform	U	0.52	5.0		µg/L	1	8/15/2003
Chloromethane	U	1.1	5.0		µg/L	1	8/15/2003
cis-1,3-Dichloropropene	U	0.47	5.0		µg/L	1	8/15/2003
Dibromochloromethane	U	0.53	5.0		µg/L	1	8/15/2003
Ethylbenzene	U	0.77	5.0		µg/L	1	8/15/2003
m,p-Xylene	U	1.3	10		µg/L	1	8/15/2003
Methylene chloride	U	0.60	10		µg/L	1	8/15/2003
Styrene	U	0.56	5.0		µg/L	1	8/15/2003
Tetrachloroethene	U	0.43	5.0		µg/L	1	8/15/2003
Toluene	U	0.69	5.0		µg/L	1	8/15/2003
trans-1,3-Dichloropropene	U	0.44	5.0		µg/L	1	8/15/2003
Trichloroethene	U	0.70	5.0		µg/L	1	8/15/2003
Vinyl acetate	U	0.92	10		µg/L	1	8/15/2003
Vinyl chloride	U	0.79	2.0		µg/L	1	8/15/2003
Xylenes, Total	U	1.8	15		µg/L	1	8/15/2003
Surr: 1,2-Dichloroethane-d4	84.2	0	70-130		%REC	1	8/15/2003
Surr: 4-Bromofluorobenzene	81.7	0	70-130		%REC	1	8/15/2003
Surr: Dibromofluoromethane	87.2	0	70-130		%REC	1	8/15/2003
Surr: Toluene-d8	83.6	0	70-130		%REC	1	8/15/2003
ANIONS BY ION CHROMATOGRAPHY			E300		Prep Date:		Analyst: MG
Chloride	190	2.00	5.00		mg/L	10	8/14/2003
Fluoride	1.07	0.0500	0.100		mg/L	1	8/14/2003
Sulfate	604	25.0	50.0		mg/L	50	8/14/2003
Nitrate/Nitrite (as N)	0.540	0.0440	0.100		mg/L	1	8/14/2003
Surr: Dichloroacetic acid (surr)	106	0	80-120		%REC	50	8/14/2003
Surr: Dichloroacetic acid (surr)	102	0	80-120		%REC	10	8/14/2003
Surr: Dichloroacetic acid (surr)	118	0	80-120		%REC	1	8/14/2003
ALKALINITY			E310.1		Prep Date:		Analyst: LMD
Alkalinity, Bicarbonate (As CaCO3)	485	2.0	5.00		mg/L	1	8/13/2003
Alkalinity, Carbonate (As CaCO3)	U	2.0	5.00		mg/L	1	8/13/2003
Alkalinity, Hydroxide (As CaCO3)	U	2.0	5.00		mg/L	1	8/13/2003
Alkalinity, Total (As CaCO3)	485	2.0	5.00		mg/L	1	8/13/2003
CYANIDE, TOTAL			E335.3		Prep Date:		Analyst: LMD
Cyanide	U	0.0030	0.0200		mg/L	1	8/17/2003

Qualifiers
 U - Analyzed for but Not Detected
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level
 S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time

CLIENT: Navajo Refining Company
 Work Order: 0308134
 Project: NCL/TEL
 Lab ID: 0308134-03

Client Sample ID: MW-55
 Collection Date: 8/12/2003 11:30:00 AM
 Matrix: WATER

Analyses	Result	MDL	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL		SW7470			Prep Date: 8/19/2003		Analyst: MG
Mercury	U	0.000042	0.000200		mg/L	1	8/20/2003
ICP METALS, TOTAL		SW6020			Prep Date: 8/14/2003		Analyst: ALR
Aluminum	0.00994	0.0032	0.0200	J	mg/L	2	8/28/2003
Arsenic	0.00745	0.0018	0.00500		mg/L	1	8/16/2003
Barium	0.0114	0.00060	0.00500		mg/L	1	8/16/2003
Beryllium	U	0.00030	0.00200		mg/L	1	8/16/2003
Boron	0.565	0.022	0.0400		mg/L	2	8/28/2003
Cadmium	U	0.00015	0.00100		mg/L	1	8/16/2003
Calcium	447	4.0	25.0		mg/L	50	8/27/2003
Chromium	U	0.00050	0.00200		mg/L	1	8/16/2003
Cobalt	0.00180	0.00010	0.00200	J	mg/L	1	8/16/2003
Copper	0.00685	0.00030	0.00200		mg/L	1	8/16/2003
Iron	0.936	0.025	0.200		mg/L	1	8/16/2003
Lead	0.000441	0.00020	0.00500	J	mg/L	1	8/16/2003
Magnesium	229	0.50	4.00		mg/L	20	8/27/2003
Manganese	0.595	0.010	0.0500		mg/L	10	8/27/2003
Nickel	0.0119	0.00030	0.00500		mg/L	1	8/16/2003
Potassium	0.686	0.040	0.400		mg/L	2	8/28/2003
Selenium	0.00885	0.0017	0.00500		mg/L	1	8/16/2003
Silver	U	0.00020	0.00500		mg/L	1	8/16/2003
Sodium	182	0.64	4.00		mg/L	20	8/27/2003
Vanadium	0.0142	0.00040	0.00500		mg/L	1	8/16/2003
Zinc	0.0153	0.0015	0.00500		mg/L	1	8/16/2003
SEMIVOLATILE ORGANICS BY GC/MS		SW8270			Prep Date: 8/14/2003		Analyst: HV
1,2,4-Trichlorobenzene	U	0.83	10		µg/L	1	8/18/2003
2,4,5-Trichlorophenol	U	2.4	10		µg/L	1	8/18/2003
2,4,6-Trichlorophenol	U	2.7	10		µg/L	1	8/18/2003
2-Methylnaphthalene	U	0.86	10		µg/L	1	8/18/2003
2-Methylphenol	U	2.8	10		µg/L	1	8/18/2003
2-Nitroaniline	U	1.1	10		µg/L	1	8/18/2003
2-Nitrophenol	U	2.6	10		µg/L	1	8/18/2003
3-Nitroaniline	U	1.2	10		µg/L	1	8/18/2003
4-Methylphenol	U	4.6	10		µg/L	1	8/18/2003
4-Nitroaniline	U	0.95	10		µg/L	1	8/18/2003
4-Nitrophenol	U	2.7	10		µg/L	1	8/18/2003
Acenaphthene	U	1.1	10		µg/L	1	8/18/2003
Acenaphthylene	U	1.0	10		µg/L	1	8/18/2003
Aniline	U	10	10		µg/L	1	8/18/2003

Qualifiers

U - Analyzed for but Not Detected

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

P - Dual Column results percent difference > 40%

E - Value above quantitation range

H - Analyzed outside of Hold Time

CLIENT: Navajo Refining Company
 Work Order: 0308134
 Project: NCL/TEL
 Lab ID: 0308134-03

Client Sample ID: MW-55
 Collection Date: 8/12/2003 11:30:00 AM
 Matrix: WATER

Analyses	Result	MDL	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Anthracene	U	0.36	10		µg/L	1	8/18/2003
Benz(a)anthracene	U	0.77	10		µg/L	1	8/18/2003
Benzydine	U	0.34	10		µg/L	1	8/18/2003
Hexachloroethane	U	0.64	10		µg/L	1	8/18/2003
Indeno(1,2,3-cd)pyrene	U	0.77	10		µg/L	1	8/18/2003
Isophorone	U	1.2	10		µg/L	1	8/18/2003
N-Nitrosodi-n-propylamine	U	1.5	10		µg/L	1	8/18/2003
N-Nitrosodimethylamine	U	1.1	10		µg/L	1	8/18/2003
N-Nitrosodiphenylamine	U	1.3	10		µg/L	1	8/18/2003
Naphthalene	U	1.0	10		µg/L	1	8/18/2003
Nitrobenzene	U	1.7	10		µg/L	1	8/18/2003
Pentachlorophenol	U	1.5	10		µg/L	1	8/18/2003
Phenanthrene	U	1.2	10		µg/L	1	8/18/2003
Phenol	U	3.5	10		µg/L	1	8/18/2003
Pyrene	U	0.92	10		µg/L	1	8/18/2003
Surr: 2,4,6-Tribromophenol	93.0	0	10-123		%REC	1	8/18/2003
Surr: 2-Fluorobiphenyl	81.3	0	43-116		%REC	1	8/18/2003
Surr: 2-Fluorophenol	37.5	0	21-100		%REC	1	8/18/2003
Surr: 4-Terphenyl-d14	91.3	0	33-141		%REC	1	8/18/2003
Surr: Nitrobenzene-d5	83.6	0	35-114		%REC	1	8/18/2003
Surr: Phenol-d6	22.7	0	10-94		%REC	1	8/18/2003

VOLATILES BY GC/MS

SW8260

Prep Date:

Analyst: PC

1,1,1-Trichloroethane	U	0.62	5.0		µg/L	1	8/15/2003
1,1,2,2-Tetrachloroethane	U	0.58	5.0		µg/L	1	8/15/2003
1,1,2-Trichloroethane	U	0.41	5.0		µg/L	1	8/15/2003
1,1-Dichloroethane	U	0.43	5.0		µg/L	1	8/15/2003
1,1-Dichloroethene	U	0.53	5.0		µg/L	1	8/15/2003
1,2-Dichloroethane	U	0.38	5.0		µg/L	1	8/15/2003
2-Butanone	U	0.70	10		µg/L	1	8/15/2003
2-Chloroethyl vinyl ether	U	0.63	10		µg/L	1	8/15/2003
2-Hexanone	U	1.1	10		µg/L	1	8/15/2003
4-Methyl-2-pentanone	U	0.64	10		µg/L	1	8/15/2003
Acetone	U	1.2	10		µg/L	1	8/15/2003
Benzene	U	0.66	5.0		µg/L	1	8/15/2003
Bromodichloromethane	U	0.45	5.0		µg/L	1	8/15/2003
Bromoform	U	0.40	5.0		µg/L	1	8/15/2003
Bromomethane	U	0.70	5.0		µg/L	1	8/15/2003
Carbon disulfide	U	0.76	10		µg/L	1	8/15/2003
Carbon tetrachloride	U	0.65	5.0		µg/L	1	8/15/2003
Chlorobenzene	U	0.43	5.0		µg/L	1	8/15/2003

Qualifiers

U - Analyzed for but Not Detected

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

P - Dual Column results percent difference > 40%

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

H - Analyzed outside of Hold Time

CLIENT: Navajo Refining Company
 Work Order: 0308134
 Project: NCL/TEL
 Lab ID: 0308134-03

Client Sample ID: MW-55
 Collection Date: 8/12/2003 11:30:00 AM
 Matrix: WATER

Analyses	Result	MDL	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chloroethane	U	0.56	5.0		µg/L	1	8/15/2003
Chloroform	U	0.52	5.0		µg/L	1	8/15/2003
Chloromethane	U	1.1	5.0		µg/L	1	8/15/2003
cis-1,3-Dichloropropene	U	0.47	5.0		µg/L	1	8/15/2003
Dibromochloromethane	U	0.53	5.0		µg/L	1	8/15/2003
Ethylbenzene	U	0.77	5.0		µg/L	1	8/15/2003
m,p-Xylene	U	1.3	10		µg/L	1	8/15/2003
Methylene chloride	U	0.60	10		µg/L	1	8/15/2003
Styrene	U	0.56	5.0		µg/L	1	8/15/2003
Tetrachloroethene	U	0.43	5.0		µg/L	1	8/15/2003
Toluene	U	0.69	5.0		µg/L	1	8/15/2003
trans-1,3-Dichloropropene	U	0.44	5.0		µg/L	1	8/15/2003
Trichloroethene	U	0.70	5.0		µg/L	1	8/15/2003
Vinyl acetate	U	0.92	10		µg/L	1	8/15/2003
Vinyl chloride	U	0.79	2.0		µg/L	1	8/15/2003
Xylenes, Total	U	1.8	15		µg/L	1	8/15/2003
Surr: 1,2-Dichloroethane-d4	83.6	0	70-130		%REC	1	8/15/2003
Surr: 4-Bromofluorobenzene	78.4	0	70-130		%REC	1	8/15/2003
Surr: Dibromofluoromethane	86.6	0	70-130		%REC	1	8/15/2003
Surr: Toluene-d8	82.7	0	70-130		%REC	1	8/15/2003

ANIONS BY ION CHROMATOGRAPHY

E300

Prep Date:

Analyst: **MG**

Chloride	276	2.00	5.00		mg/L	10	8/14/2003
Fluoride	1.23	0.0500	0.100		mg/L	1	8/14/2003
Sulfate	1,540	25.0	50.0		mg/L	50	8/14/2003
Nitrate/Nitrite (as N)	0.410	0.0440	0.100		mg/L	1	8/14/2003
Surr: Dichloroacetic acid (surr)	104	0	80-120		%REC	50	8/14/2003
Surr: Dichloroacetic acid (surr)	100	0	80-120		%REC	10	8/14/2003
Surr: Dichloroacetic acid (surr)	105	0	80-120		%REC	1	8/14/2003

ALKALINITY

E310.1

Prep Date:

Analyst: **LMD**

Alkalinity, Bicarbonate (As CaCO3)	370	2.0	5.00		mg/L	1	8/13/2003
Alkalinity, Carbonate (As CaCO3)	U	2.0	5.00		mg/L	1	8/13/2003
Alkalinity, Hydroxide (As CaCO3)	U	2.0	5.00		mg/L	1	8/13/2003
Alkalinity, Total (As CaCO3)	370	2.0	5.00		mg/L	1	8/13/2003

CYANIDE, TOTAL

E335.3

Prep Date:

Analyst: **LMD**

Cyanide	U	0.0030	0.0200		mg/L	1	8/17/2003
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Qualifiers

U - Analyzed for but Not Detected

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

P - Dual Column results percent difference > 40%

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

H - Analyzed outside of Hold Time

CLIENT: Navajo Refining Company
 Work Order: 0308134
 Project: NCL/TEL
 Lab ID: 0308134-04

Client Sample ID: NCL-33
 Collection Date: 8/12/2003 1:45:00 PM
 Matrix: WATER

Analyses	Result	MDL	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL		SW7470		Prep Date: 8/19/2003		Analyst: MG	
Mercury	U	0.00042	0.000200		mg/L	1	8/20/2003
ICP METALS, TOTAL		SW6020		Prep Date: 8/14/2003		Analyst: ALR	
Aluminum	0.592	0.0032	0.0200		mg/L	2	8/28/2003
Arsenic	0.00509	0.0018	0.00500		mg/L	1	8/16/2003
Barium	0.0623	0.00060	0.00500		mg/L	1	8/16/2003
Beryllium	U	0.00030	0.00200		mg/L	1	8/16/2003
Boron	0.531	0.022	0.0400		mg/L	2	8/28/2003
Cadmium	U	0.00015	0.00100		mg/L	1	8/16/2003
Calcium	354	4.0	25.0		mg/L	50	8/27/2003
Chromium	0.00658	0.00050	0.00200		mg/L	1	8/16/2003
Cobalt	0.00211	0.00010	0.00200		mg/L	1	8/16/2003
Copper	0.00611	0.00030	0.00200		mg/L	1	8/16/2003
Iron	2.31	0.025	0.200		mg/L	1	8/16/2003
Lead	0.00484	0.00020	0.00500	J	mg/L	1	8/16/2003
Magnesium	94.4	0.25	2.00		mg/L	10	8/27/2003
Manganese	0.132	0.0010	0.00500		mg/L	1	8/16/2003
Nickel	0.00831	0.00030	0.00500		mg/L	1	8/16/2003
Potassium	3.29	0.040	0.400		mg/L	2	8/28/2003
Selenium	0.00881	0.0017	0.00500		mg/L	1	8/16/2003
Silver	U	0.00020	0.00500		mg/L	1	8/16/2003
Sodium	98.3	0.32	2.00		mg/L	10	8/27/2003
Vanadium	0.00610	0.00040	0.00500		mg/L	1	8/16/2003
Zinc	0.0147	0.0015	0.00500		mg/L	1	8/16/2003
SEMIVOLATILE ORGANICS BY GC/MS		SW8270		Prep Date: 8/14/2003		Analyst: HV	
1,2,4-Trichlorobenzene	U	0.83	10		µg/L	1	8/18/2003
2,4,5-Trichlorophenol	U	2.4	10		µg/L	1	8/18/2003
2,4,6-Trichlorophenol	U	2.7	10		µg/L	1	8/18/2003
2-Methylnaphthalene	U	0.86	10		µg/L	1	8/18/2003
2-Methylphenol	U	2.8	10		µg/L	1	8/18/2003
2-Nitroaniline	U	1.1	10		µg/L	1	8/18/2003
2-Nitrophenol	U	2.6	10		µg/L	1	8/18/2003
3-Nitroaniline	U	1.2	10		µg/L	1	8/18/2003
4-Methylphenol	U	4.6	10		µg/L	1	8/18/2003
4-Nitroaniline	U	0.95	10		µg/L	1	8/18/2003
4-Nitrophenol	U	2.7	10		µg/L	1	8/18/2003
Acenaphthene	U	1.1	10		µg/L	1	8/18/2003
Acenaphthylene	U	1.0	10		µg/L	1	8/18/2003
Aniline	U	10	10		µg/L	1	8/18/2003

Qualifiers

U - Analyzed for but Not Detected

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

P - Dual Column results percent difference > 40%

E - Value above quantitation range

H - Analyzed outside of Hold Time

CLIENT: Navajo Refining Company
 Work Order: 0308134
 Project: NCL/TEL
 Lab ID: 0308134-04

Client Sample ID: NCL-33
 Collection Date: 8/12/2003 1:45:00 PM
 Matrix: WATER

Analyses	Result	MDL	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Anthracene	U	0.36	10		µg/L	1	8/18/2003
Benz(a)anthracene	U	0.77	10		µg/L	1	8/18/2003
Benzidine	U	0.34	10		µg/L	1	8/18/2003
Hexachloroethane	U	0.64	10		µg/L	1	8/18/2003
Indeno(1,2,3-cd)pyrene	U	0.77	10		µg/L	1	8/18/2003
Isophorone	U	1.2	10		µg/L	1	8/18/2003
N-Nitrosodi-n-propylamine	U	1.5	10		µg/L	1	8/18/2003
N-Nitrosodimethylamine	U	1.1	10		µg/L	1	8/18/2003
N-Nitrosodiphenylamine	U	1.3	10		µg/L	1	8/18/2003
Naphthalene	U	1.0	10		µg/L	1	8/18/2003
Nitrobenzene	U	1.7	10		µg/L	1	8/18/2003
Pentachlorophenol	U	1.5	10		µg/L	1	8/18/2003
Phenanthrene	U	1.2	10		µg/L	1	8/18/2003
Phenol	U	3.5	10		µg/L	1	8/18/2003
Pyrene	U	0.92	10		µg/L	1	8/18/2003
Surr: 2,4,6-Tribromophenol	99.2	0	10-123		%REC	1	8/18/2003
Surr: 2-Fluorobiphenyl	88.4	0	43-116		%REC	1	8/18/2003
Surr: 2-Fluorophenol	35.8	0	21-100		%REC	1	8/18/2003
Surr: 4-Terphenyl-d14	92.7	0	33-141		%REC	1	8/18/2003
Surr: Nitrobenzene-d5	87.6	0	35-114		%REC	1	8/18/2003
Surr: Phenol-d6	21.7	0	10-94		%REC	1	8/18/2003

VOLATILES BY GC/MS

SW8260

Prep Date:

Analyst: PC

1,1,1-Trichloroethane	U	0.62	5.0		µg/L	1	8/15/2003
1,1,2,2-Tetrachloroethane	U	0.58	5.0		µg/L	1	8/15/2003
1,1,2-Trichloroethane	U	0.41	5.0		µg/L	1	8/15/2003
1,1-Dichloroethane	U	0.43	5.0		µg/L	1	8/15/2003
1,1-Dichloroethene	U	0.53	5.0		µg/L	1	8/15/2003
1,2-Dichloroethane	U	0.38	5.0		µg/L	1	8/15/2003
2-Butanone	U	0.70	10		µg/L	1	8/15/2003
2-Chloroethyl vinyl ether	U	0.63	10		µg/L	1	8/15/2003
2-Hexanone	U	1.1	10		µg/L	1	8/15/2003
4-Methyl-2-pentanone	U	0.64	10		µg/L	1	8/15/2003
Acetone	U	1.2	10		µg/L	1	8/15/2003
Benzene	U	0.66	5.0		µg/L	1	8/15/2003
Bromodichloromethane	U	0.45	5.0		µg/L	1	8/15/2003
Bromoform	U	0.40	5.0		µg/L	1	8/15/2003
Bromomethane	U	0.70	5.0		µg/L	1	8/15/2003
Carbon disulfide	U	0.76	10		µg/L	1	8/15/2003
Carbon tetrachloride	U	0.65	5.0		µg/L	1	8/15/2003
Chlorobenzene	U	0.43	5.0		µg/L	1	8/15/2003

Qualifiers

U - Analyzed for but Not Detected

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

P - Dual Column results percent difference > 40%

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

H - Analyzed outside of Hold Time

CLIENT: Navajo Refining Company
 Work Order: 0308134
 Project: NCL/TEL
 Lab ID: 0308134-04

Client Sample ID: NCL-33
 Collection Date: 8/12/2003 1:45:00 PM
 Matrix: WATER

Analyses	Result	MDL	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chloroethane	U	0.56	5.0		µg/L	1	8/15/2003
Chloroform	U	0.52	5.0		µg/L	1	8/15/2003
Chloromethane	U	1.1	5.0		µg/L	1	8/15/2003
cis-1,3-Dichloropropene	U	0.47	5.0		µg/L	1	8/15/2003
Dibromochloromethane	U	0.53	5.0		µg/L	1	8/15/2003
Ethylbenzene	U	0.77	5.0		µg/L	1	8/15/2003
m,p-Xylene	U	1.3	10		µg/L	1	8/15/2003
Methylene chloride	U	0.60	10		µg/L	1	8/15/2003
Styrene	U	0.56	5.0		µg/L	1	8/15/2003
Tetrachloroethene	U	0.43	5.0		µg/L	1	8/15/2003
Toluene	U	0.69	5.0		µg/L	1	8/15/2003
trans-1,3-Dichloropropene	U	0.44	5.0		µg/L	1	8/15/2003
Trichloroethene	U	0.70	5.0		µg/L	1	8/15/2003
Vinyl acetate	U	0.92	10		µg/L	1	8/15/2003
Vinyl chloride	U	0.79	2.0		µg/L	1	8/15/2003
Xylenes, Total	U	1.8	15		µg/L	1	8/15/2003
Surr: 1,2-Dichloroethane-d4	78.8	0	70-130		%REC	1	8/15/2003
Surr: 4-Bromofluorobenzene	80.6	0	70-130		%REC	1	8/15/2003
Surr: Dibromofluoromethane	85.7	0	70-130		%REC	1	8/15/2003
Surr: Toluene-d8	83.7	0	70-130		%REC	1	8/15/2003
ANIONS BY ION CHROMATOGRAPHY		E300		Prep Date:		Analyst: MG	
Chloride	304	2.00	5.00		mg/L	10	8/14/2003
Fluoride	1.76	0.0500	0.100		mg/L	1	8/14/2003
Sulfate	315	5.00	10.0		mg/L	10	8/14/2003
Nitrate/Nitrite (as N)	0.300	0.0440	0.100		mg/L	1	8/14/2003
Surr: Dichloroacetic acid (surr)	105	0	80-120		%REC	10	8/14/2003
Surr: Dichloroacetic acid (surr)	89.6	0	80-120		%REC	1	8/14/2003
ALKALINITY		E310.1		Prep Date:		Analyst: LMD	
Alkalinity, Bicarbonate (As CaCO3)	650	2.0	5.00		mg/L	1	8/13/2003
Alkalinity, Carbonate (As CaCO3)	U	2.0	5.00		mg/L	1	8/13/2003
Alkalinity, Hydroxide (As CaCO3)	U	2.0	5.00		mg/L	1	8/13/2003
Alkalinity, Total (As CaCO3)	650	2.0	5.00		mg/L	1	8/13/2003
CYANIDE, TOTAL		E335.3		Prep Date:		Analyst: LMD	
Cyanide	0.00430	0.0030	0.0200	J	mg/L	1	8/17/2003

Qualifiers
 U - Analyzed for but Not Detected
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level
 S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time

CLIENT: Navajo Refining Company
 Work Order: 0308134
 Project: NCL/TEL
 Lab ID: 0308134-05

Client Sample ID: NCL-34
 Collection Date: 8/12/2003 2:00:00 PM
 Matrix: WATER

Analyses	Result	MDL	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL		SW7470		Prep Date: 8/19/2003		Analyst: MG	
Mercury	U	0.000042	0.000200		mg/L	1	8/20/2003
ICP METALS, TOTAL		SW6020		Prep Date: 8/14/2003		Analyst: ALR	
Aluminum	0.0211	0.0032	0.0200		mg/L	2	8/28/2003
Arsenic	0.00400	0.0018	0.00500	J	mg/L	1	8/16/2003
Barium	1.30	0.0060	0.0500		mg/L	10	8/27/2003
Beryllium	U	0.00030	0.00200		mg/L	1	8/28/2003
Boron	0.350	0.022	0.0400		mg/L	2	8/28/2003
Cadmium	U	0.00015	0.00100		mg/L	1	8/16/2003
Calcium	248	1.6	10.0		mg/L	20	8/27/2003
Chromium	0.00313	0.00050	0.00200		mg/L	1	8/16/2003
Cobalt	0.000289	0.00010	0.00200	J	mg/L	1	8/16/2003
Copper	0.00378	0.00030	0.00200		mg/L	1	8/16/2003
Iron	1.18	0.025	0.200		mg/L	1	8/16/2003
Lead	U	0.00020	0.00500		mg/L	1	8/16/2003
Magnesium	118	0.25	2.00		mg/L	10	8/27/2003
Manganese	0.146	0.0010	0.00500		mg/L	1	8/16/2003
Nickel	0.00698	0.00030	0.00500		mg/L	1	8/16/2003
Potassium	0.684	0.040	0.400		mg/L	2	8/28/2003
Selenium	0.00652	0.0017	0.00500		mg/L	1	8/16/2003
Silver	U	0.00020	0.00500		mg/L	1	8/16/2003
Sodium	147	0.64	4.00		mg/L	20	8/27/2003
Vanadium	U	0.00040	0.00500		mg/L	1	8/16/2003
Zinc	0.00827	0.0015	0.00500		mg/L	1	8/16/2003
SEMIVOLATILE ORGANICS BY GC/MS		SW8270		Prep Date: 8/14/2003		Analyst: HV	
1,2,4-Trichlorobenzene	U	0.83	10		µg/L	1	8/18/2003
2,4,5-Trichlorophenol	U	2.4	10		µg/L	1	8/18/2003
2,4,6-Trichlorophenol	U	2.7	10		µg/L	1	8/18/2003
2-Methylnaphthalene	11	0.86	10		µg/L	1	8/18/2003
2-Methylphenol	U	2.8	10		µg/L	1	8/18/2003
2-Nitroaniline	U	1.1	10		µg/L	1	8/18/2003
2-Nitrophenol	U	2.6	10		µg/L	1	8/18/2003
3-Nitroaniline	U	1.2	10		µg/L	1	8/18/2003
4-Methylphenol	U	4.6	10		µg/L	1	8/18/2003
4-Nitroaniline	U	0.95	10		µg/L	1	8/18/2003
4-Nitrophenol	U	2.7	10		µg/L	1	8/18/2003
Acenaphthene	U	1.1	10		µg/L	1	8/18/2003
Acenaphthylene	U	1.0	10		µg/L	1	8/18/2003
Aniline	U	10	10		µg/L	1	8/18/2003

Qualifiers

U - Analyzed for but Not Detected

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

P - Dual Column results percent difference > 40%

E - Value above quantitation range

H - Analyzed outside of Hold Time

CLIENT: Navajo Refining Company
 Work Order: 0308134
 Project: NCL/TEL
 Lab ID: 0308134-05

Client Sample ID: NCL-34
 Collection Date: 8/12/2003 2:00:00 PM
 Matrix: WATER

Analyses	Result	MDL	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Anthracene	U	0.36	10		µg/L	1	8/18/2003
Benz(a)anthracene	U	0.77	10		µg/L	1	8/18/2003
Benzidine	U	0.34	10		µg/L	1	8/18/2003
Hexachloroethane	U	0.64	10		µg/L	1	8/18/2003
Indeno(1,2,3-cd)pyrene	U	0.77	10		µg/L	1	8/18/2003
Isophorone	U	1.2	10		µg/L	1	8/18/2003
N-Nitrosodi-n-propylamine	U	1.5	10		µg/L	1	8/18/2003
N-Nitrosodimethylamine	U	1.1	10		µg/L	1	8/18/2003
N-Nitrosodiphenylamine	U	1.3	10		µg/L	1	8/18/2003
Naphthalene	21	1.0	10		µg/L	1	8/18/2003
Nitrobenzene	U	1.7	10		µg/L	1	8/18/2003
Pentachlorophenol	U	1.5	10		µg/L	1	8/18/2003
Phenanthrene	U	1.2	10		µg/L	1	8/18/2003
Phenol	U	3.5	10		µg/L	1	8/18/2003
Pyrene	U	0.92	10		µg/L	1	8/18/2003
Surr: 2,4,6-Tribromophenol	94.2	0	10-123		%REC	1	8/18/2003
Surr: 2-Fluorobiphenyl	82.2	0	43-116		%REC	1	8/18/2003
Surr: 2-Fluorophenol	37.5	0	21-100		%REC	1	8/18/2003
Surr: 4-Terphenyl-d14	89.2	0	33-141		%REC	1	8/18/2003
Surr: Nitrobenzene-d5	83.2	0	35-114		%REC	1	8/18/2003
Surr: Phenol-d6	24.3	0	10-94		%REC	1	8/18/2003

VOLATILES BY GC/MS

SW8260

Prep Date:

Analyst: PC

1,1,1-Trichloroethane	U	0.62	5.0		µg/L	1	8/15/2003
1,1,2,2-Tetrachloroethane	U	0.58	5.0		µg/L	1	8/15/2003
1,1,2-Trichloroethane	U	0.41	5.0		µg/L	1	8/15/2003
1,1-Dichloroethane	U	0.43	5.0		µg/L	1	8/15/2003
1,1-Dichloroethene	U	0.53	5.0		µg/L	1	8/15/2003
1,2-Dichloroethane	U	0.38	5.0		µg/L	1	8/15/2003
2-Butanone	U	0.70	10		µg/L	1	8/15/2003
2-Chloroethyl vinyl ether	U	0.63	10		µg/L	1	8/15/2003
2-Hexanone	U	1.1	10		µg/L	1	8/15/2003
4-Methyl-2-pentanone	U	0.64	10		µg/L	1	8/15/2003
Acetone	U	1.2	10		µg/L	1	8/15/2003
Benzene	2,400	13	100		µg/L	20	8/15/2003
Bromodichloromethane	U	0.45	5.0		µg/L	1	8/15/2003
Bromoform	U	0.40	5.0		µg/L	1	8/15/2003
Bromomethane	U	0.70	5.0		µg/L	1	8/15/2003
Carbon disulfide	U	0.76	10		µg/L	1	8/15/2003
Carbon tetrachloride	U	0.65	5.0		µg/L	1	8/15/2003
Chlorobenzene	U	0.43	5.0		µg/L	1	8/15/2003

Qualifiers

U - Analyzed for but Not Detected

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

P - Dual Column results percent difference > 40%

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

H - Analyzed outside of Hold Time

CLIENT: Navajo Refining Company
 Work Order: 0308134
 Project: NCL/TEL
 Lab ID: 0308134-05

Client Sample ID: NCL-34
 Collection Date: 8/12/2003 2:00:00 PM
 Matrix: WATER

Analyses	Result	MDL	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chloroethane	U	0.56	5.0		µg/L	1	8/15/2003
Chloroform	U	0.52	5.0		µg/L	1	8/15/2003
Chloromethane	U	1.1	5.0		µg/L	1	8/15/2003
cis-1,3-Dichloropropene	U	0.47	5.0		µg/L	1	8/15/2003
Dibromochloromethane	U	0.53	5.0		µg/L	1	8/15/2003
Ethylbenzene	500	15	100		µg/L	20	8/15/2003
m,p-Xylene	170	1.3	10		µg/L	1	8/15/2003
Methylene chloride	U	0.60	10		µg/L	1	8/15/2003
Styrene	U	0.56	5.0		µg/L	1	8/15/2003
Tetrachloroethene	U	0.43	5.0		µg/L	1	8/15/2003
Toluene	U	0.69	5.0		µg/L	1	8/15/2003
trans-1,3-Dichloropropene	U	0.44	5.0		µg/L	1	8/15/2003
Trichloroethene	U	0.70	5.0		µg/L	1	8/15/2003
Vinyl acetate	U	0.92	10		µg/L	1	8/15/2003
Vinyl chloride	U	0.79	2.0		µg/L	1	8/15/2003
Xylenes, Total	190	1.8	15		µg/L	1	8/15/2003
Surr: 1,2-Dichloroethane-d4	72.9	0	70-130		%REC	20	8/15/2003
Surr: 1,2-Dichloroethane-d4	77.5	0	70-130		%REC	1	8/15/2003
Surr: 4-Bromofluorobenzene	81.2	0	70-130		%REC	20	8/15/2003
Surr: 4-Bromofluorobenzene	83.3	0	70-130		%REC	1	8/15/2003
Surr: Dibromofluoromethane	78.1	0	70-130		%REC	20	8/15/2003
Surr: Dibromofluoromethane	80.3	0	70-130		%REC	1	8/15/2003
Surr: Toluene-d8	83.6	0	70-130		%REC	20	8/15/2003
Surr: Toluene-d8	84.1	0	70-130		%REC	1	8/15/2003

ANIONS BY ION CHROMATOGRAPHY

		E300			Prep Date:	Analyst: MG
Chloride	359	2.00	5.00		mg/L	8/14/2003
Fluoride	1.13	0.0500	0.100		mg/L	8/14/2003
Sulfate	221	5.00	10.0		mg/L	8/14/2003
Nitrate/Nitrite (as N)	U	0.0440	0.100		mg/L	8/14/2003
Surr: Dichloroacetic acid (surr)	98.0	0	80-120		%REC	8/14/2003
Surr: Dichloroacetic acid (surr)	102	0	80-120		%REC	8/14/2003

ALKALINITY

		E310.1			Prep Date:	Analyst: LMD
Alkalinity, Bicarbonate (As CaCO3)	620	2.0	5.00		mg/L	8/13/2003
Alkalinity, Carbonate (As CaCO3)	U	2.0	5.00		mg/L	8/13/2003
Alkalinity, Hydroxide (As CaCO3)	U	2.0	5.00		mg/L	8/13/2003
Alkalinity, Total (As CaCO3)	620	2.0	5.00		mg/L	8/13/2003

CYANIDE, TOTAL

		E335.3			Prep Date:	Analyst: LMD
Cyanide	0.00440	0.0030	0.0200	J	mg/L	8/17/2003

Qualifiers

- U - Analyzed for but Not Detected
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- B - Analyte detected in the associated Method Blank
- * - Value exceeds Maximum Contaminant Level
- S - Spike Recovery outside accepted recovery limits
- P - Dual Column results percent difference > 40%
- E - Value above quantitation range
- H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: Aug 29 2003

CLIENT: Navajo Refining Company

Work Order: 0308134

Project: NCL/TEL

QC BATCH REPORT

Batch ID: 6401 InstrumentID: 6020

MBLK Sample ID: MBLKW1-081403 Test Code: SW6020 Units: mg/L Analysis Date: 08/15/03 0:27
Client ID: Run ID: 6020_030814A SeqNo: 356574 Prep Date: 8/14/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.0050								
Barium	U	0.0050								
Beryllium	U	0.0020								
Boron	U	0.020								
Cadmium	U	0.0010								
Calcium	U	0.50								
Chromium	U	0.0020								
Cobalt	U	0.0020								
Copper	U	0.0020								
Iron	U	0.20								
Lead	0.0003047	0.0050								J
Manganese	U	0.0050								
Nickel	U	0.0050								
Potassium	U	0.20								
Selenium	U	0.0050								
Silver	U	0.0050								
Vanadium	U	0.0050								
Zinc	U	0.0050								

MBLK Sample ID: MBLKW1-081403 Test Code: SW6020 Units: mg/L Analysis Date: 08/26/03 23:20
Client ID: Run ID: 6020_030826A SeqNo: 361189 Prep Date: 8/14/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Magnesium	U	0.20								
Sodium	U	0.20								

MBLK Sample ID: MBLKW1-081403 Test Code: SW6020 Units: mg/L Analysis Date: 08/28/03 0:29
Client ID: Run ID: 6020_030827A SeqNo: 361822 Prep Date: 8/14/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	U	0.010								

ND - Not Detected at the Reporting Limit

- Analyte detected below quantitation limits

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R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0308134
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: 6401 InstrumentID: 6020

LCS		Sample ID: MLCSW1-081403		Test Code: SW6020		Units: mg/L		Analysis Date: 08/15/03 0:31		
Client ID:		Run ID: 6020_030814A		SeqNo: 356575		Prep Date: 8/14/2003		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.0999	0.0050	0.1	0	99.9	80-120	0			
Barium	0.1003	0.0050	0.1	0	100	80-120	0			
Beryllium	0.0999	0.0020	0.1	0	99.9	80-120	0			
Boron	0.4887	0.020	0.5	0	97.7	80-120	0			
Cadmium	0.09972	0.0010	0.1	0	99.7	80-120	0			
Calcium	10.88	0.50	10	0	109	80-120	0			
Chromium	0.11	0.0020	0.1	0	110	80-120	0			
Cobalt	0.1077	0.0020	0.1	0	108	80-120	0			
Copper	0.1081	0.0020	0.1	0	108	80-120	0			
Iron	10.65	0.20	10	0	106	80-120	0			
Lead	0.103	0.0050	0.1	0	103	80-120	0			
Manganese	0.1068	0.0050	0.1	0	107	80-120	0			
Nickel	0.1078	0.0050	0.1	0	108	80-120	0			
Potassium	11.23	0.20	10	0	112	80-120	0			
Selenium	0.09746	0.0050	0.1	0	97.5	80-120	0			
Silver	0.102	0.0050	0.1	0	102	80-120	0			
Vanadium	0.1069	0.0050	0.1	0	107	80-120	0			
Zinc	0.1026	0.0050	0.1	0	103	80-120	0			

LCS		Sample ID: MLCSW1-081403		Test Code: SW6020		Units: mg/L		Analysis Date: 08/26/03 23:25		
Client ID:		Run ID: 6020_030826A		SeqNo: 361190		Prep Date: 8/14/2003		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Magnesium	10.11	0.20	10	0	101	80-120	0			
Sodium	10.17	0.20	10	0	102	80-120	0			

LCS		Sample ID: MLCSW1-081403		Test Code: SW6020		Units: mg/L		Analysis Date: 08/28/03 0:33		
Client ID:		Run ID: 6020_030827A		SeqNo: 361823		Prep Date: 8/14/2003		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.09806	0.010	0.1	0	98.1	80-120	0			

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P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

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E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0308134
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: 6401 InstrumentID: 6020

MS Sample ID: 0308134-02BMS Test Code: SW6020 Units: mg/L Analysis Date: 08/16/03 2:41
 Client ID: MW-56 Run ID: 6020_030815A SeqNo: 357027 Prep Date: 8/14/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.08919	0.0050	0.1	0.007094	82.1	75-125	0			
Barium	0.1198	0.0050	0.1	0.01333	106	75-125	0			
Beryllium	0.09676	0.0020	0.1	-3.335E-06	96.8	75-125	0			
Boron	0.9248	0.020	0.5	0.4286	99.2	75-125	0			
Cadmium	0.0855	0.0010	0.1	0.00006465	85.4	75-125	0			
Chromium	0.09013	0.0020	0.1	-6.814E-06	90.1	75-125	0			
Cobalt	0.09439	0.0020	0.1	0.008299	86.1	75-125	0			
Copper	0.08596	0.0020	0.1	0.007855	78.1	75-125	0			
Iron	9.858	0.20	10	1.015	88.4	75-125	0			
Lead	0.1054	0.0050	0.1	0.0007367	105	75-125	0			
Manganese	0.3569	0.0050	0.1	0.2661	90.8	75-125	0			
Nickel	0.09058	0.0050	0.1	0.01039	80.2	75-125	0			
Selenium	0.09372	0.0050	0.1	0.01089	82.8	75-125	0			
Silver	0.08588	0.0050	0.1	-0.00005185	85.9	75-125	0			
Vanadium	0.1159	0.0050	0.1	0.02076	95.1	75-125	0			
Zinc	0.08363	0.0050	0.1	0.01771	65.9	75-125	0			S

MS Sample ID: 0308134-02BMS Test Code: SW6020 Units: mg/L Analysis Date: 08/28/03 3:05
 Client ID: MW-56 Run ID: 6020_030827A SeqNo: 361836 Prep Date: 8/14/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	478.1	0.50	10	463.5	146	75-125	0			SEO
Potassium	11.71	0.20	10	1.775	99.4	75-125	0			

ND - Not Detected at the Reporting Limit

- Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0308134
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: 6401 InstrumentID: 6020

MSD Sample ID: 0308134-02BMSD Test Code: SW6020 Units: mg/L Analysis Date: 08/16/03 2:46

Client ID: MW-56 Run ID: 6020_030815A SeqNo: 357028 Prep Date: 8/14/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.08793	0.0050	0.1	0.007094	80.8	75-125	0.08919	1.42	25	
Barium	0.1185	0.0050	0.1	0.01333	105	75-125	0.1198	1.09	25	
Beryllium	0.0987	0.0020	0.1	-3.335E-06	98.7	75-125	0.09676	1.99	25	
Boron	0.952	0.020	0.5	0.4286	105	75-125	0.9248	2.9	25	
Cadmium	0.08497	0.0010	0.1	0.00006465	84.9	75-125	0.0855	0.622	25	
Chromium	0.09409	0.0020	0.1	-6.814E-06	94.1	75-125	0.09013	4.3	25	
Cobalt	0.09748	0.0020	0.1	0.008299	89.2	75-125	0.09439	3.22	25	
Copper	0.08765	0.0020	0.1	0.007855	79.8	75-125	0.08596	1.95	25	
Iron	10.01	0.20	10	1.015	90	75-125	9.858	1.53	25	
Lead	0.1047	0.0050	0.1	0.0007367	104	75-125	0.1054	0.666	25	
Manganese	0.36	0.0050	0.1	0.2661	93.9	75-125	0.3569	0.865	25	
Nickel	0.09382	0.0050	0.1	0.01039	83.4	75-125	0.09058	3.51	25	
Selenium	0.09342	0.0050	0.1	0.01089	82.5	75-125	0.09372	0.321	25	
Silver	0.08507	0.0050	0.1	-0.00005185	85.1	75-125	0.08588	0.948	25	
Vanadium	0.1208	0.0050	0.1	0.02076	100	75-125	0.1159	4.14	25	
Zinc	0.08512	0.0050	0.1	0.01771	67.4	75-125	0.08363	1.77	25	S

MSD Sample ID: 0308134-02BMSD Test Code: SW6020 Units: mg/L Analysis Date: 08/28/03 3:09

Client ID: MW-56 Run ID: 6020_030827A SeqNo: 361837 Prep Date: 8/14/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	468.8	0.50	10	463.5	53	75-125	478.1	1.96	25	SEO
Potassium	11.44	0.20	10	1.775	96.6	75-125	11.71	2.33	25	

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

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S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0308134
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: 6401 InstrumentID: 6020

DUP		Sample ID: 0308134-02BDUP		Test Code: SW6020		Units: mg/L		Analysis Date: 08/16/03 2:37		
Client ID: MW-56		Run ID: 6020_030815A		SeqNo: 357026		Prep Date: 8/14/2003		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.006745	0.0050	0	0	0	0-0	0.007094	5.04	25	
Barium	0.01382	0.0050	0	0	0	0-0	0.01333	3.61	25	
Beryllium	U	0.0020	0	0	0	0-0	-3.335E-06	0	25	
Cadmium	U	0.0010	0	0	0	0-0	0.00006465	0	25	
Chromium	U	0.0020	0	0	0	0-0	-6.814E-06	0	25	
Cobalt	0.008371	0.0020	0	0	0	0-0	0.008299	0.864	25	
Copper	0.00789	0.0020	0	0	0	0-0	0.007855	0.445	25	
Iron	1.04	0.20	0	0	0	0-0	1.015	2.43	25	
Lead	0.0006342	0.0050	0	0	0	0-0	0.0007367	0	25	J
Nickel	0.009814	0.0050	0	0	0	0-0	0.01039	5.7	25	
Selenium	0.01235	0.0050	0	0	0	0-0	0.01089	12.6	25	
Silver	U	0.0050	0	0	0	0-0	-0.00005185	0	25	
Vanadium	0.0204	0.0050	0	0	0	0-0	0.02076	1.75	25	
Zinc	0.01802	0.0050	0	0	0	0-0	0.01771	1.74	25	

DUP		Sample ID: 0308134-02BDUP		Test Code: SW6020		Units: mg/L		Analysis Date: 08/26/03 23:46		
Client ID: MW-56		Run ID: 6020_030826A		SeqNo: 361195		Prep Date: 8/14/2003		DF: 20		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	514.6	10	0	0	0	0-0	509.2	1.05	25	
Magnesium	270.8	4.0	0	0	0	0-0	266.5	1.6	25	

DUP		Sample ID: 0308134-02BDUP		Test Code: SW6020		Units: mg/L		Analysis Date: 08/27/03 1:06		
Client ID: MW-56		Run ID: 6020_030826A		SeqNo: 361212		Prep Date: 8/14/2003		DF: 10		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium	223.6	2.0	0	0	0	0-0	218.6	2.26	25	

DUP		Sample ID: 0308134-02BDUP		Test Code: SW6020		Units: mg/L		Analysis Date: 08/28/03 0:47		
Client ID: MW-56		Run ID: 6020_030827A		SeqNo: 361826		Prep Date: 8/14/2003		DF: 2		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.04644	0.020	0	0	0	0-0	0.04608	0.778	25	
Boron	0.4914	0.040	0	0	0	0-0	0.5041	2.55	25	
Manganese	0.2839	0.010	0	0	0	0-0	0.283	0.318	25	
Potassium	1.795	0.40	0	0	0	0-0	1.854	3.23	25	

The following samples were analyzed in this batch:

0308134-01B	0308134-02B	0308134-03B
0308134-04B	0308134-05B	

ND - Not Detected at the Reporting Limit
 S - Spike Recovery outside accepted recovery limits
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 - Analyte detected below quantitation limits
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 U - Analyzed for but not detected
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 E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0308134
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: 6438	InstrumentID: Mercury									
MBLK	Sample ID: GBLKW1-081903	Test Code: SW7470			Units: mg/L		Analysis Date: 08/20/03 16:17			
Client ID:	Run ID: MERCURY_030820B	SeqNo: 358376	Prep Date: 8/19/2003	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U	0.00020								
LCS	Sample ID: GLCSW1-081903	Test Code: SW7470			Units: mg/L		Analysis Date: 08/20/03 16:18			
Client ID:	Run ID: MERCURY_030820B	SeqNo: 358377	Prep Date: 8/19/2003	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00476	0.00020	0.005	0	95.2	80-120	0			
LCS	Sample ID: GLCSW2-081903	Test Code: SW7470			Units: mg/L		Analysis Date: 08/20/03 16:20			
Client ID:	Run ID: MERCURY_030820B	SeqNo: 358378	Prep Date: 8/19/2003	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00489	0.00020	0.005	0	97.8	80-120	0			
MS	Sample ID: 0308149-02CMS	Test Code: SW7470			Units: mg/L		Analysis Date: 08/20/03 16:43			
Client ID:	Run ID: MERCURY_030820B	SeqNo: 358382	Prep Date: 8/19/2003	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00471	0.00020	0.005	0.000013	93.9	80-120	0			
MSD	Sample ID: 0308149-02CMSD	Test Code: SW7470			Units: mg/L		Analysis Date: 08/20/03 16:47			
Client ID:	Run ID: MERCURY_030820B	SeqNo: 358385	Prep Date: 8/19/2003	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00456	0.00020	0.005	0.000013	90.9	80-120	0.00471	3.24	20	
DUP	Sample ID: 0308149-02CDUP	Test Code: SW7470			Units: mg/L		Analysis Date: 08/20/03 16:41			
Client ID:	Run ID: MERCURY_030820B	SeqNo: 358381	Prep Date: 8/19/2003	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U	0.00020	0	0	0	0-0	0.000013	0	20	

The following samples were analyzed in this batch:

0308134-01B	0308134-03B	0308134-04B
0308134-05B		

ND - Not Detected at the Reporting Limit
 Analyte detected below quantitation limits
 O - Referenced analyte value is > 4 times amount spiked
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 B - Analyte detected in assoc. Method Blank
 U - Analyzed for but not detected
 E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0308134
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: 6412 InstrumentID: SV-3

MBLK Sample ID: SBLKW1-030814 Test Code: SW8270 Units: µg/L Analysis Date: 08/15/03 12:50
 Client ID: Run ID: SV-3_030815B SeqNo: 357308 Prep Date: 8/14/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	U	10								
2,4,5-Trichlorophenol	U	10								
2,4,6-Trichlorophenol	U	10								
2-Methylnaphthalene	U	10								
2-Methylphenol	U	10								
2-Nitroaniline	U	10								
2-Nitrophenol	U	10								
3-Nitroaniline	U	10								
4-Methylphenol	U	10								
4-Nitroaniline	U	10								
4-Nitrophenol	U	10								
Acenaphthene	U	10								
Acenaphthylene	U	10								
Aniline	U	10								
Anthracene	U	10								
Benz(a)anthracene	U	10								
Benzidine	U	10								
Hexachloroethane	U	10								
Indeno(1,2,3-cd)pyrene	U	10								
Isophorone	U	10								
N-Nitrosodi-n-propylamine	U	10								
N-Nitrosodimethylamine	U	10								
N-Nitrosodiphenylamine	U	10								
Naphthalene	U	10								
Nitrobenzene	U	10								
Pentachlorophenol	U	10								
Phenanthrene	U	10								
Phenol	U	10								
Pyrene	U	10								
1,4-Dichlorobenzene-d4	40	0								
Acenaphthene-d10	40	0								
Chrysene-d12	40	0								
Naphthalene-d8	40	0								
Perylene-d12	40	0								
Phenanthrene-d10	40	0								
Surr: 2,4,6-Tribromophenol	85.05	0	100	0	85	10-123		0		
Surr: 2-Fluorobiphenyl	73.55	0	100	0	73.5	43-116		0		
Surr: 2-Fluorophenol	35.68	0	100	0	35.7	21-100		0		
Surr: 4-Terphenyl-d14	100.6	0	100	0	101	33-141		0		
Surr: Nitrobenzene-d5	76.44	0	100	0	76.4	35-114		0		
Surr: Phenol-d6	21.66	0	100	0	21.7	10-94		0		

ND - Not Detected at the Reporting Limit

- Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0308134
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: 6412 InstrumentID: SV-3

LCS Sample ID: SLCSW1-030814 Test Code: SW8270 Units: µg/L Analysis Date: 08/15/03 13:18
 Client ID: Run ID: SV-3_030815B SeqNo: 357309 Prep Date: 8/14/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	36.47	10	50	0	72.9	51-110	0			
2,4,5-Trichlorophenol	89.73	10	100	0	89.7	55-130	0			
2,4,6-Trichlorophenol	88.33	10	100	0	88.3	55-130	0			
2-Methylnaphthalene	39.58	10	50	0	79.2	50-125	0			
2-Methylphenol	69.98	10	100	0	70	45-120	0			
2-Nitroaniline	45.28	10	50	0	90.6	55-130	0			
2-Nitrophenol	81.64	10	100	0	81.6	55-125	0			
3-Nitroaniline	37.83	10	50	0	75.7	55-120	0			
4-Methylphenol	94.3	10	150	0	62.9	40-120	0			
4-Nitroaniline	41.46	10	50	0	82.9	60-130	0			
4-Nitrophenol	35.11	10	100	0	35.1	25-100	0			
Acenaphthene	43.91	10	50	0	87.8	50-120	0			
Acenaphthylene	40.34	10	50	0	80.7	55-130	0			
Anthracene	46.26	10	50	0	92.5	60-130	0			
Benz(a)anthracene	41.44	10	50	0	82.9	60-130	0			
Benzidine	8.009	10	50	0	16	10-85	0			J
Hexachloroethane	33.77	10	50	0	67.5	40-120	0			
Indeno(1,2,3-cd)pyrene	39.76	10	50	0	79.5	60-130	0			
Isophorone	44.55	10	50	0	89.1	60-130	0			
N-Nitrosodi-n-propylamine	44.81	10	50	0	89.6	55-120	0			
N-Nitrosodimethylamine	23.01	10	50	0	46	35-110	0			
N-Nitrosodiphenylamine	48.23	10	50	0	96.5	60-130	0			
Naphthalene	38.2	10	50	0	76.4	55-130	0			
Nitrobenzene	42.16	10	50	0	84.3	60-130	0			
Pentachlorophenol	88.95	10	100	0	89	45-125	0			
Phenanthrene	43.7	10	50	0	87.4	60-130	0			
Phenol	32.07	10	100	0	32.1	20-100	0			
Pyrene	41.92	10	50	0	83.8	45-120	0			
Surr: 2,4,6-Tribromophenol	92.82	0	100	0	92.8	10-123	0			
Surr: 2-Fluorobiphenyl	82.4	0	100	0	82.4	43-116	0			
Surr: 2-Fluorophenol	44.66	0	100	0	44.7	21-100	0			
Surr:4-Terphenyl-d14	90.84	0	100	0	90.8	33-141	0			
Surr:Nitrobenzene-d5	80.01	0	100	0	80	35-114	0			
Surr: Phenol-d6	28.95	0	100	0	29	10-94	0			

ND - Not Detected at the Reporting Limit

O - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0308134
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: 6412 InstrumentID: SV-3

LCSD	Sample ID: SLCSDW1-030814	Test Code: SW8270	Units: µg/L	Analysis Date: 08/15/03 13:45						
Client ID:	Run ID: SV-3_030815B	SeqNo: 357310	Prep Date: 8/14/2003	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	36.28	10	50	0	72.6	51-110	36.47	0.525	30	
2,4,5-Trichlorophenol	88.1	10	100	0	88.1	55-130	89.73	1.83	30	
2,4,6-Trichlorophenol	89.18	10	100	0	89.2	55-130	88.33	0.953	30	
2-Methylnaphthalene	37.37	10	50	0	74.7	50-125	39.58	5.75	30	
2-Methylphenol	65.82	10	100	0	65.8	45-120	69.98	6.12	30	
2-Nitroaniline	47.89	10	50	0	95.8	55-130	45.28	5.62	30	
2-Nitrophenol	81.96	10	100	0	82	55-125	81.64	0.388	30	
3-Nitroaniline	39.41	10	50	0	78.8	55-120	37.83	4.07	30	
4-Methylphenol	90.98	10	150	0	60.7	40-120	94.3	3.58	30	
4-Nitroaniline	45.74	10	50	0	91.5	60-130	41.46	9.83	30	
4-Nitrophenol	32.96	10	100	0	33	25-100	35.11	6.32	30	
Acenaphthene	43.01	10	50	0	86	50-120	43.91	2.07	30	
Acenaphthylene	41.3	10	50	0	82.6	55-130	40.34	2.35	30	
Anthracene	47.43	10	50	0	94.9	60-130	46.26	2.48	30	
Benz(a)anthracene	43.14	10	50	0	86.3	60-130	41.44	4.01	30	
Benzidine	9.143	10	50	0	18.3	10-85	8.009	0	30	J
Hexachloroethane	32.83	10	50	0	65.7	40-120	33.77	2.83	30	
Indeno(1,2,3-cd)pyrene	39.85	10	50	0	79.7	60-130	39.76	0.215	30	
Isophorone	44.95	10	50	0	89.9	60-130	44.55	0.897	30	
N-Nitrosodi-n-propylamine	45.52	10	50	0	91	55-120	44.81	1.56	30	
N-Nitrosodimethylamine	19.37	10	50	0	38.7	35-110	23.01	17.2	30	
N-Nitrosodiphenylamine	50.37	10	50	0	101	60-130	48.23	4.35	30	
Naphthalene	39.38	10	50	0	78.8	55-130	38.2	3.05	30	
Nitrobenzene	43.35	10	50	0	86.7	60-130	42.16	2.79	30	
Pentachlorophenol	93.04	10	100	0	93	45-125	88.95	4.49	30	
Phenanthrene	44.89	10	50	0	89.8	60-130	43.7	2.69	30	
Phenol	29.12	10	100	0	29.1	20-100	32.07	9.67	30	
Pyrene	42.69	10	50	0	85.4	45-120	41.92	1.81	30	
Surr: 2,4,6-Tribromophenol	93.37	0	100	0	93.4	10-123	92.82	0.585	30	
Surr: 2-Fluorobiphenyl	80.77	0	100	0	80.8	43-116	82.4	1.99	30	
Surr: 2-Fluorophenol	41.11	0	100	0	41.1	21-100	44.66	8.27	30	
Surr:4-Terphenyl-d14	91.02	0	100	0	91	33-141	90.84	0.203	30	
Surr:Nitrobenzene-d5	80.33	0	100	0	80.3	35-114	80.01	0.396	30	
Surr: Phenol-d6	26.65	0	100	0	26.7	10-94	28.95	8.26	30	

The following samples were analyzed in this batch:

0308134-01E	0308134-02E	0308134-03E
0308134-04E	0308134-05E	

ND - Not Detected at the Reporting Limit
 - Analyte detected below quantitation limits
 O - Referenced analyte value is > 4 times amount spiked
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 B - Analyte detected in assoc. Method Blank
 U - Analyzed for but not detected
 E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0308134
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: R15673 InstrumentID: VOA_II

MBLK Sample ID: VBLKW-0814 Test Code: SW8260 Units: µg/L Analysis Date: 08/14/03 23:10

Client ID: Run ID: VOA_II_030814C SeqNo: 356789 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	5.0								
1,1,2,2-Tetrachloroethane	U	5.0								
1,1,2-Trichloroethane	U	5.0								
1,1-Dichloroethane	U	5.0								
1,1-Dichloroethene	U	5.0								
1,2-Dichloroethane	U	5.0								
2-Butanone	U	10								
2-Chloroethyl vinyl ether	U	10								
2-Hexanone	U	10								
4-Methyl-2-pentanone	U	10								
Acetone	U	10								
Benzene	U	5.0								
Bromodichloromethane	U	5.0								
Bromoform	U	5.0								
Bromomethane	U	5.0								
Carbon disulfide	U	10								
Carbon tetrachloride	U	5.0								
Chlorobenzene	U	5.0								
Chloroethane	U	5.0								
Chloroform	U	5.0								
Chloromethane	U	5.0								
cis-1,3-Dichloropropene	U	5.0								
Dibromochloromethane	U	5.0								
Ethylbenzene	U	5.0								
m,p-Xylene	U	10								
Methylene chloride	U	10								
Styrene	U	5.0								
Tetrachloroethene	U	5.0								
Toluene	U	5.0								
trans-1,3-Dichloropropene	U	5.0								
Trichloroethene	U	5.0								
Vinyl acetate	U	10								
Vinyl chloride	U	2.0								
Xylenes, Total	U	15								
Surr:1,2-Dichloroethane-d4	42.13	5.0	50	0	84.3	70-130	0			
Surr:4-Bromofluorobenzene	39.51	5.0	50	0	79	70-130	0			
Surr:Dibromofluoromethane	44.57	5.0	50	0	89.1	70-130	0			
Surr:Toluene-d8	42.37	5.0	50	0	84.7	70-130	0			

ND - Not Detected at the Reporting Limit

- Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0308134
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: R15673 InstrumentID: VOA_II

LCS Sample ID: VLCSW-0814 Test Code: SW8260 Units: µg/L Analysis Date: 08/14/03 21:53

Client ID: Run ID: VOA_II_030814C SeqNo: 356787 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	50.88	5.0	50	0	102	75-118	0			
1,1,2,2-Tetrachloroethane	41.19	5.0	50	0	82.4	79-120	0			
1,1,2-Trichloroethane	46.35	5.0	50	0	92.7	81-119	0			
1,1-Dichloroethane	50.69	5.0	50	0	101	80-120	0			
1,1-Dichloroethene	52.74	5.0	50	0	105	80-120	0			
1,2-Dichloroethane	48.26	5.0	50	0	96.5	80-120	0			
2-Butanone	103.8	10	100	0	104	70-130	0			
2-Chloroethyl vinyl ether	179.3	10	100	0	179	72-120	0			S
2-Hexanone	94.4	10	100	0	94.4	70-130	0			
4-Methyl-2-pentanone	94.02	10	100	0	94	78-120	0			
Acetone	99.71	10	100	0	99.7	60-135	0			
Benzene	50.8	5.0	50	0	102	82-119	0			
Bromodichloromethane	51.32	5.0	50	0	103	81-119	0			
Bromoform	44.96	5.0	50	0	89.9	80-120	0			
Bromomethane	48.95	5.0	50	0	97.9	75-130	0			
Carbon disulfide	100.5	10	100	0	100	78-120	0			
Carbon tetrachloride	53.63	5.0	50	0	107	77-120	0			
Chlorobenzene	46.52	5.0	50	0	93	82-118	0			
Chloroethane	48.85	5.0	50	0	97.7	78-122	0			
Chloroform	49.2	5.0	50	0	98.4	78-120	0			
Chloromethane	54.38	5.0	50	0	109	75-125	0			
cis-1,3-Dichloropropene	53.19	5.0	50	0	106	81-120	0			
Dibromochloromethane	47.12	5.0	50	0	94.2	81-118	0			
Ethylbenzene	50.86	5.0	50	0	102	82-120	0			
m,p-Xylene	101.6	10	100	0	102	82-122	0			
Methylene chloride	48.09	10	50	0	96.2	80-122	0			
Styrene	49.82	5.0	50	0	99.6	82-121	0			
Tetrachloroethene	50.96	5.0	50	0	102	79-118	0			
Toluene	50.27	5.0	50	0	101	81-119	0			
trans-1,3-Dichloropropene	50.67	5.0	50	0	101	82-121	0			
Trichloroethene	53	5.0	50	0	106	78-118	0			
Vinylacetate	94.63	10	100	0	94.6	75-120	0			
Vinyl chloride	49.02	2.0	50	0	98	73-127	0			
Xylenes, Total	154	15	150	0	103	80-120	0			
Surr: 1,2-Dichloroethane-d4	40.99	5.0	50	0	82	70-130	0			
Surr: 4-Bromofluorobenzene	42.94	5.0	50	0	85.9	70-130	0			
Surr: Dibromofluoromethane	43.34	5.0	50	0	86.7	70-130	0			
Surr: Toluene-d8	43.25	5.0	50	0	86.5	70-130	0			

ND - Not Detected at the Reporting Limit

Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0308134
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: R15673 InstrumentID: VOA_II

LCSD Sample ID: VLCSWD-0814 Test Code: SW8260 Units: µg/L Analysis Date: 08/14/03 22:19

Client ID: Run ID: VOA_II_030814C SeqNo: 356788 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	51.12	5.0	50	0	102	75-118	50.88	0.458	20	
1,1,2,2-Tetrachloroethane	39.71	5.0	50	0	79.4	79-120	41.19	3.67	20	
1,1,2-Trichloroethane	45.78	5.0	50	0	91.6	81-119	46.35	1.25	20	
1,1-Dichloroethane	48.62	5.0	50	0	97.2	80-120	50.69	4.18	20	
1,1-Dichloroethene	53.22	5.0	50	0	106	80-120	52.74	0.902	20	
1,2-Dichloroethane	46.89	5.0	50	0	93.8	80-120	48.26	2.88	20	
2-Butanone	99.9	10	100	0	99.9	70-130	103.8	3.81	20	
2-Chloroethyl vinyl ether	173.7	10	100	0	174	72-120	179.3	3.2	20	S
2-Hexanone	90.38	10	100	0	90.4	70-130	94.4	4.36	20	
4-Methyl-2-pentanone	89.33	10	100	0	89.3	78-120	94.02	5.12	20	
Acetone	99.36	10	100	0	99.4	60-135	99.71	0.354	20	
Benzene	51.6	5.0	50	0	103	82-119	50.8	1.56	20	
Bromodichloromethane	51.03	5.0	50	0	102	81-119	51.32	0.564	20	
Bromoform	42.98	5.0	50	0	86	80-120	44.96	4.51	20	
Bromomethane	49.34	5.0	50	0	98.7	75-130	48.95	0.783	20	
Carbon disulfide	100.9	10	100	0	101	78-120	100.5	0.406	20	
Carbontetrachloride	52.81	5.0	50	0	106	77-120	53.63	1.54	20	
Chlorobenzene	46.95	5.0	50	0	93.9	82-118	46.52	0.904	20	
Chloroethane	49.05	5.0	50	0	98.1	78-122	48.85	0.404	20	
Chloroform	49.39	5.0	50	0	98.8	78-120	49.2	0.403	20	
Chloromethane	53.36	5.0	50	0	107	75-125	54.38	1.88	20	
cis-1,3-Dichloropropene	53.57	5.0	50	0	107	81-120	53.19	0.719	20	
Dibromochloromethane	46.52	5.0	50	0	93	81-118	47.12	1.28	20	
Ethylbenzene	50.83	5.0	50	0	102	82-120	50.86	0.0468	20	
m,p-Xylene	101.3	10	100	0	101	82-122	101.6	0.298	20	
Methylene chloride	47.43	10	50	0	94.9	80-122	48.09	1.39	20	
Styrene	50.27	5.0	50	0	101	82-121	49.82	0.888	20	
Tetrachloroethene	50.65	5.0	50	0	101	79-118	50.96	0.617	20	
Toluene	49.82	5.0	50	0	99.6	81-119	50.27	0.904	20	
trans-1,3-Dichloropropene	50.92	5.0	50	0	102	82-121	50.67	0.483	20	
Trichloroethene	53.42	5.0	50	0	107	78-118	53	0.797	20	
Vinylacetate	89.01	10	100	0	89	75-120	94.63	6.12	20	
Vinyl chloride	49.36	2.0	50	0	98.7	73-127	49.02	0.69	20	
Xylenes, Total	153.3	15	150	0	102	80-120	154	0.425	20	
Surr: 1,2-Dichloroethane-d4	40.19	5.0	50	0	80.4	70-130	40.99	1.98	20	
Surr: 4-Bromofluorobenzene	42.48	5.0	50	0	85	70-130	42.94	1.08	20	
Surr: Dibromofluoromethane	42.97	5.0	50	0	85.9	70-130	43.34	0.867	20	
Surr: Toluene-d8	42.82	5.0	50	0	85.6	70-130	43.25	1.01	20	

The following samples were analyzed in this batch:

0308134-01A	0308134-02A	0308134-03A
0308134-04A	0308134-05A	

ND - Not Detected at the Reporting Limit

- Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0308134
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: R15682 InstrumentID: VOA_II

MBLK	Sample ID: VBLKW-0815	Test Code: SW8260	Units: µg/L	Analysis Date: 08/15/03 11:16						
Client ID:	Run ID: VOA_II_030815A	SeqNo: 356925	Prep Date:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	5.0								
1,1,2,2-Tetrachloroethane	U	5.0								
1,1,2-Trichloroethane	U	5.0								
1,1-Dichloroethane	U	5.0								
1,1-Dichloroethene	U	5.0								
1,2-Dichloroethane	U	5.0								
2-Butanone	U	10								
2-Chloroethyl vinyl ether	U	10								
2-Hexanone	U	10								
4-Methyl-2-pentanone	U	10								
Acetone	U	10								
Benzene	U	5.0								
Bromodichloromethane	U	5.0								
Bromoform	U	5.0								
Bromomethane	U	5.0								
Carbon disulfide	U	10								
Carbontetrachloride	U	5.0								
Chlorobenzene	U	5.0								
Chloroethane	U	5.0								
Chloroform	U	5.0								
Chloromethane	U	5.0								
cis-1,3-Dichloropropene	U	5.0								
Dibromochloromethane	U	5.0								
Ethylbenzene	U	5.0								
m,p-Xylene	U	10								
Methylene chloride	U	10								
Styrene	U	5.0								
Tetrachloroethene	U	5.0								
Toluene	U	5.0								
trans-1,3-Dichloropropene	U	5.0								
Trichloroethene	U	5.0								
Vinylacetate	U	10								
Vinyl chloride	U	2.0								
Xylenes, Total	U	15								
Surr:1,2-Dichloroethane-d4	39.21	5.0	50	0	78.4	70-130	0			
Surr:4-Bromofluorobenzene	39.2	5.0	50	0	78.4	70-130	0			
Surr:Dibromofluoromethane	42.53	5.0	50	0	85.1	70-130	0			
Surr:Toluene-d8	41.75	5.0	50	0	83.5	70-130	0			

ND - Not Detected at the Reporting Limit
 - Analyte detected below quantitation limits
 O - Referenced analyte value is > 4 times amount spiked
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 B - Analyte detected in assoc. Method Blank
 U - Analyzed for but not detected
 E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0308134
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: R15682 InstrumentID: VOA_II

LCS	Sample ID: VLCSW-0815	Test Code: SW8260		Units: µg/L		Analysis Date: 08/15/03 9:58				
Client ID:	Run ID: VOA_II_030815A	SeqNo: 356923	Prep Date:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	46.3	5.0	50	0	92.6	75-118	0			
1,1,2,2-Tetrachloroethane	39.57	5.0	50	0	79.1	79-120	0			
1,1,2-Trichloroethane	41.47	5.0	50	0	82.9	81-119	0			
1,1-Dichloroethane	47.48	5.0	50	0	95	80-120	0			
1,1-Dichloroethene	49.06	5.0	50	0	98.1	80-120	0			
1,2-Dichloroethane	44.94	5.0	50	0	89.9	80-120	0			
2-Butanone	78.24	10	100	0	78.2	70-130	0			
2-Chloroethyl vinyl ether	171.7	10	100	0	172	72-120	0			S
2-Hexanone	86.97	10	100	0	87	70-130	0			
4-Methyl-2-pentanone	86.11	10	100	0	86.1	78-120	0			
Acetone	76.32	10	100	0	76.3	60-135	0			
Benzene	49.87	5.0	50	0	99.7	82-119	0			
Bromodichloromethane	47.51	5.0	50	0	95	81-119	0			
Bromoform	42.87	5.0	50	0	85.7	80-120	0			
Bromomethane	47.19	5.0	50	0	94.4	75-130	0			
Carbon disulfide	94.34	10	100	0	94.3	78-120	0			
Carbontetrachloride	51.8	5.0	50	0	104	77-120	0			
Chlorobenzene	47.19	5.0	50	0	94.4	82-118	0			
Chloroethane	45.29	5.0	50	0	90.6	78-122	0			
Chloroform	45	5.0	50	0	90	78-120	0			
Chloromethane	47.21	5.0	50	0	94.4	75-125	0			
cis-1,3-Dichloropropene	51.26	5.0	50	0	103	81-120	0			
Dibromochloromethane	42.03	5.0	50	0	84.1	81-118	0			
Ethylbenzene	52.29	5.0	50	0	105	82-120	0			
m,p-Xylene	104	10	100	0	104	82-122	0			
Methylene chloride	43.8	10	50	0	87.6	80-122	0			
Styrene	50.73	5.0	50	0	101	82-121	0			
Tetrachloroethene	51.66	5.0	50	0	103	79-118	0			
Toluene	50.09	5.0	50	0	100	81-119	0			
trans-1,3-Dichloropropene	48.4	5.0	50	0	96.8	82-121	0			
Trichloroethene	50.82	5.0	50	0	102	78-118	0			
Vinylacetate	88.95	10	100	0	88.9	75-120	0			
Vinyl chloride	45.32	2.0	50	0	90.6	73-127	0			
Xylenes, Total	157.2	15	150	0	105	80-120	0			
Surr:1,2-Dichloroethane-d4	36.73	5.0	50	0	73.5	70-130	0			
Surr:4-Bromofluorobenzene	42.08	5.0	50	0	84.2	70-130	0			
Surr:Dibromofluoromethane	38.88	5.0	50	0	77.8	70-130	0			
Surr:Toluene-d8	41.95	5.0	50	0	83.9	70-130	0			

ND - Not Detected at the Reporting Limit
 Analyte detected below quantitation limits
 O - Referenced analyte value is > 4 times amount spiked
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 B - Analyte detected in assoc. Method Blank
 U - Analyzed for but not detected
 E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0308134
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: R15682 InstrumentID: VOA_II

LCSID Sample ID: VLCSWD-0815 Test Code: SW8260 Units: µg/L Analysis Date: 08/15/03 10:24

Client ID: Run ID: VOA_II_030815A SeqNo: 356924 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	46.8	5.0	50	0	93.6	75-118	0			
1,1,2,2-Tetrachloroethane	39.63	5.0	50	0	79.3	79-120	0			
1,1,2-Trichloroethane	44.12	5.0	50	0	88.2	81-119	0			
1,1-Dichloroethane	45.49	5.0	50	0	91	80-120	0			
1,1-Dichloroethene	48.99	5.0	50	0	98	80-120	0			
1,2-Dichloroethane	45.93	5.0	50	0	91.9	80-120	0			
2-Butanone	94.89	10	100	0	94.9	70-130	0			
2-Chloroethyl vinyl ether	172.7	10	100	0	173	72-120	0			S
2-Hexanone	88.09	10	100	0	88.1	70-130	0			
4-Methyl-2-pentanone	88.43	10	100	0	88.4	78-120	0			
Acetone	85.92	10	100	0	85.9	60-135	0			
Benzene	51.24	5.0	50	0	102	82-119	0			
Bromodichloromethane	49.56	5.0	50	0	99.1	81-119	0			
Bromoform	42.62	5.0	50	0	85.2	80-120	0			
Bromomethane	47.83	5.0	50	0	95.7	75-130	0			
Carbon disulfide	96.1	10	100	0	96.1	78-120	0			
Carbontetrachloride	51.86	5.0	50	0	104	77-120	0			
Chlorobenzene	46.92	5.0	50	0	93.8	82-118	0			
Chloroethane	46.43	5.0	50	0	92.9	78-122	0			
Chloroform	45.79	5.0	50	0	91.6	78-120	0			
Chloromethane	47.85	5.0	50	0	95.7	75-125	0			
cis-1,3-Dichloropropene	53.67	5.0	50	0	107	81-120	0			
Dibromochloromethane	44.99	5.0	50	0	90	81-118	0			
Ethylbenzene	51.15	5.0	50	0	102	82-120	0			
m,p-Xylene	103	10	100	0	103	82-122	0			
Methylene chloride	46.08	10	50	0	92.2	80-122	0			
Styrene	49.71	5.0	50	0	99.4	82-121	0			
Tetrachloroethene	51.8	5.0	50	0	104	79-118	0			
Toluene	50.13	5.0	50	0	100	81-119	0			
trans-1,3-Dichloropropene	49.71	5.0	50	0	99.4	82-121	0			
Trichloroethene	52.68	5.0	50	0	105	78-118	0			
Vinylacetate	101.7	10	100	0	102	75-120	0			
Vinyl chloride	46.11	2.0	50	0	92.2	73-127	0			
Xylenes, Total	155.3	15	150	0	104	80-120	0			
Surr:1,2-Dichloroethane-d4	35.13	5.0	50	0	70.3	70-130	0			
Surr:4-Bromofluorobenzene	40.77	5.0	50	0	81.5	70-130	0			
Surr:Dibromofluoromethane	39.87	5.0	50	0	79.7	70-130	0			
Surr:Toluene-d8	42.29	5.0	50	0	84.6	70-130	0			

ND - Not Detected at the Reporting Limit

- Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0308134
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: R15682 InstrumentID: VOA_II

MS Sample ID: 0308151-06AMS Test Code: SW8260 Units: µg/L Analysis Date: 08/15/03 15:12
 Client ID: Run ID: VOA_II_030815A SeqNo: 356928 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	46.79	5.0	50	0	93.6	75-125	0			
1,1,2,2-Tetrachloroethane	47.92	5.0	50	0	95.8	75-125	0			
1,1,2-Trichloroethane	46.66	5.0	50	0	93.3	75-125	0			
1,1-Dichloroethane	49.13	5.0	50	0	98.3	75-125	0			
1,1-Dichloroethene	50.19	5.0	50	0	100	65-130	0			
1,2-Dichloroethane	49.36	5.0	50	0	98.7	70-130	0			
2-Butanone	95.3	10	100	0	95.3	64-128	0			
2-Chloroethyl vinyl ether	29.16	10	100	0	29.2	75-125	0			S
2-Hexanone	112	10	100	0	112	72-124	0			
4-Methyl-2-pentanone	112.5	10	100	0	112	75-125	0			
Acetone	78.22	10	100	0	78.2	60-130	0			
Benzene	51.36	5.0	50	0	103	76-127	0			
Bromodichloromethane	50.61	5.0	50	0	101	75-125	0			
Bromoform	47.42	5.0	50	0	94.8	75-125	0			
Bromomethane	44.91	5.0	50	0	89.8	75-125	0			
Carbon disulfide	95.92	10	100	0	95.9	75-125	0			
Carbon tetrachloride	51.44	5.0	50	0	103	70-130	0			
Chlorobenzene	48.44	5.0	50	0	96.9	75-126	0			
Chloroethane	45.33	5.0	50	0	90.7	70-130	0			
Chloroform	49.53	5.0	50	0	99.1	75-125	0			
Chloromethane	50.44	5.0	50	0	101	75-125	0			
cis-1,3-Dichloropropene	53.42	5.0	50	0	107	75-125	0			
Dibromochloromethane	46.15	5.0	50	0	92.3	75-125	0			
Ethylbenzene	52.32	5.0	50	0	105	75-125	0			
m,p-Xylene	105.4	10	100	0	105	75-125	0			
Methylene chloride	46.3	10	50	0	92.6	75-125	0			
Styrene	52.31	5.0	50	0	105	75-125	0			
Tetrachloroethene	50.19	5.0	50	0	100	75-125	0			
Toluene	50.59	5.0	50	0	101	76-125	0			
trans-1,3-Dichloropropene	53.26	5.0	50	0	107	70-130	0			
Trichloroethene	51.6	5.0	50	0	103	71-120	0			
Vinylacetate	107.6	10	100	0	108	75-125	0			
Vinyl chloride	45.36	2.0	50	0	90.7	60-135	0			
Xylenes, Total	159.2	15	150	0	106	75-125	0			
Surr:1,2-Dichloroethane-d4	37.85	5.0	50	0	75.7	70-130	0			
Surr:4-Bromofluorobenzene	42.67	5.0	50	0	85.3	70-130	0			
Surr:Dibromofluoromethane	41.56	5.0	50	0	83.1	70-130	0			
Surr:Toluene-d8	41.99	5.0	50	0	84	70-130	0			

ND - Not Detected at the Reporting Limit

Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0308134
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: R15682 InstrumentID: VOA_II

MSD Sample ID: 0308151-06AMSD Test Code: SW8260 Units: µg/L Analysis Date: 08/15/03 15:38

Client ID: Run ID: VOA_II_030815A SeqNo: 356929 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	43.75	5.0	50	0	87.5	75-125	46.79	6.72	20	
1,1,2,2-Tetrachloroethane	43.49	5.0	50	0	87	75-125	47.92	9.69	20	
1,1,2-Trichloroethane	45.48	5.0	50	0	91	75-125	46.66	2.56	20	
1,1-Dichloroethane	46.63	5.0	50	0	93.3	75-125	49.13	5.21	20	
1,1-Dichloroethane	46.72	5.0	50	0	93.4	65-130	50.19	7.17	20	
1,2-Dichloroethane	46.94	5.0	50	0	93.9	70-130	49.36	5.03	20	
2-Butanone	98.11	10	100	0	98.1	64-128	95.3	2.91	20	
2-Chloroethyl vinyl ether	34.55	10	100	0	34.6	75-125	29.16	16.9	20	S
2-Hexanone	101.8	10	100	0	102	72-124	112	9.6	20	
4-Methyl-2-pentanone	102.9	10	100	0	103	75-125	112.5	8.85	20	
Acetone	76.71	10	100	0	76.7	60-130	78.22	1.96	20	
Benzene	48.77	5.0	50	0	97.5	76-127	51.36	5.17	20	
Bromodichloromethane	48.5	5.0	50	0	97	75-125	50.61	4.25	20	
Bromoform	43.54	5.0	50	0	87.1	75-125	47.42	8.54	20	
Bromomethane	44.85	5.0	50	0	89.7	75-125	44.91	0.137	20	
Carbon disulfide	90.89	10	100	0	90.9	75-125	95.92	5.38	20	
Carbon tetrachloride	45.18	5.0	50	0	90.4	70-130	51.44	13	20	
Chlorobenzene	45.35	5.0	50	0	90.7	75-126	48.44	6.59	20	
Chloroethane	44.48	5.0	50	0	89	70-130	45.33	1.9	20	
Chloroform	47.11	5.0	50	0	94.2	75-125	49.53	5	20	
Chloromethane	48.34	5.0	50	0	96.7	75-125	50.44	4.26	20	
cis-1,3-Dichloropropene	52.15	5.0	50	0	104	75-125	53.42	2.4	20	
Dibromochloromethane	45.28	5.0	50	0	90.6	75-125	46.15	1.89	20	
Ethylbenzene	47.14	5.0	50	0	94.3	75-125	52.32	10.4	20	
m,p-Xylene	95.04	10	100	0	95	75-125	105.4	10.4	20	
Methylene chloride	45.4	10	50	0	90.8	75-125	46.3	1.96	20	
Styrene	48.3	5.0	50	0	96.6	75-125	52.31	7.96	20	
Tetrachloroethene	45.09	5.0	50	0	90.2	75-125	50.19	10.7	20	
Toluene	46.92	5.0	50	0	93.8	76-125	50.59	7.53	20	
trans-1,3-Dichloropropene	50.52	5.0	50	0	101	70-130	53.26	5.27	20	
Trichloroethene	48.49	5.0	50	0	97	71-120	51.6	6.22	20	
Vinylacetate	106	10	100	0	106	75-125	107.6	1.52	20	
Vinyl chloride	43.01	2.0	50	0	86	60-135	45.36	5.31	20	
Xylenes, Total	144.4	15	150	0	96.3	75-125	159.2	9.77	20	
Surr:1,2-Dichloroethane-d4	38.8	5.0	50	0	77.6	70-130	37.85	2.47	20	
Surr:4-Bromofluorobenzene	41.29	5.0	50	0	82.6	70-130	42.67	3.3	20	
Surr:Dibromofluoromethane	41.96	5.0	50	0	83.9	70-130	41.56	0.956	20	
Surr:Toluene-d8	42.1	5.0	50	0	84.2	70-130	41.99	0.251	20	

The following samples were analyzed in this batch: 0308134-05A

ND - Not Detected at the Reporting Limit

- Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0308134
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: R15643 InstrumentID: WetChemistry

MBLK Sample ID: WMBW1-081303 Test Code: E310.1 Units: mg/L Analysis Date: 08/13/03 0:00
 Client ID: Run ID: WET CHEMISTRY_0308 SeqNo: 356132 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	U	5.0								
Alkalinity, Carbonate (As CaCO3)	U	5.0								
Alkalinity, Hydroxide (As CaCO3)	U	5.0								
Alkalinity, Total (As CaCO3)	U	5.0								

LCS Sample ID: WLCSW1-081303 Test Code: E310.1 Units: mg/L Analysis Date: 08/13/03 0:00
 Client ID: Run ID: WET CHEMISTRY_0308 SeqNo: 356133 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	1000	5.0	1000	0	100	80-120	0			

DUP Sample ID: 0308106-03D DUP Test Code: E310.1 Units: mg/L Analysis Date: 08/13/03 0:00
 Client ID: Run ID: WET CHEMISTRY_0308 SeqNo: 356141 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	185	5.0	0	0	0	0-0	180	2.74	20	
Alkalinity, Carbonate (As CaCO3)	U	5.0	0	0	0	0-0	0	0	20	
Alkalinity, Hydroxide (As CaCO3)	U	5.0	0	0	0	0-0	0	0	20	
Alkalinity, Total (As CaCO3)	185	5.0	0	0	0	0-0	180	2.74	20	

The following samples were analyzed in this batch:

0308134-01C	0308134-02C	0308134-03C
0308134-04C	0308134-05C	

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0308134
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: R15690 InstrumentID: WetChemistry

MBLK Sample ID: WMBW1-081703 Test Code: E335.3 Units: mg/L Analysis Date: 08/17/03 0:00
 Client ID: Run ID: WET CHEMISTRY_0308 SeqNo: 357183 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide	U	0.020								

LCS Sample ID: WLCSW1-081703 Test Code: E335.3 Units: mg/L Analysis Date: 08/17/03 0:00
 Client ID: Run ID: WET CHEMISTRY_0308 SeqNo: 357184 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide	0.2034	0.020	0.2	0	102	80-120	0			

MS Sample ID: 0308113-01EMS Test Code: E335.3 Units: mg/L Analysis Date: 08/17/03 0:00
 Client ID: Run ID: WET CHEMISTRY_0308 SeqNo: 357203 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide	0.1994	0.020	0.2	0.0077	95.8	75-125	0			

MSD Sample ID: 0308113-01E MSD Test Code: E335.3 Units: mg/L Analysis Date: 08/17/03 0:00
 Client ID: Run ID: WET CHEMISTRY_0308 SeqNo: 357211 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide	0.1975	0.020	0.2	0.0077	94.9	75-125	0.1994	0.957	25	

DUP Sample ID: 0308113-01E DUP Test Code: E335.3 Units: mg/L Analysis Date: 08/17/03 0:00
 Client ID: Run ID: WET CHEMISTRY_0308 SeqNo: 357202 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide	0.0071	0.020	0	0	0	0-0	0.0077	0	20	J

The following samples were analyzed in this batch:

0308134-01D	0308134-02D	0308134-03D
0308134-04D	0308134-05D	

ND - Not Detected at the Reporting Limit
 - Analyte detected below quantitation limits
 O - Referenced analyte value is > 4 times amount spiked
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 B - Analyte detected in assoc. Method Blank
 U - Analyzed for but not detected
 E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0308134
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: R15702 InstrumentID: IC201

MBLK Sample ID: WBLKW1-081303 Test Code: E300 Units: mg/L Analysis Date: 08/14/03 2:17

Client ID: Run ID: IC201_030813A SeqNo: 357407 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	U	0.50								
Fluoride	U	0.10								
Sulfate	U	1.0								
Nitrate/Nitrite (as N)	U	0.10								
Surr: Dichloroacetic acid (surr)	U	0.10								

LCS Sample ID: WLCSW1-081303 Test Code: E300 Units: mg/L Analysis Date: 08/14/03 2:49

Client ID: Run ID: IC201_030813A SeqNo: 357408 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	9.56	0.50	10	0	95.6	80-120	0			
Fluoride	1.9	0.10	2	0	95	80-120	0			
Sulfate	10.05	1.0	10	0	100	80-120	0			
Surr: Dichloroacetic acid (surr)	1.78	0.10	2	0	89	80-120	0			

MS Sample ID: 0308134-01CMS Test Code: E300 Units: mg/L Analysis Date: 08/14/03 4:27

Client ID: MW-54A Run ID: IC201_030813A SeqNo: 357413 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	241.9	0.50	10	233.9	80	75-125	0			EO
Fluoride	2.87	0.10	2	1.07	90	75-125	0			
Sulfate	783.9	1.0	10	784	-1.9	75-125	0			SEO
Nitrate/Nitrite (as N)	4.19	0.10	4	0.54	91.2	75-125	0			
Surr: Dichloroacetic acid (surr)	4.16	0.10	5	0	83.2	80-120	0			

MSD Sample ID: 0308134-01CMSD Test Code: E300 Units: mg/L Analysis Date: 08/14/03 5:00

Client ID: MW-54A Run ID: IC201_030813A SeqNo: 357414 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	242.5	0.50	10	233.9	85.6	75-125	241.9	0.231	20	EO
Fluoride	2.97	0.10	2	1.07	95	75-125	2.87	3.42	20	
Sulfate	783.9	1.0	10	784	-1.5	75-125	783.9	0.0051	20	SEO
Nitrate/Nitrite (as N)	4.14	0.10	4	0.54	90	75-125	4.19	1.2	20	
Surr: Dichloroacetic acid (surr)	4.24	0.10	5	0	84.8	80-120	4.16	1.9	20	

ND - Not Detected at the Reporting Limit

- Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0308134
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: R15702 InstrumentID: IC201

DUP	Sample ID: 0308134-01CDUP	Test Code: E300	Units: mg/L	Analysis Date: 08/14/03 3:54						
Client ID: MW-54A	Run ID: IC201_030813A	SeqNo: 357412	Prep Date:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluoride	0.93	0.10	0	0	0	0-0	1.07	14	20	
Nitrate/Nitrite (as N)	0.51	0.10	0	0	0	0-0	0.54	5.71	20	
Surr: Dichloroacetic acid (surr)	4.62	0.10	5	0	92.4	80-120	5.9	24.3	20	R

The following samples were analyzed in this batch:

0308134-01C	0308134-02C	0308134-03C
0308134-04C	0308134-05C	

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range



e-Lab, Inc.
10450 Stancil Rd. #210
Houston, Texas 77099
(Tel) 281.530.5656
(Fax) 281.530.5887

Chain of Custody Form

Page 1 of 1

e-Lab, Inc.
3352 128th Avenue
Holland, Michigan 49424
(Tel) 616.399.6070
(Fax) 616.399.6185

Customer Information		Project Information		Parameter/Method Request for Analysis													
Purchase Order	Project Name	Project Number	Project Manager	A	B	C	D	E	F	G	H	I	J	Hold	e-Lab Work Order #		
Work Order	Bill To Company	Invoice Attn.	Address	NCL/TEL													01831
Company Name	City/State/Zip	Phone	Fax														
Send Report To	City/State/Zip	Phone	Fax														
Address	City/State/Zip	Phone	Fax														
City/State/Zip	City/State/Zip	Phone	Fax														
Phone	City/State/Zip	Phone	Fax														
Fax	City/State/Zip	Phone	Fax														
e-Mail Address	City/State/Zip	Phone	Fax														
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	
1	MW-54A	8/12/03	1015	L	Y	8	X										
2	MW-56		1100				X										
3	MW-55		1130				X										
4	NCL-33		1345				X										
5	NCL-34		1400				X										
6																	
7																	
8																	
9																	
10																	
Sampler(s): Please Print & Sign		Shipment Method:		Required Turnaround Time:		Results Due Date:											
Byrd		FedEx		STANDARD 10 Wk Days		Other											
Relinquished by:		Date:	Time:	Received by:		Time:		Notes:									
Byrd		8/12/03	1615	Byrd		17103											
Relinquished by:		Date:	Time:	Received by (Laboratory):		Time:		Cooler Temp:									
Byrd				Byrd		17103											
Logged by (Laboratory):		Date:	Time:	Checked by (Laboratory):		Time:		QC Package: (Check Box Below)									
				Byrd		17103		<input type="checkbox"/> Level II: Standard QC <input type="checkbox"/> Level III: Standard QC + Raw Data <input type="checkbox"/> Level IV: SW846 Methods/CLP Other:									

Note: Any changes must be made in writing once samples and COC Form have been submitted to e-Lab, Inc.

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W.A. # B08134

NAVAJO REFINING COMPANY

501 E. MAIN STREET
ARTESIA NM 88210
5057483311

SHIP DATE: 12AUG2003
ACCOUNT #: 113684186
ACTUAL WGT: 100.00 LBS

Part # 156148-434 NRIIT 602



TO:

2815305656
BILL RECIPIENT

E-LAB
SAMPLE RECEIVING
10450 STANCLIFF ROAD STE 210
HOUSTON TX 77099



Delivery Address Barcode

FedEx PRIORITY OVERNIGHT

WED

System # 2223500 12AUG2003

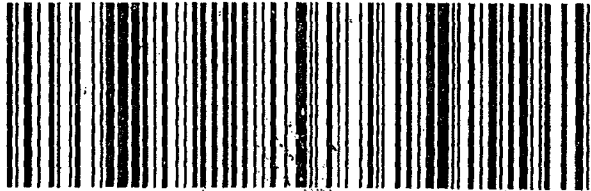
DELIVER BY:
13AUG2003

TRK# 7908 6864 2097 Form 0201

IAH A2

77099-TX-US

A9 JGQA



Sample Receipt Checklist

Client Name NAVAJO REFINING COMPAN

Date/Time Received: 8/13/2003 9:15:00 AM

Work Order Number 0308134

Received by: RNG

Checklist completed by [Signature] 8/13/03
Signature Date

Reviewed by [Initials] 8/14/03
Initials Date

Matrix: W

Carrier name: FedEx

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No
- Temperature(s)/Thermometer(s): 2.2c 003
- Water - VOA vials have zero headspace? Yes No No VOA vials submitted
- Water - pH acceptable upon receipt? Yes No N/A

Adjusted? _____ Checked by _____

Login Notes:

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____



e-Lab, Inc.

10450 Stancliff Rd, Suite 210 Houston, Texas 77099-4338 281-530-5656 Fax 281-530-51

August 27, 2003

Jeff Byrd
Navajo Refining Company
P.O. Box 159
Artesia, New Mexico 88211

Tel: (505) 746-5468
Fax: (505) 746-5421

Re: NCL/TEL

Work Order : **0308127**

Dear Jeff Byrd,

e-Lab, Inc. received 4 samples on 8/12/2003 9:00:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by e-Lab, Inc. and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by e-Lab Inc. The total number of pages in this report is 38.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Lora Terrill

Electronically approved by: Lora Terrill

Lora Terrill
VP Lab Operations

CLIENT: Navajo Refining Company
Project: NCL/TEL
Work Order: 0308127

Work Order Sample Summary

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
0308127-01	MW-53	Water		8/11/2003 10:30	8/12/2003 09:00	<input type="checkbox"/>
0308127-02	NCL-49	Water		8/11/2003 13:45	8/12/2003 09:00	<input type="checkbox"/>
0308127-03	NCL-32	Water		8/11/2003 14:00	8/12/2003 09:00	<input type="checkbox"/>
0308127-04	NCL-44	Water		8/11/2003 11:15	8/12/2003 09:00	<input type="checkbox"/>

e-Lab, Inc.

Date: *August 26, 2003*

CLIENT: Navajo Refining Company

Project: NCL/TEL

Work Order: 0308127

Case Narrative

Volatiles LCS/LCSD for 8/14/03 had high recovery for 2-chloro-vinyl-ether. The associated samples were ND for this compound therefore the data was released for reporting.

CLIENT: Navajo Refining Company
 Work Order: 0308127
 Project: NCL/TEL
 Lab ID: 0308127-01

Client Sample ID: MW-53
 Collection Date: 8/11/2003 10:30:00 AM
 Matrix: WATER

Analyses	Result	MDL	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL		SW7470		Prep Date: 8/14/2003		Analyst: MG	
Mercury	U	0.000042	0.000200		mg/L	1	8/15/2003
ICP METALS, TOTAL		SW6020		Prep Date: 8/13/2003		Analyst: ALR	
Aluminum	1.10	0.016	0.100		mg/L	10	8/25/2003
Arsenic	0.00332	0.0018	0.00500	J	mg/L	1	8/19/2003
Barium	0.0448	0.00060	0.00500		mg/L	1	8/19/2003
Beryllium	U	0.00030	0.00200		mg/L	1	8/19/2003
Boron	0.340	0.011	0.0200		mg/L	1	8/19/2003
Cadmium	U	0.00015	0.00100		mg/L	1	8/19/2003
Calcium	361	1.6	10.0		mg/L	20	8/25/2003
Chromium	0.00160	0.00050	0.00200	J	mg/L	1	8/19/2003
Cobalt	0.00762	0.00010	0.00200		mg/L	1	8/19/2003
Copper	0.00782	0.00030	0.00200		mg/L	1	8/19/2003
Iron	1.11	0.025	0.200		mg/L	1	8/19/2003
Lead	0.00270	0.00020	0.00500	J	mg/L	1	8/19/2003
Magnesium	186	0.50	4.00		mg/L	20	8/25/2003
Manganese	2.42	0.020	0.100		mg/L	20	8/25/2003
Nickel	0.0107	0.00030	0.00500		mg/L	1	8/19/2003
Potassium	1.07	0.020	0.200		mg/L	1	8/25/2003
Selenium	0.00449	0.0017	0.00500	J	mg/L	1	8/19/2003
Silver	U	0.00020	0.00500		mg/L	1	8/19/2003
Sodium	121	0.32	2.00		mg/L	10	8/25/2003
Vanadium	0.0196	0.00040	0.00500		mg/L	1	8/19/2003
Zinc	0.0146	0.0015	0.00500		mg/L	1	8/19/2003
SEMIVOLATILE ORGANICS BY GC/MS		SW8270		Prep Date: 8/14/2003		Analyst: HV	
1,2,4-Trichlorobenzene	U	0.83	10		µg/L	1	8/15/2003
2,4,5-Trichlorophenol	U	2.4	10		µg/L	1	8/15/2003
2,4,6-Trichlorophenol	U	2.7	10		µg/L	1	8/15/2003
2-Methylnaphthalene	U	0.86	10		µg/L	1	8/15/2003
2-Methylphenol	U	2.8	10		µg/L	1	8/15/2003
2-Nitroaniline	U	1.1	10		µg/L	1	8/15/2003
2-Nitrophenol	U	2.6	10		µg/L	1	8/15/2003
3-Nitroaniline	U	1.2	10		µg/L	1	8/15/2003
4-Methylphenol	U	4.6	10		µg/L	1	8/15/2003
4-Nitroaniline	U	0.95	10		µg/L	1	8/15/2003
4-Nitrophenol	U	2.7	10		µg/L	1	8/15/2003
Acenaphthene	U	1.1	10		µg/L	1	8/15/2003
Acenaphthylene	U	1.0	10		µg/L	1	8/15/2003
Aniline	U	10	10		µg/L	1	8/15/2003

Qualifiers

- U - Analyzed for but Not Detected
- J - Analyte detected below quantitation limits
- B - Analyte detected in the associated Method Blank
- * - Value exceeds Maximum Contaminant Level
- S - Spike Recovery outside accepted recovery limits
- P - Dual Column results percent difference > 40%
- E - Value above quantitation range
- H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: August 26, 2003

CLIENT: Navajo Refining Company
 Work Order: 0308127
 Project: NCL/TEL
 Lab ID: 0308127-01

Client Sample ID: MW-53
 Collection Date: 8/11/2003 10:30:00 AM
 Matrix: WATER

Analyses	Result	MDL	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Anthracene	U	0.36	10		µg/L	1	8/15/2003
Benz(a)anthracene	U	0.77	10		µg/L	1	8/15/2003
Benzidine	U	0.34	10		µg/L	1	8/15/2003
Hexachloroethane	U	0.64	10		µg/L	1	8/15/2003
Indeno(1,2,3-cd)pyrene	U	0.77	10		µg/L	1	8/15/2003
Isophorone	U	1.2	10		µg/L	1	8/15/2003
N-Nitrosodi-n-propylamine	U	1.5	10		µg/L	1	8/15/2003
N-Nitrosodimethylamine	U	1.1	10		µg/L	1	8/15/2003
N-Nitrosodiphenylamine	U	1.3	10		µg/L	1	8/15/2003
Naphthalene	U	1.0	10		µg/L	1	8/15/2003
Nitrobenzene	U	1.7	10		µg/L	1	8/15/2003
Pentachlorophenol	U	1.5	10		µg/L	1	8/15/2003
Phenanthrene	U	1.2	10		µg/L	1	8/15/2003
Phenol	U	3.5	10		µg/L	1	8/15/2003
Pyrene	U	0.92	10		µg/L	1	8/15/2003
Surr: 2,4,6-Tribromophenol	88.8	0	10-123		%REC	1	8/15/2003
Surr: 2-Fluorobiphenyl	76.6	0	43-116		%REC	1	8/15/2003
Surr: 2-Fluorophenol	38.3	0	21-100		%REC	1	8/15/2003
Surr: 4-Terphenyl-d14	81.1	0	33-141		%REC	1	8/15/2003
Surr: Nitrobenzene-d5	75.8	0	35-114		%REC	1	8/15/2003
Surr: Phenol-d6	24.6	0	10-94		%REC	1	8/15/2003

VOLATILES BY GC/MS

SW8260

Prep Date:

Analyst: PC

1,1,1-Trichloroethane	U	0.62	5.0		µg/L	1	8/15/2003
1,1,2,2-Tetrachloroethane	U	0.58	5.0		µg/L	1	8/15/2003
1,1,2-Trichloroethane	U	0.41	5.0		µg/L	1	8/15/2003
1,1-Dichloroethane	U	0.43	5.0		µg/L	1	8/15/2003
1,1-Dichloroethene	U	0.53	5.0		µg/L	1	8/15/2003
1,2-Dichloroethane	U	0.38	5.0		µg/L	1	8/15/2003
2-Butanone	U	0.70	10		µg/L	1	8/15/2003
2-Chloroethyl vinyl ether	U	0.63	10		µg/L	1	8/15/2003
2-Hexanone	U	1.1	10		µg/L	1	8/15/2003
4-Methyl-2-pentanone	U	0.64	10		µg/L	1	8/15/2003
Acetone	U	1.2	10		µg/L	1	8/15/2003
Benzene	U	0.66	5.0		µg/L	1	8/15/2003
Bromodichloromethane	U	0.45	5.0		µg/L	1	8/15/2003
Bromoform	U	0.40	5.0		µg/L	1	8/15/2003
Bromomethane	U	0.70	5.0		µg/L	1	8/15/2003
Carbon disulfide	U	0.76	10		µg/L	1	8/15/2003
Carbon tetrachloride	U	0.65	5.0		µg/L	1	8/15/2003
Chlorobenzene	U	0.43	5.0		µg/L	1	8/15/2003

Qualifiers
 U - Analyzed for but Not Detected
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level
 S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time

CLIENT: Navajo Refining Company
 Work Order: 0308127
 Project: NCL/TEL
 Lab ID: 0308127-01

Client Sample ID: MW-53
 Collection Date: 8/11/2003 10:30:00 AM
 Matrix: WATER

Analyses	Result	MDL	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chloroethane	U	0.56	5.0		µg/L	1	8/15/2003
Chloroform	U	0.52	5.0		µg/L	1	8/15/2003
Chloromethane	U	1.1	5.0		µg/L	1	8/15/2003
cis-1,3-Dichloropropene	U	0.47	5.0		µg/L	1	8/15/2003
Dibromochloromethane	U	0.53	5.0		µg/L	1	8/15/2003
Ethylbenzene	U	0.77	5.0		µg/L	1	8/15/2003
m,p-Xylene	U	1.3	10		µg/L	1	8/15/2003
Methylene chloride	U	0.60	10		µg/L	1	8/15/2003
Styrene	U	0.56	5.0		µg/L	1	8/15/2003
Tetrachloroethene	U	0.43	5.0		µg/L	1	8/15/2003
Toluene	U	0.69	5.0		µg/L	1	8/15/2003
trans-1,3-Dichloropropene	U	0.44	5.0		µg/L	1	8/15/2003
Trichloroethene	U	0.70	5.0		µg/L	1	8/15/2003
Vinyl acetate	U	0.92	10		µg/L	1	8/15/2003
Vinyl chloride	U	0.79	2.0		µg/L	1	8/15/2003
Xylenes, Total	U	1.8	15		µg/L	1	8/15/2003
Surr: 1,2-Dichloroethane-d4	86.0	0	70-130		%REC	1	8/15/2003
Surr: 4-Bromofluorobenzene	77.1	0	70-130		%REC	1	8/15/2003
Surr: Dibromofluoromethane	88.6	0	70-130		%REC	1	8/15/2003
Surr: Toluene-d8	83.3	0	70-130		%REC	1	8/15/2003

ANIONS BY ION CHROMATOGRAPHY

E300

Prep Date:

Analyst: **MG**

Chloride	68.5	0.400	1.00		mg/L	2	8/13/2003
Fluoride	1.09	0.0500	0.100		mg/L	1	8/13/2003
Sulfate	1,300	50.0	100		mg/L	100	8/20/2003
Nitrate/Nitrite (as N)	U	0.0440	0.100		mg/L	1	8/13/2003
Surr: Dichloroacetic acid (surr)	95.2	0	80-120		%REC	1	8/13/2003
Surr: Dichloroacetic acid (surr)	109	0	80-120		%REC	2	8/13/2003
Surr: Dichloroacetic acid (surr)	107	0	80-120		%REC	100	8/20/2003

ALKALINITY

E310.1

Prep Date:

Analyst: **LMD**

Alkalinity, Bicarbonate (As CaCO3)	380	2.0	5.00		mg/L	1	8/13/2003
Alkalinity, Carbonate (As CaCO3)	U	2.0	5.00		mg/L	1	8/13/2003
Alkalinity, Hydroxide (As CaCO3)	U	2.0	5.00		mg/L	1	8/13/2003
Alkalinity, Total (As CaCO3)	380	2.0	5.00		mg/L	1	8/13/2003

CYANIDE, TOTAL

E335.3

Prep Date:

Analyst: **LMD**

Cyanide	U	0.0030	0.0200		mg/L	1	8/17/2003
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Qualifiers

U - Analyzed for but Not Detected

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

P - Dual Column results percent difference > 40%

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

H - Analyzed outside of Hold Time

CLIENT: Navajo Refining Company	Client Sample ID: NCL-49
Work Order: 0308127	Collection Date: 8/11/2003 1:45:00 PM
Project: NCL/TEL	
Lab ID: 0308127-02	Matrix: WATER

Analyses	Result	MDL	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL		SW7470			Prep Date: 8/14/2003		Analyst: MG
Mercury	U	0.000042	0.000200		mg/L	1	8/15/2003
ICP METALS, TOTAL		SW6020			Prep Date: 8/13/2003		Analyst: ALR
Aluminum	0.0267	0.0016	0.0100		mg/L	1	8/24/2003
Arsenic	0.00360	0.0018	0.00500	J	mg/L	1	8/19/2003
Barium	0.0121	0.00060	0.00500		mg/L	1	8/19/2003
Beryllium	U	0.00030	0.00200		mg/L	1	8/24/2003
Boron	0.256	0.011	0.0200		mg/L	1	8/24/2003
Cadmium	U	0.00015	0.00100		mg/L	1	8/19/2003
Calcium	498	4.0	25.0		mg/L	50	8/24/2003
Chromium	U	0.00050	0.00200		mg/L	1	8/19/2003
Cobalt	0.000335	0.00010	0.00200	J	mg/L	1	8/19/2003
Copper	0.00704	0.00030	0.00200		mg/L	1	8/19/2003
Iron	0.941	0.025	0.200		mg/L	1	8/19/2003
Lead	0.000291	0.00020	0.00500	J	mg/L	1	8/19/2003
Magnesium	220	0.25	2.00		mg/L	10	8/25/2003
Manganese	U	0.0010	0.00500		mg/L	1	8/19/2003
Nickel	0.00548	0.00030	0.00500		mg/L	1	8/19/2003
Potassium	0.640	0.020	0.200		mg/L	1	8/24/2003
Selenium	0.0135	0.0017	0.00500		mg/L	1	8/19/2003
Silver	U	0.00020	0.00500		mg/L	1	8/19/2003
Sodium	116	0.32	2.00		mg/L	10	8/25/2003
Vanadium	0.00890	0.00040	0.00500		mg/L	1	8/19/2003
Zinc	0.0159	0.0015	0.00500		mg/L	1	8/19/2003
SEMIVOLATILE ORGANICS BY GC/MS		SW8270			Prep Date: 8/14/2003		Analyst: HV
1,2,4-Trichlorobenzene	U	0.83	10		µg/L	1	8/15/2003
2,4,5-Trichlorophenol	U	2.4	10		µg/L	1	8/15/2003
2,4,6-Trichlorophenol	U	2.7	10		µg/L	1	8/15/2003
2-Methylnaphthalene	U	0.86	10		µg/L	1	8/15/2003
2-Methylphenol	U	2.8	10		µg/L	1	8/15/2003
2-Nitroaniline	U	1.1	10		µg/L	1	8/15/2003
2-Nitrophenol	U	2.6	10		µg/L	1	8/15/2003
3-Nitroaniline	U	1.2	10		µg/L	1	8/15/2003
4-Methylphenol	U	4.6	10		µg/L	1	8/15/2003
4-Nitroaniline	U	0.95	10		µg/L	1	8/15/2003
4-Nitrophenol	U	2.7	10		µg/L	1	8/15/2003
Acenaphthene	U	1.1	10		µg/L	1	8/15/2003
Acenaphthylene	U	1.0	10		µg/L	1	8/15/2003
Aniline	U	10	10		µg/L	1	8/15/2003

Qualifiers	U - Analyzed for but Not Detected	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

CLIENT: Navajo Refining Company
 Work Order: 0308127
 Project: NCL/TEL
 Lab ID: 0308127-02

Client Sample ID: NCL-49
 Collection Date: 8/11/2003 1:45:00 PM
 Matrix: WATER

Analyses	Result	MDL	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Anthracene	U	0.36	10		µg/L	1	8/15/2003
Benz(a)anthracene	U	0.77	10		µg/L	1	8/15/2003
Benzidine	U	0.34	10		µg/L	1	8/15/2003
Hexachloroethane	U	0.64	10		µg/L	1	8/15/2003
Indeno(1,2,3-cd)pyrene	U	0.77	10		µg/L	1	8/15/2003
Isophorone	U	1.2	10		µg/L	1	8/15/2003
N-Nitrosodi-n-propylamine	U	1.5	10		µg/L	1	8/15/2003
N-Nitrosodimethylamine	U	1.1	10		µg/L	1	8/15/2003
N-Nitrosodiphenylamine	U	1.3	10		µg/L	1	8/15/2003
Naphthalene	U	1.0	10		µg/L	1	8/15/2003
Nitrobenzene	U	1.7	10		µg/L	1	8/15/2003
Pentachlorophenol	U	1.5	10		µg/L	1	8/15/2003
Phenanthrene	U	1.2	10		µg/L	1	8/15/2003
Phenol	U	3.5	10		µg/L	1	8/15/2003
Pyrene	U	0.92	10		µg/L	1	8/15/2003
Surr: 2,4,6-Tribromophenol	89.1	0	10-123		%REC	1	8/15/2003
Surr: 2-Fluorobiphenyl	77.8	0	43-116		%REC	1	8/15/2003
Surr: 2-Fluorophenol	41.1	0	21-100		%REC	1	8/15/2003
Surr: 4-Terphenyl-d14	88.0	0	33-141		%REC	1	8/15/2003
Surr: Nitrobenzene-d5	76.4	0	35-114		%REC	1	8/15/2003
Surr: Phenol-d6	25.2	0	10-94		%REC	1	8/15/2003
VOLATILES BY GC/MS		SW8260		Prep Date:		Analyst: PC	
1,1,1-Trichloroethane	U	0.62	5.0		µg/L	1	8/15/2003
1,1,2,2-Tetrachloroethane	U	0.58	5.0		µg/L	1	8/15/2003
1,1,2-Trichloroethane	U	0.41	5.0		µg/L	1	8/15/2003
1,1-Dichloroethane	U	0.43	5.0		µg/L	1	8/15/2003
1,1-Dichloroethene	U	0.53	5.0		µg/L	1	8/15/2003
1,2-Dichloroethane	U	0.38	5.0		µg/L	1	8/15/2003
2-Butanone	U	0.70	10		µg/L	1	8/15/2003
2-Chloroethyl vinyl ether	U	0.63	10		µg/L	1	8/15/2003
2-Hexanone	U	1.1	10		µg/L	1	8/15/2003
4-Methyl-2-pentanone	U	0.64	10		µg/L	1	8/15/2003
Acetone	U	1.2	10		µg/L	1	8/15/2003
Benzene	U	0.66	5.0		µg/L	1	8/15/2003
Bromodichloromethane	U	0.45	5.0		µg/L	1	8/15/2003
Bromoform	U	0.40	5.0		µg/L	1	8/15/2003
Bromomethane	U	0.70	5.0		µg/L	1	8/15/2003
Carbon disulfide	U	0.76	10		µg/L	1	8/15/2003
Carbon tetrachloride	U	0.65	5.0		µg/L	1	8/15/2003
Chlorobenzene	U	0.43	5.0		µg/L	1	8/15/2003

Qualifiers

U - Analyzed for but Not Detected
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time

CLIENT: Navajo Refining Company
 Work Order: 0308127
 Project: NCL/TEL
 Lab ID: 0308127-02

Client Sample ID: NCL-49
 Collection Date: 8/11/2003 1:45:00 PM
 Matrix: WATER

Analyses	Result	MDL	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chloroethane	U	0.56	5.0		µg/L	1	8/15/2003
Chloroform	U	0.52	5.0		µg/L	1	8/15/2003
Chloromethane	U	1.1	5.0		µg/L	1	8/15/2003
cis-1,3-Dichloropropene	U	0.47	5.0		µg/L	1	8/15/2003
Dibromochloromethane	U	0.53	5.0		µg/L	1	8/15/2003
Ethylbenzene	U	0.77	5.0		µg/L	1	8/15/2003
m,p-Xylene	U	1.3	10		µg/L	1	8/15/2003
Methylene chloride	U	0.60	10		µg/L	1	8/15/2003
Styrene	U	0.56	5.0		µg/L	1	8/15/2003
Tetrachloroethene	U	0.43	5.0		µg/L	1	8/15/2003
Toluene	U	0.69	5.0		µg/L	1	8/15/2003
trans-1,3-Dichloropropene	U	0.44	5.0		µg/L	1	8/15/2003
Trichloroethene	U	0.70	5.0		µg/L	1	8/15/2003
Vinyl acetate	U	0.92	10		µg/L	1	8/15/2003
Vinyl chloride	U	0.79	2.0		µg/L	1	8/15/2003
Xylenes, Total	U	1.8	15		µg/L	1	8/15/2003
Surr: 1,2-Dichloroethane-d4	81.0	0	70-130		%REC	1	8/15/2003
Surr: 4-Bromofluorobenzene	77.5	0	70-130		%REC	1	8/15/2003
Surr: Dibromofluoromethane	86.5	0	70-130		%REC	1	8/15/2003
Surr: Toluene-d8	84.5	0	70-130		%REC	1	8/15/2003

ANIONS BY ION CHROMATOGRAPHY

E300

Prep Date:

Analyst: **MG**

Chloride	182	2.00	5.00		mg/L	10	8/13/2003
Fluoride	0.870	0.0500	0.100		mg/L	1	8/13/2003
Sulfate	1,810	50.0	100		mg/L	100	8/20/2003
Nitrate/Nitrite (as N)	9.32	0.0440	0.100		mg/L	1	8/13/2003
Surr: Dichloroacetic acid (surr)	85.0	0	80-120		%REC	1	8/13/2003
Surr: Dichloroacetic acid (surr)	104	0	80-120		%REC	10	8/13/2003
Surr: Dichloroacetic acid (surr)	106	0	80-120		%REC	100	8/20/2003

ALKALINITY

E310.1

Prep Date:

Analyst: **LMD**

Alkalinity, Bicarbonate (As CaCO3)	200	2.0	5.00		mg/L	1	8/13/2003
Alkalinity, Carbonate (As CaCO3)	U	2.0	5.00		mg/L	1	8/13/2003
Alkalinity, Hydroxide (As CaCO3)	U	2.0	5.00		mg/L	1	8/13/2003
Alkalinity, Total (As CaCO3)	200	2.0	5.00		mg/L	1	8/13/2003

CYANIDE, TOTAL

E335.3

Prep Date:

Analyst: **LMD**

Cyanide	U	0.0030	0.0200		mg/L	1	8/17/2003
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Qualifiers

U - Analyzed for but Not Detected

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

P - Dual Column results percent difference > 40%

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

H - Analyzed outside of Hold Time

CLIENT: Navajo Refining Company
 Work Order: 0308127
 Project: NCL/TEL
 Lab ID: 0308127-03

Client Sample ID: NCL-32
 Collection Date: 8/11/2003 2:00:00 PM
 Matrix: WATER

Analyses	Result	MDL	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL		SW7470				Prep Date: 8/14/2003	Analyst: MG
Mercury	U	0.000042	0.000200		mg/L	1	8/15/2003
ICP METALS, TOTAL		SW6020				Prep Date: 8/13/2003	Analyst: ALR
Aluminum	0.00693	0.0016	0.0100	J	mg/L	1	8/24/2003
Arsenic	0.00317	0.0018	0.00500	J	mg/L	1	8/19/2003
Barium	0.0155	0.00060	0.00500		mg/L	1	8/19/2003
Beryllium	U	0.00030	0.00200		mg/L	1	8/24/2003
Boron	0.285	0.011	0.0200		mg/L	1	8/24/2003
Cadmium	U	0.00015	0.00100		mg/L	1	8/19/2003
Calcium	475	4.0	25.0		mg/L	50	8/24/2003
Chromium	U	0.00050	0.00200		mg/L	1	8/19/2003
Cobalt	0.00328	0.00010	0.00200		mg/L	1	8/19/2003
Copper	0.00560	0.00030	0.00200		mg/L	1	8/19/2003
Iron	1.25	0.025	0.200		mg/L	1	8/19/2003
Lead	0.000304	0.00020	0.00500	J	mg/L	1	8/19/2003
Magnesium	142	0.25	2.00		mg/L	10	8/25/2003
Manganese	0.899	0.010	0.0500		mg/L	10	8/24/2003
Nickel	0.0120	0.00030	0.00500		mg/L	1	8/19/2003
Potassium	3.40	0.020	0.200		mg/L	1	8/24/2003
Selenium	0.00818	0.0017	0.00500		mg/L	1	8/19/2003
Silver	U	0.00020	0.00500		mg/L	1	8/19/2003
Sodium	71.6	0.32	2.00		mg/L	10	8/25/2003
Vanadium	0.0104	0.00040	0.00500		mg/L	1	8/19/2003
Zinc	0.0122	0.0015	0.00500		mg/L	1	8/19/2003
SEMIVOLATILE ORGANICS BY GC/MS		SW8270				Prep Date: 8/14/2003	Analyst: HV
1,2,4-Trichlorobenzene	U	0.83	10		µg/L	1	8/15/2003
2,4,5-Trichlorophenol	U	2.4	10		µg/L	1	8/15/2003
2,4,6-Trichlorophenol	U	2.7	10		µg/L	1	8/15/2003
2-Methylnaphthalene	U	0.86	10		µg/L	1	8/15/2003
2-Methylphenol	U	2.8	10		µg/L	1	8/15/2003
2-Nitroaniline	U	1.1	10		µg/L	1	8/15/2003
2-Nitrophenol	U	2.6	10		µg/L	1	8/15/2003
3-Nitroaniline	U	1.2	10		µg/L	1	8/15/2003
4-Methylphenol	U	4.6	10		µg/L	1	8/15/2003
4-Nitroaniline	U	0.95	10		µg/L	1	8/15/2003
4-Nitrophenol	U	2.7	10		µg/L	1	8/15/2003
Acenaphthene	U	1.1	10		µg/L	1	8/15/2003
Acenaphthylene	U	1.0	10		µg/L	1	8/15/2003
Aniline	U	10	10		µg/L	1	8/15/2003

Qualifiers

U - Analyzed for but Not Detected

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

P - Dual Column results percent difference > 40%

E - Value above quantitation range

H - Analyzed outside of Hold Time

CLIENT: Navajo Refining Company
Work Order: 0308127
Project: NCL/TEL
Lab ID: 0308127-03

Client Sample ID: NCL-32
Collection Date: 8/11/2003 2:00:00 PM
Matrix: WATER

Analyses	Result	MDL	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Anthracene	U	0.36	10		µg/L	1	8/15/2003
Benz(a)anthracene	U	0.77	10		µg/L	1	8/15/2003
Benzidine	U	0.34	10		µg/L	1	8/15/2003
Hexachloroethane	U	0.64	10		µg/L	1	8/15/2003
Indeno(1,2,3-cd)pyrene	U	0.77	10		µg/L	1	8/15/2003
Isophorone	U	1.2	10		µg/L	1	8/15/2003
N-Nitrosodi-n-propylamine	U	1.5	10		µg/L	1	8/15/2003
N-Nitrosodimethylamine	U	1.1	10		µg/L	1	8/15/2003
N-Nitrosodiphenylamine	U	1.3	10		µg/L	1	8/15/2003
Naphthalene	U	1.0	10		µg/L	1	8/15/2003
Nitrobenzene	U	1.7	10		µg/L	1	8/15/2003
Pentachlorophenol	U	1.5	10		µg/L	1	8/15/2003
Phenanthrene	U	1.2	10		µg/L	1	8/15/2003
Phenol	U	3.5	10		µg/L	1	8/15/2003
Pyrene	U	0.92	10		µg/L	1	8/15/2003
Surr: 2,4,6-Tribromophenol	92.2	0	10-123		%REC	1	8/15/2003
Surr: 2-Fluorobiphenyl	78.8	0	43-116		%REC	1	8/15/2003
Surr: 2-Fluorophenol	37.2	0	21-100		%REC	1	8/15/2003
Surr: 4-Terphenyl-d14	87.3	0	33-141		%REC	1	8/15/2003
Surr: Nitrobenzene-d5	81.2	0	35-114		%REC	1	8/15/2003
Surr: Phenol-d6	22.6	0	10-94		%REC	1	8/15/2003
VOLATILES BY GC/MS		SW8260		Prep Date:		Analyst: PC	
1,1,1-Trichloroethane	U	0.62	5.0		µg/L	1	8/15/2003
1,1,2,2-Tetrachloroethane	U	0.58	5.0		µg/L	1	8/15/2003
1,1,2-Trichloroethane	U	0.41	5.0		µg/L	1	8/15/2003
1,1-Dichloroethane	U	0.43	5.0		µg/L	1	8/15/2003
1,1-Dichloroethene	U	0.53	5.0		µg/L	1	8/15/2003
1,2-Dichloroethane	U	0.38	5.0		µg/L	1	8/15/2003
2-Butanone	U	0.70	10		µg/L	1	8/15/2003
2-Chloroethyl vinyl ether	U	0.63	10		µg/L	1	8/15/2003
2-Hexanone	U	1.1	10		µg/L	1	8/15/2003
4-Methyl-2-pentanone	U	0.64	10		µg/L	1	8/15/2003
Acetone	U	1.2	10		µg/L	1	8/15/2003
Benzene	U	0.66	5.0		µg/L	1	8/15/2003
Bromodichloromethane	U	0.45	5.0		µg/L	1	8/15/2003
Bromoform	U	0.40	5.0		µg/L	1	8/15/2003
Bromomethane	U	0.70	5.0		µg/L	1	8/15/2003
Carbon disulfide	U	0.76	10		µg/L	1	8/15/2003
Carbon tetrachloride	U	0.65	5.0		µg/L	1	8/15/2003
Chlorobenzene	U	0.43	5.0		µg/L	1	8/15/2003

Qualifiers U - Analyzed for but Not Detected S - Spike Recovery outside accepted recovery limits
 J - Analyte detected below quantitation limits P - Dual Column results percent difference > 40%
 B - Analyte detected in the associated Method Blank E - Value above quantitation range
 * - Value exceeds Maximum Contaminant Level H - Analyzed outside of Hold Time

CLIENT: Navajo Refining Company
 Work Order: 0308127
 Project: NCL/TEL
 Lab ID: 0308127-03

Client Sample ID: NCL-32
 Collection Date: 8/11/2003 2:00:00 PM
 Matrix: WATER

Analyses	Result	MDL	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chloroethane	U	0.56	5.0		µg/L	1	8/15/2003
Chloroform	U	0.52	5.0		µg/L	1	8/15/2003
Chloromethane	U	1.1	5.0		µg/L	1	8/15/2003
cis-1,3-Dichloropropene	U	0.47	5.0		µg/L	1	8/15/2003
Dibromochloromethane	U	0.53	5.0		µg/L	1	8/15/2003
Ethylbenzene	U	0.77	5.0		µg/L	1	8/15/2003
m,p-Xylene	U	1.3	10		µg/L	1	8/15/2003
Methylene chloride	U	0.60	10		µg/L	1	8/15/2003
Styrene	U	0.56	5.0		µg/L	1	8/15/2003
Tetrachloroethene	U	0.43	5.0		µg/L	1	8/15/2003
Toluene	U	0.69	5.0		µg/L	1	8/15/2003
trans-1,3-Dichloropropene	U	0.44	5.0		µg/L	1	8/15/2003
Trichloroethene	U	0.70	5.0		µg/L	1	8/15/2003
Vinyl acetate	U	0.92	10		µg/L	1	8/15/2003
Vinyl chloride	U	0.79	2.0		µg/L	1	8/15/2003
Xylenes, Total	U	1.8	15		µg/L	1	8/15/2003
Surr: 1,2-Dichloroethane-d4	85.2	0	70-130		%REC	1	8/15/2003
Surr: 4-Bromofluorobenzene	77.7	0	70-130		%REC	1	8/15/2003
Surr: Dibromofluoromethane	88.3	0	70-130		%REC	1	8/15/2003
Surr: Toluene-d8	83.0	0	70-130		%REC	1	8/15/2003

ANIONS BY ION CHROMATOGRAPHY

E300

Prep Date:

Analyst: **MG**

Chloride	238	2.00	5.00		mg/L	10	8/13/2003
Fluoride	1.50	0.100	0.200		mg/L	2	8/13/2003
Sulfate	1,280	25.0	50.0		mg/L	50	8/20/2003
Nitrate/Nitrite (as N)	0.660	0.0880	0.200		mg/L	2	8/13/2003
Surr: Dichloroacetic acid (surr)	94.0	0	80-120		%REC	2	8/13/2003
Surr: Dichloroacetic acid (surr)	98.8	0	80-120		%REC	10	8/13/2003
Surr: Dichloroacetic acid (surr)	106	0	80-120		%REC	50	8/20/2003

ALKALINITY

E310.1

Prep Date:

Analyst: **LMD**

Alkalinity, Bicarbonate (As CaCO3)	305	2.0	5.00		mg/L	1	8/13/2003
Alkalinity, Carbonate (As CaCO3)	U	2.0	5.00		mg/L	1	8/13/2003
Alkalinity, Hydroxide (As CaCO3)	U	2.0	5.00		mg/L	1	8/13/2003
Alkalinity, Total (As CaCO3)	305	2.0	5.00		mg/L	1	8/13/2003

CYANIDE, TOTAL

E335.3

Prep Date:

Analyst: **LMD**

Cyanide	U	0.0030	0.0200		mg/L	1	8/17/2003
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Qualifiers

U - Analyzed for but Not Detected

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

P - Dual Column results percent difference > 40%

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

H - Analyzed outside of Hold Time

CLIENT: Navajo Refining Company
 Work Order: 0308127
 Project: NCL/TEL
 Lab ID: 0308127-04

Client Sample ID: NCL-44
 Collection Date: 8/11/2003 11:15:00 AM
 Matrix: WATER

Analyses	Result	MDL	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL		SW7470			Prep Date: 8/14/2003		Analyst: MG
Mercury	U	0.00042	0.00200		mg/L	1	8/15/2003
ICP METALS, TOTAL		SW6020			Prep Date: 8/13/2003		Analyst: ALR
Aluminum	0.191	0.0016	0.0100		mg/L	1	8/24/2003
Arsenic	0.0291	0.0018	0.00500		mg/L	1	8/19/2003
Barium	0.0361	0.00060	0.00500		mg/L	1	8/19/2003
Beryllium	U	0.00030	0.00200		mg/L	1	8/24/2003
Boron	0.300	0.011	0.0200		mg/L	1	8/24/2003
Cadmium	0.000280	0.00015	0.00100	J	mg/L	1	8/19/2003
Calcium	372	1.6	10.0		mg/L	20	8/24/2003
Chromium	0.00337	0.00050	0.00200		mg/L	1	8/19/2003
Cobalt	0.00438	0.00010	0.00200		mg/L	1	8/19/2003
Copper	0.00465	0.00030	0.00200		mg/L	1	8/19/2003
Iron	1.79	0.025	0.200		mg/L	1	8/19/2003
Lead	0.00182	0.00020	0.00500	J	mg/L	1	8/19/2003
Magnesium	113	0.25	2.00		mg/L	10	8/25/2003
Manganese	0.737	0.010	0.0500		mg/L	10	8/24/2003
Nickel	0.00924	0.00030	0.00500		mg/L	1	8/19/2003
Potassium	2.33	0.020	0.200		mg/L	1	8/24/2003
Selenium	0.00578	0.0017	0.00500		mg/L	1	8/19/2003
Silver	U	0.00020	0.00500		mg/L	1	8/19/2003
Sodium	62.8	0.32	2.00		mg/L	10	8/25/2003
Vanadium	0.00174	0.00040	0.00500	J	mg/L	1	8/19/2003
Zinc	0.0288	0.0015	0.00500		mg/L	1	8/19/2003
SEMIVOLATILE ORGANICS BY GC/MS		SW8270			Prep Date: 8/14/2003		Analyst: HV
1,2,4-Trichlorobenzene	U	0.83	10		µg/L	1	8/15/2003
2,4,5-Trichlorophenol	U	2.4	10		µg/L	1	8/15/2003
2,4,6-Trichlorophenol	U	2.7	10		µg/L	1	8/15/2003
2-Methylnaphthalene	U	0.86	10		µg/L	1	8/15/2003
2-Methylphenol	U	2.8	10		µg/L	1	8/15/2003
2-Nitroaniline	U	1.1	10		µg/L	1	8/15/2003
2-Nitrophenol	U	2.6	10		µg/L	1	8/15/2003
3-Nitroaniline	U	1.2	10		µg/L	1	8/15/2003
4-Methylphenol	U	4.6	10		µg/L	1	8/15/2003
4-Nitroaniline	U	0.95	10		µg/L	1	8/15/2003
4-Nitrophenol	U	2.7	10		µg/L	1	8/15/2003
Acenaphthene	U	1.1	10		µg/L	1	8/15/2003
Acenaphthylene	U	1.0	10		µg/L	1	8/15/2003
Aniline	U	10	10		µg/L	1	8/15/2003

Qualifiers
 U - Analyzed for but Not Detected
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level
 S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time

CLIENT: Navajo Refining Company
 Work Order: 0308127
 Project: NCL/TEL
 Lab ID: 0308127-04

Client Sample ID: NCL-44
 Collection Date: 8/11/2003 11:15:00 AM
 Matrix: WATER

Analyses	Result	MDL	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Anthracene	U	0.36	10		µg/L	1	8/15/2003
Benz(a)anthracene	U	0.77	10		µg/L	1	8/15/2003
Benzidine	U	0.34	10		µg/L	1	8/15/2003
Hexachloroethane	U	0.64	10		µg/L	1	8/15/2003
Indeno(1,2,3-cd)pyrene	U	0.77	10		µg/L	1	8/15/2003
Isophorone	U	1.2	10		µg/L	1	8/15/2003
N-Nitrosodi-n-propylamine	U	1.5	10		µg/L	1	8/15/2003
N-Nitrosodimethylamine	U	1.1	10		µg/L	1	8/15/2003
N-Nitrosodiphenylamine	U	1.3	10		µg/L	1	8/15/2003
Naphthalene	U	1.0	10		µg/L	1	8/15/2003
Nitrobenzene	U	1.7	10		µg/L	1	8/15/2003
Pentachlorophenol	U	1.5	10		µg/L	1	8/15/2003
Phenanthrene	U	1.2	10		µg/L	1	8/15/2003
Phenol	U	3.5	10		µg/L	1	8/15/2003
Pyrene	1.2	0.92	10	J	µg/L	1	8/15/2003
Surr: 2,4,6-Tribromophenol	95.3	0	10-123		%REC	1	8/15/2003
Surr: 2-Fluorobiphenyl	80.7	0	43-116		%REC	1	8/15/2003
Surr: 2-Fluorophenol	40.7	0	21-100		%REC	1	8/15/2003
Surr: 4-Terphenyl-d14	87.2	0	33-141		%REC	1	8/15/2003
Surr: Nitrobenzene-d5	81.3	0	35-114		%REC	1	8/15/2003
Surr: Phenol-d6	27.8	0	10-94		%REC	1	8/15/2003
VOLATILES BY GC/MS		SW8260		Prep Date:		Analyst: PC	
1,1,1-Trichloroethane	U	0.62	5.0		µg/L	1	8/15/2003
1,1,2,2-Tetrachloroethane	U	0.58	5.0		µg/L	1	8/15/2003
1,1,2-Trichloroethane	U	0.41	5.0		µg/L	1	8/15/2003
1,1-Dichloroethane	U	0.43	5.0		µg/L	1	8/15/2003
1,1-Dichloroethene	U	0.53	5.0		µg/L	1	8/15/2003
1,2-Dichloroethane	U	0.38	5.0		µg/L	1	8/15/2003
2-Butanone	U	0.70	10		µg/L	1	8/15/2003
2-Chloroethyl vinyl ether	U	0.63	10		µg/L	1	8/15/2003
2-Hexanone	U	1.1	10		µg/L	1	8/15/2003
4-Methyl-2-pentanone	U	0.64	10		µg/L	1	8/15/2003
Acetone	U	1.2	10		µg/L	1	8/15/2003
Benzene	U	0.66	5.0		µg/L	1	8/15/2003
Bromodichloromethane	U	0.45	5.0		µg/L	1	8/15/2003
Bromoform	U	0.40	5.0		µg/L	1	8/15/2003
Bromomethane	U	0.70	5.0		µg/L	1	8/15/2003
Carbon disulfide	U	0.76	10		µg/L	1	8/15/2003
Carbon tetrachloride	U	0.65	5.0		µg/L	1	8/15/2003
Chlorobenzene	U	0.43	5.0		µg/L	1	8/15/2003

Qualifiers
 U - Analyzed for but Not Detected
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level
 S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time

CLIENT: Navajo Refining Company
 Work Order: 0308127
 Project: NCL/TEL
 Lab ID: 0308127-04

Client Sample ID: NCL-44
 Collection Date: 8/11/2003 11:15:00 AM
 Matrix: WATER

Analyses	Result	MDL	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chloroethane	U	0.56	5.0		µg/L	1	8/15/2003
Chloroform	U	0.52	5.0		µg/L	1	8/15/2003
Chloromethane	U	1.1	5.0		µg/L	1	8/15/2003
cis-1,3-Dichloropropene	U	0.47	5.0		µg/L	1	8/15/2003
Dibromochloromethane	U	0.53	5.0		µg/L	1	8/15/2003
Ethylbenzene	U	0.77	5.0		µg/L	1	8/15/2003
m,p-Xylene	U	1.3	10		µg/L	1	8/15/2003
Methylene chloride	U	0.60	10		µg/L	1	8/15/2003
Styrene	U	0.56	5.0		µg/L	1	8/15/2003
Tetrachloroethene	U	0.43	5.0		µg/L	1	8/15/2003
Toluene	U	0.69	5.0		µg/L	1	8/15/2003
trans-1,3-Dichloropropene	U	0.44	5.0		µg/L	1	8/15/2003
Trichloroethene	U	0.70	5.0		µg/L	1	8/15/2003
Vinyl acetate	U	0.92	10		µg/L	1	8/15/2003
Vinyl chloride	U	0.79	2.0		µg/L	1	8/15/2003
Xylenes, Total	U	1.8	15		µg/L	1	8/15/2003
Surr: 1,2-Dichloroethane-d4	86.2	0	70-130		%REC	1	8/15/2003
Surr: 4-Bromofluorobenzene	82.0	0	70-130		%REC	1	8/15/2003
Surr: Dibromofluoromethane	88.1	0	70-130		%REC	1	8/15/2003
Surr: Toluene-d8	83.5	0	70-130		%REC	1	8/15/2003

ANIONS BY ION CHROMATOGRAPHY

E300

Prep Date:

Analyst: **MG**

Chloride	247	2.00	5.00		mg/L	10	8/13/2003
Fluoride	1.53	0.0500	0.100		mg/L	1	8/13/2003
Sulfate	539	10.0	20.0		mg/L	20	8/20/2003
Nitrate/Nitrite (as N)	U	0.0440	0.100		mg/L	1	8/13/2003
Surr: Dichloroacetic acid (surr)	92.4	0	80-120		%REC	1	8/13/2003
Surr: Dichloroacetic acid (surr)	119	0	80-120		%REC	10	8/13/2003
Surr: Dichloroacetic acid (surr)	105	0	80-120		%REC	20	8/20/2003

ALKALINITY

E310.1

Prep Date:

Analyst: **LMD**

Alkalinity, Bicarbonate (As CaCO3)	490	2.0	5.00		mg/L	1	8/13/2003
Alkalinity, Carbonate (As CaCO3)	U	2.0	5.00		mg/L	1	8/13/2003
Alkalinity, Hydroxide (As CaCO3)	U	2.0	5.00		mg/L	1	8/13/2003
Alkalinity, Total (As CaCO3)	490	2.0	5.00		mg/L	1	8/13/2003

CYANIDE, TOTAL

E335.3

Prep Date:

Analyst: **LMD**

Cyanide	U	0.0030	0.0200		mg/L	1	8/17/2003
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Qualifiers

U - Analyzed for but Not Detected

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

P - Dual Column results percent difference > 40%

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: Aug 30 2003

CLIENT: Navajo Refining Company
 Work Order: 0308127
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: 6399 InstrumentID: 6020

MBLK Sample ID MBLKW2-081303 Test Code: SW6020 Units: mg/L Analysis Date 08/18/03 15:32

Client ID: Run ID: 6020_030818A SeqNo: 357421 Prep Date 8/13/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.0050								
Barium	U	0.0050								
Boron	U	0.020								
Cadmium	U	0.0010								
Calcium	U	0.50								
Chromium	U	0.0020								
Cobalt	U	0.0020								
Copper	U	0.0020								
Iron	U	0.20								
Lead	0.0002469	0.0050								J
Magnesium	U	0.20								
Manganese	U	0.0050								
Nickel	U	0.0050								
Potassium	U	0.20								
Selenium	0.002144	0.0050								J
Silver	U	0.0050								
Sodium	U	0.20								
Vanadium	U	0.0050								
Zinc	U	0.0050								

MBLK Sample ID MBLKW2-081303 Test Code: SW6020 Units: mg/L Analysis Date 08/19/03 17:21

Client ID: Run ID: 6020_030819A SeqNo: 358019 Prep Date 8/13/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	U	0.010								
Beryllium	U	0.0020								

ND - Not Detected at the Reporting Limit
 - Analyte detected below quantitation limits
 O - Referenced analyte value is > 4 times amount spiked
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 B - Analyte detected in assoc. Method Blank
 U - Analyzed for but not detected
 E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0308127
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: 6399 InstrumentID: 6020

LCS		Sample ID	MLCSW2-081303			Test Code:	SW6020	Units:	mg/L	Analysis Date			08/18/03 15:36
Client ID:		Run ID:	6020_030818A			SeqNo:	357422	Prep Date	8/13/2003	DF:	1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			
Arsenic	0.101	0.0050	0.1	0	101	80-120	0						
Barium	0.09816	0.0050	0.1	0	98.2	80-120	0						
Boron	0.4502	0.020	0.5	0	90	80-120	0						
Cadmium	0.1013	0.0010	0.1	0	101	80-120	0						
Calcium	9.707	0.50	10	0	97.1	80-120	0						
Chromium	0.09577	0.0020	0.1	0	95.8	80-120	0						
Cobalt	0.0972	0.0020	0.1	0	97.2	80-120	0						
Copper	0.09839	0.0020	0.1	0	98.4	80-120	0						
Iron	9.549	0.20	10	0	95.5	80-120	0						
Lead	0.1008	0.0050	0.1	0	101	80-120	0						
Magnesium	9.668	0.20	10	0	96.7	80-120	0						
Manganese	0.09439	0.0050	0.1	0	94.4	80-120	0						
Nickel	0.09673	0.0050	0.1	0	96.7	80-120	0						
Potassium	9.491	0.20	10	0	94.9	80-120	0						
Selenium	0.1064	0.0050	0.1	0	106	80-120	0						
Silver	0.0994	0.0050	0.1	0	99.4	80-120	0						
Sodium	9.52	0.20	10	0	95.2	80-120	0						
Vanadium	0.09624	0.0050	0.1	0	96.2	80-120	0						
Zinc	0.1021	0.0050	0.1	0	102	80-120	0						

LCS		Sample ID	MLCSW2-081303			Test Code:	SW6020	Units:	mg/L	Analysis Date			08/19/03 17:26
Client ID:		Run ID:	6020_030819A			SeqNo:	358020	Prep Date	8/13/2003	DF:	1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			
Aluminum	0.09866	0.010	0.1	0	98.7	80-120	0						
Beryllium	0.09594	0.0020	0.1	0	95.9	80-120	0						

ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
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 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 B - Analyte detected in assoc. Method Blank
 U - Analyzed for but not detected
 E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0308127
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: 6399 InstrumentID: 6020

MS		Sample ID	0308127-01CMS			Test Code:	SW6020		Units:	mg/L		Analysis Date	08/19/03 6:40		
Client ID:		MW-53		Run ID:	6020_030818A		SeqNo:	357926		Prep Date	8/13/2003		DF:	1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual					
Arsenic	0.09044	0.0050	0.1	0.003325	87.1	75-125	0								
Barium	0.1528	0.0050	0.1	0.04481	108	75-125	0								
Cadmium	0.08912	0.0010	0.1	0.0001003	89	75-125	0								
Chromium	0.09082	0.0020	0.1	0.001603	89.2	75-125	0								
Cobalt	0.09359	0.0020	0.1	0.007616	86	75-125	0								
Copper	0.08978	0.0020	0.1	0.00782	82	75-125	0								
Iron	10.16	0.20	10	1.11	90.5	75-125	0								
Lead	0.1059	0.0050	0.1	0.002705	103	75-125	0								
Nickel	0.09228	0.0050	0.1	0.01066	81.6	75-125	0								
Selenium	0.09504	0.0050	0.1	0.004486	90.6	75-125	0								
Silver	0.08923	0.0050	0.1	0.00003653	89.2	75-125	0								
Vanadium	0.1113	0.0050	0.1	0.01958	91.7	75-125	0								
Zinc	0.08817	0.0050	0.1	0.0146	73.6	75-125	0								S

MS		Sample ID	0308127-01CMS			Test Code:	SW6020		Units:	mg/L		Analysis Date	08/19/03 17:39		
Client ID:		MW-53		Run ID:	6020_030819A		SeqNo:	358023		Prep Date	8/13/2003		DF:	1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual					
Beryllium	0.09052	0.0020	0.1	0.0002161	90.3	75-125	0								
Boron	0.824	0.020	0.5	0.3395	96.9	75-125	0								

MS		Sample ID	0308127-01CMS			Test Code:	SW6020		Units:	mg/L		Analysis Date	08/25/03 19:05		
Client ID:		MW-53		Run ID:	6020_030825A		SeqNo:	360307		Prep Date	8/13/2003		DF:	1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual					
Aluminum	0.9557	0.010	0.1	0.8482	108	75-125	0			EO					
Calcium	343.9	0.50	10	336	79	75-125	0			EO					
Magnesium	U	0.20	10	0	0	75-125	0			S					
Manganese	2.217	0.0050	0.1	2.131	86	75-125	0			EO					
Potassium	10.75	0.20	10	1.074	96.8	75-125	0								
Sodium	U	0.20	10	0	0	75-125	0			S					

ND - Not Detected at the Reporting Limit
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 P - Dual Column results percent difference > 40%
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CLIENT: Navajo Refining Company
 Work Order: 0308127
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: 6399 InstrumentID: 6020

MSD		Sample ID 0308127-01CMSD			Test Code: SW6020		Units: mg/L		Analysis Date 08/19/03 6:44	
Client ID: MW-53		Run ID: 6020_030818A			SeqNo: 357927		Prep Date 8/13/2003		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.09284	0.0050	0.1	0.003325	89.5	75-125	0.09044	2.62	25	
Barium	0.1528	0.0050	0.1	0.04481	108	75-125	0.1528	0	25	
Cadmium	0.08957	0.0010	0.1	0.0001003	89.5	75-125	0.08912	0.504	25	
Chromium	0.09831	0.0020	0.1	0.001603	96.7	75-125	0.09082	7.92	25	
Cobalt	0.09964	0.0020	0.1	0.007616	92	75-125	0.09359	6.26	25	
Copper	0.0924	0.0020	0.1	0.00782	84.6	75-125	0.08978	2.88	25	
Iron	10.81	0.20	10	1.11	97	75-125	10.16	6.2	25	
Lead	0.1072	0.0050	0.1	0.002705	104	75-125	0.1059	1.22	25	
Nickel	0.09758	0.0050	0.1	0.01066	86.9	75-125	0.09228	5.58	25	
Selenium	0.09294	0.0050	0.1	0.004486	88.5	75-125	0.09504	2.23	25	
Silver	0.08969	0.0050	0.1	0.00003653	89.7	75-125	0.08923	0.514	25	
Vanadium	0.1244	0.0050	0.1	0.01958	105	75-125	0.1113	11.1	25	
Zinc	0.08985	0.0050	0.1	0.0146	75.2	75-125	0.08817	1.89	25	

MSD		Sample ID 0308127-01CMSD			Test Code: SW6020		Units: mg/L		Analysis Date 08/19/03 17:44	
Client ID: MW-53		Run ID: 6020_030819A			SeqNo: 358024		Prep Date 8/13/2003		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Beryllium	0.09764	0.0020	0.1	0.0002161	97.4	75-125	0.09052	7.57	25	
Boron	0.872	0.020	0.5	0.3395	106	75-125	0.824	5.66	25	

MSD		Sample ID 0308127-01CMSD			Test Code: SW6020		Units: mg/L		Analysis Date 08/25/03 19:09	
Client ID: MW-53		Run ID: 6020_030825A			SeqNo: 360308		Prep Date 8/13/2003		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	1.024	0.010	0.1	0.8482	176	75-125	0.9557	6.9	25	SEO
Calcium	337.9	0.50	10	336	19	75-125	343.9	1.76	25	SEO
Magnesium	U	0.20	10	0	0	75-125	0	0	25	S
Manganese	2.197	0.0050	0.1	2.131	66	75-125	2.217	0.906	25	SEO
Potassium	10.78	0.20	10	1.074	97.1	75-125	10.75	0.279	25	
Sodium	U	0.20	10	0	0	75-125	0	0	25	S

ND - Not Detected at the Reporting Limit

- Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0308127
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: 6399 InstrumentID: 6020

DUP Sample ID 0308127-01CDUP Test Code: SW6020 Units: mg/L Analysis Date 08/19/03 6:35
 Client ID: MW-53 Run ID: 6020_030818A SeqNo: 357925 Prep Date 8/13/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.00284	0.0050	0	0	0	0-0	0.003325	0	25	J
Barium	0.04911	0.0050	0	0	0	0-0	0.04481	9.16	25	
Cadmium	U	0.0010	0	0	0	0-0	0.0001003	0	25	
Chromium	0.001278	0.0020	0	0	0	0-0	0.001603	0	25	J
Cobalt	0.007852	0.0020	0	0	0	0-0	0.007616	3.05	25	
Copper	0.007416	0.0020	0	0	0	0-0	0.00782	5.3	25	
Iron	1.168	0.20	0	0	0	0-0	1.11	5.09	25	
Lead	0.00288	0.0050	0	0	0	0-0	0.002705	0	25	J
Nickel	0.01056	0.0050	0	0	0	0-0	0.01066	0.943	25	
Selenium	0.003694	0.0050	0	0	0	0-0	0.004486	0	25	J
Silver	U	0.0050	0	0	0	0-0	0.00003653	0	25	
Vanadium	0.01963	0.0050	0	0	0	0-0	0.01958	0.255	25	
Zinc	0.01491	0.0050	0	0	0	0-0	0.0146	2.1	25	

DUP Sample ID 0308127-01CDUP Test Code: SW6020 Units: mg/L Analysis Date 08/19/03 17:35
 Client ID: MW-53 Run ID: 6020_030819A SeqNo: 358022 Prep Date 8/13/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Beryllium	U	0.0020	0	0	0	0-0	0.0002161	0	25	
Boron	0.3276	0.020	0	0	0	0-0	0.3395	3.57	25	

DUP Sample ID 0308127-01CDUP Test Code: SW6020 Units: mg/L Analysis Date 08/25/03 16:44
 Client ID: MW-53 Run ID: 6020_030825A SeqNo: 360279 Prep Date 8/13/2003 DF: 20

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	355.9	10	0	0	0	0-0	360.9	1.4	25	
Magnesium	188.2	4.0	0	0	0	0-0	185.6	1.39	25	
Manganese	2.417	0.10	0	0	0	0-0	2.424	0.289	25	

DUP Sample ID 0308127-01CDUP Test Code: SW6020 Units: mg/L Analysis Date 08/25/03 16:53
 Client ID: MW-53 Run ID: 6020_030825A SeqNo: 360281 Prep Date 8/13/2003 DF: 10

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	1	0.10	0	0	0	0-0	1.096	9.16	25	
Sodium	114.9	2.0	0	0	0	0-0	121.3	5.42	25	

ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 O - Referenced analyte value is > 4 times amount spiked
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 B - Analyte detected in assoc. Method Blank
 U - Analyzed for but not detected
 E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0308127
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 6399 InstrumentID: 6020

DUP	Sample ID	0308127-01CDUP	Test Code:	SW6020	Units:	mg/L	Analysis Date	08/25/03 19:00		
Client ID:	MW-53	Run ID:	6020_030825A	SeqNo:	360306	Prep Date	8/13/2003	DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Potassium	1.083	0.20	0	0	0	0-0	1.074	0.834	25	

The following samples were analyzed in this batch:

0308127-01C	0308127-02C	0308127-03C
0308127-04C		

ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits	B - Analyte detected in assoc. Method Blank
- Analyte detected below quantitation limits	R - RPD outside accepted recovery limits	U - Analyzed for but not detected
O - Referenced analyte value is > 4 times amount spiked	P - Dual Column results percent difference > 40%	E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0308127
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: 6404 InstrumentID: Mercury

MBLK Sample ID **GBLKW1-081403** Test Code: **SW7470** Units: **mg/L** Analysis Date **08/15/03 15:06**
 Client ID: Run ID: **MERCURY_030815A** SeqNo: **356885** Prep Date **8/14/2003** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U	0.00020								

LCS Sample ID **GLCSW1-081403** Test Code: **SW7470** Units: **mg/L** Analysis Date **08/15/03 15:08**
 Client ID: Run ID: **MERCURY_030815A** SeqNo: **356886** Prep Date **8/14/2003** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00497	0.00020	0.005	0	99.4	80-120	0			

LCS Sample ID **WLCSW1-081403** Test Code: **E245.1** Units: **mg/L** Analysis Date **08/15/03 15:08**
 Client ID: Run ID: **MERCURY_030815C** SeqNo: **359536** Prep Date **8/14/2003** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00497	0.00020	0.005	0	99.4	80-120	0			

MS Sample ID **0308104-01BMS** Test Code: **SW7470** Units: **mg/L** Analysis Date **08/15/03 15:21**
 Client ID: Run ID: **MERCURY_030815A** SeqNo: **356889** Prep Date **8/14/2003** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00498	0.00020	0.005	0.000007	99.5	80-120	0			

MSD Sample ID **0308104-01BMSD** Test Code: **SW7470** Units: **mg/L** Analysis Date **08/15/03 15:25**
 Client ID: Run ID: **MERCURY_030815A** SeqNo: **356890** Prep Date **8/14/2003** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.0048	0.00020	0.005	0.000007	95.9	80-120	0.00498	3.68	20	

MSD Sample ID **0308140-01BMSD** Test Code: **E245.1** Units: **mg/L** Analysis Date **08/15/03 15:25**
 Client ID: Run ID: **MERCURY_030815B** SeqNo: **359526** Prep Date **8/14/2003** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.0048	0.00020	0.005	0.000007	95.9	80-120	0.00498	3.68	20	

ND - Not Detected at the Reporting Limit
 - Analyte detected below quantitation limits
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 R - RPD outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 B - Analyte detected in assoc. Method Blank
 U - Analyzed for but not detected
 E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0308127
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: 6404 InstrumentID: Mercury

DUP Sample ID 0308104-01BDUP Test Code: SW7470 Units: mg/L Analysis Date 08/15/03 15:12
 Client ID: Run ID: MERCURY_030815A SeqNo: 356888 Prep Date 8/14/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U	0.00020	0	0	0	0-0	0.000007	0	20	

The following samples were analyzed in this batch:

0308127-01C	0308127-02C	0308127-03C
0308127-04C		

ND - Not Detected at the Reporting Limit
 - Analyte detected below quantitation limits
 O - Referenced analyte value is > 4 times amount spiked
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 B - Analyte detected in assoc. Method Blank
 U - Analyzed for but not detected
 E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0308127
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: 6412 InstrumentID: SV-3

MBLK Sample ID SBLKW1-030814 Test Code: SW8270 Units: µg/L Analysis Date 08/15/03 12:50

Client ID: Run ID: SV-3_030815B SeqNo: 357308 Prep Date 8/14/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	U	10								
2,4,5-Trichlorophenol	U	10								
2,4,6-Trichlorophenol	U	10								
2-Methylnaphthalene	U	10								
2-Methylphenol	U	10								
2-Nitroaniline	U	10								
2-Nitrophenol	U	10								
3-Nitroaniline	U	10								
4-Methylphenol	U	10								
4-Nitroaniline	U	10								
4-Nitrophenol	U	10								
Acenaphthene	U	10								
Acenaphthylene	U	10								
Aniline	U	10								
Anthracene	U	10								
Benz(a)anthracene	U	10								
Benzidine	U	10								
Hexachloroethane	U	10								
Indeno(1,2,3-cd)pyrene	U	10								
Isophorone	U	10								
N-Nitrosodi-n-propylamine	U	10								
N-Nitrosodimethylamine	U	10								
N-Nitrosodiphenylamine	U	10								
Naphthalene	U	10								
Nitrobenzene	U	10								
Pentachlorophenol	U	10								
Phenanthrene	U	10								
Phenol	U	10								
Pyrene	U	10								
1,4-Dichlorobenzene-d4	40	0								
Acenaphthene-d10	40	0								
Chrysene-d12	40	0								
Naphthalene-d8	40	0								
Perylene-d12	40	0								
Phenanthrene-d10	40	0								
Surr: 2,4,6-Tribromophenol	85.05	0	100	0	85	10-123		0		
Surr: 2-Fluorobiphenyl	73.55	0	100	0	73.5	43-116		0		
Surr: 2-Fluorophenol	35.68	0	100	0	35.7	21-100		0		
Surr: 4-Terphenyl-d14	100.6	0	100	0	101	33-141		0		
Surr: Nitrobenzene-d5	76.44	0	100	0	76.4	35-114		0		
Surr: Phenol-d6	21.66	0	100	0	21.7	10-94		0		

ND - Not Detected at the Reporting Limit

- Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0308127
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: 6412 InstrumentID: SV-3

LCS Sample ID SLCSW1-030814 Test Code: SW8270 Units: µg/L Analysis Date 08/15/03 13:18

Client ID: Run ID: SV-3_030815B SeqNo: 357309 Prep Date 8/14/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	36.47	10	50	0	72.9	51-110	0			
2,4,5-Trichlorophenol	89.73	10	100	0	89.7	55-130	0			
2,4,6-Trichlorophenol	88.33	10	100	0	88.3	55-130	0			
2-Methylnaphthalene	39.58	10	50	0	79.2	50-125	0			
2-Methylphenol	69.98	10	100	0	70	45-120	0			
2-Nitroaniline	45.28	10	50	0	90.6	55-130	0			
2-Nitrophenol	81.64	10	100	0	81.6	55-125	0			
3-Nitroaniline	37.83	10	50	0	75.7	55-120	0			
4-Methylphenol	94.3	10	150	0	62.9	40-120	0			
4-Nitroaniline	41.46	10	50	0	82.9	60-130	0			
4-Nitrophenol	35.11	10	100	0	35.1	25-100	0			
Acenaphthene	43.91	10	50	0	87.8	50-120	0			
Acenaphthylene	40.34	10	50	0	80.7	55-130	0			
Anthracene	46.26	10	50	0	92.5	60-130	0			
Benz(a)anthracene	41.44	10	50	0	82.9	60-130	0			
Benzidine	8.009	10	50	0	16	10-85	0			J
Hexachloroethane	33.77	10	50	0	67.5	40-120	0			
Indeno(1,2,3-cd)pyrene	39.76	10	50	0	79.5	60-130	0			
Isophorone	44.55	10	50	0	89.1	60-130	0			
N-Nitrosodi-n-propylamine	44.81	10	50	0	89.6	55-120	0			
N-Nitrosodimethylamine	23.01	10	50	0	46	35-110	0			
N-Nitrosodiphenylamine	48.23	10	50	0	96.5	60-130	0			
Naphthalene	38.2	10	50	0	76.4	55-130	0			
Nitrobenzene	42.16	10	50	0	84.3	60-130	0			
Pentachlorophenol	88.95	10	100	0	89	45-125	0			
Phenanthrene	43.7	10	50	0	87.4	60-130	0			
Phenol	32.07	10	100	0	32.1	20-100	0			
Pyrene	41.92	10	50	0	83.8	45-120	0			
Surr: 2,4,6-Tribromophenol	92.82	0	100	0	92.8	10-123	0			
Surr: 2-Fluorobiphenyl	82.4	0	100	0	82.4	43-116	0			
Surr: 2-Fluorophenol	44.66	0	100	0	44.7	21-100	0			
Surr: 4-Terphenyl-d14	90.84	0	100	0	90.8	33-141	0			
Surr: Nitrobenzene-d5	80.01	0	100	0	80	35-114	0			
Surr: Phenol-d6	28.95	0	100	0	29	10-94	0			

ND - Not Detected at the Reporting Limit

- Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0308127
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: 6412 InstrumentID: SV-3

LCSD Sample ID SLCSDW1-030814 Test Code: SW8270 Units: µg/L Analysis Date 08/15/03 13:45

Client ID: Run ID: SV-3_030815B SeqNo: 357310 Prep Date 8/14/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	36.28	10	50	0	72.6	51-110	36.47	0.525	30	
2,4,5-Trichlorophenol	88.1	10	100	0	88.1	55-130	89.73	1.83	30	
2,4,6-Trichlorophenol	89.18	10	100	0	89.2	55-130	88.33	0.953	30	
2-Methylnaphthalene	37.37	10	50	0	74.7	50-125	39.58	5.75	30	
2-Methylphenol	65.82	10	100	0	65.8	45-120	69.98	6.12	30	
2-Nitroaniline	47.89	10	50	0	95.8	55-130	45.28	5.62	30	
2-Nitrophenol	81.96	10	100	0	82	55-125	81.64	0.388	30	
3-Nitroaniline	39.41	10	50	0	78.8	55-120	37.83	4.07	30	
4-Methylphenol	90.98	10	150	0	60.7	40-120	94.3	3.58	30	
4-Nitroaniline	45.74	10	50	0	91.5	60-130	41.46	9.83	30	
4-Nitrophenol	32.96	10	100	0	33	25-100	35.11	6.32	30	
Acenaphthene	43.01	10	50	0	86	50-120	43.91	2.07	30	
Acenaphthylene	41.3	10	50	0	82.6	55-130	40.34	2.35	30	
Anthracene	47.43	10	50	0	94.9	60-130	46.26	2.48	30	
Benz(a)anthracene	43.14	10	50	0	86.3	60-130	41.44	4.01	30	
Benzidine	9.143	10	50	0	18.3	10-85	8.009	0	30	J
Hexachloroethane	32.83	10	50	0	65.7	40-120	33.77	2.83	30	
Indeno(1,2,3-cd)pyrene	39.85	10	50	0	79.7	60-130	39.76	0.215	30	
Isophorone	44.95	10	50	0	89.9	60-130	44.55	0.897	30	
N-Nitrosodi-n-propylamine	45.52	10	50	0	91	55-120	44.81	1.56	30	
N-Nitrosodimethylamine	19.37	10	50	0	38.7	35-110	23.01	17.2	30	
N-Nitrosodiphenylamine	50.37	10	50	0	101	60-130	48.23	4.35	30	
Naphthalene	39.38	10	50	0	78.8	55-130	38.2	3.05	30	
Nitrobenzene	43.35	10	50	0	86.7	60-130	42.16	2.79	30	
Pentachlorophenol	93.04	10	100	0	93	45-125	88.95	4.49	30	
Phenanthrene	44.89	10	50	0	89.8	60-130	43.7	2.69	30	
Phenol	29.12	10	100	0	29.1	20-100	32.07	9.67	30	
Pyrene	42.69	10	50	0	85.4	45-120	41.92	1.81	30	
Surr: 2,4,6-Tribromophenol	93.37	0	100	0	93.4	10-123	92.82	0.585	30	
Surr: 2-Fluorobiphenyl	80.77	0	100	0	80.8	43-116	82.4	1.99	30	
Surr: 2-Fluorophenol	41.11	0	100	0	41.1	21-100	44.66	8.27	30	
Surr: 4-Terphenyl-d14	91.02	0	100	0	91	33-141	90.84	0.203	30	
Surr: Nitrobenzene-d5	80.33	0	100	0	80.3	35-114	80.01	0.396	30	
Surr: Phenol-d6	26.65	0	100	0	26.7	10-94	28.95	8.26	30	

The following samples were analyzed in this batch:

0308127-01E	0308127-02E	0308127-03E
0308127-04E		

ND - Not Detected at the Reporting Limit

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R - RPD outside accepted recovery limits

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E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0308127
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: R15673 InstrumentID: VOA_II

MBLK Sample ID VBLKW-0814 Test Code: SW8260 Units: µg/L Analysis Date 08/14/03 23:10

Client ID: Run ID: VOA_II_030814C SeqNo: 356789 Prep Date DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	5.0								
1,1,2,2-Tetrachloroethane	U	5.0								
1,1,2-Trichloroethane	U	5.0								
1,1-Dichloroethane	U	5.0								
1,1-Dichloroethene	U	5.0								
1,2-Dichloroethane	U	5.0								
2-Butanone	U	10								
2-Chloroethyl vinyl ether	U	10								
2-Hexanone	U	10								
4-Methyl-2-pentanone	U	10								
Acetone	U	10								
Benzene	U	5.0								
Bromodichloromethane	U	5.0								
Bromoform	U	5.0								
Bromomethane	U	5.0								
Carbon disulfide	U	10								
Carbon tetrachloride	U	5.0								
Chlorobenzene	U	5.0								
Chloroethane	U	5.0								
Chloroform	U	5.0								
Chloromethane	U	5.0								
cis-1,3-Dichloropropene	U	5.0								
Dibromochloromethane	U	5.0								
Ethylbenzene	U	5.0								
m,p-Xylene	U	10								
Methylene chloride	U	10								
Styrene	U	5.0								
Tetrachloroethene	U	5.0								
Toluene	U	5.0								
trans-1,3-Dichloropropene	U	5.0								
Trichloroethene	U	5.0								
Vinyl acetate	U	10								
Vinyl chloride	U	2.0								
Xylenes, Total	U	15								
Surr: 1,2-Dichloroethane-d4	42.13	5.0	50	0	84.3	70-130	0			
Surr: 4-Bromofluorobenzene	39.51	5.0	50	0	79	70-130	0			
Surr: Dibromofluoromethane	44.57	5.0	50	0	89.1	70-130	0			
Surr: Toluene-d8	42.37	5.0	50	0	84.7	70-130	0			

ND - Not Detected at the Reporting Limit
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 E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0308127
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: R15673 InstrumentID: VOA_II

LCS Sample ID VLCSW-0814 Test Code: SW8260 Units: µg/L Analysis Date 08/14/03 21:53

Client ID: Run ID: VOA_II_030814C SeqNo: 356787 Prep Date DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	50.88	5.0	50	0	102	75-118	0			
1,1,2,2-Tetrachloroethane	41.19	5.0	50	0	82.4	79-120	0			
1,1,2-Trichloroethane	46.35	5.0	50	0	92.7	81-119	0			
1,1-Dichloroethane	50.69	5.0	50	0	101	80-120	0			
1,1-Dichloroethene	52.74	5.0	50	0	105	80-120	0			
1,2-Dichloroethane	48.26	5.0	50	0	96.5	80-120	0			
2-Butanone	103.8	10	100	0	104	70-130	0			
2-Chloroethyl vinyl ether	179.3	10	100	0	179	72-120	0			S
2-Hexanone	94.4	10	100	0	94.4	70-130	0			
4-Methyl-2-pentanone	94.02	10	100	0	94	78-120	0			
Acetone	99.71	10	100	0	99.7	60-135	0			
Benzene	50.8	5.0	50	0	102	82-119	0			
Bromodichloromethane	51.32	5.0	50	0	103	81-119	0			
Bromoform	44.96	5.0	50	0	89.9	80-120	0			
Bromomethane	48.95	5.0	50	0	97.9	75-130	0			
Carbon disulfide	100.5	10	100	0	100	78-120	0			
Carbon tetrachloride	53.63	5.0	50	0	107	77-120	0			
Chlorobenzene	46.52	5.0	50	0	93	82-118	0			
Chloroethane	48.85	5.0	50	0	97.7	78-122	0			
Chloroform	49.2	5.0	50	0	98.4	78-120	0			
Chloromethane	54.38	5.0	50	0	109	75-125	0			
cis-1,3-Dichloropropene	53.19	5.0	50	0	106	81-120	0			
Dibromochloromethane	47.12	5.0	50	0	94.2	81-118	0			
Ethylbenzene	50.86	5.0	50	0	102	82-120	0			
m,p-Xylene	101.6	10	100	0	102	82-122	0			
Methylene chloride	48.09	10	50	0	96.2	80-122	0			
Styrene	49.82	5.0	50	0	99.6	82-121	0			
Tetrachloroethene	50.96	5.0	50	0	102	79-118	0			
Toluene	50.27	5.0	50	0	101	81-119	0			
trans-1,3-Dichloropropene	50.67	5.0	50	0	101	82-121	0			
Trichloroethene	53	5.0	50	0	106	78-118	0			
Vinyl acetate	94.63	10	100	0	94.6	75-120	0			
Vinyl chloride	49.02	2.0	50	0	98	73-127	0			
Xylenes, Total	154	15	150	0	103	80-120	0			
Surr: 1,2-Dichloroethane-d4	40.99	5.0	50	0	82	70-130	0			
Surr: 4-Bromofluorobenzene	42.94	5.0	50	0	85.9	70-130	0			
Surr: Dibromofluoromethane	43.34	5.0	50	0	86.7	70-130	0			
Surr: Toluene-d8	43.25	5.0	50	0	86.5	70-130	0			

ND - Not Detected at the Reporting Limit

- Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0308127
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: R15673 InstrumentID: VOA_II

LCSD	Sample ID	VLCSD-0814		Test Code:	SW8260	Units:	µg/L	Analysis Date			08/14/03 22:19
Client ID:	Run ID:	VOA_II_030814C		SeqNo:	356788	Prep Date	DF:	1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
1,1,1-Trichloroethane	51.12	5.0	50	0	102	75-118	50.88	0.458	20		
1,1,2,2-Tetrachloroethane	39.71	5.0	50	0	79.4	79-120	41.19	3.67	20		
1,1,2-Trichloroethane	45.78	5.0	50	0	91.6	81-119	46.35	1.25	20		
1,1-Dichloroethane	48.62	5.0	50	0	97.2	80-120	50.69	4.18	20		
1,1-Dichloroethene	53.22	5.0	50	0	106	80-120	52.74	0.902	20		
1,2-Dichloroethane	46.89	5.0	50	0	93.8	80-120	48.26	2.88	20		
2-Butanone	99.9	10	100	0	99.9	70-130	103.8	3.81	20		
2-Chloroethyl vinyl ether	173.7	10	100	0	174	72-120	179.3	3.2	20	S	
2-Hexanone	90.38	10	100	0	90.4	70-130	94.4	4.36	20		
4-Methyl-2-pentanone	89.33	10	100	0	89.3	78-120	94.02	5.12	20		
Acetone	99.36	10	100	0	99.4	60-135	99.71	0.354	20		
Benzene	51.6	5.0	50	0	103	82-119	50.8	1.56	20		
Bromodichloromethane	51.03	5.0	50	0	102	81-119	51.32	0.564	20		
Bromoform	42.98	5.0	50	0	86	80-120	44.96	4.51	20		
Bromomethane	49.34	5.0	50	0	98.7	75-130	48.95	0.783	20		
Carbon disulfide	100.9	10	100	0	101	78-120	100.5	0.406	20		
Carbon tetrachloride	52.81	5.0	50	0	106	77-120	53.63	1.54	20		
Chlorobenzene	46.95	5.0	50	0	93.9	82-118	46.52	0.904	20		
Chloroethane	49.05	5.0	50	0	98.1	78-122	48.85	0.404	20		
Chloroform	49.39	5.0	50	0	98.8	78-120	49.2	0.403	20		
Chloromethane	53.36	5.0	50	0	107	75-125	54.38	1.88	20		
cis-1,3-Dichloropropene	53.57	5.0	50	0	107	81-120	53.19	0.719	20		
Dibromochloromethane	46.52	5.0	50	0	93	81-118	47.12	1.28	20		
Ethylbenzene	50.83	5.0	50	0	102	82-120	50.86	0.0468	20		
m,p-Xylene	101.3	10	100	0	101	82-122	101.6	0.298	20		
Methylene chloride	47.43	10	50	0	94.9	80-122	48.09	1.39	20		
Styrene	50.27	5.0	50	0	101	82-121	49.82	0.888	20		
Tetrachloroethene	50.65	5.0	50	0	101	79-118	50.96	0.617	20		
Toluene	49.82	5.0	50	0	99.6	81-119	50.27	0.904	20		
trans-1,3-Dichloropropene	50.92	5.0	50	0	102	82-121	50.67	0.483	20		
Trichloroethene	53.42	5.0	50	0	107	78-118	53	0.797	20		
Vinyl acetate	89.01	10	100	0	89	75-120	94.63	6.12	20		
Vinyl chloride	49.36	2.0	50	0	98.7	73-127	49.02	0.69	20		
Xylenes, Total	153.3	15	150	0	102	80-120	154	0.425	20		
Surr: 1,2-Dichloroethane-d4	40.19	5.0	50	0	80.4	70-130	40.99	1.98	20		
Surr: 4-Bromofluorobenzene	42.48	5.0	50	0	85	70-130	42.94	1.08	20		
Surr: Dibromofluoromethane	42.97	5.0	50	0	85.9	70-130	43.34	0.867	20		
Surr: Toluene-d8	42.82	5.0	50	0	85.6	70-130	43.25	1.01	20		

The following samples were analyzed in this batch:

0308127-01A	0308127-02A	0308127-03A
0308127-04A		

ND - Not Detected at the Reporting Limit
 - Analyte detected below quantitation limits
 O - Referenced analyte value is > 4 times amount spiked
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 B - Analyte detected in assoc. Method Blank
 U - Analyzed for but not detected
 E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0308127
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: R15643 InstrumentID: Wet Chemistry

MBLK	Sample ID	WMBW1-081303	Test Code:	E310.1	Units:	mg/L	Analysis Date	08/13/03 0:00		
Client ID:	Run ID:	WET CHEMISTRY_0308	SeqNo:	356132	Prep Date	DF:	1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	U	5.0								
Alkalinity, Carbonate (As CaCO3)	U	5.0								
Alkalinity, Hydroxide (As CaCO3)	U	5.0								
Alkalinity, Total (As CaCO3)	U	5.0								

LCS	Sample ID	WLCSW1-081303	Test Code:	E310.1	Units:	mg/L	Analysis Date	08/13/03 0:00		
Client ID:	Run ID:	WET CHEMISTRY_0308	SeqNo:	356133	Prep Date	DF:	1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	1000	5.0	1000	0	100	80-120	0			

DUP	Sample ID	0308106-03D DUP	Test Code:	E310.1	Units:	mg/L	Analysis Date	08/13/03 0:00		
Client ID:	Run ID:	WET CHEMISTRY_0308	SeqNo:	356141	Prep Date	DF:	1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	185	5.0	0	0	0	0-0	180	2.74	20	
Alkalinity, Carbonate (As CaCO3)	U	5.0	0	0	0	0-0	0	0	20	
Alkalinity, Hydroxide (As CaCO3)	U	5.0	0	0	0	0-0	0	0	20	
Alkalinity, Total (As CaCO3)	185	5.0	0	0	0	0-0	180	2.74	20	

The following samples were analyzed in this batch:

0308127-01B	0308127-02B	0308127-03B
0308127-04B		

ND - Not Detected at the Reporting Limit
 - Analyte detected below quantitation limits
 O - Referenced analyte value is > 4 times amount spiked
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 B - Analyte detected in assoc. Method Blank
 U - Analyzed for but not detected
 E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0308127
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: R15655 InstrumentID: IC201

MBLK	Sample ID	WBLKW1-081203	Test Code: E300			Units: mg/L		Analysis Date 08/12/03 21:01		
Client ID:	Run ID:	IC201_030812A	SeqNo:	356403	Prep Date	DF:	1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	U	0.50								
Fluoride	U	0.10								
Sulfate	U	1.0								
Nitrate/Nitrite (as N)	U	0.10								
Surr: Dichloroacetic acid (surr)	U	0.10								

LCS	Sample ID	WLCSW1-081203	Test Code: E300			Units: mg/L		Analysis Date 08/12/03 21:34		
Client ID:	Run ID:	IC201_030812A	SeqNo:	356404	Prep Date	DF:	1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	9.68	0.50	10	0	96.8	80-120	0			
Fluoride	1.97	0.10	2	0	98.5	80-120	0			
Sulfate	10.48	1.0	10	0	105	80-120	0			
Surr: Dichloroacetic acid (surr)	2.09	0.10	2	0	104	80-120	0			

MS	Sample ID	0308062-02BMS	Test Code: E300			Units: mg/L		Analysis Date 08/12/03 23:44		
Client ID:	Run ID:	IC201_030812A	SeqNo:	356407	Prep Date	DF:	1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	10.15	0.50	10	0	102	75-125	0			
Fluoride	1.97	0.10	2	0	98.5	75-125	0			
Sulfate	10.94	1.0	10	0	109	75-125	0			
Nitrate/Nitrite (as N)	4.31	0.10	4	0	108	75-125	0			
Surr: Dichloroacetic acid (surr)	5.38	0.10	5	0	108	80-120	0			

MSD	Sample ID	0308062-02BMSD	Test Code: E300			Units: mg/L		Analysis Date 08/13/03 0:16		
Client ID:	Run ID:	IC201_030812A	SeqNo:	356408	Prep Date	DF:	1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	9.9	0.50	10	0	99	75-125	10.15	2.49	20	
Fluoride	1.93	0.10	2	0	96.5	75-125	1.97	2.05	20	
Sulfate	10.71	1.0	10	0	107	75-125	10.94	2.12	20	
Nitrate/Nitrite (as N)	4.07	0.10	4	0	102	75-125	4.31	5.73	20	
Surr: Dichloroacetic acid (surr)	4.85	0.10	5	0	97	80-120	5.38	10.4	20	

ND - Not Detected at the Reporting Limit
 S - Spike Recovery outside accepted recovery limits
 B - Analyte detected in assoc. Method Blank
 - Analyte detected below quantitation limits
 R - RPD outside accepted recovery limits
 U - Analyzed for but not detected
 O - Referenced analyte value is > 4 times amount spiked
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0308127
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: R15655 InstrumentID: IC201

DUP	Sample ID	Test Code: E300				Units: mg/L	Analysis Date 08/12/03 23:11			
Client ID:	Run ID:	IC201_030812A		SeqNo:	356406	Prep Date	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluoride	U	0.10	0	0	0	0-0	0	0	20	
Surr: Dichloroacetic acid (surr)	5.5	0.10	5	0	110	80-120	5.48	0.364	20	

DUP	Sample ID	Test Code: E300				Units: mg/L	Analysis Date 08/13/03 13:49			
Client ID:	Run ID:	IC201_030812A		SeqNo:	356417	Prep Date	DF: 100			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfate	1858	100	0	0	0	0-0	1924	3.49	20	
Nitrate/Nitrite (as N)	U	10	0	0	0	0-0	0	0	20	
Surr: Dichloroacetic acid (surr)	562	10	500	0	112	80-120	554	1.43	20	

DUP	Sample ID	Test Code: E300				Units: mg/L	Analysis Date 08/13/03 23:02			
Client ID:	Run ID:	IC201_030812A		SeqNo:	356432	Prep Date	DF: 50			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	206.5	25	0	0	0	0-0	207	0.242	20	
Nitrate/Nitrite (as N)	26.5	5.0	0	0	0	0-0	27	1.87	20	
Surr: Dichloroacetic acid (surr)	254.5	5.0	250	0	102	80-120	263.5	3.47	20	

The following samples were analyzed in this batch:

0308127-01B	0308127-02B	0308127-03B
0308127-04B		

ND - Not Detected at the Reporting Limit
 U - Analyte detected below quantitation limits
 O - Referenced analyte value is > 4 times amount spiked
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 B - Analyte detected in assoc. Method Blank
 U - Analyzed for but not detected
 E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0308127
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: R15690 InstrumentID: Wet Chemistry

MBLK	Sample ID	WMBW1-081703	Test Code:	E335.3	Units:	mg/L	Analysis Date	08/17/03 0:00		
Client ID:	Run ID:	WET CHEMISTRY_0308	SeqNo:	357183	Prep Date		DF:	1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide	U	0.020								

LCS	Sample ID	WLCSW1-081703	Test Code:	E335.3	Units:	mg/L	Analysis Date	08/17/03 0:00		
Client ID:	Run ID:	WET CHEMISTRY_0308	SeqNo:	357184	Prep Date		DF:	1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide	0.2034	0.020	0.2	0	102	80-120	0			

MS	Sample ID	0308113-01E MS	Test Code:	E335.3	Units:	mg/L	Analysis Date	08/17/03 0:00		
Client ID:	Run ID:	WET CHEMISTRY_0308	SeqNo:	357203	Prep Date		DF:	1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide	0.1994	0.020	0.2	0.0077	95.8	75-125	0			

MSD	Sample ID	0308113-01E MSD	Test Code:	E335.3	Units:	mg/L	Analysis Date	08/17/03 0:00		
Client ID:	Run ID:	WET CHEMISTRY_0308	SeqNo:	357211	Prep Date		DF:	1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide	0.1975	0.020	0.2	0.0077	94.9	75-125	0.1994	0.957	25	

DUP	Sample ID	0308113-01E DUP	Test Code:	E335.3	Units:	mg/L	Analysis Date	08/17/03 0:00		
Client ID:	Run ID:	WET CHEMISTRY_0308	SeqNo:	357202	Prep Date		DF:	1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide	0.0071	0.020	0	0	0	0-0	0.0077	0	20	J

The following samples were analyzed in this batch: 0308127-01D 0308127-02D 0308127-03D
 0308127-04D

ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 O - Referenced analyte value is > 4 times amount spiked
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 B - Analyte detected in assoc. Method Blank
 U - Analyzed for but not detected
 E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0308127
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: R15738 InstrumentID: IC201

MBLK	Sample ID	WBLKW1-081903	Test Code: E300			Units: mg/L	Analysis Date 08/19/03 20:58			
Client ID:	Run ID:	IC201_030819A	SeqNo:	358156	Prep Date	DF:	1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	U	0.50								
Fluoride	U	0.10								
Sulfate	U	1.0								
Nitrate/Nitrite (as N)	U	0.10								
Surr: Dichloroacetic acid (surr)	U	0.10								

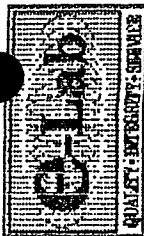
LCS	Sample ID	WLC SW1-081903	Test Code: E300			Units: mg/L	Analysis Date 08/19/03 21:31			
Client ID:	Run ID:	IC201_030819A	SeqNo:	358157	Prep Date	DF:	1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	9.63	0.50	10	0	96.3	80-120	0			
Fluoride	1.97	0.10	2	0	98.5	80-120	0			
Sulfate	10.16	1.0	10	0	102	80-120	0			
Surr: Dichloroacetic acid (surr)	2.17	0.10	2	0	108	80-120	0			

LCSD	Sample ID	WLCSDW1-08190	Test Code: E300			Units: mg/L	Analysis Date 08/19/03 22:03			
Client ID:	Run ID:	IC201_030819A	SeqNo:	358158	Prep Date	DF:	1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	9.81	0.50	10	0	98.1	80-120	9.63	1.85	20	
Fluoride	1.92	0.10	2	0	96	80-120	1.97	2.57	20	
Sulfate	10.42	1.0	10	0	104	80-120	10.16	2.53	20	
Surr: Dichloroacetic acid (surr)	2.29	0.10	2	0	114	80-120	2.17	5.38	20	

The following samples were analyzed in this batch:

0308127-01B	0308127-02B	0308127-03B
0308127-04B		

ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 O - Referenced analyte value is > 4 times amount spiked
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 B - Analyte detected in assoc. Method Blank
 U - Analyzed for but not detected
 E - Value above quantitation range



e-Lab, Inc.
10450 Shamoff Rd. #210
Houston, Texas 77099
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Chain of Custody Form

Page 1 of 1

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(Fax) 616.399.6185

Customer Information				e-Lab Project Manager: G Jones				e-Lab Work Order #: 030302										
Project Information				Project Identifier: NCL/TEL				Parameter/Method: Request for Analysis										
Purchase Order				Project Name: Artesia Covington Eff				A: Metals (Cr) (6020)										
Work Order				Project Number				B: Nitrogen Ammonia										
Company Name: Navajo Refining Company				Bill To Company				C: Oil & Grease										
Serial Report To: Jeff Byrd				Invoice Attn:				D: NCL/TEL										
Address: P.O. Box 159				Address				E: _____										
City/State/Zip: Artesia, NM 88211				City/State/Zip				G: _____										
Phone: 505-748-3311				Phone				H: _____										
Fax: 505-746-5421				Fax				I: _____										
e-Mail Address				e-Mail Address				J: _____										
No	Sample Description	Date	Time	Weight	Press	# of Samples	A	B	C	D	E	F	G	H	I	J	Hold	
1	MW-53	8/11/03	1030	L	4	8												
2	NCL-49	↓	1345	↓	↓	↓												
3	NCL-32	↓	1400	↓	↓	↓												
4	NCL-44	↓	1115	↓	↓	↓												
5																		
6																		
7																		
8																		
9																		
10																		
Samples (1): Please Print & Sign				Shipment Method: Fed Ex				Required Turnaround Time (Check Box): <input checked="" type="checkbox"/> 5-7 Bus Days <input type="checkbox"/> 5-7 Air Days <input type="checkbox"/> Other _____				Res Uts Due Date						
Relinquished by: <i>Byrd</i>				Received by: _____				Notes				QC Package: (Check Box Below) Level II: Standard QC Level III: Standard QC + Raw Data Level IV: SWB46 Methods/CLP Other _____						
Logged by (Laboratory):				Received by (Laboratory):				e-Lab Cooler ID				Cooler Temp						
Date: 8/11/03				Date: 1615				Time: 1615				Time: 1615						
Date: _____				Date: _____				Time: _____				Time: _____						
Date: _____				Date: _____				Time: _____				Time: _____						
Preservative Key: 1: HCl 2: HNO3 3: H2SO4 4: NaOH 5: Na2S2O3 6: NaHSO4 7: Other 8: 4°C																		

Note: Any changes must be made in writing once samples are submitted to e-Lab, Inc.



e-Lab, Inc.

10450 Standcliff Rd, Suite 210 Houston, Texas 77099-4338 281-530-5656 Fax 281-530-5887

September 09, 2003

Jeff Byrd
Navajo Refining Company
P.O. Box 159
Artesia, New Mexico 88211

Tel: (505) 746-5468
Fax: (505) 746-5421

Re: NCL/TEL

Work Order : **0308149**

Dear Jeff Byrd,

e-Lab, Inc. received 4 samples on 8/14/2003 9:50:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by e-Lab, Inc. and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by e-Lab Inc. The total number of pages in this report is 49. If you have any questions regarding this report, please feel free to call me.

Sincerely,

Lora Terrill

Electronically approved by: Georgia Jones

Lora Terrill
VP Lab Operations

e-Lab, Inc.

Date: September 02, 2003

CLIENT: Navajo Refining Company
Project: NCL/TEL
Work Order: 0308149

Work Order Sample Summary

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
0308149-01	TEL-4	Water		8/13/2003 10:00	8/14/2003 09:50	<input type="checkbox"/>
0308149-02	TEL-3	Water		8/13/2003 10:20	8/14/2003 09:50	<input type="checkbox"/>
0308149-03	TEL-2	Water		8/13/2003 10:50	8/14/2003 09:50	<input type="checkbox"/>
0308149-04	TEL-1	Water		8/13/2003 14:00	8/14/2003 09:50	<input type="checkbox"/>

e-Lab. Inc.

Date: *September 02, 2003*

CLIENT: Navajo Refining Company

Project: NCL/TEL

Work Order: 0308149

Case Narrative

Holding time missed due to analyst error for Nitrate on sample TEL-4. Jeff Byrd requested to run and report sample 9/19,lt.

CLIENT: Navajo Refining Company
Work Order: 0308149
Project: NCL/TEL
Lab ID: 0308149-01

Client Sample ID: TEL-4
Collection Date: 8/13/2003 10:00:00 AM
Matrix: WATER

Analyses	Result	MDL	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL		SW7470		Prep Date: 8/19/2003		Analyst: MG	
Mercury	U	0.000042	0.000200		mg/L	1	8/20/2003
ICP METALS, TOTAL		SW6020		Prep Date: 8/15/2003		Analyst: ALR	
Aluminum	0.0129	0.0016	0.0100		mg/L	1	9/1/2003
Arsenic	0.0142	0.0018	0.00500		mg/L	1	8/23/2003
Barium	0.327	0.0012	0.0100		mg/L	2	9/1/2003
Beryllium	U	0.00030	0.00200		mg/L	1	8/23/2003
Boron	0.714	0.055	0.100		mg/L	5	9/1/2003
Cadmium	U	0.00015	0.00100		mg/L	1	9/1/2003
Calcium	175	1.6	10.0		mg/L	20	8/30/2003
Chromium	0.00990	0.00050	0.00200		mg/L	1	8/23/2003
Cobalt	0.000712	0.00010	0.00200	J	mg/L	1	8/23/2003
Copper	0.00562	0.00030	0.00200		mg/L	1	8/23/2003
Iron	1.85	0.025	0.200		mg/L	1	8/23/2003
Lead	0.00317	0.00020	0.00500	J	mg/L	1	9/1/2003
Magnesium	203	0.50	4.00		mg/L	20	8/30/2003
Manganese	0.264	0.0010	0.00500		mg/L	1	8/23/2003
Nickel	0.0144	0.00030	0.00500		mg/L	1	8/23/2003
Potassium	0.492	0.020	0.200		mg/L	1	8/23/2003
Selenium	0.0247	0.0017	0.00500		mg/L	1	8/23/2003
Silver	U	0.00020	0.00500		mg/L	1	9/1/2003
Sodium	346	0.64	4.00		mg/L	20	8/30/2003
Vanadium	U	0.00040	0.00500		mg/L	1	9/1/2003
Zinc	0.0126	0.0015	0.00500		mg/L	1	8/23/2003
SEMIVOLATILE ORGANICS BY GC/MS		SW8270		Prep Date: 8/18/2003		Analyst: JLJ	
1,2,4-Trichlorobenzene	U	0.83	10		µg/L	1	8/18/2003
2,4,5-Trichlorophenol	U	2.4	10		µg/L	1	8/18/2003
2,4,6-Trichlorophenol	U	2.7	10		µg/L	1	8/18/2003
2-Methylnaphthalene	U	0.86	10		µg/L	1	8/18/2003
2-Methylphenol	U	2.8	10		µg/L	1	8/18/2003
2-Nitroaniline	U	1.1	10		µg/L	1	8/18/2003
2-Nitrophenol	U	2.6	10		µg/L	1	8/18/2003
3-Nitroaniline	U	1.2	10		µg/L	1	8/18/2003
4-Methylphenol	U	4.6	10		µg/L	1	8/18/2003
4-Nitroaniline	U	0.95	10		µg/L	1	8/18/2003
4-Nitrophenol	U	2.7	10		µg/L	1	8/18/2003
Acenaphthene	U	1.1	10		µg/L	1	8/18/2003
Acenaphthylene	U	1.0	10		µg/L	1	8/18/2003
Aniline	U	10	10		µg/L	1	8/18/2003

Qualifiers:
 U - Analyzed for but Not Detected
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time

CLIENT: Navajo Refining Company
 Work Order: 0308149
 Project: NCL/TEL
 Lab ID: 0308149-01

Client Sample ID: TEL-4
 Collection Date: 8/13/2003 10:00:00 AM
 Matrix: WATER

Analyses	Result	MDL	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Anthracene	U	0.36	10		µg/L	1	8/18/2003
Benz(a)anthracene	U	0.77	10		µg/L	1	8/18/2003
Benzidine	U	0.34	10		µg/L	1	8/18/2003
Hexachloroethane	U	0.64	10		µg/L	1	8/18/2003
Indeno(1,2,3-cd)pyrene	U	0.77	10		µg/L	1	8/18/2003
Isophorone	U	1.2	10		µg/L	1	8/18/2003
N-Nitrosodi-n-propylamine	U	1.5	10		µg/L	1	8/18/2003
N-Nitrosodimethylamine	U	1.1	10		µg/L	1	8/18/2003
N-Nitrosodiphenylamine	U	1.3	10		µg/L	1	8/18/2003
Naphthalene	18	1.0	10		µg/L	1	8/18/2003
Nitrobenzene	U	1.7	10		µg/L	1	8/18/2003
Pentachlorophenol	U	1.5	10		µg/L	1	8/18/2003
Phenanthrene	1.5	1.2	10	J	µg/L	1	8/18/2003
Phenol	U	3.5	10		µg/L	1	8/18/2003
Pyrene	U	0.92	10		µg/L	1	8/18/2003
Surr:2,4,6-Tribromophenol	110	0	10-123		%REC	1	8/18/2003
Surr:2-Fluorobiphenyl	90.8	0	43-116		%REC	1	8/18/2003
Surr:2-Fluorophenol	34.5	0	21-100		%REC	1	8/18/2003
Surr:4-Terphenyl-d14	94.1	0	33-141		%REC	1	8/18/2003
Surr:Nitrobenzene-d5	92.7	0	35-114		%REC	1	8/18/2003
Surr: Phenol-d6	22.3	0	10-94		%REC	1	8/18/2003

VOLATILES BY GC/MS

SW8260

Prep Date:

Analyst: QLD

1,1,1-Trichloroethane	U	0.62	5.0		µg/L	1	8/25/2003
1,1,2,2-Tetrachloroethane	U	0.58	5.0		µg/L	1	8/25/2003
1,1,2-Trichloroethane	U	0.41	5.0		µg/L	1	8/25/2003
1,1-Dichloroethane	U	0.43	5.0		µg/L	1	8/25/2003
1,1-Dichloroethene	U	0.53	5.0		µg/L	1	8/25/2003
1,2-Dichloroethane	U	0.38	5.0		µg/L	1	8/25/2003
2-Butanone	7.4	0.70	10	J	µg/L	1	8/25/2003
2-Chloroethyl vinyl ether	U	0.63	10		µg/L	1	8/25/2003
2-Hexanone	U	1.1	10		µg/L	1	8/25/2003
4-Methyl-2-pentanone	U	0.64	10		µg/L	1	8/25/2003
Acetone	U	1.2	10		µg/L	1	8/25/2003
Benzene	2,800	16	120		µg/L	25	8/25/2003
Bromodichloromethane	U	0.45	5.0		µg/L	1	8/25/2003
Bromoform	U	0.40	5.0		µg/L	1	8/25/2003
Bromomethane	U	0.70	5.0		µg/L	1	8/25/2003
Carbon disulfide	U	0.76	10		µg/L	1	8/25/2003
Carbon tetrachloride	U	0.65	5.0		µg/L	1	8/25/2003
Chlorobenzene	U	0.43	5.0		µg/L	1	8/25/2003

Qualifiers:

U - Analyzed for but Not Detected

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

P - Dual Column results percent difference > 40%

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

H - Analyzed outside of Hold Time

CLIENT: Navajo Refining Company
 Work Order: 0308149
 Project: NCL/TEL
 Lab ID: 0308149-01

Client Sample ID: TEL-4
 Collection Date: 8/13/2003 10:00:00 AM
 Matrix: WATER

Analyses	Result	MDL	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chloroethane	U	0.56	5.0		µg/L	1	8/25/2003
Chloroform	U	0.52	5.0		µg/L	1	8/25/2003
Chloromethane	U	1.1	5.0		µg/L	1	8/25/2003
cis-1,3-Dichloropropene	U	0.47	5.0		µg/L	1	8/25/2003
Dibromochloromethane	U	0.53	5.0		µg/L	1	8/25/2003
Ethylbenzene	190	0.77	5.0		µg/L	1	8/25/2003
m,p-Xylene	340	1.3	10		µg/L	1	8/25/2003
Methylene chloride	U	0.60	10		µg/L	1	8/25/2003
Styrene	U	0.56	5.0		µg/L	1	8/25/2003
Tetrachloroethene	U	0.43	5.0		µg/L	1	8/25/2003
Toluene	49	0.69	5.0		µg/L	1	8/25/2003
trans-1,3-Dichloropropene	U	0.44	5.0		µg/L	1	8/25/2003
Trichloroethene	U	0.70	5.0		µg/L	1	8/25/2003
Vinyl acetate	U	0.92	10		µg/L	1	8/25/2003
Vinyl chloride	U	0.79	2.0		µg/L	1	8/25/2003
Xylenes, Total	340	1.8	15		µg/L	1	8/25/2003
Surr: 1,2-Dichloroethane-d4	91.7	0	70-130		%REC	1	8/25/2003
Surr: 1,2-Dichloroethane-d4	79.9	0	70-130		%REC	25	8/25/2003
Surr: 4-Bromofluorobenzene	99.1	0	70-130		%REC	1	8/25/2003
Surr: 4-Bromofluorobenzene	92.1	0	70-130		%REC	25	8/25/2003
Surr: Dibromofluoromethane	92.0	0	70-130		%REC	25	8/25/2003
Surr: Dibromofluoromethane	98.5	0	70-130		%REC	1	8/25/2003
Surr: Toluene-d8	99.7	0	70-130		%REC	1	8/25/2003
Surr: Toluene-d8	101	0	70-130		%REC	25	8/25/2003

ANIONS BY ION CHROMATOGRAPHY

E300

Prep Date:

Analyst: **MG**

Chloride	558	4.00	10.0		mg/L	20	8/22/2003
Fluoride	1.32	0.100	0.200		mg/L	2	8/20/2003
Sulfate	188	5.00	10.0		mg/L	10	8/22/2003
Nitrate/Nitrite (as N)	U	0.0880	0.200		mg/L	2	8/20/2003
Surr: Dichloroacetic acid (surr)	87.0	0	80-120		%REC	2	8/20/2003
Surr: Dichloroacetic acid (surr)	97.4	0	80-120		%REC	10	8/22/2003
Surr: Dichloroacetic acid (surr)	98.8	0	80-120		%REC	20	8/22/2003

ALKALINITY

E310.1

Prep Date:

Analyst: **LMD**

Alkalinity, Bicarbonate (As CaCO3)	990	2.0	5.00		mg/L	1	8/18/2003
Alkalinity, Carbonate (As CaCO3)	U	2.0	5.00		mg/L	1	8/18/2003
Alkalinity, Hydroxide (As CaCO3)	U	2.0	5.00		mg/L	1	8/18/2003
Alkalinity, Total (As CaCO3)	990	2.0	5.00		mg/L	1	8/18/2003

CYANIDE, TOTAL

E335.3

Prep Date:

Analyst: **LMD**

Cyanide	0.00490	0.0030	0.0200	J	mg/L	1	8/17/2003
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Qualifiers: U - Analyzed for but Not Detected

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

P - Dual Column results percent difference > 40%

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

H - Analyzed outside of Hold Time

CLIENT: Navajo Refining Company
 Work Order: 0308149
 Project: NCL/TEL
 Lab ID: 0308149-02

Client Sample ID: TEL-3
 Collection Date: 8/13/2003 10:20:00 AM
 Matrix: WATER

Analyses	Result	MDL	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL		SW7470		Prep Date: 8/19/2003		Analyst: MG	
Mercury	U	0.000042	0.000200		mg/L	1	8/20/2003
ICP METALS, TOTAL		SW6020		Prep Date: 8/15/2003		Analyst: ALR	
Aluminum	0.00619	0.0016	0.0100	J	mg/L	1	9/1/2003
Arsenic	0.00319	0.0018	0.00500	J	mg/L	1	9/1/2003
Barium	0.0141	0.00060	0.00500		mg/L	1	9/1/2003
Beryllium	U	0.00030	0.00200		mg/L	1	9/1/2003
Boron	0.832	0.055	0.100		mg/L	5	9/1/2003
Cadmium	U	0.00015	0.00100		mg/L	1	9/1/2003
Calcium	594	4.0	25.0		mg/L	50	8/30/2003
Chromium	U	0.00050	0.00200		mg/L	1	9/1/2003
Cobalt	0.000822	0.00010	0.00200	J	mg/L	1	9/1/2003
Copper	0.00598	0.00030	0.00200		mg/L	1	9/1/2003
Iron	2.28	0.025	0.200		mg/L	1	9/1/2003
Lead	0.000529	0.00020	0.00500	J	mg/L	1	9/1/2003
Magnesium	242	0.50	4.00		mg/L	20	8/30/2003
Manganese	0.00901	0.0010	0.00500		mg/L	1	9/1/2003
Nickel	0.0124	0.00030	0.00500		mg/L	1	9/1/2003
Potassium	2.65	0.020	0.200		mg/L	1	9/1/2003
Selenium	0.00611	0.0017	0.00500		mg/L	1	9/1/2003
Silver	U	0.00020	0.00500		mg/L	1	9/1/2003
Sodium	80.1	0.64	4.00		mg/L	20	8/30/2003
Vanadium	0.000800	0.00040	0.00500	J	mg/L	1	9/1/2003
Zinc	0.0139	0.0015	0.00500		mg/L	1	9/1/2003
SEMIVOLATILE ORGANICS BY GC/MS		SW8270		Prep Date: 8/18/2003		Analyst: JLJ	
1,2,4-Trichlorobenzene	U	0.83	10		µg/L	1	8/18/2003
2,4,5-Trichlorophenol	U	2.4	10		µg/L	1	8/18/2003
2,4,6-Trichlorophenol	U	2.7	10		µg/L	1	8/18/2003
2-Methylnaphthalene	U	0.86	10		µg/L	1	8/18/2003
2-Methylphenol	U	2.8	10		µg/L	1	8/18/2003
2-Nitroaniline	U	1.1	10		µg/L	1	8/18/2003
2-Nitrophenol	U	2.6	10		µg/L	1	8/18/2003
3-Nitroaniline	U	1.2	10		µg/L	1	8/18/2003
4-Methylphenol	U	4.6	10		µg/L	1	8/18/2003
4-Nitroaniline	U	0.95	10		µg/L	1	8/18/2003
4-Nitrophenol	U	2.7	10		µg/L	1	8/18/2003
Acenaphthene	2.4	1.1	10	J	µg/L	1	8/18/2003
Acenaphthylene	U	1.0	10		µg/L	1	8/18/2003
Aniline	U	10	10		µg/L	1	8/18/2003

Qualifiers: U - Analyzed for but Not Detected
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time

CLIENT: Navajo Refining Company
 Work Order: 0308149
 Project: NCL/TEL
 Lab ID: 0308149-02

Client Sample ID: TEL-3
 Collection Date: 8/13/2003 10:20:00 AM
 Matrix: WATER

Analyses	Result	MDL	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Anthracene	U	0.36	10		µg/L	1	8/18/2003
Benz(a)anthracene	U	0.77	10		µg/L	1	8/18/2003
Benzidine	U	0.34	10		µg/L	1	8/18/2003
Hexachloroethane	U	0.64	10		µg/L	1	8/18/2003
Indeno(1,2,3-cd)pyrene	U	0.77	10		µg/L	1	8/18/2003
Isophorone	U	1.2	10		µg/L	1	8/18/2003
N-Nitrosodi-n-propylamine	U	1.5	10		µg/L	1	8/18/2003
N-Nitrosodimethylamine	U	1.1	10		µg/L	1	8/18/2003
N-Nitrosodiphenylamine	U	1.3	10		µg/L	1	8/18/2003
Naphthalene	3.0	1.0	10	J	µg/L	1	8/18/2003
Nitrobenzene	U	1.7	10		µg/L	1	8/18/2003
Pentachlorophenol	U	1.5	10		µg/L	1	8/18/2003
Phenanthrene	9.5	1.2	10	J	µg/L	1	8/18/2003
Phenol	U	3.5	10		µg/L	1	8/18/2003
Pyrene	U	0.92	10		µg/L	1	8/18/2003
Surr:2,4,6-Tribromophenol	110	0	10-123		%REC	1	8/18/2003
Surr:2-Fluorobiphenyl	90.1	0	43-116		%REC	1	8/18/2003
Surr:2-Fluorophenol	35.2	0	21-100		%REC	1	8/18/2003
Surr:4-Terphenyl-d14	93.5	0	33-141		%REC	1	8/18/2003
Surr:Nitrobenzene-d5	93.1	0	35-114		%REC	1	8/18/2003
Surr: Phenol-d6	22.3	0	10-94		%REC	1	8/18/2003

VOLATILES BY GC/MS

SW8260

Prep Date:

Analyst: QLD

1,1,1-Trichloroethane	U	0.62	5.0		µg/L	1	8/25/2003
1,1,2,2-Tetrachloroethane	U	0.58	5.0		µg/L	1	8/25/2003
1,1,2-Trichloroethane	U	0.41	5.0		µg/L	1	8/25/2003
1,1-Dichloroethane	U	0.43	5.0		µg/L	1	8/25/2003
1,1-Dichloroethene	U	0.53	5.0		µg/L	1	8/25/2003
1,2-Dichloroethane	U	0.38	5.0		µg/L	1	8/25/2003
2-Butanone	U	0.70	10		µg/L	1	8/25/2003
2-Chloroethyl vinyl ether	U	0.63	10		µg/L	1	8/25/2003
2-Hexanone	U	1.1	10		µg/L	1	8/25/2003
4-Methyl-2-pentanone	U	0.64	10		µg/L	1	8/25/2003
Acetone	6.3	1.2	10	J	µg/L	1	8/25/2003
Benzene	110	0.66	5.0		µg/L	1	8/25/2003
Bromodichloromethane	U	0.45	5.0		µg/L	1	8/25/2003
Bromoform	U	0.40	5.0		µg/L	1	8/25/2003
Bromomethane	U	0.70	5.0		µg/L	1	8/25/2003
Carbon disulfide	1.8	0.76	10	J	µg/L	1	8/25/2003
Carbon tetrachloride	U	0.65	5.0		µg/L	1	8/25/2003
Chlorobenzene	U	0.43	5.0		µg/L	1	8/25/2003

Qualifiers: U - Analyzed for but Not Detected
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time

CLIENT: Navajo Refining Company
 Work Order: 0308149
 Project: NCL/TEL
 Lab ID: 0308149-02

Client Sample ID: TEL-3
 Collection Date: 8/13/2003 10:20:00 AM
 Matrix: WATER

Analyses	Result	MDL	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chloroethane	U	0.56	5.0		µg/L	1	8/25/2003
Chloroform	U	0.52	5.0		µg/L	1	8/25/2003
Chloromethane	U	1.1	5.0		µg/L	1	8/25/2003
cis-1,3-Dichloropropene	U	0.47	5.0		µg/L	1	8/25/2003
Dibromochloromethane	U	0.53	5.0		µg/L	1	8/25/2003
Ethylbenzene	8.4	0.77	5.0		µg/L	1	8/25/2003
m,p-Xylene	81	1.3	10		µg/L	1	8/25/2003
Methylene chloride	U	0.60	10		µg/L	1	8/25/2003
Styrene	U	0.56	5.0		µg/L	1	8/25/2003
Tetrachloroethene	U	0.43	5.0		µg/L	1	8/25/2003
Toluene	5.9	0.69	5.0		µg/L	1	8/25/2003
trans-1,3-Dichloropropene	U	0.44	5.0		µg/L	1	8/25/2003
Trichloroethene	U	0.70	5.0		µg/L	1	8/25/2003
Vinyl acetate	U	0.92	10		µg/L	1	8/25/2003
Vinyl chloride	U	0.79	2.0		µg/L	1	8/25/2003
Xylenes, Total	87	1.8	15		µg/L	1	8/25/2003
Surr: 1,2-Dichloroethane-d4	81.4	0	70-130		%REC	1	8/25/2003
Surr: 4-Bromofluorobenzene	94.1	0	70-130		%REC	1	8/25/2003
Surr: Dibromofluoromethane	94.2	0	70-130		%REC	1	8/25/2003
Surr: Toluene-d8	98.9	0	70-130		%REC	1	8/25/2003
ANIONS BY ION CHROMATOGRAPHY			E300			Prep Date:	Analyst: MG
Chloride	113	1.00	2.50		mg/L	5	8/22/2003
Fluoride	2.32	0.0500	0.100		mg/L	1	8/15/2003
Sulfate	1,900	50.0	100		mg/L	100	8/22/2003
Nitrate/Nitrite (as N)	U	0.0440	0.100		mg/L	1	8/15/2003
Surr: Dichloroacetic acid (surr)	94.6	0	80-120		%REC	1	8/15/2003
Surr: Dichloroacetic acid (surr)	99.2	0	80-120		%REC	5	8/22/2003
Surr: Dichloroacetic acid (surr)	108	0	80-120		%REC	100	8/22/2003
ALKALINITY			E310.1			Prep Date:	Analyst: LMD
Alkalinity, Bicarbonate (As CaCO3)	516	2.0	5.00		mg/L	1	8/18/2003
Alkalinity, Carbonate (As CaCO3)	U	2.0	5.00		mg/L	1	8/18/2003
Alkalinity, Hydroxide (As CaCO3)	U	2.0	5.00		mg/L	1	8/18/2003
Alkalinity, Total (As CaCO3)	516	2.0	5.00		mg/L	1	8/18/2003
CYANIDE, TOTAL			E335.3			Prep Date:	Analyst: LMD
Cyanide	U	0.0030	0.0200		mg/L	1	8/17/2003

Qualifiers: U - Analyzed for but Not Detected
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time

CLIENT: Navajo Refining Company
 Work Order: 0308149
 Project: NCL/TEL
 Lab ID: 0308149-03

Client Sample ID: TEL-2
 Collection Date: 8/13/2003 10:50:00 AM
 Matrix: WATER

Analyses	Result	MDL	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL		SW7470		Prep Date: 8/19/2003		Analyst: MG	
Mercury	U	0.000042	0.000200		mg/L	1	8/20/2003
ICP METALS, TOTAL		SW6020		Prep Date: 8/15/2003		Analyst: ALR	
Aluminum	0.00930	0.0016	0.0100	J	mg/L	1	9/1/2003
Arsenic	0.00863	0.0018	0.00500		mg/L	1	9/1/2003
Barium	0.111	0.00060	0.00500		mg/L	1	9/1/2003
Beryllium	U	0.00030	0.00200		mg/L	1	9/1/2003
Boron	0.881	0.055	0.100		mg/L	5	9/1/2003
Cadmium	U	0.00015	0.00100		mg/L	1	9/1/2003
Calcium	185	1.6	10.0		mg/L	20	8/30/2003
Chromium	0.00129	0.00050	0.00200	J	mg/L	1	9/1/2003
Cobalt	0.000378	0.00010	0.00200	J	mg/L	1	9/1/2003
Copper	0.00399	0.00030	0.00200		mg/L	1	9/1/2003
Iron	0.779	0.025	0.200		mg/L	1	9/1/2003
Lead	0.00144	0.00020	0.00500	J	mg/L	1	9/1/2003
Magnesium	181	0.50	4.00		mg/L	20	8/30/2003
Manganese	0.0299	0.0010	0.00500		mg/L	1	9/1/2003
Nickel	0.00556	0.00030	0.00500		mg/L	1	9/1/2003
Potassium	0.941	0.020	0.200		mg/L	1	9/1/2003
Selenium	0.00214	0.0017	0.00500	J	mg/L	1	9/1/2003
Silver	U	0.00020	0.00500		mg/L	1	9/1/2003
Sodium	461	1.6	10.0		mg/L	50	8/30/2003
Vanadium	0.000560	0.00040	0.00500	J	mg/L	1	9/1/2003
Zinc	0.0110	0.0015	0.00500		mg/L	1	9/1/2003
SEMIVOLATILE ORGANICS BY GC/MS		SW8270		Prep Date: 8/18/2003		Analyst: JLJ	
1,2,4-Trichlorobenzene	U	0.83	10		µg/L	1	8/18/2003
2,4,5-Trichlorophenol	U	2.4	10		µg/L	1	8/18/2003
2,4,6-Trichlorophenol	U	2.7	10		µg/L	1	8/18/2003
2-Methylnaphthalene	U	0.86	10		µg/L	1	8/18/2003
2-Methylphenol	U	2.8	10		µg/L	1	8/18/2003
2-Nitroaniline	U	1.1	10		µg/L	1	8/18/2003
2-Nitrophenol	U	2.6	10		µg/L	1	8/18/2003
3-Nitroaniline	U	1.2	10		µg/L	1	8/18/2003
4-Methylphenol	U	4.6	10		µg/L	1	8/18/2003
4-Nitroaniline	U	0.95	10		µg/L	1	8/18/2003
4-Nitrophenol	U	2.7	10		µg/L	1	8/18/2003
Acenaphthene	2.1	1.1	10	J	µg/L	1	8/18/2003
Acenaphthylene	U	1.0	10		µg/L	1	8/18/2003
Aniline	U	10	10		µg/L	1	8/18/2003

Qualifiers: U - Analyzed for but Not Detected
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: September 02, 2003

CLIENT: Navajo Refining Company
Work Order: 0308149
Project: NCL/TEL
Lab ID: 0308149-03

Client Sample ID: TEL-2
Collection Date: 8/13/2003 10:50:00 AM
Matrix: WATER

Analyses	Result	MDL	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Anthracene	1.6	0.36	10	J	µg/L	1	8/18/2003
Benz(a)anthracene	U	0.77	10		µg/L	1	8/18/2003
Benzidine	U	0.34	10		µg/L	1	8/18/2003
Hexachloroethane	U	0.64	10		µg/L	1	8/18/2003
Indeno(1,2,3-cd)pyrene	U	0.77	10		µg/L	1	8/18/2003
Isophorone	U	1.2	10		µg/L	1	8/18/2003
N-Nitrosodi-n-propylamine	U	1.5	10		µg/L	1	8/18/2003
N-Nitrosodimethylamine	U	1.1	10		µg/L	1	8/18/2003
N-Nitrosodiphenylamine	U	1.3	10		µg/L	1	8/18/2003
Naphthalene	16	1.0	10		µg/L	1	8/18/2003
Nitrobenzene	U	1.7	10		µg/L	1	8/18/2003
Pentachlorophenol	U	1.5	10		µg/L	1	8/18/2003
Phenanthrene	6.8	1.2	10	J	µg/L	1	8/18/2003
Phenol	U	3.5	10		µg/L	1	8/18/2003
Pyrene	U	0.92	10		µg/L	1	8/18/2003
Surr:2,4,6-Tribromophenol	112	0	10-123		%REC	1	8/18/2003
Surr:2-Fluorobiphenyl	94.6	0	43-116		%REC	1	8/18/2003
Surr:2-Fluorophenol	37.4	0	21-100		%REC	1	8/18/2003
Surr:4-Terphenyl-d14	102	0	33-141		%REC	1	8/18/2003
Surr:Nitrobenzene-d5	99.4	0	35-114		%REC	1	8/18/2003
Surr: Phenol-d6	23.7	0	10-94		%REC	1	8/18/2003

VOLATILES BY GC/MS

SW8260

Prep Date:

Analyst: QLD

1,1,1-Trichloroethane	U	0.62	5.0		µg/L	1	8/25/2003
1,1,2,2-Tetrachloroethane	U	0.58	5.0		µg/L	1	8/25/2003
1,1,2-Trichloroethane	U	0.41	5.0		µg/L	1	8/25/2003
1,1-Dichloroethane	U	0.43	5.0		µg/L	1	8/25/2003
1,1-Dichloroethene	U	0.53	5.0		µg/L	1	8/25/2003
1,2-Dichloroethane	U	0.38	5.0		µg/L	1	8/25/2003
2-Butanone	U	0.70	10		µg/L	1	8/25/2003
2-Chloroethyl vinyl ether	U	0.63	10		µg/L	1	8/25/2003
2-Hexanone	U	1.1	10		µg/L	1	8/25/2003
4-Methyl-2-pentanone	U	0.64	10		µg/L	1	8/25/2003
Acetone	U	1.2	10		µg/L	1	8/25/2003
Benzene	1,100	6.6	50		µg/L	10	8/26/2003
Bromodichloromethane	U	0.45	5.0		µg/L	1	8/25/2003
Bromoform	U	0.40	5.0		µg/L	1	8/25/2003
Bromomethane	U	0.70	5.0		µg/L	1	8/25/2003
Carbon disulfide	1.2	0.76	10	J	µg/L	1	8/25/2003
Carbon tetrachloride	U	0.65	5.0		µg/L	1	8/25/2003
Chlorobenzene	U	0.43	5.0		µg/L	1	8/25/2003

Qualifiers: U - Analyzed for but Not Detected
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time

CLIENT: Navajo Refining Company Client Sample ID: TEL-2
 Work Order: 0308149 Collection Date: 8/13/2003 10:50:00 AM
 Project: NCL/TEL
 Lab ID: 0308149-03 Matrix: WATER

Analyses	Result	MDL	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chloroethane	U	0.56	5.0		µg/L	1	8/25/2003
Chloroform	U	0.52	5.0		µg/L	1	8/25/2003
Chloromethane	U	1.1	5.0		µg/L	1	8/25/2003
cis-1,3-Dichloropropene	U	0.47	5.0		µg/L	1	8/25/2003
Dibromochloromethane	U	0.53	5.0		µg/L	1	8/25/2003
Ethylbenzene	29	0.77	5.0		µg/L	1	8/25/2003
m,p-Xylene	180	1.3	10		µg/L	1	8/25/2003
Methylene chloride	U	0.60	10		µg/L	1	8/25/2003
Styrene	U	0.56	5.0		µg/L	1	8/25/2003
Tetrachloroethene	U	0.43	5.0		µg/L	1	8/25/2003
Toluene	61	0.69	5.0		µg/L	1	8/25/2003
trans-1,3-Dichloropropene	U	0.44	5.0		µg/L	1	8/25/2003
Trichloroethene	U	0.70	5.0		µg/L	1	8/25/2003
Vinyl acetate	U	0.92	10		µg/L	1	8/25/2003
Vinyl chloride	U	0.79	2.0		µg/L	1	8/25/2003
Xylenes, Total	200	1.8	15		µg/L	1	8/25/2003
Surr: 1,2-Dichloroethane-d4	78.8	0	70-130		%REC	1	8/25/2003
Surr: 1,2-Dichloroethane-d4	93.0	0	70-130		%REC	10	8/26/2003
Surr: 4-Bromofluorobenzene	93.5	0	70-130		%REC	1	8/25/2003
Surr: 4-Bromofluorobenzene	94.2	0	70-130		%REC	10	8/26/2003
Surr: Dibromofluoromethane	99.3	0	70-130		%REC	10	8/26/2003
Surr: Dibromofluoromethane	92.7	0	70-130		%REC	1	8/25/2003
Surr: Toluene-d8	101	0	70-130		%REC	1	8/25/2003
Surr: Toluene-d8	100	0	70-130		%REC	10	8/26/2003

ANIONS BY ION CHROMATOGRAPHY

E300

Prep Date:

Analyst: **MG**

Chloride	212	2.00	5.00		mg/L	10	8/22/2003
Fluoride	1.46	0.0500	0.100		mg/L	1	8/15/2003
Sulfate	802	25.0	50.0		mg/L	50	8/22/2003
Nitrate/Nitrite (as N)	U	0.0440	0.100		mg/L	1	8/15/2003
Surr: Dichloroacetic acid (surr)	116	0	80-120		%REC	1	8/15/2003
Surr: Dichloroacetic acid (surr)	102	0	80-120		%REC	10	8/22/2003
Surr: Dichloroacetic acid (surr)	106	0	80-120		%REC	50	8/22/2003

ALKALINITY

E310.1

Prep Date:

Analyst: **LMD**

Alkalinity, Bicarbonate (As CaCO3)	773	2.0	5.00		mg/L	1	8/18/2003
Alkalinity, Carbonate (As CaCO3)	U	2.0	5.00		mg/L	1	8/18/2003
Alkalinity, Hydroxide (As CaCO3)	U	2.0	5.00		mg/L	1	8/18/2003
Alkalinity, Total (As CaCO3)	773	2.0	5.00		mg/L	1	8/18/2003

CYANIDE, TOTAL

E335.3

Prep Date:

Analyst: **LMD**

Cyanide	U	0.0030	0.0200		mg/L	1	8/17/2003
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Qualifiers: U - Analyzed for but Not Detected
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time

CLIENT: Navajo Refining Company
 Work Order: 0308149
 Project: NCL/TEL
 Lab ID: 0308149-04

Client Sample ID: TEL-1
 Collection Date: 8/13/2003 2:00:00 PM
 Matrix: WATER

Analyses	Result	MDL	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL		SW7470			Prep Date: 8/19/2003		Analyst: MG
Mercury	U	0.000042	0.000200		mg/L	1	8/20/2003
ICP METALS, TOTAL		SW6020			Prep Date: 8/15/2003		Analyst: ALR
Aluminum	0.00373	0.0016	0.0100	J	mg/L	1	9/1/2003
Arsenic	0.00356	0.0018	0.00500	J	mg/L	1	9/1/2003
Barium	0.0134	0.00060	0.00500		mg/L	1	9/1/2003
Beryllium	U	0.00030	0.00200		mg/L	1	9/1/2003
Boron	0.795	0.055	0.100		mg/L	5	9/1/2003
Cadmium	U	0.00015	0.00100		mg/L	1	9/1/2003
Calcium	256	1.6	10.0		mg/L	20	8/30/2003
Chromium	U	0.00050	0.00200		mg/L	1	9/1/2003
Cobalt	0.000424	0.00010	0.00200	J	mg/L	1	9/1/2003
Copper	0.00327	0.00030	0.00200		mg/L	1	9/1/2003
Iron	1.16	0.025	0.200		mg/L	1	9/1/2003
Lead	U	0.00020	0.00500		mg/L	1	9/1/2003
Magnesium	139	0.50	4.00		mg/L	20	8/30/2003
Manganese	0.0796	0.0010	0.00500		mg/L	1	9/1/2003
Nickel	0.00620	0.00030	0.00500		mg/L	1	9/1/2003
Potassium	0.534	0.020	0.200		mg/L	1	9/1/2003
Selenium	U	0.0017	0.00500		mg/L	1	9/1/2003
Silver	U	0.00020	0.00500		mg/L	1	9/1/2003
Sodium	621	1.6	10.0		mg/L	50	8/30/2003
Vanadium	U	0.00040	0.00500		mg/L	1	9/1/2003
Zinc	0.00795	0.0015	0.00500		mg/L	1	9/1/2003
SEMIVOLATILE ORGANICS BY GC/MS		SW8270			Prep Date: 8/18/2003		Analyst: JLV
1,2,4-Trichlorobenzene	U	0.83	10		µg/L	1	8/18/2003
2,4,5-Trichlorophenol	U	2.4	10		µg/L	1	8/18/2003
2,4,6-Trichlorophenol	U	2.7	10		µg/L	1	8/18/2003
2-Methylnaphthalene	U	0.86	10		µg/L	1	8/18/2003
2-Methylphenol	U	2.8	10		µg/L	1	8/18/2003
2-Nitroaniline	U	1.1	10		µg/L	1	8/18/2003
2-Nitrophenol	U	2.6	10		µg/L	1	8/18/2003
3-Nitroaniline	U	1.2	10		µg/L	1	8/18/2003
4-Methylphenol	U	4.6	10		µg/L	1	8/18/2003
4-Nitroaniline	U	0.95	10		µg/L	1	8/18/2003
4-Nitrophenol	U	2.7	10		µg/L	1	8/18/2003
Acenaphthene	3.6	1.1	10	J	µg/L	1	8/18/2003
Acenaphthylene	U	1.0	10		µg/L	1	8/18/2003
Aniline	U	10	10		µg/L	1	8/18/2003

Qualifiers: U - Analyzed for but Not Detected
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level
 S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time

CLIENT: Navajo Refining Company
Work Order: 0308149
Project: NCL/TEL
Lab ID: 0308149-04

Client Sample ID: TEL-1
Collection Date: 8/13/2003 2:00:00 PM
Matrix: WATER

Analyses	Result	MDL	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Anthracene	U	0.36	10		µg/L	1	8/18/2003
Benz(a)anthracene	U	0.77	10		µg/L	1	8/18/2003
Benzidine	U	0.34	10		µg/L	1	8/18/2003
Hexachloroethane	U	0.64	10		µg/L	1	8/18/2003
Indeno(1,2,3-cd)pyrene	U	0.77	10		µg/L	1	8/18/2003
Isophorone	U	1.2	10		µg/L	1	8/18/2003
N-Nitrosodi-n-propylamine	U	1.5	10		µg/L	1	8/18/2003
N-Nitrosodimethylamine	U	1.1	10		µg/L	1	8/18/2003
N-Nitrosodiphenylamine	U	1.3	10		µg/L	1	8/18/2003
Naphthalene	U	1.0	10		µg/L	1	8/18/2003
Nitrobenzene	U	1.7	10		µg/L	1	8/18/2003
Pentachlorophenol	U	1.5	10		µg/L	1	8/18/2003
Phenanthrene	2.0	1.2	10	J	µg/L	1	8/18/2003
Phenol	U	3.5	10		µg/L	1	8/18/2003
Pyrene	1.1	0.92	10	J	µg/L	1	8/18/2003
Surr:2,4,6-Tribromophenol	112	0	10-123		%REC	1	8/18/2003
Surr:2-Fluorobiphenyl	94.4	0	43-116		%REC	1	8/18/2003
Surr:2-Fluorophenol	37.1	0	21-100		%REC	1	8/18/2003
Surr:4-Terphenyl-d14	99.6	0	33-141		%REC	1	8/18/2003
Surr:Nitrobenzene-d5	94.1	0	35-114		%REC	1	8/18/2003
Surr: Phenol-d6	22.1	0	10-94		%REC	1	8/18/2003
VOLATILES BY GC/MS							
SW8260							
1,1,1-Trichloroethane	U	0.62	5.0		µg/L	1	8/25/2003
1,1,2,2-Tetrachloroethane	U	0.58	5.0		µg/L	1	8/25/2003
1,1,2-Trichloroethane	U	0.41	5.0		µg/L	1	8/25/2003
1,1-Dichloroethane	U	0.43	5.0		µg/L	1	8/25/2003
1,1-Dichloroethene	U	0.53	5.0		µg/L	1	8/25/2003
1,2-Dichloroethane	U	0.38	5.0		µg/L	1	8/25/2003
2-Butanone	U	0.70	10		µg/L	1	8/25/2003
2-Chloroethyl vinyl ether	U	0.63	10		µg/L	1	8/25/2003
2-Hexanone	U	1.1	10		µg/L	1	8/25/2003
4-Methyl-2-pentanone	U	0.64	10		µg/L	1	8/25/2003
Acetone	U	1.2	10		µg/L	1	8/25/2003
Benzene	9.1	0.66	5.0		µg/L	1	8/25/2003
Bromodichloromethane	U	0.45	5.0		µg/L	1	8/25/2003
Bromoform	U	0.40	5.0		µg/L	1	8/25/2003
Bromomethane	U	0.70	5.0		µg/L	1	8/25/2003
Carbon disulfide	U	0.76	10		µg/L	1	8/25/2003
Carbon tetrachloride	U	0.65	5.0		µg/L	1	8/25/2003
Chlorobenzene	U	0.43	5.0		µg/L	1	8/25/2003

Prep Date: Analyst: QLD

Qualifiers: U - Analyzed for but Not Detected
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: September 02, 2003

CLIENT: Navajo Refining Company
Work Order: 0308149
Project: NCL/TEL
Lab ID: 0308149-04

Client Sample ID: TEL-1
Collection Date: 8/13/2003 2:00:00 PM
Matrix: WATER

Analyses	Result	MDL	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chloroethane	U	0.56	5.0		µg/L	1	8/25/2003
Chloroform	U	0.52	5.0		µg/L	1	8/25/2003
Chloromethane	U	1.1	5.0		µg/L	1	8/25/2003
cis-1,3-Dichloropropene	U	0.47	5.0		µg/L	1	8/25/2003
Dibromochloromethane	U	0.53	5.0		µg/L	1	8/25/2003
Ethylbenzene	3.5	0.77	5.0	J	µg/L	1	8/25/2003
m,p-Xylene	5.3	1.3	10	J	µg/L	1	8/25/2003
Methylene chloride	U	0.60	10		µg/L	1	8/25/2003
Styrene	U	0.56	5.0		µg/L	1	8/25/2003
Tetrachloroethene	U	0.43	5.0		µg/L	1	8/25/2003
Toluene	2.7	0.69	5.0	J	µg/L	1	8/25/2003
trans-1,3-Dichloropropene	U	0.44	5.0		µg/L	1	8/25/2003
Trichloroethene	U	0.70	5.0		µg/L	1	8/25/2003
Vinyl acetate	U	0.92	10		µg/L	1	8/25/2003
Vinyl chloride	U	0.79	2.0		µg/L	1	8/25/2003
Xylenes, Total	12	1.8	15	J	µg/L	1	8/25/2003
Surr: 1,2-Dichloroethane-d4	75.5	0	70-130		%REC	1	8/25/2003
Surr: 4-Bromofluorobenzene	92.4	0	70-130		%REC	1	8/25/2003
Surr: Dibromofluoromethane	88.9	0	70-130		%REC	1	8/25/2003
Surr: Toluene-d8	99.2	0	70-130		%REC	1	8/25/2003

ANIONS BY ION CHROMATOGRAPHY

E300

Prep Date:

Analyst: **MG**

Chloride	189	2.00	5.00		mg/L	10	8/22/2003
Fluoride	2.21	0.0500	0.100		mg/L	1	8/15/2003
Sulfate	1,780	50.0	100		mg/L	100	8/22/2003
Nitrate/Nitrite (as N)	U	0.0440	0.100		mg/L	1	8/15/2003
Surr: Dichloroacetic acid (surr)	81.4	0	80-120		%REC	1	8/15/2003
Surr: Dichloroacetic acid (surr)	103	0	80-120		%REC	10	8/22/2003
Surr: Dichloroacetic acid (surr)	104	0	80-120		%REC	100	8/22/2003

ALKALINITY

E310.1

Prep Date:

Analyst: **LMD**

Alkalinity, Bicarbonate (As CaCO3)	443	2.0	5.00		mg/L	1	8/18/2003
Alkalinity, Carbonate (As CaCO3)	U	2.0	5.00		mg/L	1	8/18/2003
Alkalinity, Hydroxide (As CaCO3)	U	2.0	5.00		mg/L	1	8/18/2003
Alkalinity, Total (As CaCO3)	443	2.0	5.00		mg/L	1	8/18/2003

CYANIDE, TOTAL

E335.3

Prep Date:

Analyst: **LMD**

Cyanide	0.00360	0.0030	0.0200	J	mg/L	1	8/17/2003
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Qualifiers:

U - Analyzed for but Not Detected

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

P - Dual Column results percent difference > 40%

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: Sep 17 2003

CLIENT: Navajo Refining Company
Work Order: 0308149
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 6419 InstrumentID: 6020

MBLK Sample ID: MBLKW2-081503 Test Code: SW6020 Units: mg/L Analysis Date: 08/20/03 18:27
Client ID: Run ID: 6020_030820A SeqNo: 358444 Prep Date: 8/15/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.002951	0.010								J
Arsenic	U	0.0050								
Barium	U	0.0050								
Beryllium	U	0.0020								
Boron	U	0.020								
Cadmium	U	0.0010								
Calcium	U	0.50								
Chromium	U	0.0020								
Cobalt	U	0.0020								
Copper	0.0003183	0.0020								J
Iron	U	0.20								
Lead	U	0.0050								
Magnesium	U	0.20								
Manganese	U	0.0050								
Nickel	U	0.0050								
Potassium	U	0.20								
Selenium	U	0.0050								
Silver	U	0.0050								
Sodium	U	0.20								
Vanadium	U	0.0050								
Zinc	U	0.0050								

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0308149
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: 6419 InstrumentID: 6020

LCS Sample ID: MLCSW2-081503 Test Code: SW6020 Units: mg/L Analysis Date: 08/20/03 18:32
 Client ID: Run ID: 6020_030820A SeqNo: 358445 Prep Date: 8/15/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1067	0.010	0.1	0	107	80-120	0			
Arsenic	0.0978	0.0050	0.1	0	97.8	80-120	0			
Barium	0.09856	0.0050	0.1	0	98.6	80-120	0			
Beryllium	0.104	0.0020	0.1	0	104	80-120	0			
Boron	0.5016	0.020	0.5	0	100	80-120	0			
Cadmium	0.09815	0.0010	0.1	0	98.1	80-120	0			
Calcium	10.23	0.50	10	0	102	80-120	0			
Chromium	0.1013	0.0020	0.1	0	101	80-120	0			
Cobalt	0.1017	0.0020	0.1	0	102	80-120	0			
Copper	0.1046	0.0020	0.1	0	105	80-120	0			
Iron	10.06	0.20	10	0	101	80-120	0			
Lead	0.09888	0.0050	0.1	0	98.9	80-120	0			
Magnesium	10.29	0.20	10	0	103	80-120	0			
Manganese	0.0999	0.0050	0.1	0	99.9	80-120	0			
Nickel	0.1025	0.0050	0.1	0	102	80-120	0			
Potassium	10.16	0.20	10	0	102	80-120	0			
Selenium	0.1031	0.0050	0.1	0	103	80-120	0			
Silver	0.09997	0.0050	0.1	0	100	80-120	0			
Sodium	10.15	0.20	10	0	102	80-120	0			
Vanadium	0.0995	0.0050	0.1	0	99.5	80-120	0			
Zinc	0.1045	0.0050	0.1	0	104	80-120	0			

MS Sample ID: 0308149-01CMS Test Code: SW6020 Units: mg/L Analysis Date: 08/23/03 4:35
 Client ID: TEL-4 Run ID: 6020_030822A SeqNo: 359734 Prep Date: 8/15/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.1069	0.0050	0.1	0.01422	92.7	75-125	0			
Beryllium	0.1085	0.0020	0.1	0.00008929	108	75-125	0			
Boron	1.144	0.020	0.5	0.6511	98.6	75-125	0			E
Calcium	171	0.50	10	173.1	-21	75-125	0			SEO
Chromium	0.1014	0.0020	0.1	0.009903	91.5	75-125	0			
Cobalt	0.09181	0.0020	0.1	0.0007125	91.1	75-125	0			
Copper	0.09328	0.0020	0.1	0.005625	87.7	75-125	0			
Iron	10.73	0.20	10	1.848	88.8	75-125	0			
Magnesium	182.8	0.20	10	192.9	-101	75-125	0			SEO
Manganese	0.3332	0.0050	0.1	0.2645	68.7	75-125	0			S
Nickel	0.0998	0.0050	0.1	0.01442	85.4	75-125	0			
Potassium	10.64	0.20	10	0.4924	101	75-125	0			
Selenium	0.03309	0.0050	0.1	0.02473	8.36	75-125	0			S
Sodium	U	0.20	10	0	0	75-125	0			S
Zinc	0.09308	0.0050	0.1	0.01265	80.4	75-125	0			

ND - Not Detected at the Reporting Limit
 Analyte detected below quantitation limits
 O - Referenced analyte value is > 4 times amount spiked
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 B - Analyte detected in assoc. Method Blank
 U - Analyzed for but not detected
 E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0308149
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: 6419 InstrumentID: 6020

MS Sample ID: 0308149-01CMS Test Code: SW6020 Units: mg/L Analysis Date: 09/01/03 14:23
 Client ID: TEL-4 Run ID: 6020_030901A SeqNo: 362867 Prep Date: 8/15/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1037	0.010	0.1	0.01289	90.8	75-125	0			
Barium	0.4446	0.0050	0.1	0.3397	105	75-125	0			
Boron	1.164	0.020	0.5	0.6439	104	75-125	0			E
Cadmium	0.08557	0.0010	0.1	0.00008483	85.5	75-125	0			
Lead	0.108	0.0050	0.1	0.003172	105	75-125	0			
Silver	0.08576	0.0050	0.1	0.00003266	85.7	75-125	0			
Vanadium	0.1044	0.0050	0.1	0.0003817	104	75-125	0			

MSD Sample ID: 0308149-01CMSD Test Code: SW6020 Units: mg/L Analysis Date: 08/23/03 4:40
 Client ID: TEL-4 Run ID: 6020_030822A SeqNo: 359735 Prep Date: 8/15/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.1076	0.0050	0.1	0.01422	93.4	75-125	0.1069	0.653	25	
Beryllium	0.09884	0.0020	0.1	0.00008929	98.8	75-125	0.1085	9.32	25	
Boron	1.038	0.020	0.5	0.6511	77.4	75-125	1.144	9.72	25	E
Calcium	168.3	0.50	10	173.1	-48	75-125	171	1.59	25	SEO
Chromium	0.1042	0.0020	0.1	0.009903	94.3	75-125	0.1014	2.72	25	
Cobalt	0.09166	0.0020	0.1	0.0007125	90.9	75-125	0.09181	0.164	25	
Copper	0.09308	0.0020	0.1	0.005625	87.5	75-125	0.09328	0.215	25	
Iron	10.65	0.20	10	1.848	88	75-125	10.73	0.748	25	
Magnesium	179.2	0.20	10	192.9	-137	75-125	182.8	1.99	25	SEO
Manganese	0.3327	0.0050	0.1	0.2645	68.2	75-125	0.3332	0.15	25	S
Nickel	0.0996	0.0050	0.1	0.01442	85.2	75-125	0.0998	0.201	25	
Potassium	10.37	0.20	10	0.4924	98.8	75-125	10.64	2.57	25	
Selenium	0.02846	0.0050	0.1	0.02473	3.73	75-125	0.03309	15	25	S
Sodium	U	0.20	10	0	0	75-125	0	0	25	S
Zinc	0.09493	0.0050	0.1	0.01265	82.3	75-125	0.09308	1.97	25	

MSD Sample ID: 0308149-01CMSD Test Code: SW6020 Units: mg/L Analysis Date: 09/01/03 14:28
 Client ID: TEL-4 Run ID: 6020_030901A SeqNo: 362868 Prep Date: 8/15/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.103	0.010	0.1	0.01289	90.1	75-125	0.1037	0.677	25	
Barium	0.444	0.0050	0.1	0.3397	104	75-125	0.4446	0.135	25	
Boron	1.177	0.020	0.5	0.6439	107	75-125	1.164	1.11	25	E
Cadmium	0.084	0.0010	0.1	0.00008483	83.9	75-125	0.08557	1.85	25	
Lead	0.108	0.0050	0.1	0.003172	105	75-125	0.108	0	25	
Silver	0.08448	0.0050	0.1	0.00003266	84.4	75-125	0.08576	1.5	25	
Vanadium	0.1054	0.0050	0.1	0.0003817	105	75-125	0.1044	0.953	25	

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0308149
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: 6419 InstrumentID: 6020

DUP Sample ID: 0308149-01CDUP Test Code: SW6020 Units: mg/L Analysis Date: 08/23/03 4:30
 Client ID: TEL-4 Run ID: 6020_030822A SeqNo: 359733 Prep Date: 8/15/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.01324	0.0050	0	0	0	0-0	0.01422	7.14	25	
Beryllium	U	0.0020	0	0	0	0-0	0.00008929	0	25	
Chromium	0.009621	0.0020	0	0	0	0-0	0.009903	2.89	25	
Cobalt	0.0006431	0.0020	0	0	0	0-0	0.0007125	0	25	J
Copper	0.00525	0.0020	0	0	0	0-0	0.005625	6.9	25	
Iron	1.958	0.20	0	0	0	0-0	1.848	5.78	25	
Manganese	0.2637	0.0050	0	0	0	0-0	0.2645	0.303	25	
Nickel	0.01546	0.0050	0	0	0	0-0	0.01442	6.96	25	
Potassium	0.5096	0.20	0	0	0	0-0	0.4924	3.43	25	
Selenium	0.02256	0.0050	0	0	0	0-0	0.02473	9.18	25	
Zinc	0.01307	0.0050	0	0	0	0-0	0.01265	3.27	25	

DUP Sample ID: 0308149-01CDUP Test Code: SW6020 Units: mg/L Analysis Date: 08/30/03 22:00
 Client ID: TEL-4 Run ID: 6020_030830A SeqNo: 362773 Prep Date: 8/15/2003 DF: 20

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	188.9	10	0	0	0	0-0	175.3	7.47	25	
Magnesium	214.2	4.0	0	0	0	0-0	202.6	5.57	25	
Sodium	365.9	4.0	0	0	0	0-0	345.6	5.71	25	

DUP Sample ID: 0308149-01CDUP Test Code: SW6020 Units: mg/L Analysis Date: 09/01/03 13:44
 Client ID: TEL-4 Run ID: 6020_030901A SeqNo: 362838 Prep Date: 8/15/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.009651	0.010	0	0	0	0-0	0.01289	0	25	J
Cadmium	U	0.0010	0	0	0	0-0	0.00008483	0	25	
Lead	0.003249	0.0050	0	0	0	0-0	0.003172	0	25	J
Silver	U	0.0050	0	0	0	0-0	0.00003266	0	25	
Vanadium	U	0.0050	0	0	0	0-0	0.0003817	0	25	

DUP Sample ID: 0308149-01CDUP Test Code: SW6020 Units: mg/L Analysis Date: 09/01/03 14:01
 Client ID: TEL-4 Run ID: 6020_030901A SeqNo: 362842 Prep Date: 8/15/2003 DF: 2

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Barium	0.3317	0.010	0	0	0	0-0	0.3268	1.49	25	

ND - Not Detected at the Reporting Limit
 - Analyte detected below quantitation limits
 O - Referenced analyte value is > 4 times amount spiked
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 B - Analyte detected in assoc. Method Blank
 U - Analyzed for but not detected
 E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0308149
Project: NCL/TEL

QC BATCH REPORT

Batch ID: **6419** InstrumentID: **6020**

DUP	Sample ID: 0308149-01CDUP	Test Code: SW6020	Units: mg/L	Analysis Date: 09/01/03 14:10
Client ID: TEL-4	Run ID: 6020_030901A	SeqNo: 362844	Prep Date: 8/15/2003	DF: 5

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Boron	0.6983	0.10	0	0	0	0-0	0.714	2.22	25	

The following samples were analyzed in this batch:

0308149-01C	0308149-02C	0308149-03C
0308149-04C		

ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits	B - Analyte detected in assoc. Method Blank
- Analyte detected below quantitation limits	R - RPD outside accepted recovery limits	U - Analyzed for but not detected
O - Referenced analyte value is > 4 times amount spiked	P - Dual Column results percent difference > 40%	E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0308149
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: 6438 InstrumentID: Mercury

MBLK Sample ID: GBLKW1-081903 Test Code: SW7470 Units: mg/L Analysis Date: 08/20/03 16:17
 Client ID: Run ID: MERCURY_030820B SeqNo: 358376 Prep Date: 8/19/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U	0.00020								

LCS Sample ID: GLCSW1-081903 Test Code: SW7470 Units: mg/L Analysis Date: 08/20/03 16:18
 Client ID: Run ID: MERCURY_030820B SeqNo: 358377 Prep Date: 8/19/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00476	0.00020	0.005	0	95.2	80-120	0			

LCS Sample ID: GLCSW2-081903 Test Code: SW7470 Units: mg/L Analysis Date: 08/20/03 16:20
 Client ID: Run ID: MERCURY_030820B SeqNo: 358378 Prep Date: 8/19/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00489	0.00020	0.005	0	97.8	80-120	0			

MS Sample ID: 0308149-02CMS Test Code: SW7470 Units: mg/L Analysis Date: 08/20/03 16:43
 Client ID: TEL-3 Run ID: MERCURY_030820B SeqNo: 358382 Prep Date: 8/19/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00471	0.00020	0.005	0.000013	93.9	80-120	0			

MSD Sample ID: 0308149-02CMSD Test Code: SW7470 Units: mg/L Analysis Date: 08/20/03 16:47
 Client ID: TEL-3 Run ID: MERCURY_030820B SeqNo: 358385 Prep Date: 8/19/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00456	0.00020	0.005	0.000013	90.9	80-120	0.00471	3.24	20	

DUP Sample ID: 0308149-02CDUP Test Code: SW7470 Units: mg/L Analysis Date: 08/20/03 16:41
 Client ID: TEL-3 Run ID: MERCURY_030820B SeqNo: 358381 Prep Date: 8/19/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U	0.00020	0	0	0	0-0	0.000013	0	20	

The following samples were analyzed in this batch:

0308149-01C	0308149-02C	0308149-03C
0308149-04C		

ND - Not Detected at the Reporting Limit
 Analyte detected below quantitation limits
 O - Referenced analyte value is > 4 times amount spiked
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 B - Analyte detected in assoc. Method Blank
 U - Analyzed for but not detected
 E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0308149
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: 6427 InstrumentID: SV-2

MBLK Sample ID: SBLKW1-030818 Test Code: SW8270 Units: µg/L Analysis Date: 08/19/03 18:36
 Client ID: Run ID: SV-2_030818A SeqNo: 358232 Prep Date: 8/18/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	U	10								
2,4,5-Trichlorophenol	U	10								
2,4,6-Trichlorophenol	U	10								
2-Methylnaphthalene	U	10								
2-Methylphenol	U	10								
2-Nitroaniline	U	10								
2-Nitrophenol	U	10								
3-Nitroaniline	U	10								
4-Methylphenol	U	10								
4-Nitroaniline	U	10								
4-Nitrophenol	U	10								
Acenaphthene	U	10								
Acenaphthylene	U	10								
Aniline	U	10								
Anthracene	U	10								
Benz(a)anthracene	U	10								
Benzidine	U	10								
Hexachloroethane	U	10								
Indeno(1,2,3-cd)pyrene	U	10								
Isophorone	U	10								
N-Nitrosodi-n-propylamine	U	10								
N-Nitrosodimethylamine	U	10								
N-Nitrosodiphenylamine	U	10								
Naphthalene	U	10								
Nitrobenzene	U	10								
Pentachlorophenol	U	10								
Phenanthrene	U	10								
Phenol	U	10								
Pyrene	U	10								
1,4-Dichlorobenzene-d4	40	0								
Acenaphthene-d10	40	0								
Chrysene-d12	40	0								
Naphthalene-d8	40	0								
Perylene-d12	40	0								
Phenanthrene-d10	40	0								
Surr: 2,4,6-Tribromophenol	83.24	0	100	0	83.2	10-123		0		
Surr: 2-Fluorobiphenyl	85.21	0	100	0	85.2	43-116		0		
Surr: 2-Fluorophenol	65.74	0	100	0	65.7	21-100		0		
Surr: 4-Terphenyl-d14	116.8	0	100	0	117	33-141		0		
Surr: Nitrobenzene-d5	82.97	0	100	0	83	35-114		0		
Surr: Phenol-d6	46.36	0	100	0	46.4	10-94		0		

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

U - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0308149
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: 6427 InstrumentID: - SV-2

LCS Sample ID: SLCSW1-030818 Test Code: SW8270 Units: µg/L Analysis Date: 08/19/03 19:04
 Client ID: Run ID: SV-2_030818A SeqNo: 358233 Prep Date: 8/18/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	37.45	10	50	0	74.9	51-110	0			
2,4,5-Trichlorophenol	94.33	10	100	0	94.3	55-130	0			
2,4,6-Trichlorophenol	94.2	10	100	0	94.2	55-130	0			
2-Methylnaphthalene	36.39	10	50	0	72.8	50-125	0			
2-Methylphenol	91.62	10	100	0	91.6	45-120	0			
2-Nitroaniline	46.2	10	50	0	92.4	55-130	0			
2-Nitrophenol	92.77	10	100	0	92.8	55-125	0			
3-Nitroaniline	48.56	10	50	0	97.1	55-120	0			
4-Methylphenol	129.3	10	150	0	86.2	40-120	0			
4-Nitroaniline	50.51	10	50	0	101	60-130	0			
4-Nitrophenol	57.24	10	100	0	57.2	25-100	0			
Acenaphthene	47.37	10	50	0	94.7	50-120	0			
Acenaphthylene	45.37	10	50	0	90.7	55-130	0			
Anthracene	50.75	10	50	0	101	60-130	0			
Benz(a)anthracene	45.68	10	50	0	91.4	60-130	0			
Benzidine	9.887	10	50	0	19.8	10-85	0			J
Hexachloroethane	34.83	10	50	0	69.7	40-120	0			
Indeno(1,2,3-cd)pyrene	27.44	10	50	0	54.9	60-130	0			S
Isophorone	46.99	10	50	0	94	60-130	0			
N-Nitrosodi-n-propylamine	49.37	10	50	0	98.7	55-120	0			
N-Nitrosodimethylamine	27.88	10	50	0	55.8	35-110	0			
N-Nitrosodiphenylamine	53.44	10	50	0	107	60-130	0			
Naphthalene	42.28	10	50	0	84.6	55-130	0			
Nitrobenzene	45.2	10	50	0	90.4	60-130	0			
Pentachlorophenol	91.4	10	100	0	91.4	45-125	0			
Phenanthrene	48.57	10	50	0	97.1	60-130	0			
Phenol	55.25	10	100	0	55.3	20-100	0			
Pyrene	49.82	10	50	0	99.6	45-120	0			
Surr: 2,4,6-Tribromophenol	92.64	0	100	0	92.6	10-123	0			
Surr: 2-Fluorobiphenyl	87.89	0	100	0	87.9	43-116	0			
Surr: 2-Fluorophenol	70.43	0	100	0	70.4	21-100	0			
Surr:4-Terphenyl-d14	103.2	0	100	0	103	33-141	0			
Surr: Nitrobenzene-d5	83.32	0	100	0	83.3	35-114	0			
Surr: Phenol-d6	52.23	0	100	0	52.2	10-94	0			

ND - Not Detected at the Reporting Limit

- Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0308149
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: 6427 InstrumentID: SV-2

LCSD Sample ID: SLCSDW1-030818 Test Code: SW8270 Units: µg/L Analysis Date: 08/19/03 19:32
 Client ID: Run ID: SV-2_030818A SeqNo: 358234 Prep Date: 8/18/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	39.9	10	50	0	79.8	51-110	37.45	6.33	30	
2,4,5-Trichlorophenol	99.02	10	100	0	99	55-130	94.33	4.85	30	
2,4,6-Trichlorophenol	99.91	10	100	0	99.9	55-130	94.2	5.89	30	
2-Methylnaphthalene	38.44	10	50	0	76.9	50-125	36.39	5.49	30	
2-Methylphenol	92.44	10	100	0	92.4	45-120	91.62	0.888	30	
2-Nitroaniline	46.79	10	50	0	93.6	55-130	46.2	1.27	30	
2-Nitrophenol	97.24	10	100	0	97.2	55-125	92.77	4.71	30	
3-Nitroaniline	48.79	10	50	0	97.6	55-120	48.56	0.484	30	
4-Methylphenol	134	10	150	0	89.3	40-120	129.3	3.54	30	
4-Nitroaniline	52.12	10	50	0	104	60-130	50.51	3.13	30	
4-Nitrophenol	56.5	10	100	0	56.5	25-100	57.24	1.3	30	
Acenaphthene	49.11	10	50	0	98.2	50-120	47.37	3.61	30	
Acenaphthylene	46.3	10	50	0	92.6	55-130	45.37	2.02	30	
Anthracene	53.29	10	50	0	107	60-130	50.75	4.88	30	
Benz(a)anthracene	47.06	10	50	0	94.1	60-130	45.68	2.97	30	
Benzidine	12.91	10	50	0	25.8	10-85	9.887	26.5	30	
Hexachloroethane	36.3	10	50	0	72.6	40-120	34.83	4.13	30	
Indeno(1,2,3-cd)pyrene	30.23	10	50	0	60.5	60-130	27.44	9.69	30	
Isophorone	48.39	10	50	0	96.8	60-130	46.99	2.93	30	
N-Nitrosodi-n-propylamine	49.22	10	50	0	98.4	55-120	49.37	0.296	30	
N-Nitrosodimethylamine	29.21	10	50	0	58.4	35-110	27.88	4.65	30	
N-Nitrosodiphenylamine	56.23	10	50	0	112	60-130	53.44	5.09	30	
Naphthalene	44.62	10	50	0	89.2	55-130	42.28	5.38	30	
Nitrobenzene	45.84	10	50	0	91.7	60-130	45.2	1.41	30	
Pentachlorophenol	94.63	10	100	0	94.6	45-125	91.4	3.47	30	
Phenanthrene	51.6	10	50	0	103	60-130	48.57	6.04	30	
Phenol	58.54	10	100	0	58.5	20-100	55.25	5.77	30	
Pyrene	51.64	10	50	0	103	45-120	49.82	3.58	30	
Surr: 2,4,6-Tribromophenol	96.47	0	100	0	96.5	10-123	92.64	4.06	30	
Surr: 2-Fluorobiphenyl	90.44	0	100	0	90.4	43-116	87.89	2.87	30	
Surr: 2-Fluorophenol	72.8	0	100	0	72.8	21-100	70.43	3.31	30	
Surr: 4-Terphenyl-d14	104.8	0	100	0	105	33-141	103.2	1.55	30	
Surr: Nitrobenzene-d5	85.94	0	100	0	85.9	35-114	83.32	3.09	30	
Surr: Phenol-d6	54.49	0	100	0	54.5	10-94	52.23	4.23	30	

The following samples were analyzed in this batch:

0308149-01E	0308149-02E	0308149-03E
0308149-04E		

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0308149
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: R15848 InstrumentID: VOA_I

MBLK Sample ID: VBLKW-0825 Test Code: SW8260 Units: µg/L Analysis Date: 08/25/03 14:03

Client ID: Run ID: VOA_I_030825A SeqNo: 360500 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	5.0								
1,1,2,2-Tetrachloroethane	U	5.0								
1,1,2-Trichloroethane	U	5.0								
1,1-Dichloroethane	U	5.0								
1,1-Dichloroethene	U	5.0								
1,2-Dichloroethane	U	5.0								
2-Butanone	U	10								
2-Chloroethyl vinyl ether	U	10								
2-Hexanone	U	10								
4-Methyl-2-pentanone	U	10								
Acetone	U	10								
Benzene	U	5.0								
Bromodichloromethane	U	5.0								
Bromoform	U	5.0								
Bromomethane	U	5.0								
Carbon disulfide	U	10								
Carbontetrachloride	U	5.0								
Chlorobenzene	U	5.0								
Chloroethane	U	5.0								
Chloroform	U	5.0								
Chloromethane	U	5.0								
cis-1,3-Dichloropropene	U	5.0								
Dibromochloromethane	U	5.0								
Ethylbenzene	U	5.0								
m,p-Xylene	U	10								
Methylene chloride	U	10								
Styrene	U	5.0								
Tetrachloroethene	U	5.0								
Toluene	U	5.0								
trans-1,3-Dichloropropene	U	5.0								
Trichloroethene	U	5.0								
Vinylacetate	U	10								
Vinyl chloride	U	2.0								
Xylenes, Total	U	15								
Surr:1,2-Dichloroethane-d4	47.97	5.0	50	0	95.9	70-130	0			
Surr:4-Bromofluorobenzene	47.61	5.0	50	0	95.2	70-130	0			
Surr:Dibromofluoromethane	49.5	5.0	50	0	99	70-130	0			
Surr:Toluene-d8	49.37	5.0	50	0	98.7	70-130	0			

ND - Not Detected at the Reporting Limit
 - Analyte detected below quantitation limits
 O - Referenced analyte value is > 4 times amount spiked
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 B - Analyte detected in assoc. Method Blank
 U - Analyzed for but not detected
 E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0308149
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: R15848 InstrumentID: VOA_I

LCS Sample ID: VLCSW-0825 Test Code: SW8260 Units: µg/L Analysis Date: 08/25/03 12:14
 Client ID: Run ID: VOA_I_030825A SeqNo: 360496 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	48.24	5.0	50	0	96.5	75-118	0			
1,1,2,2-Tetrachloroethane	46.28	5.0	50	0	92.6	79-120	0			
1,1,2-Trichloroethane	48.02	5.0	50	0	96	81-119	0			
1,1-Dichloroethane	49.12	5.0	50	0	98.2	80-120	0			
1,1-Dichloroethene	50.28	5.0	50	0	101	80-120	0			
1,2-Dichloroethane	48.33	5.0	50	0	96.7	80-120	0			
2-Butanone	103.6	10	100	0	104	70-130	0			
2-Chloroethyl vinyl ether	96.08	10	100	0	96.1	72-120	0			
2-Hexanone	87.74	10	100	0	87.7	70-130	0			
4-Methyl-2-pentanone	102.2	10	100	0	102	78-120	0			
Acetone	123.6	10	100	0	124	60-135	0			
Benzene	47.45	5.0	50	0	94.9	82-119	0			
Bromodichloromethane	48.55	5.0	50	0	97.1	81-119	0			
Bromoform	47.97	5.0	50	0	95.9	80-120	0			
Bromomethane	51.26	5.0	50	0	103	75-130	0			
Carbon disulfide	100.3	10	100	0	100	78-120	0			
Carbontetrachloride	46.46	5.0	50	0	92.9	77-120	0			
Chlorobenzene	46.9	5.0	50	0	93.8	82-118	0			
Chloroethane	50.87	5.0	50	0	102	78-122	0			
Chloroform	48.75	5.0	50	0	97.5	78-120	0			
Chloromethane	51.41	5.0	50	0	103	75-125	0			
cis-1,3-Dichloropropene	50.32	5.0	50	0	101	81-120	0			
Dibromochloromethane	48.1	5.0	50	0	96.2	81-118	0			
Ethylbenzene	47.41	5.0	50	0	94.8	82-120	0			
m,p-Xylene	95.62	10	100	0	95.6	82-122	0			
Methylene chloride	50.38	10	50	0	101	80-122	0			
Styrene	51.58	5.0	50	0	103	82-121	0			
Tetrachloroethene	46.18	5.0	50	0	92.4	79-118	0			
Toluene	47.28	5.0	50	0	94.6	81-119	0			
trans-1,3-Dichloropropene	51.57	5.0	50	0	103	82-121	0			
Trichloroethene	45.07	5.0	50	0	90.1	78-118	0			
Vinylacetate	113.9	10	100	0	114	75-120	0			
Vinyl chloride	50.84	2.0	50	0	102	73-127	0			
Xylenes, Total	142.6	15	150	0	95.1	80-120	0			
Surr:1,2-Dichloroethane-d4	48.74	5.0	50	0	97.5	70-130	0			
Surr:4-Bromofluorobenzene	51.95	5.0	50	0	104	70-130	0			
Surr:Dibromofluoromethane	50.35	5.0	50	0	101	70-130	0			
Surr:Toluene-d8	49.7	5.0	50	0	99.4	70-130	0			

ND - Not Detected at the Reporting Limit

- Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0308149
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R15848 InstrumentID: VOA_I

LCS Sample ID: VLCSW-0825 Test Code: SW8260 Units: µg/L Analysis Date: 08/25/03 13:09

Client ID: Run ID: VOA_I_030825A SeqNo: 360498 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Surr:1,2-Dichloroethane-d4	46.92	5.0	50	0	93.8	70-130	0			
Surr:4-Bromofluorobenzene	46.96	5.0	50	0	93.9	70-130	0			
Surr:Dibromofluoromethane	49.59	5.0	50	0	99.2	70-130	0			
Surr:Toluene-d8	50.05	5.0	50	0	100	70-130	0			

ND - Not Detected at the Reporting Limit

- Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0308149
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: R15848 InstrumentID: VOA_I

LCSD Sample ID: VLCSWD-0825 Test Code: SW8260 Units: µg/L Analysis Date: 08/25/03 12:42
 Client ID: Run ID: VOA_I_030825A SeqNo: 360497 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	49.21	5.0	50	0	98.4	75-118	48.24	1.98	20	
1,1,2,2-Tetrachloroethane	49.78	5.0	50	0	99.6	79-120	46.28	7.28	20	
1,1,2-Trichloroethane	50.3	5.0	50	0	101	81-119	48.02	4.63	20	
1,1-Dichloroethane	50.75	5.0	50	0	102	80-120	49.12	3.27	20	
1,1-Dichloroethene	53.61	5.0	50	0	107	80-120	50.28	6.4	20	
1,2-Dichloroethane	48.9	5.0	50	0	97.8	80-120	48.33	1.17	20	
2-Butanone	109.1	10	100	0	109	70-130	103.6	5.14	20	
2-Chloroethyl vinyl ether	98.69	10	100	0	98.7	72-120	96.08	2.67	20	
2-Hexanone	96.69	10	100	0	96.7	70-130	87.74	9.71	20	
4-Methyl-2-pentanone	108.2	10	100	0	108	78-120	102.2	5.74	20	
Acetone	125.5	10	100	0	126	60-135	123.6	1.55	20	
Benzene	49.42	5.0	50	0	98.8	82-119	47.45	4.06	20	
Bromodichloromethane	49.09	5.0	50	0	98.2	81-119	48.55	1.1	20	
Bromoform	49.6	5.0	50	0	99.2	80-120	47.97	3.34	20	
Bromomethane	55.67	5.0	50	0	111	75-130	51.26	8.25	20	
Carbon disulfide	106.8	10	100	0	107	78-120	100.3	6.23	20	
Carbontetrachloride	48.23	5.0	50	0	96.5	77-120	46.46	3.75	20	
Chlorobenzene	48.32	5.0	50	0	96.6	82-118	46.9	2.99	20	
Chloroethane	54.9	5.0	50	0	110	78-122	50.87	7.62	20	
Chloroform	49.98	5.0	50	0	100	78-120	48.75	2.49	20	
Chloromethane	54.33	5.0	50	0	109	75-125	51.41	5.51	20	
cis-1,3-Dichloropropene	51.6	5.0	50	0	103	81-120	50.32	2.52	20	
Dibromochloromethane	48.91	5.0	50	0	97.8	81-118	48.1	1.68	20	
Ethylbenzene	48.41	5.0	50	0	96.8	82-120	47.41	2.1	20	
m,p-Xylene	97.98	10	100	0	98	82-122	95.62	2.44	20	
Methylene chloride	52.1	10	50	0	104	80-122	50.38	3.35	20	
Styrene	52.77	5.0	50	0	106	82-121	51.58	2.28	20	
Tetrachloroethene	48.33	5.0	50	0	96.7	79-118	46.18	4.54	20	
Toluene	49.02	5.0	50	0	98	81-119	47.28	3.61	20	
trans-1,3-Dichloropropene	52.14	5.0	50	0	104	82-121	51.57	1.1	20	
Trichloroethene	47.22	5.0	50	0	94.4	78-118	45.07	4.66	20	
Vinylacetate	117.9	10	100	0	118	75-120	113.9	3.49	20	
Vinyl chloride	56	2.0	50	0	112	73-127	50.84	9.66	20	
Xylenes, Total	147	15	150	0	98	80-120	142.6	3.05	20	
Surr:1,2-Dichloroethane-d4	46.78	5.0	50	0	93.6	70-130	48.74	4.11	20	
Surr:4-Bromofluorobenzene	50.39	5.0	50	0	101	70-130	51.95	3.06	20	
Surr:Dibromofluoromethane	48.54	5.0	50	0	97.1	70-130	50.35	3.66	20	
Surr:Toluene-d8	48.86	5.0	50	0	97.7	70-130	49.7	1.7	20	

ND - Not Detected at the Reporting Limit

Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0308149
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: R15848 InstrumentID: VOA_I

LCSD	Sample ID: VLCSWD-0825	Test Code: SW8260		Units: µg/L		Analysis Date: 08/25/03 13:36				
Client ID:	Run ID: VOA_I_030825A	SeqNo: 360499	Prep Date:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Surr:1,2-Dichloroethane-d4	47.68	5.0	50	0	95.4	70-130	46.92	1.62	20	
Surr:4-Bromofluorobenzene	45.56	5.0	50	0	91.1	70-130	46.96	3.02	20	
Surr:Dibromofluoromethane	49.41	5.0	50	0	98.8	70-130	49.59	0.365	20	
Surr:Toluene-d8	48.67	5.0	50	0	97.3	70-130	50.05	2.81	20	

ND - Not Detected at the Reporting Limit
 - Analyte detected below quantitation limits
 O - Referenced analyte value is > 4 times amount spiked
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 B - Analyte detected in assoc. Method Blank
 U - Analyzed for but not detected
 E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0308149
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: R15848 InstrumentID: VOA_I

MS Sample ID: 0308244-01AMS Test Code: SW8260 Units: µg/L Analysis Date: 08/25/03 14:57

Client ID: Run ID: VOA_I_030825A SeqNo: 360502 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	48.85	5.0	50	0	97.7	75-125	0			
1,1,2,2-Tetrachloroethane	49.4	5.0	50	0	98.8	75-125	0			
1,1,2-Trichloroethane	49.32	5.0	50	0	98.6	75-125	0			
1,1-Dichloroethane	50.46	5.0	50	0	101	75-125	0			
1,1-Dichloroethene	49.75	5.0	50	0	99.5	65-130	0			
1,2-Dichloroethane	49.24	5.0	50	0	98.5	70-130	0			
2-Butanone	105.8	10	100	0	106	64-128	0			
2-Chloroethyl vinyl ether	11.95	10	100	0	11.9	75-125	0			S
2-Hexanone	83.31	10	100	0	83.3	72-124	0			
4-Methyl-2-pentanone	104.4	10	100	0	104	75-125	0			
Acetone	110	10	100	0	110	60-130	0			
Benzene	48.62	5.0	50	0	97.2	76-127	0			
Bromodichloromethane	49.51	5.0	50	0	99	75-125	0			
Bromoform	50.43	5.0	50	0	101	75-125	0			
Bromomethane	52.46	5.0	50	0	105	75-125	0			
Carbon disulfide	101.2	10	100	0	101	75-125	0			
Carbon tetrachloride	45.95	5.0	50	0	91.9	70-130	0			
Chlorobenzene	48.11	5.0	50	0	96.2	75-126	0			
Chloroethane	51.4	5.0	50	0	103	70-130	0			
Chloroform	50.24	5.0	50	0	100	75-125	0			
Chloromethane	49.99	5.0	50	0	100	75-125	0			
cis-1,3-Dichloropropene	49.76	5.0	50	0	99.5	75-125	0			
Dibromochloromethane	48.53	5.0	50	0	97.1	75-125	0			
Ethylbenzene	47.67	5.0	50	0	95.3	75-125	0			
m,p-Xylene	96.23	10	100	0	96.2	75-125	0			
Methylene chloride	51.13	10	50	0	102	75-125	0			
Styrene	52.21	5.0	50	0	104	75-125	0			
Tetrachloroethene	46.52	5.0	50	0	93	75-125	0			
Toluene	48.67	5.0	50	0	97.3	76-125	0			
trans-1,3-Dichloropropene	52.44	5.0	50	0	105	70-130	0			
Trichloroethene	46.4	5.0	50	0	92.8	71-120	0			
Vinylacetate	119.6	10	100	0	120	75-125	0			
Vinyl chloride	49.79	2.0	50	0	99.6	60-135	0			
Xylenes, Total	144.9	15	150	0	96.6	75-125	0			
Surr:1,2-Dichloroethane-d4	49.01	5.0	50	0	98	70-130	0			
Surr:4-Bromofluorobenzene	51.71	5.0	50	0	103	70-130	0			
Surr:Dibromofluoromethane	50.74	5.0	50	0	101	70-130	0			
Surr:Toluene-d8	48.89	5.0	50	0	97.8	70-130	0			

ND - Not Detected at the Reporting Limit

- Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0308149
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: R15848 InstrumentID: VOA_I

MS Sample ID: 0308244-01AMS Test Code: SW8260 Units: µg/L Analysis Date: 08/25/03 15:52
 Client ID: Run ID: VOA_I_030825A SeqNo: 360504 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Surr:1,2-Dichloroethane-d4	46.26	5.0	50	0	92.5	70-130	0			
Surr:4-Bromofluorobenzene	48.02	5.0	50	0	96	70-130	0			
Surr:Dibromofluoromethane	50.05	5.0	50	0	100	70-130	0			
Surr:Toluene-d8	50.82	5.0	50	0	102	70-130	0			

ND - Not Detected at the Reporting Limit

- Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0308149
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: R15848 InstrumentID: VOA_I

MSD	Sample ID: 0308244-01AMSD	Test Code: SW8260	Units: µg/L	Analysis Date: 08/25/03 15:24						
Client ID:	Run ID: VOA_I_030825A	SeqNo: 360503	Prep Date:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	48.18	5.0	50	0	96.4	75-125	48.85	1.39	20	
1,1,2,2-Tetrachloroethane	53.2	5.0	50	0	106	75-125	49.4	7.41	20	
1,1,2-Trichloroethane	52.2	5.0	50	0	104	75-125	49.32	5.67	20	
1,1-Dichloroethane	50.32	5.0	50	0	101	75-125	50.46	0.283	20	
1,1-Dichloroethene	50.76	5.0	50	0	102	65-130	49.75	2	20	
1,2-Dichloroethane	50.08	5.0	50	0	100	70-130	49.24	1.68	20	
2-Butanone	114.3	10	100	0	114	64-128	105.8	7.7	20	
2-Chloroethyl vinyl ether	13	10	100	0	13	75-125	11.95	8.49	20	S
2-Hexanone	87.65	10	100	0	87.6	72-124	83.31	5.08	20	
4-Methyl-2-pentanone	113.6	10	100	0	114	75-125	104.4	8.48	20	
Acetone	114.6	10	100	0	115	60-130	110	4.14	20	
Benzene	50.48	5.0	50	0	101	76-127	48.62	3.74	20	
Bromodichloromethane	50.67	5.0	50	0	101	75-125	49.51	2.3	20	
Bromoform	53	5.0	50	0	106	75-125	50.43	4.97	20	
Bromomethane	55.25	5.0	50	0	110	75-125	52.46	5.18	20	
Carbon disulfide	103.1	10	100	0	103	75-125	101.2	1.89	20	
Carbon tetrachloride	46.63	5.0	50	0	93.3	70-130	45.95	1.45	20	
Chlorobenzene	50.25	5.0	50	0	100	75-126	48.11	4.35	20	
Chloroethane	52.24	5.0	50	0	104	70-130	51.4	1.62	20	
Chloroform	50.45	5.0	50	0	101	75-125	50.24	0.419	20	
Chloromethane	54.99	5.0	50	0	110	75-125	49.99	9.51	20	
cis-1,3-Dichloropropene	52.56	5.0	50	0	105	75-125	49.76	5.46	20	
Dibromochloromethane	52.12	5.0	50	0	104	75-125	48.53	7.13	20	
Ethylbenzene	50.36	5.0	50	0	101	75-125	47.67	5.49	20	
m,p-Xylene	101.9	10	100	0	102	75-125	96.23	5.75	20	
Methylene chloride	53.04	10	50	0	106	75-125	51.13	3.67	20	
Styrene	54.48	5.0	50	0	109	75-125	52.21	4.25	20	
Tetrachloroethene	48.98	5.0	50	0	98	75-125	46.52	5.15	20	
Toluene	50.82	5.0	50	0	102	76-125	48.67	4.33	20	
trans-1,3-Dichloropropene	54.11	5.0	50	0	108	70-130	52.44	3.13	20	
Trichloroethene	48.01	5.0	50	0	96	71-120	46.4	3.41	20	
Vinylacetate	121.9	10	100	0	122	75-125	119.6	1.96	20	
Vinyl chloride	52.6	2.0	50	0	105	60-135	49.79	5.5	20	
Xylenes, Total	153.2	15	150	0	102	75-125	144.9	5.53	20	
Surr:1,2-Dichloroethane-d4	45.67	5.0	50	0	91.3	70-130	49.01	7.04	20	
Surr:4-Bromofluorobenzene	50.6	5.0	50	0	101	70-130	51.71	2.16	20	
Surr:Dibromofluoromethane	48.22	5.0	50	0	96.4	70-130	50.74	5.09	20	
Surr:Toluene-d8	48.39	5.0	50	0	96.8	70-130	48.89	1.02	20	

ND - Not Detected at the Reporting Limit
 - Analyte detected below quantitation limits
 O - Referenced analyte value is > 4 times amount spiked
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 B - Analyte detected in assoc. Method Blank
 U - Analyzed for but not detected
 E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0308149
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R15848 InstrumentID: VOA_I

MSD	Sample ID: 0308244-01AMSD	Test Code: SW8260	Units: µg/L	Analysis Date: 08/25/03 16:19						
Client ID:	Run ID: VOA_I_030825A	SeqNo: 360505	Prep Date:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Surr:1,2-Dichloroethane-d4	47.49	5.0	50	0	95	70-130	46.26	2.63	20	
Surr:4-Bromofluorobenzene	47.5	5.0	50	0	95	70-130	48.02	1.1	20	
Surr:Dibromofluoromethane	49.06	5.0	50	0	98.1	70-130	50.05	1.99	20	
Surr:Toluene-d8	49.47	5.0	50	0	98.9	70-130	50.82	2.69	20	

The following samples were analyzed in this batch:

0308149-01A	0308149-02A	0308149-03A
0308149-04A		

ND - Not Detected at the Reporting Limit

- Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0308149
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: R15859 InstrumentID: VOA_I

MBLK Sample ID: VBLKW-0826 Test Code: SW8260 Units: µg/L Analysis Date: 08/26/03 13:32

Client ID: Run ID: VOA_I_030826A SeqNo: 360826 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	5.0								
1,1,2,2-Tetrachloroethane	U	5.0								
1,1,2-Trichloroethane	U	5.0								
1,1-Dichloroethane	U	5.0								
1,1-Dichloroethene	U	5.0								
1,2-Dichloroethane	U	5.0								
2-Butanone	U	10								
2-Chloroethyl vinyl ether	U	10								
2-Hexanone	U	10								
4-Methyl-2-pentanone	U	10								
Acetone	U	10								
Benzene	U	5.0								
Bromodichloromethane	U	5.0								
Bromoform	U	5.0								
Bromomethane	U	5.0								
Carbon disulfide	U	10								
Carbon tetrachloride	U	5.0								
Chlorobenzene	U	5.0								
Chloroethane	U	5.0								
Chloroform	U	5.0								
Chloromethane	U	5.0								
cis-1,3-Dichloropropene	U	5.0								
Dibromochloromethane	U	5.0								
Ethylbenzene	U	5.0								
m,p-Xylene	U	10								
Methylene chloride	U	10								
Styrene	U	5.0								
Tetrachloroethene	U	5.0								
Toluene	U	5.0								
trans-1,3-Dichloropropene	U	5.0								
Trichloroethene	U	5.0								
Vinylacetate	U	10								
Vinyl chloride	U	2.0								
Xylenes, Total	U	15								
Surr: 1,2-Dichloroethane-d4	45.37	5.0	50	0	90.7	70-130	0			
Surr: 4-Bromofluorobenzene	44.81	5.0	50	0	89.6	70-130	0			
Surr: Dibromofluoromethane	49.47	5.0	50	0	98.9	70-130	0			
Surr: Toluene-d8	49.54	5.0	50	0	99.1	70-130	0			

ND - Not Detected at the Reporting Limit

- Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0308149
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: R15859 InstrumentID: VOA_I

LCS Sample ID: VLCSW-0826 Test Code: SW8260 Units: µg/L Analysis Date: 08/26/03 12:38

Client ID: Run ID: VOA_I_030826A SeqNo: 360824 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	48.2	5.0	50	0	96.4	75-118	0			
1,1,2,2-Tetrachloroethane	51.16	5.0	50	0	102	79-120	0			
1,1,2-Trichloroethane	50.58	5.0	50	0	101	81-119	0			
1,1-Dichloroethane	52.48	5.0	50	0	105	80-120	0			
1,1-Dichloroethene	52.69	5.0	50	0	105	80-120	0			
1,2-Dichloroethane	45.42	5.0	50	0	90.8	80-120	0			
2-Butanone	115.7	10	100	0	116	70-130	0			
2-Chloroethyl vinyl ether	96.66	10	100	0	96.7	72-120	0			
2-Hexanone	91.91	10	100	0	91.9	70-130	0			
4-Methyl-2-pentanone	106.7	10	100	0	107	78-120	0			
Acetone	119.7	10	100	0	120	60-135	0			
Benzene	49.39	5.0	50	0	98.8	82-119	0			
Bromodichloromethane	46.87	5.0	50	0	93.7	81-119	0			
Bromoform	46.78	5.0	50	0	93.6	80-120	0			
Bromomethane	56.66	5.0	50	0	113	75-130	0			
Carbon disulfide	105.2	10	100	0	105	78-120	0			
Carbon tetrachloride	44.69	5.0	50	0	89.4	77-120	0			
Chlorobenzene	47.93	5.0	50	0	95.9	82-118	0			
Chloroethane	54.4	5.0	50	0	109	78-122	0			
Chloroform	49.8	5.0	50	0	99.6	78-120	0			
Chloromethane	56.1	5.0	50	0	112	75-125	0			
cis-1,3-Dichloropropene	49.96	5.0	50	0	99.9	81-120	0			
Dibromochloromethane	47.69	5.0	50	0	95.4	81-118	0			
Ethylbenzene	48.34	5.0	50	0	96.7	82-120	0			
m,p-Xylene	98.04	10	100	0	98	82-122	0			
Methylene chloride	50.56	10	50	0	101	80-122	0			
Styrene	52.17	5.0	50	0	104	82-121	0			
Tetrachloroethene	46.1	5.0	50	0	92.2	79-118	0			
Toluene	48.91	5.0	50	0	97.8	81-119	0			
trans-1,3-Dichloropropene	49.71	5.0	50	0	99.4	82-121	0			
Trichloroethene	45.5	5.0	50	0	91	78-118	0			
Vinylacetate	125	10	100	0	125	75-120	0			S
Vinyl chloride	58.21	2.0	50	0	116	73-127	0			
Xylenes, Total	146.1	15	150	0	97.4	80-120	0			
Surr:1,2-Dichloroethane-d4	46.48	5.0	50	0	93	70-130	0			
Surr:4-Bromofluorobenzene	49.86	5.0	50	0	99.7	70-130	0			
Surr:Dibromofluoromethane	49.93	5.0	50	0	99.9	70-130	0			
Surr:Toluene-d8	49.43	5.0	50	0	98.9	70-130	0			

ND - Not Detected at the Reporting Limit

Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0308149
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: R15859 InstrumentID: VOA_I

LCSD Sample ID: VLCSWD-0826 Test Code: SW8260 Units: µg/L Analysis Date: 08/26/03 13:05

Client ID: Run ID: VOA_I_030826A SeqNo: 360825 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	49.19	5.0	50	0	98.4	75-118	48.2	2.04	20	
1,1,2,2-Tetrachloroethane	52.49	5.0	50	0	105	79-120	51.16	2.56	20	
1,1,2-Trichloroethane	51.02	5.0	50	0	102	81-119	50.58	0.856	20	
1,1-Dichloroethane	53.03	5.0	50	0	106	80-120	52.48	1.04	20	
1,1-Dichloroethene	52.16	5.0	50	0	104	80-120	52.69	1.02	20	
1,2-Dichloroethane	46.16	5.0	50	0	92.3	80-120	45.42	1.6	20	
2-Butanone	118.1	10	100	0	118	70-130	115.7	1.99	20	
2-Chloroethyl vinyl ether	97.68	10	100	0	97.7	72-120	96.66	1.05	20	
2-Hexanone	89.7	10	100	0	89.7	70-130	91.91	2.43	20	
4-Methyl-2-pentanone	109	10	100	0	109	78-120	106.7	2.11	20	
Acetone	120.7	10	100	0	121	60-135	119.7	0.864	20	
Benzene	51.53	5.0	50	0	103	82-119	49.39	4.24	20	
Bromodichloromethane	48.48	5.0	50	0	97	81-119	46.87	3.38	20	
Bromoform	47.7	5.0	50	0	95.4	80-120	46.78	1.94	20	
Bromomethane	55.14	5.0	50	0	110	75-130	56.66	2.71	20	
Carbon disulfide	104.9	10	100	0	105	78-120	105.2	0.246	20	
Carbontetrachloride	45.97	5.0	50	0	91.9	77-120	44.69	2.84	20	
Chlorobenzene	48.32	5.0	50	0	96.6	82-118	47.93	0.803	20	
Chloroethane	54.57	5.0	50	0	109	78-122	54.4	0.319	20	
Chloroform	50.57	5.0	50	0	101	78-120	49.8	1.53	20	
Chloromethane	56.33	5.0	50	0	113	75-125	56.1	0.413	20	
cis-1,3-Dichloropropene	51.58	5.0	50	0	103	81-120	49.96	3.19	20	
Dibromochloromethane	46.73	5.0	50	0	93.5	81-118	47.69	2.03	20	
Ethylbenzene	49.12	5.0	50	0	98.2	82-120	48.34	1.6	20	
m,p-Xylene	98.07	10	100	0	98.1	82-122	98.04	0.039	20	
Methylene chloride	50.46	10	50	0	101	80-122	50.56	0.19	20	
Styrene	52.77	5.0	50	0	106	82-121	52.17	1.15	20	
Tetrachloroethene	48.78	5.0	50	0	97.6	79-118	46.1	5.67	20	
Toluene	50.04	5.0	50	0	100	81-119	48.91	2.27	20	
trans-1,3-Dichloropropene	49.92	5.0	50	0	99.8	82-121	49.71	0.412	20	
Trichloroethene	46.96	5.0	50	0	93.9	78-118	45.5	3.16	20	
Vinylacetate	126.8	10	100	0	127	75-120	125	1.41	20	S
Vinyl chloride	58.5	2.0	50	0	117	73-127	58.21	0.5	20	
Xylenes, Total	147.1	15	150	0	98.1	80-120	146.1	0.66	20	
Surr:1,2-Dichloroethane-d4	45	5.0	50	0	90	70-130	46.48	3.22	20	
Surr:4-Bromofluorobenzene	48.54	5.0	50	0	97.1	70-130	49.86	2.68	20	
Surr:Dibromofluoromethane	49.56	5.0	50	0	99.1	70-130	49.93	0.738	20	
Surr:Toluene-d8	50.14	5.0	50	0	100	70-130	49.43	1.42	20	

ND - Not Detected at the Reporting Limit
 Analyte detected below quantitation limits
 O - Referenced analyte value is > 4 times amount spiked
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 B - Analyte detected in assoc. Method Blank
 U - Analyzed for but not detected
 E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0308149
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: R15859 InstrumentID: VOA_I

MS Sample ID: 0308170-04AMS Test Code: SW8260 Units: µg/L Analysis Date: 08/26/03 15:47

Client ID: Run ID: VOA_I_030826A SeqNo: 360827 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	41.22	5.0	50	0	82.4	75-125	0			
1,1,2,2-Tetrachloroethane	51.7	5.0	50	0	103	75-125	0			
1,1,2-Trichloroethane	51.11	5.0	50	0	102	75-125	0			
1,1-Dichloroethane	49.91	5.0	50	0	99.8	75-125	0			
1,1-Dichloroethene	41.2	5.0	50	0	82.4	65-130	0			
1,2-Dichloroethane	46.53	5.0	50	0	93.1	70-130	0			
2-Butanone	115.5	10	100	0	116	64-128	0			
2-Chloroethyl vinyl ether	13.34	10	100	0	13.3	75-125	0			S
2-Hexanone	83.84	10	100	0	83.8	72-124	0			
4-Methyl-2-pentanone	106.5	10	100	0	106	75-125	0			
Acetone	111.7	10	100	0	112	60-130	0			
Benzene	46.75	5.0	50	0	93.5	76-127	0			
Bromodichloromethane	47.15	5.0	50	0	94.3	75-125	0			
Bromoform	47.34	5.0	50	0	94.7	75-125	0			
Bromomethane	37.52	5.0	50	0	75	75-125	0			
Carbon disulfide	87.45	10	100	0	87.4	75-125	0			
Carbontetrachloride	35.32	5.0	50	0	70.6	70-130	0			
Chlorobenzene	45.89	5.0	50	0	91.8	75-126	0			
Chloroethane	46.34	5.0	50	0	92.7	70-130	0			
Chloroform	49.58	5.0	50	0	99.2	75-125	0			
Chloromethane	45.28	5.0	50	0	90.6	75-125	0			
cis-1,3-Dichloropropene	48.32	5.0	50	0	96.6	75-125	0			
Dibromochloromethane	46.91	5.0	50	0	93.8	75-125	0			
Ethylbenzene	44.26	5.0	50	0	88.5	75-125	0			
m,p-Xylene	90.12	10	100	0	90.1	75-125	0			
Methylene chloride	49.58	10	50	0	99.2	75-125	0			
Styrene	49.94	5.0	50	0	99.9	75-125	0			
Tetrachloroethene	38.9	5.0	50	0	77.8	75-125	0			
Toluene	45.49	5.0	50	0	91	76-125	0			
trans-1,3-Dichloropropene	49.49	5.0	50	0	99	70-130	0			
Trichloroethene	42.17	5.0	50	0	84.3	71-120	0			
Vinylacetate	127.3	10	100	0	127	75-125	0			S
Vinyl chloride	43.87	2.0	50	0	87.7	60-135	0			
Xylenes, Total	136.8	15	150	0	91.2	75-125	0			
Surr:1,2-Dichloroethane-d4	49.37	5.0	50	0	98.7	70-130	0			
Surr:4-Bromofluorobenzene	50.4	5.0	50	0	101	70-130	0			
Surr:Dibromofluoromethane	51.7	5.0	50	0	103	70-130	0			
Surr:Toluene-d8	49.21	5.0	50	0	98.4	70-130	0			

ND - Not Detected at the Reporting Limit

- Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0308149
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: R15859 InstrumentID: VOA_I

MSD Sample ID: 0308170-04AMSD Test Code: SW8260 Units: µg/L Analysis Date: 08/26/03 16:14
 Client ID: Run ID: VOA_I_030826A SeqNo: 360828 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	48.99	5.0	50	0	98	75-125	41.22	17.2	20	
1,1,2,2-Tetrachloroethane	53.99	5.0	50	0	108	75-125	51.7	4.34	20	
1,1,2-Trichloroethane	50.64	5.0	50	0	101	75-125	51.11	0.928	20	
1,1-Dichloroethane	53.85	5.0	50	0	108	75-125	49.91	7.6	20	
1,1-Dichloroethene	51.17	5.0	50	0	102	65-130	41.2	21.6	20	R
1,2-Dichloroethane	48.06	5.0	50	0	96.1	70-130	46.53	3.25	20	
2-Butanone	116.2	10	100	0	116	64-128	115.5	0.538	20	
2-Chloroethyl vinyl ether	13.97	10	100	0	14	75-125	13.34	4.61	20	S
2-Hexanone	79.51	10	100	0	79.5	72-124	83.84	5.3	20	
4-Methyl-2-pentanone	108.6	10	100	0	109	75-125	106.5	2	20	
Acetone	111.7	10	100	0	112	60-130	111.7	0.0345	20	
Benzene	52.06	5.0	50	0	104	76-127	46.75	10.7	20	
Bromodichloromethane	50.46	5.0	50	0	101	75-125	47.15	6.78	20	
Bromoform	49.32	5.0	50	0	98.6	75-125	47.34	4.1	20	
Bromomethane	49.76	5.0	50	0	99.5	75-125	37.52	28	20	R
Carbon disulfide	105.8	10	100	0	106	75-125	87.45	19	20	
Carbon tetrachloride	46.05	5.0	50	0	92.1	70-130	35.32	26.4	20	R
Chlorobenzene	49.82	5.0	50	0	99.6	75-126	45.89	8.2	20	
Chloroethane	55.1	5.0	50	0	110	70-130	46.34	17.3	20	
Chloroform	52.31	5.0	50	0	105	75-125	49.58	5.36	20	
Chloromethane	56.14	5.0	50	0	112	75-125	45.28	21.4	20	R
cis-1,3-Dichloropropene	51.55	5.0	50	0	103	75-125	48.32	6.48	20	
Dibromochloromethane	48.62	5.0	50	0	97.2	75-125	46.91	3.58	20	
Ethylbenzene	49.46	5.0	50	0	98.9	75-125	44.26	11.1	20	
m,p-Xylene	99.37	10	100	0	99.4	75-125	90.12	9.76	20	
Methylene chloride	51.61	10	50	0	103	75-125	49.58	4.01	20	
Styrene	53.28	5.0	50	0	107	75-125	49.94	6.49	20	
Tetrachloroethene	47.89	5.0	50	0	95.8	75-125	38.9	20.7	20	R
Toluene	50.24	5.0	50	0	100	76-125	45.49	9.92	20	
trans-1,3-Dichloropropene	52.04	5.0	50	0	104	70-130	49.49	5.01	20	
Trichloroethene	48.8	5.0	50	0	97.6	71-120	42.17	14.6	20	
Vinylacetate	131.6	10	100	0	132	75-125	127.3	3.35	20	S
Vinyl chloride	58.62	2.0	50	0	117	60-135	43.87	28.8	20	R
Xylenes, Total	148.8	15	150	0	99.2	75-125	136.8	8.43	20	
Surr:1,2-Dichloroethane-d4	46.27	5.0	50	0	92.5	70-130	49.37	6.48	20	
Surr:4-Bromofluorobenzene	49.05	5.0	50	0	98.1	70-130	50.4	2.71	20	
Surr:Dibromofluoromethane	50.26	5.0	50	0	101	70-130	51.7	2.82	20	
Surr:Toluene-d8	49.37	5.0	50	0	98.7	70-130	49.21	0.321	20	

The following samples were analyzed in this batch: 0308149-03A

ND - Not Detected at the Reporting Limit
 - Analyte detected below quantitation limits
 O - Referenced analyte value is > 4 times amount spiked
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 B - Analyte detected in assoc. Method Blank
 U - Analyzed for but not detected
 E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0308149
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: R15690 InstrumentID: WetChemistry

MBLK Sample ID: WMBW1-081703 Test Code: E335.3 Units: mg/L Analysis Date: 08/17/03 0:00
 Client ID: Run ID: WET CHEMISTRY_0308 SeqNo: 357183 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide	U	0.020								

LCS Sample ID: WLCSW1-081703 Test Code: E335.3 Units: mg/L Analysis Date: 08/17/03 0:00
 Client ID: Run ID: WET CHEMISTRY_0308 SeqNo: 357184 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide	0.2034	0.020	0.2	0	102	80-120	0			

MS Sample ID: 0308113-01EMS Test Code: E335.3 Units: mg/L Analysis Date: 08/17/03 0:00
 Client ID: Run ID: WET CHEMISTRY_0308 SeqNo: 357203 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide	0.1994	0.020	0.2	0.0077	95.8	75-125	0			

MSD Sample ID: 0308113-01E MSD Test Code: E335.3 Units: mg/L Analysis Date: 08/17/03 0:00
 Client ID: Run ID: WET CHEMISTRY_0308 SeqNo: 357211 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide	0.1975	0.020	0.2	0.0077	94.9	75-125	0.1994	0.957	25	

DUP Sample ID: 0308113-01E DUP Test Code: E335.3 Units: mg/L Analysis Date: 08/17/03 0:00
 Client ID: Run ID: WET CHEMISTRY_0308 SeqNo: 357202 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide	0.0071	0.020	0	0	0	0-0	0.0077	0	20	J

The following samples were analyzed in this batch:

0308149-01D	0308149-02D	0308149-03D
0308149-04D		

ND - Not Detected at the Reporting Limit
 - Analyte detected below quantitation limits
 O - Referenced analyte value is > 4 times amount spiked
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 B - Analyte detected in assoc. Method Blank
 U - Analyzed for but not detected
 E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0308149
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: R15705 InstrumentID: IC201

MBLK		Sample ID: WBLKW1-081403		Test Code: E300		Units: mg/L		Analysis Date: 08/14/03 22:53		
Client ID:		Run ID: IC201_030814A		SeqNo: 357454		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	U	0.50								
Fluoride	U	0.10								
Sulfate	U	1.0								
Nitrate/Nitrite (as N)	U	0.10								
Surr: Dichloroacetic acid (surr)	U	0.10								

LCS		Sample ID: WLCSW1-081403		Test Code: E300		Units: mg/L		Analysis Date: 08/14/03 23:25		
Client ID:		Run ID: IC201_030814A		SeqNo: 357455		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	9.56	0.50	10	0	95.6	80-120	0			
Fluoride	1.98	0.10	2	0	99	80-120	0			
Sulfate	10.1	1.0	10	0	101	80-120	0			
Surr: Dichloroacetic acid (surr)	2.23	0.10	2	0	112	80-120	0			

MS		Sample ID: 0308150-14EMS		Test Code: E300		Units: mg/L		Analysis Date: 08/15/03 1:03		
Client ID:		Run ID: IC201_030814A		SeqNo: 357458		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	322.5	0.50	10	315.8	67.4	75-125	0			SEO
Fluoride	2.61	0.10	2	0.39	111	75-125	0			
Sulfate	14.9	1.0	10	5.69	92.1	75-125	0			
Nitrate/Nitrite (as N)	4.09	0.10	4	0	102	75-125	0			
Surr: Dichloroacetic acid (surr)	4.56	0.10	5	0	91.2	80-120	0			

MSD		Sample ID: 0308150-14EMSD		Test Code: E300		Units: mg/L		Analysis Date: 08/15/03 1:35		
Client ID:		Run ID: IC201_030814A		SeqNo: 357459		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	324.6	0.50	10	315.8	88.4	75-125	322.5	0.649	20	EO
Fluoride	2.47	0.10	2	0.39	104	75-125	2.61	5.51	20	
Sulfate	14.53	1.0	10	5.69	88.4	75-125	14.9	2.51	20	
Nitrate/Nitrite (as N)	3.98	0.10	4	0	99.5	75-125	4.09	2.73	20	
Surr: Dichloroacetic acid (surr)	5.08	0.10	5	0	102	80-120	4.56	10.8	20	

ND - Not Detected at the Reporting Limit
 S - Spike Recovery outside accepted recovery limits
 B - Analyte detected in assoc. Method Blank
 - Analyte detected below quantitation limits
 R - RPD outside accepted recovery limits
 U - Analyzed for but not detected
 O - Referenced analyte value is > 4 times amount spiked
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0308149
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: R15705 InstrumentID: IC201

DUP		Sample ID: 0308150-14EDUP			Test Code: E300		Units: mg/L		Analysis Date: 08/15/03 0:30	
Client ID:		Run ID: IC201_030814A			SeqNo: 357457		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	315.9	0.50	0	0	0	0-0	315.8	0.0412	20	E
Fluoride	0.41	0.10	0	0	0	0-0	0.39	5	20	
Sulfate	5.86	1.0	0	0	0	0-0	5.69	2.94	20	
Nitrate/Nitrite (as N)	U	0.10	0	0	0	0-0	0	0	20	
Surr: Dichloroacetic acid (surr)	5.27	0.10	5	0	105	80-120	4.02	26.9	20	R

The following samples were analyzed in this batch: 0308149-02B 0308149-03B 0308149-04B

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0308149
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: R15713 InstrumentID: WetChemistry

MBLK Sample ID: WMBW1-081803 Test Code: E310.1 Units: mg/L Analysis Date: 08/18/03 0:00
 Client ID: Run ID: WET CHEMISTRY_0308 SeqNo: 357566 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	U	5.0								
Alkalinity, Carbonate (As CaCO3)	U	5.0								
Alkalinity, Hydroxide (As CaCO3)	U	5.0								
Alkalinity, Total (As CaCO3)	U	5.0								

LCS Sample ID: WLCSW1-081803 Test Code: E310.1 Units: mg/L Analysis Date: 08/18/03 0:00
 Client ID: Run ID: WET CHEMISTRY_0308 SeqNo: 357567 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	979.4	5.0	1000	0	97.9	80-120	0			

DUP Sample ID: 0308169-06D DUP Test Code: E310.1 Units: mg/L Analysis Date: 08/18/03 0:00
 Client ID: Run ID: WET CHEMISTRY_0308 SeqNo: 357584 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	149.5	5.0	0	0	0	0-0	144.3	3.51	20	
Alkalinity, Carbonate (As CaCO3)	U	5.0	0	0	0	0-0	0	0	20	
Alkalinity, Hydroxide (As CaCO3)	U	5.0	0	0	0	0-0	0	0	20	
Alkalinity, Total (As CaCO3)	149.5	5.0	0	0	0	0-0	144.3	3.51	20	

The following samples were analyzed in this batch:

0308149-01B	0308149-02B	0308149-03B
0308149-04B		

ND - Not Detected at the Reporting Limit

- Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0308149
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: R15738 InstrumentID: IC201

MBLK Sample ID: WBLKW1-081903 Test Code: E300 Units: mg/L Analysis Date: 08/19/03 20:58
 Client ID: Run ID: IC201_030819A SeqNo: 358156 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	U	0.50								
Fluoride	U	0.10								
Sulfate	U	1.0								
Nitrate/Nitrite (as N)	U	0.10								
Surr: Dichloroacetic acid (surr)	U	0.10								

LCS Sample ID: WLCSW1-081903 Test Code: E300 Units: mg/L Analysis Date: 08/19/03 21:31
 Client ID: Run ID: IC201_030819A SeqNo: 358157 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	9.63	0.50	10	0	96.3	80-120	0			
Fluoride	1.97	0.10	2	0	98.5	80-120	0			
Sulfate	10.16	1.0	10	0	102	80-120	0			
Surr: Dichloroacetic acid (surr)	2.17	0.10	2	0	108	80-120	0			

LCSD Sample ID: WLCSW1-081903 Test Code: E300 Units: mg/L Analysis Date: 08/19/03 22:03
 Client ID: Run ID: IC201_030819A SeqNo: 358158 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	9.81	0.50	10	0	98.1	80-120	9.63	1.85	20	
Fluoride	1.92	0.10	2	0	96	80-120	1.97	2.57	20	
Sulfate	10.42	1.0	10	0	104	80-120	10.16	2.53	20	
Surr: Dichloroacetic acid (surr)	2.29	0.10	2	0	114	80-120	2.17	5.38	20	

MS Sample ID: 0308149-01BMS Test Code: E300 Units: mg/L Analysis Date: 08/19/03 23:41
 Client ID: TEL-4 Run ID: IC201_030819A SeqNo: 361359 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	680.7	0.50	10	681.6	-9.1	75-125	0			SEO
Fluoride	3.05	0.10	2	1.23	91	75-125	0			
Sulfate	224	1.0	10	220.7	32.7	75-125	0			SEO
Nitrate/Nitrite (as N)	2.08	0.10	4	0	52	75-125	0			S
Surr: Dichloroacetic acid (surr)	3.68	0.10	5	0	73.6	80-120	0			S

ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 O - Referenced analyte value is > 4 times amount spiked
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 B - Analyte detected in assoc. Method Blank
 U - Analyzed for but not detected
 E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0308149
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: R15738 InstrumentID: IC201

MSD Sample ID: 0308149-01BMSD Test Code: E300 Units: mg/L Analysis Date: 08/20/03 0:13
 Client ID: TEL-4 Run ID: IC201_030819A SeqNo: 361361 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	681.2	0.50	10	681.6	-5	75-125	680.7	0.0602	20	SEO
Fluoride	3.15	0.10	2	1.23	96	75-125	3.05	3.23	20	
Sulfate	206.6	1.0	10	220.7	-141	75-125	224	8.08	20	SEO
Nitrate/Nitrite (as N)	1.61	0.10	4	0	40.2	75-125	2.08	25.5	20	SR
Surr: Dichloroacetic acid (surr)	1.37	0.10	5	0	27.4	80-120	3.68	91.5	20	SR

DUP Sample ID: 0308149-01BDUP Test Code: E300 Units: mg/L Analysis Date: 08/19/03 23:08
 Client ID: TEL-4 Run ID: IC201_030819A SeqNo: 361358 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	682.1	0.50	0	0	0	0-0	681.6	0.0704	20	E
Fluoride	1.22	0.10	0	0	0	0-0	1.23	0.816	20	
Sulfate	215.2	1.0	0	0	0	0-0	220.7	2.51	20	E
Nitrate/Nitrite (as N)	U	0.10	0	0	0	0-0	0	0	20	
Surr: Dichloroacetic acid (surr)	1.28	0.10	5	0	25.6	80-120	3.83	99.8	20	SR

The following samples were analyzed in this batch:

0308149-01B

ND - Not Detected at the Reporting Limit

A - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0308149
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: R15821 InstrumentID: IC201

MBLK		Sample ID: WBLKW1-082103		Test Code: E300		Units: mg/L		Analysis Date: 08/21/03 20:35		
Client ID:		Run ID: IC201_030821A		SeqNo: 360022		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	U	0.50								
Fluoride	U	0.10								
Sulfate	U	1.0								
Nitrate/Nitrite (as N)	U	0.10								
Surr: Dichloroacetic acid (surr)	U	0.10								

LCS		Sample ID: WLCSW1-082103		Test Code: E300		Units: mg/L		Analysis Date: 08/21/03 21:08		
Client ID:		Run ID: IC201_030821A		SeqNo: 360023		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	9.8	0.50	10	0	98	80-120	0			
Fluoride	1.94	0.10	2	0	97	80-120	0			
Sulfate	10.32	1.0	10	0	103	80-120	0			
Surr: Dichloroacetic acid (surr)	2.18	0.10	2	0	109	80-120	0			

MS		Sample ID: 0308207-02BMS		Test Code: E300		Units: mg/L		Analysis Date: 08/21/03 23:18		
Client ID:		Run ID: IC201_030821A		SeqNo: 360026		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	9.77	0.50	10	0	97.7	75-125	0			
Fluoride	1.91	0.10	2	0	95.5	75-125	0			
Sulfate	10.25	1.0	10	0	102	75-125	0			
Nitrate/Nitrite (as N)	4.05	0.10	4	0	101	75-125	0			
Surr: Dichloroacetic acid (surr)	5.19	0.10	5	0	104	80-120	0			

MSD		Sample ID: 0308207-02BMSD		Test Code: E300		Units: mg/L		Analysis Date: 08/21/03 23:50		
Client ID:		Run ID: IC201_030821A		SeqNo: 360027		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	9.66	0.50	10	0	96.6	75-125	9.77	1.13	20	
Fluoride	1.84	0.10	2	0	92	75-125	1.91	3.73	20	
Sulfate	10.2	1.0	10	0	102	75-125	10.25	0.489	20	
Nitrate/Nitrite (as N)	3.94	0.10	4	0	98.5	75-125	4.05	2.75	20	
Surr: Dichloroacetic acid (surr)	4.17	0.10	5	0	83.4	80-120	5.19	21.8	20	R

ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 O - Referenced analyte value is > 4 times amount spiked
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 B - Analyte detected in assoc. Method Blank
 U - Analyzed for but not detected
 E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0308149
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R15821 InstrumentID: IC201

DUP	Sample ID: 0308207-02BDUP	Test Code: E300		Units: mg/L	Analysis Date: 08/21/03 22:45					
Client ID:	Run ID: IC201_030821A	SeqNo: 360025	Prep Date:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	U	0.50	0	0	0	0-0	0	0	0	20
Fluoride	U	0.10	0	0	0	0-0	0	0	0	20
Sulfate	U	1.0	0	0	0	0-0	0	0	0	20
Nitrate/Nitrite (as N)	U	0.10	0	0	0	0-0	0	0	0	20
Surr: Dichloroacetic acid (surr)	5.56	0.10	5	0	111	80-120	5.49	1.27	0	20

The following samples were analyzed in this batch:

0308149-01B	0308149-02B	0308149-03B
0308149-04B		

ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in assoc. Method Blank
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits U - Analyzed for but not detected
 O - Referenced analyte value is > 4 times amount spiked P - Dual Column results percent difference > 40% E - Value above quantitation range



e-Lab, Inc.
10450 Stancil Rd. #210
Houston, Texas 77099
(Tel) 281.530.5656
(Fax) 281.530.5887

Chain of Custody Form

Page 1 of 1

e-Lab, Inc.
3352 128th Avenue
Holland, Michigan 49424
(Tel) 616.399.6070
(Fax) 616.399.6185

Customer Information				Project Information				Parameter/Method Request for Analysis											
Purchase Order	Project Name	Project Number	Project Manager	A	B	C	D	E	F	G	H	I	J						
Work Order	Bill To Company	Invoice Attn.	Address	NCL/TEL															
Company Name	City/State/Zip	Phone	Fax	NCL/TEL															
Send Report To	Address	City/State/Zip	Phone	NCL/TEL															
Address	City/State/Zip	Phone	Fax	NCL/TEL															
City/State/Zip	Phone	Fax	Matrix	Time	Date	Sample Description	No.	1	2	3	4	5	6	7	8	9	10		
Phone	Fax	e-Mail Address	Pres.	# Bottles	Matrix	Time	Date	Sample Description	No.	1	2	3	4	5	6	7	8	9	10
							8/13/03	1020	4	2	TEL-4	X							
							/	1020	/	/	TEL-3	X							
							/	1050	/	/	TEL-2	X							
							/	1400	/	/	TEL-1	X							
Sampler(s): Please Print & Sign				Shipment Method:				Required Turnaround Time:				Results Due Date:							
Relinquished by: <i>[Signature]</i>				Received by: <i>[Signature]</i>				<input type="checkbox"/> STD 10 Wk Days <input type="checkbox"/> 5 Wk Days <input type="checkbox"/> 2 Wk Days <input type="checkbox"/> 24 Hour <input type="checkbox"/> Other											
Date: 8/13/03				Time: 1615				Notes:				QC Package: (Check Box Below)							
Relinquished by: <i>[Signature]</i>				Received by: <i>[Signature]</i>				<input type="checkbox"/> Level II: Standard QC <input type="checkbox"/> Level III: Standard QC + Raw Data <input type="checkbox"/> Level IV: SW846 Methods/CLP <input type="checkbox"/> Other:											
Logged by: (Laboratory):				Checked by: (Laboratory):				Received by: (Laboratory):				Temperature:							
Date:				Time:				Date:				Time:							

Sample Receipt Checklist

Client Name NAVAJO REFINING COMPAN

Date/Time Received: 8/14/2003 9:50:00 AM

Work Order Number 0308149

Received by: RSZ

Checklist completed by W RICHARD SANCHEZ 8-14-03
Signature Date

Reviewed by LT 8/15/03
Initials Date

Matrix: Carrier name FedEx

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Container/Temp Blank temperature in compliance? Yes No

Temperature(s)/Thermometer(s): 3.0c 003

Water - VOA vials have zero headspace? Yes No No VOA vials submitted

Water - pH acceptable upon receipt? Yes No N/A

Adjusted? _____ Checked by _____

Login Notes:

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

0308149

NEWFIELD REFINING COMPANY

501 E. MAIN STREET
ARTESIA NM 88210
5057483311

TO:

E-LAB
SAMPLE RECEIVING
10450 STANCLIFF ROAD STE 210
HOUSTON TX 77099



Delivery Address Barcode

EX **PRIORITY OVERNIGHT**

System # 2223500 13AUG2003

TRK# 7908 7011 2789 Form 201

THU

DELIVER BY
14AUG2003

IAH

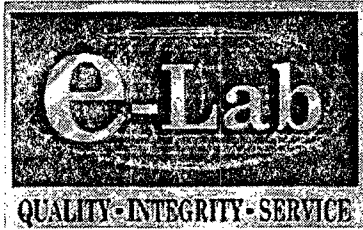
AZ

77099-TX-US

99 JGQA



00 2223500 2844 04/02



e-Lab, Inc.

10450 Stancliff Rd, Suite 210 Houston, Texas 77099-4338 281-530-5656 Fax 281-530-5887

November 18, 2003

Jeff Byrd
Navajo Refining Company
P.O. Box 159
Artesia, New Mexico 88211

Tel: (505) 746-5468
Fax: (505) 746-5421

Re: NCL/TEL

Work Order : **0311026**

Dear Jeff Byrd,

e-Lab, Inc. received 3 samples on 11/4/2003 8:45:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by e-Lab, Inc. and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by e-Lab Inc. The total number of pages in this report is 36.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Lora Terrill

Electronically approved by: Patr na A. Dalhorne

Lora Terrill
VP Lab Operations

e-Lab, Inc.

Date: November 18, 2003

CLIENT: Navajo Refining Company
Project: NCL/TEL
Work Order: 0311026

Work Order Sample Summary

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
0311026-01	MW-53	Water		11/3/2003 14:00	11/4/2003 08:45	<input type="checkbox"/>
0311026-02	MW-55	Water		11/3/2003 14:30	11/4/2003 08:45	<input type="checkbox"/>
0311026-03	MW-54A	Water		11/3/2003 15:00	11/4/2003 08:45	<input type="checkbox"/>

e-Lab, Inc.

Date: *November 18, 2003*

CLIENT: Navajo Refining Company

Project: NCL/TEL

Work Order: 0311026

Case Narrative

Sample could not be analyzed lower than DF 2 for metals and obtain acceptable internal standard recoveries.

e-Lab, Inc.

Date: November 18, 2003

CLIENT: Navajo Refining Company
Work Order: 0311026
Project: NCL/TEL
Lab ID: 0311026-01

Client Sample ID: MW-53
Collection Date: 11/3/2003 2:00:00 PM
Matrix: WATER

Analyses	Result	Report Limit	Qual Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL		SW7470		Prep Date: 11/11/2003 Analyst: JCJ	
Mercury	ND	0.000200	mg/L	1	11/12/2003 11:17:47 AM
ICP METALS, TOTAL		SW6020		Prep Date: 11/11/2003 Analyst: ALR	
Aluminum	ND	0.0200	mg/L	2	11/15/2003 5:25:00 AM
Arsenic	ND	0.0100	mg/L	2	11/15/2003 5:25:00 AM
Barium	0.0284	0.0100	mg/L	2	11/15/2003 5:25:00 AM
Beryllium	ND	0.00400	mg/L	2	11/15/2003 5:25:00 AM
Boron	0.404	0.200	mg/L	10	11/14/2003 4:23:00 AM
Cadmium	ND	0.00200	mg/L	2	11/15/2003 5:25:00 AM
Calcium	293	10.0	mg/L	20	11/14/2003 8:59:00 PM
Chromium	ND	0.00400	mg/L	2	11/15/2003 5:25:00 AM
Cobalt	0.00445	0.00400	mg/L	2	11/15/2003 5:25:00 AM
Copper	0.00521	0.00400	mg/L	2	11/15/2003 5:25:00 AM
Iron	0.567	0.400	mg/L	2	11/15/2003 5:25:00 AM
Lead	ND	0.0100	mg/L	2	11/17/2003 3:38:00 PM
Magnesium	161	4.00	mg/L	20	11/17/2003 3:20:00 PM
Manganese	1.99	0.0500	mg/L	10	11/14/2003 4:23:00 AM
Nickel	0.0112	0.0100	mg/L	2	11/15/2003 5:25:00 AM
Potassium	ND	0.400	mg/L	2	11/15/2003 5:25:00 AM
Selenium	ND	0.0100	mg/L	2	11/15/2003 5:25:00 AM
Silver	ND	0.0100	mg/L	2	11/15/2003 5:25:00 AM
Sodium	120	4.00	mg/L	20	11/17/2003 3:20:00 PM
Vanadium	0.0110	0.0100	mg/L	2	11/15/2003 5:25:00 AM
Zinc	0.0141	0.0100	mg/L	2	11/15/2003 5:25:00 AM
SEMIVOLATILE ORGANICS BY GC/MS		SW8270		Prep Date: 11/6/2003 Analyst: RKG	
1,2,4-Trichlorobenzene	ND	10	µg/L	1	11/10/2003 10:48:00 PM
2,4,5-Trichlorophenol	ND	10	µg/L	1	11/10/2003 10:48:00 PM
2,4,6-Trichlorophenol	ND	10	µg/L	1	11/10/2003 10:48:00 PM
2-Methylnaphthalene	ND	10	µg/L	1	11/10/2003 10:48:00 PM
2-Methylphenol	ND	10	µg/L	1	11/10/2003 10:48:00 PM
2-Nitroaniline	ND	10	µg/L	1	11/10/2003 10:48:00 PM
2-Nitrophenol	ND	10	µg/L	1	11/10/2003 10:48:00 PM
3-Nitroaniline	ND	10	µg/L	1	11/10/2003 10:48:00 PM
4-Methylphenol	ND	10	µg/L	1	11/10/2003 10:48:00 PM
4-Nitroaniline	ND	10	µg/L	1	11/10/2003 10:48:00 PM
4-Nitrophenol	ND	10	µg/L	1	11/10/2003 10:48:00 PM
Acenaphthene	ND	10	µg/L	1	11/10/2003 10:48:00 PM
Acenaphthylene	ND	10	µg/L	1	11/10/2003 10:48:00 PM
Aniline	ND	10	µg/L	1	11/10/2003 10:48:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time

CLIENT: Navajo Refining Company
 Work Order: 0311026
 Project: NCL/TEL
 Lab ID: 0311026-01

Client Sample ID: MW-53
 Collection Date: 11/3/2003 2:00:00 PM
 Matrix: WATER

Analyses	Result	Report Limit	Qual Units	Dilution Factor	Date Analyzed
Anthracene	ND	10	µg/L	1	11/10/2003 10:48:00 PM
Benz(a)anthracene	ND	10	µg/L	1	11/10/2003 10:48:00 PM
Benzidine	ND	10	µg/L	1	11/10/2003 10:48:00 PM
Hexachloroethane	ND	10	µg/L	1	11/10/2003 10:48:00 PM
Indeno(1,2,3-cd)pyrene	ND	10	µg/L	1	11/10/2003 10:48:00 PM
Isophorone	ND	10	µg/L	1	11/10/2003 10:48:00 PM
N-Nitrosodi-n-propylamine	ND	10	µg/L	1	11/10/2003 10:48:00 PM
N-Nitrosodimethylamine	ND	10	µg/L	1	11/10/2003 10:48:00 PM
N-Nitrosodiphenylamine	ND	10	µg/L	1	11/10/2003 10:48:00 PM
Naphthalene	ND	10	µg/L	1	11/10/2003 10:48:00 PM
Nitrobenzene	ND	10	µg/L	1	11/10/2003 10:48:00 PM
Pentachlorophenol	ND	10	µg/L	1	11/10/2003 10:48:00 PM
Phenanthrene	ND	10	µg/L	1	11/10/2003 10:48:00 PM
Phenol	ND	10	µg/L	1	11/10/2003 10:48:00 PM
Pyrene	ND	10	µg/L	1	11/10/2003 10:48:00 PM
Surr:2,4,6-Tribromophenol	113	39-153	%REC	1	11/10/2003 10:48:00 PM
Surr:2-Fluorobiphenyl	102	40-147	%REC	1	11/10/2003 10:48:00 PM
Surr:2-Fluorophenol	54.4	21-100	%REC	1	11/10/2003 10:48:00 PM
Surr:4-Terphenyl-d14	111	39-141	%REC	1	11/10/2003 10:48:00 PM
Surr:Nitrobenzene-d5	94.6	37-140	%REC	1	11/10/2003 10:48:00 PM
Surr: Phenol-d6	35.3	11-100	%REC	1	11/10/2003 10:48:00 PM

VOLATILES BY GC/MS

SW8260

Analyst: PC

1,1,1-Trichloroethane	ND	5.0	µg/L	1	11/14/2003 8:40:00 AM
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	1	11/14/2003 8:40:00 AM
1,1,2-Trichloroethane	ND	5.0	µg/L	1	11/14/2003 8:40:00 AM
1,1-Dichloroethane	ND	5.0	µg/L	1	11/14/2003 8:40:00 AM
1,1-Dichloroethene	ND	5.0	µg/L	1	11/14/2003 8:40:00 AM
1,2-Dichloroethane	ND	5.0	µg/L	1	11/14/2003 8:40:00 AM
2-Butanone	ND	10	µg/L	1	11/14/2003 8:40:00 AM
2-Chloroethyl vinyl ether	ND	10	µg/L	1	11/14/2003 8:40:00 AM
2-Hexanone	ND	10	µg/L	1	11/14/2003 8:40:00 AM
4-Methyl-2-pentanone	ND	10	µg/L	1	11/14/2003 8:40:00 AM
Acetone	ND	10	µg/L	1	11/14/2003 8:40:00 AM
Benzene	47	5.0	µg/L	1	11/14/2003 8:40:00 AM
Bromodichloromethane	ND	5.0	µg/L	1	11/14/2003 8:40:00 AM
Bromoform	ND	5.0	µg/L	1	11/14/2003 8:40:00 AM
Bromomethane	ND	5.0	µg/L	1	11/14/2003 8:40:00 AM
Carbon disulfide	ND	10	µg/L	1	11/14/2003 8:40:00 AM
Carbon tetrachloride	ND	5.0	µg/L	1	11/14/2003 8:40:00 AM
Chlorobenzene	ND	5.0	µg/L	1	11/14/2003 8:40:00 AM

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time

CLIENT: Navajo Refining Company
 Work Order: 0311026
 Project: NCL/TEL
 Lab ID: 0311026-01

Client Sample ID: MW-53
 Collection Date: 11/3/2003 2:00:00 PM
 Matrix: WATER

Analyses	Result	Report Limit	Qual Units	Dilution Factor	Date Analyzed
Chloroethane	ND	5.0	µg/L	1	11/14/2003 8:40:00 AM
Chloroform	ND	5.0	µg/L	1	11/14/2003 8:40:00 AM
Chloromethane	ND	5.0	µg/L	1	11/14/2003 8:40:00 AM
cis-1,3-Dichloropropene	ND	5.0	µg/L	1	11/14/2003 8:40:00 AM
Dibromochloromethane	ND	5.0	µg/L	1	11/14/2003 8:40:00 AM
Ethylbenzene	13	5.0	µg/L	1	11/14/2003 8:40:00 AM
m,p-Xylene	13	10	µg/L	1	11/14/2003 8:40:00 AM
Methylene chloride	ND	10	µg/L	1	11/14/2003 8:40:00 AM
Styrene	ND	5.0	µg/L	1	11/14/2003 8:40:00 AM
Tetrachloroethene	ND	5.0	µg/L	1	11/14/2003 8:40:00 AM
Toluene	8.1	5.0	µg/L	1	11/14/2003 8:40:00 AM
trans-1,3-Dichloropropene	ND	5.0	µg/L	1	11/14/2003 8:40:00 AM
Trichloroethene	ND	5.0	µg/L	1	11/14/2003 8:40:00 AM
Vinyl acetate	ND	10	µg/L	1	11/14/2003 8:40:00 AM
Vinyl chloride	ND	2.0	µg/L	1	11/14/2003 8:40:00 AM
Xylenes, Total	16	15	µg/L	1	11/14/2003 8:40:00 AM
Surr: 1,2-Dichloroethane-d4	96.2	70-130	%REC	1	11/14/2003 8:40:00 AM
Surr:4-Bromofluorobenzene	105	70-130	%REC	1	11/14/2003 8:40:00 AM
Surr:Dibromofluoromethane	99.5	70-130	%REC	1	11/14/2003 8:40:00 AM
Surr:Toluene-d8	105	70-130	%REC	1	11/14/2003 8:40:00 AM

ANIONS BY ION CHROMATOGRAPHY

E300

Analyst: **MG**

Chloride	57.9	1.00	mg/L	2	11/4/2003 3:09:00 PM
Fluoride	1.55	0.100	mg/L	1	11/4/2003 2:37:00 PM
Sulfate	1,180	50.0	mg/L	50	11/12/2003 10:08:00 PM
Nitrate/Nitrite (as N)	ND	0.100	mg/L	1	11/4/2003 2:37:00 PM
Surr: Dichloroacetic acid (surr)	91.8	80-120	%REC	1	11/4/2003 2:37:00 PM
Surr: Dichloroacetic acid (surr)	106	80-120	%REC	2	11/4/2003 3:09:00 PM
Surr: Dichloroacetic acid (surr)	106	80-120	%REC	50	11/12/2003 10:08:00 PM

ALKALINITY

E310.1

Analyst: **LMD**

Alkalinity, Bicarbonate (As CaCO3)	325	5.00	mg/L	1	11/10/2003
Alkalinity, Carbonate (As CaCO3)	ND	5.00	mg/L	1	11/10/2003
Alkalinity, Hydroxide (As CaCO3)	ND	5.00	mg/L	1	11/10/2003
Alkalinity, Total (As CaCO3)	325	5.00	mg/L	1	11/10/2003

CYANIDE, TOTAL

E335.3

Analyst: **LMD**

Cyanide	ND	0.0200	mg/L	1	11/9/2003
---------	----	--------	------	---	-----------

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time

CLIENT: Navajo Refining Company
 Work Order: 0311026
 Project: NCL/TEL
 Lab ID: 0311026-02

Client Sample ID: MW-55
 Collection Date: 11/3/2003 2:30:00 PM
 Matrix: WATER

Analyses	Result	Report Limit	Qual Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL					
		SW7470		Prep Date: 11/11/2003	Analyst: JCJ
Mercury	ND	0.000200	mg/L	1	11/12/2003 11:19:17 AM
ICP METALS, TOTAL					
		SW6020		Prep Date: 11/11/2003	Analyst: ALR
Aluminum	0.0298	0.0200	mg/L	2	11/15/2003 5:30:00 AM
Arsenic	ND	0.0100	mg/L	2	11/15/2003 5:30:00 AM
Barium	0.0129	0.0100	mg/L	2	11/15/2003 5:30:00 AM
Beryllium	ND	0.00400	mg/L	2	11/15/2003 5:30:00 AM
Boron	0.474	0.200	mg/L	10	11/14/2003 4:27:00 AM
Cadmium	ND	0.00200	mg/L	2	11/15/2003 5:30:00 AM
Calcium	405	25.0	mg/L	50	11/14/2003 9:03:00 PM
Chromium	0.00623	0.00400	mg/L	2	11/15/2003 5:30:00 AM
Cobalt	ND	0.00400	mg/L	2	11/15/2003 5:30:00 AM
Copper	0.00720	0.00400	mg/L	2	11/15/2003 5:30:00 AM
Iron	0.766	0.400	mg/L	2	11/15/2003 5:30:00 AM
Lead	ND	0.0100	mg/L	2	11/17/2003 3:43:00 PM
Magnesium	221	4.00	mg/L	20	11/17/2003 3:24:00 PM
Manganese	0.562	0.0500	mg/L	10	11/14/2003 4:27:00 AM
Nickel	0.0160	0.0100	mg/L	2	11/15/2003 5:30:00 AM
Potassium	ND	0.400	mg/L	2	11/15/2003 5:30:00 AM
Selenium	ND	0.0100	mg/L	2	11/15/2003 5:30:00 AM
Silver	ND	0.0100	mg/L	2	11/15/2003 5:30:00 AM
Sodium	170	4.00	mg/L	20	11/17/2003 3:24:00 PM
Vanadium	0.0150	0.0100	mg/L	2	11/15/2003 5:30:00 AM
Zinc	0.0178	0.0100	mg/L	2	11/15/2003 5:30:00 AM
SEMIVOLATILE ORGANICS BY GC/MS					
		SW8270		Prep Date: 11/6/2003	Analyst: RKG
1,2,4-Trichlorobenzene	ND	10	µg/L	1	11/10/2003 11:15:00 PM
2,4,5-Trichlorophenol	ND	10	µg/L	1	11/10/2003 11:15:00 PM
2,4,6-Trichlorophenol	ND	10	µg/L	1	11/10/2003 11:15:00 PM
2-Methylnaphthalene	ND	10	µg/L	1	11/10/2003 11:15:00 PM
2-Methylphenol	ND	10	µg/L	1	11/10/2003 11:15:00 PM
2-Nitroaniline	ND	10	µg/L	1	11/10/2003 11:15:00 PM
2-Nitrophenol	ND	10	µg/L	1	11/10/2003 11:15:00 PM
3-Nitroaniline	ND	10	µg/L	1	11/10/2003 11:15:00 PM
4-Methylphenol	ND	10	µg/L	1	11/10/2003 11:15:00 PM
4-Nitroaniline	ND	10	µg/L	1	11/10/2003 11:15:00 PM
4-Nitrophenol	ND	10	µg/L	1	11/10/2003 11:15:00 PM
Acenaphthene	ND	10	µg/L	1	11/10/2003 11:15:00 PM
Acenaphthylene	ND	10	µg/L	1	11/10/2003 11:15:00 PM
Aniline	ND	10	µg/L	1	11/10/2003 11:15:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level
 S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time
 AR Page 4 of 9

CLIENT: Navajo Refining Company
 Work Order: 0311026
 Project: NCL/TEL
 Lab ID: 0311026-02

Client Sample ID: MW-55
 Collection Date: 11/3/2003 2:30:00 PM
 Matrix: WATER

Analyses	Result	Report Limit	Qual Units	Dilution Factor	Date Analyzed
Anthracene	ND	10	µg/L	1	11/10/2003 11:15:00 PM
Benz(a)anthracene	ND	10	µg/L	1	11/10/2003 11:15:00 PM
Benzidine	ND	10	µg/L	1	11/10/2003 11:15:00 PM
Hexachloroethane	ND	10	µg/L	1	11/10/2003 11:15:00 PM
Indeno(1,2,3-cd)pyrene	ND	10	µg/L	1	11/10/2003 11:15:00 PM
Isophorone	ND	10	µg/L	1	11/10/2003 11:15:00 PM
N-Nitrosodi-n-propylamine	ND	10	µg/L	1	11/10/2003 11:15:00 PM
N-Nitrosodimethylamine	ND	10	µg/L	1	11/10/2003 11:15:00 PM
N-Nitrosodiphenylamine	ND	10	µg/L	1	11/10/2003 11:15:00 PM
Naphthalene	ND	10	µg/L	1	11/10/2003 11:15:00 PM
Nitrobenzene	ND	10	µg/L	1	11/10/2003 11:15:00 PM
Pentachlorophenol	ND	10	µg/L	1	11/10/2003 11:15:00 PM
Phenanthrene	ND	10	µg/L	1	11/10/2003 11:15:00 PM
Phenol	ND	10	µg/L	1	11/10/2003 11:15:00 PM
Pyrene	ND	10	µg/L	1	11/10/2003 11:15:00 PM
Surr:2,4,6-Tribromophenol	113	39-153	%REC	1	11/10/2003 11:15:00 PM
Surr:2-Fluorobiphenyl	102	40-147	%REC	1	11/10/2003 11:15:00 PM
Surr:2-Fluorophenol	53.4	21-100	%REC	1	11/10/2003 11:15:00 PM
Surr:4-Terphenyl-d14	113	39-141	%REC	1	11/10/2003 11:15:00 PM
Surr:Nitrobenzene-d5	92.1	37-140	%REC	1	11/10/2003 11:15:00 PM
Surr: Phenol-d6	35.4	11-100	%REC	1	11/10/2003 11:15:00 PM

VOLATILES BY GC/MS

SW8260

Analyst: PC

1,1,1-Trichloroethane	ND	5.0	µg/L	1	11/14/2003 9:08:00 AM
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	1	11/14/2003 9:08:00 AM
1,1,2-Trichloroethane	ND	5.0	µg/L	1	11/14/2003 9:08:00 AM
1,1-Dichloroethane	ND	5.0	µg/L	1	11/14/2003 9:08:00 AM
1,1-Dichloroethene	ND	5.0	µg/L	1	11/14/2003 9:08:00 AM
1,2-Dichloroethane	ND	5.0	µg/L	1	11/14/2003 9:08:00 AM
2-Butanone	ND	10	µg/L	1	11/14/2003 9:08:00 AM
2-Chloroethyl vinyl ether	ND	10	µg/L	1	11/14/2003 9:08:00 AM
2-Hexanone	ND	10	µg/L	1	11/14/2003 9:08:00 AM
4-Methyl-2-pentanone	ND	10	µg/L	1	11/14/2003 9:08:00 AM
Acetone	ND	10	µg/L	1	11/14/2003 9:08:00 AM
Benzene	14	5.0	µg/L	1	11/14/2003 9:08:00 AM
Bromodichloromethane	ND	5.0	µg/L	1	11/14/2003 9:08:00 AM
Bromoform	ND	5.0	µg/L	1	11/14/2003 9:08:00 AM
Bromomethane	ND	5.0	µg/L	1	11/14/2003 9:08:00 AM
Carbon disulfide	ND	10	µg/L	1	11/14/2003 9:08:00 AM
Carbon tetrachloride	ND	5.0	µg/L	1	11/14/2003 9:08:00 AM
Chlorobenzene	ND	5.0	µg/L	1	11/14/2003 9:08:00 AM

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: November 18, 2003

CLIENT: Navajo Refining Company
 Work Order: 0311026
 Project: NCL/TEL
 Lab ID: 0311026-02

Client Sample ID: MW-55
 Collection Date: 11/3/2003 2:30:00 PM
 Matrix: WATER

Analyses	Result	Report Limit	Qual Units	Dilution Factor	Date Analyzed
Chloroethane	ND	5.0	µg/L	1	11/14/2003 9:08:00 AM
Chloroform	ND	5.0	µg/L	1	11/14/2003 9:08:00 AM
Chloromethane	ND	5.0	µg/L	1	11/14/2003 9:08:00 AM
cis-1,3-Dichloropropene	ND	5.0	µg/L	1	11/14/2003 9:08:00 AM
Dibromochloromethane	ND	5.0	µg/L	1	11/14/2003 9:08:00 AM
Ethylbenzene	6.7	5.0	µg/L	1	11/14/2003 9:08:00 AM
m,p-Xylene	ND	10	µg/L	1	11/14/2003 9:08:00 AM
Methylene chloride	ND	10	µg/L	1	11/14/2003 9:08:00 AM
Styrene	ND	5.0	µg/L	1	11/14/2003 9:08:00 AM
Tetrachloroethene	ND	5.0	µg/L	1	11/14/2003 9:08:00 AM
Toluene	ND	5.0	µg/L	1	11/14/2003 9:08:00 AM
trans-1,3-Dichloropropene	ND	5.0	µg/L	1	11/14/2003 9:08:00 AM
Trichloroethene	ND	5.0	µg/L	1	11/14/2003 9:08:00 AM
Vinyl acetate	ND	10	µg/L	1	11/14/2003 9:08:00 AM
Vinyl chloride	ND	2.0	µg/L	1	11/14/2003 9:08:00 AM
Xylenes, Total	ND	15	µg/L	1	11/14/2003 9:08:00 AM
Surr: 1,2-Dichloroethane-d4	95.8	70-130	%REC	1	11/14/2003 9:08:00 AM
Surr: 4-Bromofluorobenzene	103	70-130	%REC	1	11/14/2003 9:08:00 AM
Surr: Dibromofluoromethane	99.6	70-130	%REC	1	11/14/2003 9:08:00 AM
Surr: Toluene-d8	105	70-130	%REC	1	11/14/2003 9:08:00 AM
ANIONS BY ION CHROMATOGRAPHY		E300			Analyst: MG
Chloride	268	5.00	mg/L	10	11/12/2003 10:40:00 PM
Fluoride	1.47	0.100	mg/L	1	11/4/2003 3:42:00 PM
Sulfate	1,510	100	mg/L	100	11/12/2003 11:13:00 PM
Nitrate/Nitrite (as N)	ND	0.100	mg/L	1	11/4/2003 3:42:00 PM
Surr: Dichloroacetic acid (surr)	116	80-120	%REC	1	11/4/2003 3:42:00 PM
Surr: Dichloroacetic acid (surr)	106	80-120	%REC	10	11/12/2003 10:40:00 PM
Surr: Dichloroacetic acid (surr)	113	80-120	%REC	100	11/12/2003 11:13:00 PM
ALKALINITY		E310.1			Analyst: LMD
Alkalinity, Bicarbonate (As CaCO3)	395	5.00	mg/L	1	11/10/2003
Alkalinity, Carbonate (As CaCO3)	ND	5.00	mg/L	1	11/10/2003
Alkalinity, Hydroxide (As CaCO3)	ND	5.00	mg/L	1	11/10/2003
Alkalinity, Total (As CaCO3)	395	5.00	mg/L	1	11/10/2003
CYANIDE, TOTAL		E335.3			Analyst: LMD
Cyanide	ND	0.0200	mg/L	1	11/9/2003

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time

CLIENT: Navajo Refining Company	Client Sample ID: MW-54A
Work Order: 0311026	Collection Date: 11/3/2003 3:00:00 PM
Project: NCL/TEL	
Lab ID: 0311026-03	Matrix: WATER

Analyses	Result	Report Limit	Qual Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL					
		SW7470			Prep Date: 11/11/2003 Analyst: JCJ
Mercury	ND	0.000200	mg/L	1	11/12/2003 11:20:48 AM
ICP METALS, TOTAL					
		SW6020			Prep Date: 11/11/2003 Analyst: ALR
Aluminum	0.0269	0.0200	mg/L	2	11/15/2003 5:35:00 AM
Arsenic	0.0102	0.0100	mg/L	2	11/15/2003 5:35:00 AM
Barium	0.0213	0.0100	mg/L	2	11/15/2003 5:35:00 AM
Beryllium	ND	0.00400	mg/L	2	11/15/2003 5:35:00 AM
Boron	0.274	0.200	mg/L	10	11/14/2003 4:32:00 AM
Cadmium	ND	0.00200	mg/L	2	11/15/2003 5:35:00 AM
Calcium	331	25.0	mg/L	50	11/14/2003 9:55:00 PM
Chromium	ND	0.00400	mg/L	2	11/15/2003 5:35:00 AM
Cobalt	ND	0.00400	mg/L	2	11/15/2003 5:35:00 AM
Copper	0.00434	0.00400	mg/L	2	11/15/2003 5:35:00 AM
Iron	1.03	0.400	mg/L	2	11/15/2003 5:35:00 AM
Lead	ND	0.0100	mg/L	2	11/17/2003 3:47:00 PM
Magnesium	114	2.00	mg/L	10	11/17/2003 3:29:00 PM
Manganese	0.481	0.0500	mg/L	10	11/14/2003 4:32:00 AM
Nickel	0.0102	0.0100	mg/L	2	11/15/2003 5:35:00 AM
Potassium	ND	0.400	mg/L	2	11/15/2003 5:35:00 AM
Selenium	ND	0.0100	mg/L	2	11/15/2003 5:35:00 AM
Silver	ND	0.0100	mg/L	2	11/15/2003 5:35:00 AM
Sodium	47.6	0.400	mg/L	2	11/15/2003 5:35:00 AM
Vanadium	ND	0.0100	mg/L	2	11/15/2003 5:35:00 AM
Zinc	0.0154	0.0100	mg/L	2	11/15/2003 5:35:00 AM
SEMIVOLATILE ORGANICS BY GC/MS					
		SW8270			Prep Date: 11/6/2003 Analyst: RKG
1,2,4-Trichlorobenzene	ND	10	µg/L	1	11/10/2003 11:41:00 PM
2,4,5-Trichlorophenol	ND	10	µg/L	1	11/10/2003 11:41:00 PM
2,4,6-Trichlorophenol	ND	10	µg/L	1	11/10/2003 11:41:00 PM
2-Methylnaphthalene	ND	10	µg/L	1	11/10/2003 11:41:00 PM
2-Methylphenol	ND	10	µg/L	1	11/10/2003 11:41:00 PM
2-Nitroaniline	ND	10	µg/L	1	11/10/2003 11:41:00 PM
2-Nitrophenol	ND	10	µg/L	1	11/10/2003 11:41:00 PM
3-Nitroaniline	ND	10	µg/L	1	11/10/2003 11:41:00 PM
4-Methylphenol	ND	10	µg/L	1	11/10/2003 11:41:00 PM
4-Nitroaniline	ND	10	µg/L	1	11/10/2003 11:41:00 PM
4-Nitrophenol	ND	10	µg/L	1	11/10/2003 11:41:00 PM
Acenaphthene	ND	10	µg/L	1	11/10/2003 11:41:00 PM
Acenaphthylene	ND	10	µg/L	1	11/10/2003 11:41:00 PM
Aniline	ND	10	µg/L	1	11/10/2003 11:41:00 PM

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

CLIENT: Navajo Refining Company
 Work Order: 0311026
 Project: NCL/TEL
 Lab ID: 0311026-03

Client Sample ID: MW-54A
 Collection Date: 11/3/2003 3:00:00 PM
 Matrix: WATER

Analyses	Result	Report Limit	Qual Units	Dilution Factor	Date Analyzed
Anthracene	ND	10	µg/L	1	11/10/2003 11:41:00 PM
Benz(a)anthracene	ND	10	µg/L	1	11/10/2003 11:41:00 PM
Benzidine	ND	10	µg/L	1	11/10/2003 11:41:00 PM
Hexachloroethane	ND	10	µg/L	1	11/10/2003 11:41:00 PM
Indeno(1,2,3-cd)pyrene	ND	10	µg/L	1	11/10/2003 11:41:00 PM
Isophorone	ND	10	µg/L	1	11/10/2003 11:41:00 PM
N-Nitrosodi-n-propylamine	ND	10	µg/L	1	11/10/2003 11:41:00 PM
N-Nitrosodimethylamine	ND	10	µg/L	1	11/10/2003 11:41:00 PM
N-Nitrosodiphenylamine	ND	10	µg/L	1	11/10/2003 11:41:00 PM
Naphthalene	ND	10	µg/L	1	11/10/2003 11:41:00 PM
Nitrobenzene	ND	10	µg/L	1	11/10/2003 11:41:00 PM
Pentachlorophenol	ND	10	µg/L	1	11/10/2003 11:41:00 PM
Phenanthrene	ND	10	µg/L	1	11/10/2003 11:41:00 PM
Phenol	ND	10	µg/L	1	11/10/2003 11:41:00 PM
Pyrene	ND	10	µg/L	1	11/10/2003 11:41:00 PM
Surr:2,4,6-Tribromophenol	118	39-153	%REC	1	11/10/2003 11:41:00 PM
Surr:2-Fluorobiphenyl	93.8	40-147	%REC	1	11/10/2003 11:41:00 PM
Surr:2-Fluorophenol	54.5	21-100	%REC	1	11/10/2003 11:41:00 PM
Surr:4-Terphenyl-d14	114	39-141	%REC	1	11/10/2003 11:41:00 PM
Surr:Nitrobenzene-d5	91.0	37-140	%REC	1	11/10/2003 11:41:00 PM
Surr: Phenol-d6	36.7	11-100	%REC	1	11/10/2003 11:41:00 PM

VOLATILES BY GC/MS

SW8260

Analyst: PC

1,1,1-Trichloroethane	ND	5.0	µg/L	1	11/14/2003 9:35:00 AM
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	1	11/14/2003 9:35:00 AM
1,1,2-Trichloroethane	ND	5.0	µg/L	1	11/14/2003 9:35:00 AM
1,1-Dichloroethane	ND	5.0	µg/L	1	11/14/2003 9:35:00 AM
1,1-Dichloroethene	ND	5.0	µg/L	1	11/14/2003 9:35:00 AM
1,2-Dichloroethane	ND	5.0	µg/L	1	11/14/2003 9:35:00 AM
2-Butanone	ND	10	µg/L	1	11/14/2003 9:35:00 AM
2-Chloroethyl vinyl ether	ND	10	µg/L	1	11/14/2003 9:35:00 AM
2-Hexanone	ND	10	µg/L	1	11/14/2003 9:35:00 AM
4-Methyl-2-pentanone	ND	10	µg/L	1	11/14/2003 9:35:00 AM
Acetone	ND	10	µg/L	1	11/14/2003 9:35:00 AM
Benzene	12	5.0	µg/L	1	11/14/2003 9:35:00 AM
Bromodichloromethane	ND	5.0	µg/L	1	11/14/2003 9:35:00 AM
Bromoform	ND	5.0	µg/L	1	11/14/2003 9:35:00 AM
Bromomethane	ND	5.0	µg/L	1	11/14/2003 9:35:00 AM
Carbon disulfide	ND	10	µg/L	1	11/14/2003 9:35:00 AM
Carbon tetrachloride	ND	5.0	µg/L	1	11/14/2003 9:35:00 AM
Chlorobenzene	ND	5.0	µg/L	1	11/14/2003 9:35:00 AM

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time

CLIENT: Navajo Refining Company
 Work Order: 0311026
 Project: NCL/TEL
 Lab ID: 0311026-03

Client Sample ID: MW-54A
 Collection Date: 11/3/2003 3:00:00 PM
 Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chloroethane	ND	5.0		µg/L	1	11/14/2003 9:35:00 AM
Chloroform	ND	5.0		µg/L	1	11/14/2003 9:35:00 AM
Chloromethane	ND	5.0		µg/L	1	11/14/2003 9:35:00 AM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	11/14/2003 9:35:00 AM
Dibromochloromethane	ND	5.0		µg/L	1	11/14/2003 9:35:00 AM
Ethylbenzene	6.4	5.0		µg/L	1	11/14/2003 9:35:00 AM
m,p-Xylene	ND	10		µg/L	1	11/14/2003 9:35:00 AM
Methylene chloride	ND	10		µg/L	1	11/14/2003 9:35:00 AM
Styrene	ND	5.0		µg/L	1	11/14/2003 9:35:00 AM
Tetrachloroethene	ND	5.0		µg/L	1	11/14/2003 9:35:00 AM
Toluene	ND	5.0		µg/L	1	11/14/2003 9:35:00 AM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	11/14/2003 9:35:00 AM
Trichloroethene	ND	5.0		µg/L	1	11/14/2003 9:35:00 AM
Vinyl acetate	ND	10		µg/L	1	11/14/2003 9:35:00 AM
Vinyl chloride	ND	2.0		µg/L	1	11/14/2003 9:35:00 AM
Xylenes, Total	ND	15		µg/L	1	11/14/2003 9:35:00 AM
Surr: 1,2-Dichloroethane-d4	99.1	70-130		%REC	1	11/14/2003 9:35:00 AM
Surr:4-Bromofluorobenzene	98.9	70-130		%REC	1	11/14/2003 9:35:00 AM
Surr:Dibromofluoromethane	99.7	70-130		%REC	1	11/14/2003 9:35:00 AM
Surr:Toluene-d8	102	70-130		%REC	1	11/14/2003 9:35:00 AM

ANIONS BY ION CHROMATOGRAPHY

E300

Analyst: MG

Chloride	174	5.00		mg/L	10	11/13/2003 12:50:00 AM
Fluoride	1.52	0.100		mg/L	1	11/4/2003 4:47:00 PM
Sulfate	629	20.0		mg/L	20	11/13/2003 1:23:00 AM
Nitrate/Nitrite (as N)	ND	0.100		mg/L	1	11/4/2003 4:47:00 PM
Surr: Dichloroacetic acid (surr)	93.8	80-120		%REC	1	11/4/2003 4:47:00 PM
Surr: Dichloroacetic acid (surr)	114	80-120		%REC	10	11/13/2003 12:50:00 AM
Surr: Dichloroacetic acid (surr)	111	80-120		%REC	20	11/13/2003 1:23:00 AM

ALKALINITY

E310.1

Analyst: LMD

Alkalinity, Bicarbonate (As CaCO3)	465	5.00		mg/L	1	11/10/2003
Alkalinity, Carbonate (As CaCO3)	ND	5.00		mg/L	1	11/10/2003
Alkalinity, Hydroxide (As CaCO3)	ND	5.00		mg/L	1	11/10/2003
Alkalinity, Total (As CaCO3)	465	5.00		mg/L	1	11/10/2003

CYANIDE, TOTAL

E335.3

Analyst: LMD

Cyanide	ND	0.0200		mg/L	1	11/9/2003
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Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

P - Dual Column results percent difference > 40%

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: Nov 18 2003

CLIENT: Navajo Refining Company
Work Order: 0311026
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 7173 InstrumentID: Mercury

MBLK	Sample ID: GBLKW1-111103	Test Code: SW7470	Units: mg/L	Analysis Date: 11/12/03 10:59						
Client ID:	Run ID: MERCURY_031112A	SeqNo: 393094	Prep Date: 11/11/2003	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.000062	0.00020								J

LCS	Sample ID: GLCSW1-111103	Test Code: SW7470	Units: mg/L	Analysis Date: 11/12/03 11:01						
Client ID:	Run ID: MERCURY_031112A	SeqNo: 393095	Prep Date: 11/11/2003	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00465	0.00020	0.005	0	93	83-115	0			

LCSD	Sample ID: GLCSDW1-111103	Test Code: SW7470	Units: mg/L	Analysis Date: 11/12/03 11:02						
Client ID:	Run ID: MERCURY_031112A	SeqNo: 393096	Prep Date: 11/11/2003	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00486	0.00020	0.005	0	97.2	83-115	0.00465	4.42	20	

MS	Sample ID: 0311048-02AMS	Test Code: SW7470	Units: mg/L	Analysis Date: 11/12/03 11:07						
Client ID:	Run ID: MERCURY_031112A	SeqNo: 393099	Prep Date: 11/11/2003	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00504	0.00020	0.005	0.00007	99.4	70-124	0			

MSD	Sample ID: 0311048-02AMSD	Test Code: SW7470	Units: mg/L	Analysis Date: 11/12/03 11:08						
Client ID:	Run ID: MERCURY_031112A	SeqNo: 393100	Prep Date: 11/11/2003	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.005	0.00020	0.005	0.00007	98.6	70-124	0.00504	0.797	20	

DUP	Sample ID: 0311048-02ADUP	Test Code: SW7470	Units: mg/L	Analysis Date: 11/12/03 11:05						
Client ID:	Run ID: MERCURY_031112A	SeqNo: 393098	Prep Date: 11/11/2003	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.000056	0.00020	0	0	0	0-0	0.00007	0	20	J

The following samples were reanalyzed in this batch: 0311026-01C 0311026-02C 0311026-03C

ND - Not Detected at the Reporting Limit
 S - Spike Recovery outside accepted recovery limits
 B - Analyte detected in assoc. Method Blank
 - Analyte detected below quantitation limits
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 U - Analyzed for but not detected
 O - Referenced analyte value is > 4 times amount spiked
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0311026
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: 7180 InstrumentID: ICP4500

MBLK		Sample ID: MBLKW4-111103		Test Code: SW6020		Units: mg/L		Analysis Date: 11/14/03 4:09		
Client ID:		Run ID: ICP4500_031113A		SeqNo: 394381		Prep Date: 11/11/2003		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	ND	0.010								
Arsenic	ND	0.0050								
Beryllium	ND	0.0020								
Boron	ND	0.020								
Calcium	0.2061	0.50								J
Chromium	ND	0.0020								
Cobalt	ND	0.0020								
Copper	0.0003364	0.0020								J
Iron	ND	0.20								
Magnesium	0.09814	0.20								J
Manganese	ND	0.0050								
Nickel	ND	0.0050								
Potassium	ND	0.20								
Selenium	ND	0.0050								
Sodium	0.04632	0.20								J
Vanadium	ND	0.0050								
Zinc	0.001508	0.0050								J

MBLK		Sample ID: MBLKW4-111103		Test Code: SW6020		Units: mg/L		Analysis Date: 11/15/03 5:12		
Client ID:		Run ID: ICP4500_031114A		SeqNo: 394695		Prep Date: 11/11/2003		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Barium	ND	0.0050								
Cadmium	ND	0.0010								
Silver	ND	0.0050								

MBLK		Sample ID: MBLKW4-111103		Test Code: SW6020		Units: mg/L		Analysis Date: 11/17/03 14:58		
Client ID:		Run ID: ICP4500_031117A		SeqNo: 394889		Prep Date: 11/11/2003		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Lead	ND	0.0050								

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 P - Dual Column results percent difference > 40%
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CLIENT: Navajo Refining Company
 Work Order: 0311026
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: 7180 InstrumentID: ICP4500

LCS Sample ID: MLC5W4-111103 Test Code: SW6020 Units: mg/L Analysis Date: 11/14/03 4:14

Client ID: Run ID: ICP4500_031113A SeqNo: 394382 Prep Date: 11/11/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1033	0.010	0.1	0	103	80-120	0			
Arsenic	0.1004	0.0050	0.1	0	100	80-120	0			
Beryllium	0.09671	0.0020	0.1	0	96.7	80-120	0			
Boron	0.4727	0.020	0.5	0	94.5	80-120	0			
Calcium	10.33	0.50	10	0	103	80-120	0			
Chromium	0.09543	0.0020	0.1	0	95.4	80-120	0			
Cobalt	0.09773	0.0020	0.1	0	97.7	80-120	0			
Copper	0.09685	0.0020	0.1	0	96.8	80-120	0			
Iron	9.591	0.20	10	0	95.9	80-120	0			
Magnesium	11.6	0.20	10	0	116	80-120	0			
Manganese	0.09401	0.0050	0.1	0	94	80-120	0			
Nickel	0.09798	0.0050	0.1	0	98	80-120	0			
Potassium	11.03	0.20	10	0	110	80-120	0			
Selenium	0.09391	0.0050	0.1	0	93.9	80-120	0			
Sodium	11.35	0.20	10	0	114	80-120	0			
Vanadium	0.09767	0.0050	0.1	0	97.7	80-120	0			
Zinc	0.09488	0.0050	0.1	0	94.9	80-120	0			

LCS Sample ID: MLC5W4-111103 Test Code: SW6020 Units: mg/L Analysis Date: 11/15/03 5:16

Client ID: Run ID: ICP4500_031114A SeqNo: 394696 Prep Date: 11/11/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Barium	0.09796	0.0050	0.1	0	98	80-120	0			
Cadmium	0.09807	0.0010	0.1	0	98.1	80-120	0			
Silver	0.09815	0.0050	0.1	0	98.1	80-120	0			

LCS Sample ID: MLC5W4-111103 Test Code: SW6020 Units: mg/L Analysis Date: 11/17/03 15:02

Client ID: Run ID: ICP4500_031117A SeqNo: 394890 Prep Date: 11/11/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Lead	0.1013	0.0050	0.1	0	101	80-120	0			

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E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0311026
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: 7180 InstrumentID: ICP4500

MS		Sample ID: 0311039-01CMS			Test Code: SW6020		Units: mg/L		Analysis Date: 11/15/03 9:14		
Client ID:		Run ID: ICP4500_031114A			SeqNo: 394780		Prep Date: 11/11/2003		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Barium	0.6078	0.0050	0.1	0.4774	130	75-125	0			SEO	
Beryllium	0.09619	0.0020	0.1	0.0000298	96.2	75-125	0				
Boron	0.7434	0.020	0.5	0.2141	106	75-125	0				
Cadmium	0.08297	0.0010	0.1	0.0006069	82.4	75-125	0				
Calcium	222	0.50	10	212.8	92	75-125	0			EO	
Chromium	0.1265	0.0020	0.1	0.01152	115	75-125	0				
Cobalt	0.1109	0.0020	0.1	0.002498	108	75-125	0				
Iron	12.11	0.20	10	1.279	108	75-125	0				
Lead	0.1154	0.0050	0.1	0.0009995	114	75-125	0				
Magnesium	ND	0.20	10	115.2	-1150	75-125	0			SO	
Manganese	3.263	0.0050	0.1	0.7633	2500	75-125	0			SEO	
Potassium	58.58	0.20	10	47.44	111	75-125	0			EO	
Silver	0.08395	0.0050	0.1	0.00003543	83.9	75-125	0				
Sodium	ND	0.20	10	0	0	75-125	0			S	
Vanadium	0.1513	0.0050	0.1	0.02525	126	75-125	0			S	

MS		Sample ID: 0311039-01CMS			Test Code: SW6020		Units: mg/L		Analysis Date: 11/17/03 16:37		
Client ID:		Run ID: ICP4500_031117A			SeqNo: 394973		Prep Date: 11/11/2003		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Aluminum	0.1195	0.010	0.1	0.009834	110	75-125	0				
Arsenic	0.1066	0.0050	0.1	0.009865	96.7	75-125	0				
Copper	0.09265	0.0020	0.1	0.003758	88.9	75-125	0				
Nickel	0.114	0.0050	0.1	0.02208	91.9	75-125	0				
Selenium	0.06063	0.0050	0.1	0.008356	52.3	75-125	0			S	
Zinc	0.09584	0.0050	0.1	0.01923	76.6	75-125	0				

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CLIENT: Navajo Refining Company
 Work Order: 0311026
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: 7180 InstrumentID: ICP4500

MSD		Sample ID: 0311039-01CMSD			Test Code: SW6020		Units: mg/L		Analysis Date: 11/15/03 9:19		
Client ID:		Run ID: ICP4500_031114A			SeqNo: 394781		Prep Date: 11/11/2003		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Barium	0.5996	0.0050	0.1	0.4774	122	75-125	0.6078	1.36	25	EO	
Beryllium	0.0971	0.0020	0.1	0.0000298	97.1	75-125	0.09619	0.942	25		
Boron	0.7664	0.020	0.5	0.2141	110	75-125	0.7434	3.05	25		
Cadmium	0.08231	0.0010	0.1	0.0006069	81.7	75-125	0.08297	0.799	25		
Calcium	218.9	0.50	10	212.8	61	75-125	222	1.41	25	SEO	
Chromium	0.1252	0.0020	0.1	0.01152	114	75-125	0.1265	1.03	25		
Cobalt	0.1137	0.0020	0.1	0.002498	111	75-125	0.1109	2.49	25		
Iron	45.86	0.20	10	1.279	446	75-125	12.11	116	25	SR	
Lead	0.1136	0.0050	0.1	0.0009995	113	75-125	0.1154	1.57	25		
Magnesium	122.4	0.20	10	115.2	72	75-125	0	200	25	SREO	
Manganese	3.229	0.0050	0.1	0.7633	2470	75-125	3.263	1.05	25	SEO	
Potassium	58.28	0.20	10	47.44	108	75-125	58.58	0.513	25	EO	
Silver	0.08309	0.0050	0.1	0.000003543	83.1	75-125	0.08395	1.03	25		
Sodium	ND	0.20	10	0	0	75-125	0	0	25	S	
Vanadium	0.1466	0.0050	0.1	0.02525	121	75-125	0.1513	3.16	25		

MSD		Sample ID: 0311039-01CMSD			Test Code: SW6020		Units: mg/L		Analysis Date: 11/17/03 16:42		
Client ID:		Run ID: ICP4500_031117A			SeqNo: 394974		Prep Date: 11/11/2003		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Aluminum	0.1199	0.010	0.1	0.009834	110	75-125	0.1195	0.334	25		
Arsenic	0.1077	0.0050	0.1	0.009865	97.8	75-125	0.1066	1.03	25		
Copper	0.09343	0.0020	0.1	0.003758	89.7	75-125	0.09265	0.838	25		
Nickel	0.1151	0.0050	0.1	0.02208	93	75-125	0.114	0.96	25		
Selenium	0.06219	0.0050	0.1	0.008356	53.8	75-125	0.06063	2.54	25	S	
Zinc	0.09686	0.0050	0.1	0.01923	77.6	75-125	0.09584	1.06	25		

DUP		Sample ID: 0311039-01CDUP			Test Code: SW6020		Units: mg/L		Analysis Date: 11/14/03 20:45		
Client ID:		Run ID: ICP4500_031114A			SeqNo: 394562		Prep Date: 11/11/2003		DF: 10		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Barium	0.4399	0.050	0	0	0	0-0	0.4557	3.53	25		
Calcium	186.5	5.0	0	0	0	0-0	186.9	0.214	25		
Manganese	0.6776	0.050	0	0	0	0-0	0.6738	0.562	25		

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CLIENT: Navajo Refining Company
 Work Order: 0311026
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: 7180 InstrumentID: ICP4500

DUP Sample ID: 0311039-01CDUP Test Code: SW6020 Units: mg/L Analysis Date: 11/15/03 9:09
 Client ID: Run ID: ICP4500_031114A SeqNo: 394779 Prep Date: 11/11/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Beryllium	ND	0.0020	0	0	0	0-0	0.0000298	0	25	
Boron	0.2113	0.020	0	0	0	0-0	0.2141	1.32	25	
Cadmium	0.0003926	0.0010	0	0	0	0-0	0.0006069	0	25	J
Chromium	0.01132	0.0020	0	0	0	0-0	0.01152	1.75	25	
Cobalt	0.002486	0.0020	0	0	0	0-0	0.002498	0.482	25	
Iron	1.287	0.20	0	0	0	0-0	1.279	0.624	25	
Lead	0.0009814	0.0050	0	0	0	0-0	0.0009995	0	25	J
Potassium	47.19	0.20	0	0	0	0-0	47.44	0.528	25	
Silver	ND	0.0050	0	0	0	0-0	0.000003543	0	25	
Sodium	ND	0.20	0	0	0	0-0	0	0	25	
Vanadium	0.02465	0.0050	0	0	0	0-0	0.02525	2.4	25	

DUP Sample ID: 0311039-01CDUP Test Code: SW6020 Units: mg/L Analysis Date: 11/17/03 15:56
 Client ID: Run ID: ICP4500_031117A SeqNo: 394909 Prep Date: 11/11/2003 DF: 10

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Magnesium	110.7	2.0	0	0	0	0-0	102	8.18	25	

DUP Sample ID: 0311039-01CDUP Test Code: SW6020 Units: mg/L Analysis Date: 11/17/03 16:19
 Client ID: Run ID: ICP4500_031117A SeqNo: 394969 Prep Date: 11/11/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.00958	0.010	0	0	0	0-0	0.009834	0	25	J
Arsenic	0.01064	0.0050	0	0	0	0-0	0.009865	7.56	25	
Copper	0.003693	0.0020	0	0	0	0-0	0.003758	1.74	25	
Nickel	0.0201	0.0050	0	0	0	0-0	0.02208	9.39	25	
Selenium	0.004854	0.0050	0	0	0	0-0	0.008356	0	25	J
Zinc	0.01913	0.0050	0	0	0	0-0	0.01923	0.521	25	

The following samples were analyzed in this batch: 0311026-01C 0311026-02C 0311026-03C

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CLIENT: Navajo Refining Company
 Work Order: 0311026
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: 7142 InstrumentID: SV-2

MBLK Sample ID: SBLKW1-031106 Test Code: SW8270 Units: µg/L Analysis Date: 11/10/03 14:28
 Client ID: Run ID: SV-2_031107A SeqNo: 392165 Prep Date: 11/6/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	ND	10								
2,4,5-Trichlorophenol	ND	10								
2,4,6-Trichlorophenol	ND	10								
2-Methylnaphthalene	ND	10								
2-Methylphenol	ND	10								
2-Nitroaniline	ND	10								
2-Nitrophenol	ND	10								
3-Nitroaniline	ND	10								
4-Methylphenol	ND	10								
4-Nitroaniline	ND	10								
4-Nitrophenol	ND	10								
Acenaphthene	ND	10								
Acenaphthylene	ND	10								
Aniline	ND	10								
Anthracene	ND	10								
Benz(a)anthracene	ND	10								
Benidine	ND	10								
Hexachloroethane	ND	10								
Indeno(1,2,3-cd)pyrene	ND	10								
Isophorone	ND	10								
N-Nitrosodi-n-propylamine	ND	10								
N-Nitrosodimethylamine	ND	10								
N-Nitrosodiphenylamine	ND	10								
Naphthalene	ND	10								
Nitrobenzene	ND	10								
Pentachlorophenol	ND	10								
Phenanthrene	ND	10								
Phenol	ND	10								
Pyrene	ND	10								
1,4-Dichlorobenzene-d4	40	0								
Acenaphthene-d10	40	0								
Chrysene-d12	40	0								
Naphthalene-d8	40	0								
Perylene-d12	40	0								
Phenanthrene-d10	40	0								
Surr: 2,4,6-Tribromophenol	104.6	0	100	0	105	39-153		0		
Surr: 2-Fluorobiphenyl	93.57	0	100	0	93.6	40-147		0		
Surr: 2-Fluorophenol	62.9	0	100	0	62.9	21-100		0		
Surr: 4-Terphenyl-d14	116.4	0	100	0	116	39-141		0		
Surr: Nitrobenzene-d5	91.16	0	100	0	91.2	37-140		0		
Surr: Phenol-d6	44.4	0	100	0	44.4	11-100		0		

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CLIENT: Navajo Refining Company
 Work Order: 0311026
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: 7142 InstrumentID: SV-2

LCS Sample ID: SLCSW1-031106 Test Code: SW8270 Units: µg/L Analysis Date: 11/10/03 14:54

Client ID: Run ID: SV-2_031107A SeqNo: 392166 Prep Date: 11/6/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	48.63	10	50	0	97.3	50-115	0	0		
2,4,5-Trichlorophenol	109.7	10	100	0	110	72-118	0	0		
2,4,6-Trichlorophenol	106.9	10	100	0	107	72-117	0	0		
2-Methylnaphthalene	47.95	10	50	0	95.9	47-122	0	0		
2-Methylphenol	90.4	10	100	0	90.4	51-115	0	0		
2-Nitroaniline	54.9	10	50	0	110	73-119	0	0		
2-Nitrophenol	99.25	10	100	0	99.2	60-119	0	0		
3-Nitroaniline	53.05	10	50	0	106	61-118	0	0		
4-Methylphenol	129.3	10	150	0	86.2	44-115	0	0		
4-Nitroaniline	54.36	10	50	0	109	61-123	0	0		
4-Nitrophenol	54.04	10	100	0	54	17-100	0	0		
Acenaphthene	51.75	10	50	0	104	68-115	0	0		
Acenaphthylene	50.62	10	50	0	101	67-116	0	0		
Aniline	41.56	10	50	0	83.1	40-130	0	0		
Anthracene	57.61	10	50	0	115	72-124	0	0		
Benz(a)anthracene	53.45	10	50	0	107	55-131	0	0		
Benzidine	29.01	10	50	0	58	10-115	0	0		
Hexachloroethane	47.91	10	50	0	95.8	46-115	0	0		
Indeno(1,2,3-cd)pyrene	47.19	10	50	0	94.4	42-123	0	0		
Isophorone	53.79	10	50	0	108	63-117	0	0		
N-Nitrosodi-n-propylamine	51.21	10	50	0	102	67-115	0	0		
N-Nitrosodimethylamine	31.12	10	50	0	62.2	28-115	0	0		
N-Nitrosodiphenylamine	64.12	10	50	0	128	72-144	0	0		
Naphthalene	48.39	10	50	0	96.8	52-115	0	0		
Nitrobenzene	50.97	10	50	0	102	65-115	0	0		
Pentachlorophenol	121.6	10	100	0	122	65-123	0	0		
Phenanthrene	55.62	10	50	0	111	69-119	0	0		
Phenol	51.92	10	100	0	51.9	16-115	0	0		
Pyrene	54.85	10	50	0	110	51-130	0	0		
Surr: 2,4,6-Tribromophenol	121.7	0	100	0	122	39-153	0	0		
Surr: 2-Fluorobiphenyl	103	0	100	0	103	40-147	0	0		
Surr: 2-Fluorophenol	69.65	0	100	0	69.7	21-100	0	0		
Surr:4-Terphenyl-d14	117.2	0	100	0	117	39-141	0	0		
Surr: Nitrobenzene-d5	99.93	0	100	0	99.9	37-140	0	0		
Surr: Phenol-d6	46.61	0	100	0	46.6	11-100	0	0		

ND - Not Detected at the Reporting Limit

- Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0311026
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: 7142 InstrumentID: SV-2

MS Sample ID: 0311031-01DMS Test Code: SW8270 Units: µg/L Analysis Date: 11/10/03 15:47
 Client ID: Run ID: SV-2_031107A SeqNo: 392809 Prep Date: 11/6/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	41.27	10	50	0	82.5	45-115	0			
2,4,5-Trichlorophenol	94.49	10	100	0	94.5	47-129	0			
2,4,6-Trichlorophenol	88.34	10	100	0	88.3	45-127	0			
2-Methylnaphthalene	42.97	10	50	0	85.9	30-144	0			
2-Methylphenol	66.97	10	100	0	67	42-115	0			
2-Nitroaniline	52.35	10	50	0	105	48-129	0			
2-Nitrophenol	83.78	10	100	0	83.8	32-144	0			
3-Nitroaniline	49.61	10	50	0	99.2	23-122	0			
4-Methylphenol	90.21	10	150	0	60.1	35-115	0			
4-Nitroaniline	49.91	10	50	0	99.8	12-138	0			
4-Nitrophenol	28.6	10	100	0	28.6	10-80	0			
Acenaphthene	48.97	10	50	0	97.9	55-117	0			
Acenaphthylene	48.07	10	50	0	96.1	39-128	0			
Aniline	35.41	10	50	0	70.8	40-130	0			
Anthracene	53.89	10	50	0	108	58-129	0			
Benz(a)anthracene	50.68	10	50	0	101	42-135	0			
Benzidine	8.772	10	50	0	17.5	10-127	0			J
Hexachloroethane	34.93	10	50	0	69.9	45-115	0			
Indeno(1,2,3-cd)pyrene	44.2	10	50	0	88.4	32-132	0			
Isophorone	50.15	10	50	0	100	51-122	0			
N-Nitrosodi-n-propylamine	46.65	10	50	0	93.3	55-115	0			
N-Nitrosodimethylamine	25.71	10	50	0	51.4	30-115	0			
N-Nitrosodiphenylamine	59.88	10	50	0	120	47-146	0			
Naphthalene	43	10	50	0	86	46-116	0			
Nitrobenzene	45.39	10	50	0	90.8	48-126	0			
Pentachlorophenol	93.85	10	100	0	93.9	53-134	0			
Phenanthrene	51.95	10	50	0	104	57-123	0			
Phenol	31.36	10	100	0	31.4	10-115	0			
Pyrene	51.42	10	50	0	103	40-130	0			
Surr: 2,4,6-Tribromophenol	104.9	0	100	0	105	39-153	0			
Surr: 2-Fluorobiphenyl	95.18	0	100	0	95.2	40-147	0			
Surr: 2-Fluorophenol	38.68	0	100	0	38.7	21-100	0			
Surr:4-Terphenyl-d14	109.4	0	100	0	109	39-141	0			
Surr: Nitrobenzene-d5	89.11	0	100	0	89.1	37-140	0			
Surr: Phenol-d6	26.79	0	100	0	26.8	11-100	0			

ND - Not Detected at the Reporting Limit

- Analyte detected below quantitation limits

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R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0311026
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: 7142 InstrumentID: SV-2

MSD Sample ID: 0311031-01DMSD Test Code: SW8270 Units: µg/L Analysis Date: 11/10/03 16:13
 Client ID: Run ID: SV-2_031107A SeqNo: 392810 Prep Date: 11/6/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	41.16	10	50	0	82.3	45-115	41.27	0.263	30	
2,4,5-Trichlorophenol	97.41	10	100	0	97.4	47-129	94.49	3.04	30	
2,4,6-Trichlorophenol	94.39	10	100	0	94.4	45-127	88.34	6.62	30	
2-Methylnaphthalene	43	10	50	0	86	30-144	42.97	0.0669	30	
2-Methylphenol	71.74	10	100	0	71.7	42-115	66.97	6.87	30	
2-Nitroaniline	51.58	10	50	0	103	48-129	52.35	1.47	30	
2-Nitrophenol	87.87	10	100	0	87.9	32-144	83.78	4.76	30	
3-Nitroaniline	49.43	10	50	0	98.9	23-122	49.61	0.359	30	
4-Methylphenol	98.83	10	150	0	65.9	35-115	90.21	9.12	30	
4-Nitroaniline	50.96	10	50	0	102	12-138	49.91	2.08	30	
4-Nitrophenol	34.92	10	100	0	34.9	10-80	28.6	19.9	30	
Acenaphthene	47.99	10	50	0	96	55-117	48.97	2.03	30	
Acenaphthylene	47.31	10	50	0	94.6	39-128	48.07	1.6	30	
Aniline	36.64	10	50	0	73.3	40-130	35.41	3.42	30	
Anthracene	53.69	10	50	0	107	58-129	53.89	0.373	30	
Benz(a)anthracene	50.37	10	50	0	101	42-135	50.68	0.615	30	
Benzidine	10.38	10	50	0	20.8	10-127	8.772	16.8	30	
Hexachloroethane	36.05	10	50	0	72.1	45-115	34.93	3.16	30	
Indeno(1,2,3-cd)pyrene	46.07	10	50	0	92.1	32-132	44.2	4.15	30	
Isophorone	51.2	10	50	0	102	51-122	50.15	2.07	30	
N-Nitrosodi-n-propylamine	46.7	10	50	0	93.4	55-115	46.65	0.112	30	
N-Nitrosodimethylamine	26.87	10	50	0	53.7	30-115	25.71	4.43	30	
N-Nitrosodiphenylamine	59.86	10	50	0	120	47-146	59.88	0.022	30	
Naphthalene	42.93	10	50	0	85.9	46-116	43	0.171	30	
Nitrobenzene	45.48	10	50	0	91	48-126	45.39	0.198	30	
Pentachlorophenol	102.4	10	100	0	102	53-134	93.85	8.73	30	
Phenanthrene	51.46	10	50	0	103	57-123	51.95	0.946	30	
Phenol	36.72	10	100	0	36.7	10-115	31.36	15.8	30	
Pyrene	50.55	10	50	0	101	40-130	51.42	1.69	30	
Surr: 2,4,6-Tribromophenol	107.4	0	100	0	107	39-153	104.9	2.38	30	
Surr: 2-Fluorobiphenyl	95.72	0	100	0	95.7	40-147	95.18	0.561	30	
Surr: 2-Fluorophenol	45.85	0	100	0	45.8	21-100	38.68	17	30	
Surr: 4-Terphenyl-d14	108.7	0	100	0	109	39-141	109.4	0.612	30	
Surr: Nitrobenzene-d5	89.95	0	100	0	89.9	37-140	89.11	0.934	30	
Surr: Phenol-d6	31.92	0	100	0	31.9	11-100	26.79	17.5	30	

The following samples were analyzed in this batch:

0311026-01E 0311026-02E 0311026-03E

ND - Not Detected at the Reporting Limit

- Analyte detected below quantitation limits

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E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0311026
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: R17237 InstrumentID: VOA_I

MBLK Sample ID: VBLKW-1113 Test Code: SW8260 Units: µg/L Analysis Date: 11/14/03 2:07
 Client ID: Run ID: VOA_I_031113B SeqNo: 394185 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	ND	5.0								
1,1,2,2-Tetrachloroethane	ND	5.0								
1,1,2-Trichloroethane	ND	5.0								
1,1-Dichloroethane	ND	5.0								
1,1-Dichloroethene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
2-Butanone	ND	10								
2-Chloroethyl vinyl ether	ND	10								
2-Hexanone	ND	10								
4-Methyl-2-pentanone	ND	10								
Acetone	ND	10								
Benzene	ND	5.0								
Bromodichloromethane	ND	5.0								
Bromoform	ND	5.0								
Bromomethane	ND	5.0								
Carbon disulfide	ND	10								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroethane	ND	5.0								
Chloroform	ND	5.0								
Chloromethane	ND	5.0								
cis-1,3-Dichloropropene	ND	5.0								
Dibromochloromethane	ND	5.0								
Ethylbenzene	ND	5.0								
m,p-Xylene	ND	10								
Methylene chloride	ND	10								
Styrene	ND	5.0								
Tetrachloroethene	ND	5.0								
Toluene	ND	5.0								
trans-1,3-Dichloropropene	ND	5.0								
Trichloroethene	ND	5.0								
Vinylacetate	ND	10								
Vinyl chloride	ND	2.0								
Xylenes, Total	ND	15								
Surr:1,2-Dichloroethane-d4	49.12	5.0	50	0	98.2	70-130	0			
Surr:4-Bromofluorobenzene	49.37	5.0	50	0	98.7	70-130	0			
Surr:Dibromofluoromethane	50.27	5.0	50	0	101	70-130	0			
Surr:Toluene-d8	51.8	5.0	50	0	104	70-130	0			

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CLIENT: Navajo Refining Company
 Work Order: 0311026
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: R17237 InstrumentID: VOA_I

LCS Sample ID: VLCSW-1113 Test Code: SW8260 Units: µg/L Analysis Date: 11/14/03 0:43

Client ID: Run ID: VOA_I_031113B SeqNo: 394183 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	51.58	5.0	50	0	103	75-118	0			
1,1,2,2-Tetrachloroethane	48.68	5.0	50	0	97.4	79-120	0			
1,1,2-Trichloroethane	51.06	5.0	50	0	102	81-119	0			
1,1-Dichloroethane	52.15	5.0	50	0	104	80-120	0			
1,1-Dichloroethene	49.72	5.0	50	0	99.4	80-120	0			
1,2-Dichloroethane	50.8	5.0	50	0	102	80-120	0			
2-Butanone	97.24	10	100	0	97.2	70-130	0			
2-Chloroethyl vinyl ether	85.03	10	100	0	85	72-120	0			
2-Hexanone	73.8	10	100	0	73.8	70-130	0			
4-Methyl-2-pentanone	89.83	10	100	0	89.8	78-120	0			
Acetone	103.8	10	100	0	104	60-135	0			
Benzene	52.19	5.0	50	0	104	82-119	0			
Bromodichloromethane	52.06	5.0	50	0	104	81-119	0			
Bromoform	48.44	5.0	50	0	96.9	80-120	0			
Bromomethane	57.54	5.0	50	0	115	75-130	0			
Carbon disulfide	103	10	100	0	103	78-120	0			
Carbon tetrachloride	50.92	5.0	50	0	102	77-120	0			
Chlorobenzene	48.59	5.0	50	0	97.2	82-118	0			
Chloroethane	52.89	5.0	50	0	106	78-122	0			
Chloroform	52.13	5.0	50	0	104	78-120	0			
Chloromethane	54.62	5.0	50	0	109	75-125	0			
cis-1,3-Dichloropropene	53.08	5.0	50	0	106	81-120	0			
Dibromochloromethane	49.98	5.0	50	0	100	81-118	0			
Ethylbenzene	51.3	5.0	50	0	103	82-120	0			
m,p-Xylene	101.1	10	100	0	101	82-122	0			
Methylene chloride	49.78	10	50	0	99.6	80-122	0			
Styrene	52.89	5.0	50	0	106	82-121	0			
Tetrachloroethene	49.31	5.0	50	0	98.6	79-118	0			
Toluene	50.41	5.0	50	0	101	81-119	0			
trans-1,3-Dichloropropene	52.81	5.0	50	0	106	82-121	0			
Trichloroethene	52.51	5.0	50	0	105	78-118	0			
Vinylacetate	96.46	10	100	0	96.5	75-120	0			
Vinyl chloride	53.16	2.0	50	0	106	73-127	0			
Xylenes, Total	152.9	15	150	0	102	80-120	0			
Surr: 1,2-Dichloroethane-d4	47.43	5.0	50	0	94.9	70-130	0			
Surr: 4-Bromofluorobenzene	51.07	5.0	50	0	102	70-130	0			
Surr: Dibromofluoromethane	48.72	5.0	50	0	97.4	70-130	0			
Surr: Toluene-d8	49.98	5.0	50	0	100	70-130	0			

ND - Not Detected at the Reporting Limit

● Analyte detected below quantitation limits

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B - Analyte detected in assoc. Method Blank

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E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0311026
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: R17237 InstrumentID: VOA_I

LCSD Sample ID: VLCSWD-1113 Test Code: SW8260 Units: µg/L Analysis Date: 11/14/03 1:11

Client ID: Run ID: VOA_I_031113B SeqNo: 394184 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	51.65	5.0	50	0	103	75-118	51.58	0.138	20	
1,1,2,2-Tetrachloroethane	50.9	5.0	50	0	102	79-120	48.68	4.44	20	
1,1,2-Trichloroethane	52.73	5.0	50	0	105	81-119	51.06	3.22	20	
1,1-Dichloroethane	53.01	5.0	50	0	106	80-120	52.15	1.64	20	
1,1-Dichloroethene	50.07	5.0	50	0	100	80-120	49.72	0.693	20	
1,2-Dichloroethane	51.4	5.0	50	0	103	80-120	50.8	1.18	20	
2-Butanone	107.6	10	100	0	108	70-130	97.24	10.1	20	
2-Chloroethyl vinyl ether	93.58	10	100	0	93.6	72-120	85.03	9.57	20	
2-Hexanone	74.34	10	100	0	74.3	70-130	73.8	0.727	20	
4-Methyl-2-pentanone	99.91	10	100	0	99.9	78-120	89.83	10.6	20	
Acetone	114.6	10	100	0	115	60-135	103.8	9.91	20	
Benzene	52.83	5.0	50	0	106	82-119	52.19	1.23	20	
Bromodichloromethane	52.31	5.0	50	0	105	81-119	52.06	0.487	20	
Bromoform	50.79	5.0	50	0	102	80-120	48.44	4.72	20	
Bromomethane	59.16	5.0	50	0	118	75-130	57.54	2.76	20	
Carbon disulfide	103.6	10	100	0	104	78-120	103	0.562	20	
Carbon tetrachloride	49.23	5.0	50	0	98.5	77-120	50.92	3.37	20	
Chlorobenzene	50.01	5.0	50	0	100	82-118	48.59	2.87	20	
Chloroethane	53.38	5.0	50	0	107	78-122	52.89	0.933	20	
Chloroform	52.94	5.0	50	0	106	78-120	52.13	1.54	20	
Chloromethane	56	5.0	50	0	112	75-125	54.62	2.5	20	
cis-1,3-Dichloropropene	53.84	5.0	50	0	108	81-120	53.08	1.42	20	
Dibromochloromethane	51.7	5.0	50	0	103	81-118	49.98	3.4	20	
Ethylbenzene	51.91	5.0	50	0	104	82-120	51.3	1.18	20	
m,p-Xylene	102.3	10	100	0	102	82-122	101.1	1.15	20	
Methylene chloride	51.64	10	50	0	103	80-122	49.78	3.65	20	
Styrene	53.91	5.0	50	0	108	82-121	52.89	1.91	20	
Tetrachloroethene	48.69	5.0	50	0	97.4	79-118	49.31	1.28	20	
Toluene	51.56	5.0	50	0	103	81-119	50.41	2.25	20	
trans-1,3-Dichloropropene	53.7	5.0	50	0	107	82-121	52.81	1.67	20	
Trichloroethene	53.17	5.0	50	0	106	78-118	52.51	1.26	20	
Vinylacetate	95.57	10	100	0	95.6	75-120	96.46	0.925	20	
Vinyl chloride	54.71	2.0	50	0	109	73-127	53.16	2.87	20	
Xylenes, Total	154.4	15	150	0	103	80-120	152.9	0.934	20	
Surr:1,2-Dichloroethane-d4	48.89	5.0	50	0	97.8	70-130	47.43	3.03	20	
Surr:4-Bromofluorobenzene	52.01	5.0	50	0	104	70-130	51.07	1.82	20	
Surr:Dibromofluoromethane	49.5	5.0	50	0	99	70-130	48.72	1.59	20	
Surr:Toluene-d8	50.84	5.0	50	0	102	70-130	49.98	1.69	20	

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CLIENT: Navajo Refining Company
 Work Order: 0311026
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: R17237 InstrumentID: VOA_I

MS	Sample ID: 0311045-05AMS	Test Code: SW8260	Units: µg/L	Analysis Date: 11/14/03 3:04						
Client ID:	Run ID: VOA_I_031113B	SeqNo: 394187	Prep Date:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	53.94	5.0	50	0	108	75-125	0			
1,1,2,2-Tetrachloroethane	60.7	5.0	50	0	121	75-125	0			
1,1,2-Trichloroethane	61.79	5.0	50	0	124	75-125	0			
1,1-Dichloroethane	58.42	5.0	50	0	117	75-125	0			
1,1-Dichloroethene	49.81	5.0	50	0	99.6	65-130	0			
1,2-Dichloroethane	61.4	5.0	50	0	123	70-130	0			
2-Butanone	117.9	10	100	0	118	64-128	0			
2-Chloroethyl vinyl ether	ND	10	100	0	0	75-125	0			S
2-Hexanone	76.24	10	100	0	76.2	72-124	0			
4-Methyl-2-pentanone	118.9	10	100	0	119	75-125	0			
Acetone	119.5	10	100	0	120	60-130	0			
Benzene	72.04	5.0	50	17.49	109	76-127	0			
Bromodichloromethane	62.47	5.0	50	0	125	75-125	0			
Bromoform	60.11	5.0	50	0	120	75-125	0			
Bromomethane	64.1	5.0	50	0	128	75-125	0			S
Carbon disulfide	105.6	10	100	0	106	75-125	0			
Carbon tetrachloride	51.5	5.0	50	0	103	70-130	0			
Chlorobenzene	133.7	5.0	50	75.38	117	75-126	0			
Chloroethane	55.3	5.0	50	0	111	70-130	0			
Chloroform	60.22	5.0	50	0	120	75-125	0			
Chloromethane	55.17	5.0	50	0	110	75-125	0			
cis-1,3-Dichloropropene	61.25	5.0	50	0	123	75-125	0			
Dibromochloromethane	61.37	5.0	50	0	123	75-125	0			
Ethylbenzene	58.31	5.0	50	0	117	75-125	0			
m,p-Xylene	113.5	10	100	0	113	75-125	0			
Methylene chloride	58.86	10	50	0	118	75-125	0			
Styrene	62.57	5.0	50	0	125	75-125	0			S
Tetrachloroethene	50.08	5.0	50	0	100	75-125	0			
Toluene	57.42	5.0	50	0	115	76-125	0			
trans-1,3-Dichloropropene	63.55	5.0	50	0	127	70-130	0			
Trichloroethene	56.36	5.0	50	0	113	71-120	0			
Vinylacetate	110.1	10	100	0	110	75-125	0			
Vinyl chloride	51.85	2.0	50	0	104	60-135	0			
Xylenes, Total	173.6	15	150	0	116	75-125	0			
Surr:1,2-Dichloroethane-d4	48.24	5.0	50	0	96.5	70-130	0			
Surr:4-Bromofluorobenzene	51.54	5.0	50	0	103	70-130	0			
Surr:Dibromofluoromethane	49.7	5.0	50	0	99.4	70-130	0			
Surr:Toluene-d8	50.38	5.0	50	0	101	70-130	0			

ND - Not Detected at the Reporting Limit
 S - Spike Recovery outside accepted recovery limits
 B - Analyte detected in assoc. Method Blank
 - Analyte detected below quantitation limits
 R - RPD outside accepted recovery limits
 U - Analyzed for but not detected
 O - Referenced analyte value is > 4 times amount spiked
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0311026
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: R17237 InstrumentID: VOA_I

MSD	Sample ID: 0311045-05AMSD	Test Code: SW8260		Units: µg/L		Analysis Date: 11/14/03 3:33				
Client ID:	Run ID: VOA_I_031113B	SeqNo: 394188	Prep Date:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	50.09	5.0	50	0	100	75-125	53.94	7.41	20	
1,1,2,2-Tetrachloroethane	61.63	5.0	50	0	123	75-125	60.7	1.53	20	
1,1,2-Trichloroethane	60.58	5.0	50	0	121	75-125	61.79	1.97	20	
1,1-Dichloroethane	58.58	5.0	50	0	117	75-125	58.42	0.28	20	
1,1-Dichloroethene	46.27	5.0	50	0	92.5	65-130	49.81	7.36	20	
1,2-Dichloroethane	60.66	5.0	50	0	121	70-130	61.4	1.21	20	
2-Butanone	123.9	10	100	0	124	64-128	117.9	4.99	20	
2-Chloroethyl vinyl ether	ND	10	100	0	0	75-125	0	0	20	S
2-Hexanone	77.46	10	100	0	77.5	72-124	76.24	1.59	20	
4-Methyl-2-pentanone	119.8	10	100	0	120	75-125	118.9	0.762	20	
Acetone	118.7	10	100	0	119	60-130	119.5	0.7	20	
Benzene	70.95	5.0	50	17.49	107	76-127	72.04	1.52	20	
Bromodichloromethane	61.42	5.0	50	0	123	75-125	62.47	1.7	20	
Bromoform	59.19	5.0	50	0	118	75-125	60.11	1.54	20	
Bromomethane	63.5	5.0	50	0	127	75-125	64.1	0.937	20	S
Carbon disulfide	100.8	10	100	0	101	75-125	105.6	4.59	20	
Carbontetrachloride	46.65	5.0	50	0	93.3	70-130	51.5	9.89	20	
Chlorobenzene	128.5	5.0	50	75.38	106	75-126	133.7	3.96	20	
Chloroethane	54.69	5.0	50	0	109	70-130	55.3	1.11	20	
Chloroform	60.5	5.0	50	0	121	75-125	60.22	0.458	20	
Chloromethane	59.71	5.0	50	0	119	75-125	55.17	7.91	20	
cis-1,3-Dichloropropene	61.3	5.0	50	0	123	75-125	61.25	0.0765	20	
Dibromochloromethane	59.57	5.0	50	0	119	75-125	61.37	2.97	20	
Ethylbenzene	55.56	5.0	50	0	111	75-125	58.31	4.83	20	
m,p-Xylene	110	10	100	0	110	75-125	113.5	3.11	20	
Methylene chloride	59.22	10	50	0	118	75-125	58.86	0.616	20	
Styrene	61.09	5.0	50	0	122	75-125	62.57	2.4	20	
Tetrachloroethene	46.54	5.0	50	0	93.1	75-125	50.08	7.33	20	
Toluene	55.31	5.0	50	0	111	76-125	57.42	3.73	20	
trans-1,3-Dichloropropene	63.1	5.0	50	0	126	70-130	63.55	0.701	20	
Trichloroethene	53.63	5.0	50	0	107	71-120	56.36	4.97	20	
Vinylacetate	109.9	10	100	0	110	75-125	110.1	0.206	20	
Vinyl chloride	51.02	2.0	50	0	102	60-135	51.85	1.61	20	
Xylenes, Total	168.4	15	150	0	112	75-125	173.6	3.05	20	
Surr:1,2-Dichloroethane-d4	48.5	5.0	50	0	97	70-130	48.24	0.548	20	
Surr:4-Bromofluorobenzene	51.53	5.0	50	0	103	70-130	51.54	0.0234	20	
Surr:Dibromofluoromethane	49.4	5.0	50	0	98.8	70-130	49.7	0.618	20	
Surr:Toluene-d8	50.5	5.0	50	0	101	70-130	50.38	0.234	20	

The following samples were analyzed in this batch: 0311026-01A 0311026-02A 0311026-03A

ND - Not Detected at the Reporting Limit
 Analyte detected below quantitation limits
 O - Referenced analyte value is > 4 times amount spiked
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 B - Analyte detected in assoc. Method Blank
 U - Analyzed for but not detected
 E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0311026
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: R17066 InstrumentID: IC201

MBLK	Sample ID: WBLKW1-110403	Test Code: E300	Units: mg/L	Analysis Date: 11/04/03 11:54						
Client ID:	Run ID: IC201_031104A	SeqNo: 389845	Prep Date:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	ND	0.50								
Fluoride	ND	0.10								
Sulfate	ND	1.0								
Nitrate/Nitrite (as N)	ND	0.10								
Surr: Dichloroacetic acid (surr)	ND	0.10								

LCS	Sample ID: WLCSW1-110403	Test Code: E300	Units: mg/L	Analysis Date: 11/04/03 12:27						
Client ID:	Run ID: IC201_031104A	SeqNo: 389846	Prep Date:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	9.33	0.50	10	0	93.3	80-120	0			
Fluoride	2.1	0.10	2	0	105	80-120	0			
Sulfate	9.8	1.0	10	0	98	80-120	0			
Surr: Dichloroacetic acid (surr)	2.05	0.10	2	0	102	80-120	0			

LCSD	Sample ID: WLCSDW1-11040	Test Code: E300	Units: mg/L	Analysis Date: 11/04/03 12:59						
Client ID:	Run ID: IC201_031104A	SeqNo: 389847	Prep Date:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	9.33	0.50	10	0	93.3	80-120	9.33	0	20	
Fluoride	2.12	0.10	2	0	106	80-120	2.1	0.948	20	
Sulfate	9.93	1.0	10	0	99.3	80-120	9.8	1.32	20	
Surr: Dichloroacetic acid (surr)	2.12	0.10	2	0	106	80-120	2.05	3.36	20	

MS	Sample ID: 0310224-04CMS	Test Code: E300	Units: mg/L	Analysis Date: 11/05/03 6:52						
Client ID:	Run ID: IC201_031104A	SeqNo: 389878	Prep Date:	DF: 20						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	1332	10	200	1025	154	75-125	0			SEO
Fluoride	40.2	2.0	40	18	55.5	75-125	0			S
Sulfate	1516	20	200	1221	147	75-125	0			SEO
Nitrate/Nitrite (as N)	78.2	2.0	80	0	97.8	75-125	0			
Surr: Dichloroacetic acid (surr)	109.4	2.0	100	0	109	80-120	0			

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 S - Spike Recovery outside accepted recovery limits
 B - Analyte detected in assoc. Method Blank
 A - Analyte detected below quantitation limits
 R - RPD outside accepted recovery limits
 U - Analyzed for but not detected
 O - Referenced analyte value is > 4 times amount spiked
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0311026
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: R17066 InstrumentID: IC201

MSD Sample ID: 0310224-04CMSD Test Code: E300 Units: mg/L Analysis Date: 11/05/03 7:25
 Client ID: Run ID: IC201_031104A SeqNo: 389879 Prep Date: DF: 20

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	1366	10	200	1025	170	75-125	1332	2.49	20	SEO
Fluoride	39.6	2.0	40	18	54	75-125	40.2	1.5	20	S
Sulfate	1556	20	200	1221	167	75-125	1516	2.6	20	SEO
Nitrate/Nitrite (as N)	79.4	2.0	80	0	99.2	75-125	78.2	1.52	20	
Surr: Dichloroacetic acid (surr)	111.6	2.0	100	0	112	80-120	109.4	1.99	20	

DUP Sample ID: 0310224-04CDUP Test Code: E300 Units: mg/L Analysis Date: 11/05/03 6:20
 Client ID: Run ID: IC201_031104A SeqNo: 389877 Prep Date: DF: 20

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	1128	10	0	0	0	0-0	1025	9.57	20	E
Fluoride	ND	2.0	0	0	0	0-0	18	0	20	
Sulfate	1322	20	0	0	0	0-0	1221	7.93	20	E
Nitrate/Nitrite (as N)	ND	2.0	0	0	0	0-0	0	0	20	
Surr: Dichloroacetic acid (surr)	109.2	2.0	100	0	109	80-120	289.5	90.4	20	R

The following samples were analyzed in this batch:

0311026-01B 0311026-02B 0311026-03B

ND - Not Detected at the Reporting Limit
 S - Spike Recovery outside accepted recovery limits
 B - Analyte detected in assoc. Method Blank
 Analyte detected below quantitation limits
 R - RPD outside accepted recovery limits
 U - Analyzed for but not detected
 O - Referenced analyte value is > 4 times amount spiked
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0311026
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: R17132 InstrumentID: UV-2101PC

MBLK Sample ID: WMBW1-110903 Test Code: E335.3 Units: mg/L Analysis Date: 11/09/03 0:00
 Client ID: Run ID: UV-2101PC_031109B SeqNo: 391539 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide	ND	0.020								

LCS Sample ID: WLCSW1-110903 Test Code: E335.3 Units: mg/L Analysis Date: 11/09/03 0:00
 Client ID: Run ID: UV-2101PC_031109B SeqNo: 391540 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide	0.2039	0.020	0.2	0	102	80-120	0			

MS Sample ID: 0311048-02CMS Test Code: E335.3 Units: mg/L Analysis Date: 11/09/03 0:00
 Client ID: Run ID: UV-2101PC_031109B SeqNo: 391554 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide	0.1997	0.020	0.2	0.0025	98.6	75-125	0			

MSD Sample ID: 0311048-02CMSD Test Code: E335.3 Units: mg/L Analysis Date: 11/09/03 0:00
 Client ID: Run ID: UV-2101PC_031109B SeqNo: 391555 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide	0.2014	0.020	0.2	0.0025	99.4	75-125	0.1997	0.848	25	

DUP Sample ID: 0311048-02C DUP Test Code: E335.3 Units: mg/L Analysis Date: 11/09/03 0:00
 Client ID: Run ID: UV-2101PC_031109B SeqNo: 391553 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide	ND	0.020	0	0	0	0-0	0.0025	0	20	

The following samples were analyzed in this batch: 0311026-01D 0311026-02D 0311026-03D

ND - Not Detected at the Reporting Limit

- Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0311026
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: R17165 InstrumentID: WetChemistry

MBLK	Sample ID: WMBW1-111003	Test Code: E310.1	Units: mg/L	Analysis Date: 11/10/03 0:00						
Client ID:	Run ID: WET CHEMISTRY_0311	SeqNo: 392280	Prep Date:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	ND	5.0								
Alkalinity, Carbonate (As CaCO3)	ND	5.0								
Alkalinity, Hydroxide (As CaCO3)	ND	5.0								
Alkalinity, Total (As CaCO3)	ND	5.0								

LCS	Sample ID: WLCSW1-111003	Test Code: E310.1	Units: mg/L	Analysis Date: 11/10/03 0:00						
Client ID:	Run ID: WET CHEMISTRY_0311	SeqNo: 392281	Prep Date:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	1000	5.0	1000	0	100	80-120	0			

DUP	Sample ID: 0311009-06D DUP	Test Code: E310.1	Units: mg/L	Analysis Date: 11/10/03 0:00						
Client ID:	Run ID: WET CHEMISTRY_0311	SeqNo: 392299	Prep Date:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	730.2	5.0	0	0	0	0-0	735.2	0.682	20	
Alkalinity, Carbonate (As CaCO3)	ND	5.0	0	0	0	0-0	0	0	20	
Alkalinity, Hydroxide (As CaCO3)	ND	5.0	0	0	0	0-0	0	0	20	
Alkalinity, Total (As CaCO3)	730.2	5.0	0	0	0	0-0	735.2	0.682	20	

DUP	Sample ID: 0311045-03E DUP	Test Code: E310.1	Units: mg/L	Analysis Date: 11/10/03 0:00						
Client ID:	Run ID: WET CHEMISTRY_0311	SeqNo: 392300	Prep Date:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	25.01	5.0	0	0	0	0-0	25.01	0	20	
Alkalinity, Carbonate (As CaCO3)	ND	5.0	0	0	0	0-0	0	0	20	
Alkalinity, Hydroxide (As CaCO3)	ND	5.0	0	0	0	0-0	0	0	20	
Alkalinity, Total (As CaCO3)	25.01	5.0	0	0	0	0-0	25.01	0	20	

DUP	Sample ID: 0311045-05E DUP	Test Code: E310.1	Units: mg/L	Analysis Date: 11/10/03 0:00						
Client ID:	Run ID: WET CHEMISTRY_0311	SeqNo: 392302	Prep Date:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	85.02	5.0	0	0	0	0-0	85.02	0	20	
Alkalinity, Carbonate (As CaCO3)	ND	5.0	0	0	0	0-0	0	0	20	
Alkalinity, Hydroxide (As CaCO3)	ND	5.0	0	0	0	0-0	0	0	20	
Alkalinity, Total (As CaCO3)	85.02	5.0	0	0	0	0-0	85.02	0	20	

The following samples were analyzed in this batch: 0311026-01B 0311026-02B 0311026-03B

ND - Not Detected at the Reporting Limit
 S - Spike Recovery outside accepted recovery limits
 B - Analyte detected in assoc. Method Blank
 Analyte detected below quantitation limits
 R - RPD outside accepted recovery limits
 U - Analyzed for but not detected
 O - Referenced analyte value is > 4 times amount spiked
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0311026
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: R17215 InstrumentID: IC201

MBLK		Sample ID: WBLKW1-111203		Test Code: E300		Units: mg/L		Analysis Date: 11/12/03 18:53		
Client ID:		Run ID: IC201_031112A		SeqNo: 393739		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	ND	0.50								
Fluoride	ND	0.10								
Sulfate	ND	1.0								
Nitrate/Nitrite (as N)	ND	0.10								
Surr: Dichloroacetic acid (surr)	ND	0.10								

LCS		Sample ID: WLC5W1-111203		Test Code: E300		Units: mg/L		Analysis Date: 11/12/03 19:25		
Client ID:		Run ID: IC201_031112A		SeqNo: 393740		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	9.32	0.50	10	0	93.2	80-120	0			
Fluoride	1.96	0.10	2	0	98	80-120	0			
Sulfate	9.94	1.0	10	0	99.4	80-120	0			
Surr: Dichloroacetic acid (surr)	2.02	0.10	2	0	101	80-120	0			

LCSD		Sample ID: WLC5DW1-11120		Test Code: E300		Units: mg/L		Analysis Date: 11/12/03 19:58		
Client ID:		Run ID: IC201_031112A		SeqNo: 393741		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	9.32	0.50	10	0	93.2	80-120	9.32	0	20	
Fluoride	1.94	0.10	2	0	97	80-120	1.96	1.03	20	
Sulfate	9.89	1.0	10	0	98.9	80-120	9.94	0.504	20	
Surr: Dichloroacetic acid (surr)	2	0.10	2	0	100	80-120	2.02	0.995	20	

MS		Sample ID: 0311053-01BMS		Test Code: E300		Units: mg/L		Analysis Date: 11/13/03 6:15		
Client ID:		Run ID: IC201_031112A		SeqNo: 393773		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	4413	0.50	10	4500	-874	75-125	0			SEO
Fluoride	3.97	0.10	2	0.7	163	75-125	0			S
Sulfate	2779	1.0	10	2827	-480	75-125	0			SEO
Nitrate/Nitrite (as N)	2.35	0.10	4	0	58.7	75-125	0			S
Surr: Dichloroacetic acid (surr)	4.65	0.10	5	0	93	80-120	0			

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 B - Analyte detected in assoc. Method Blank
 - Analyte detected below quantitation limits
 R - RPD outside accepted recovery limits
 U - Analyzed for but not detected
 O - Referenced analyte value is > 4 times amount spiked
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0311026
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: R17215 InstrumentID: IC201

MSD		Sample ID: 0311053-01BMSD			Test Code: E300		Units: mg/L		Analysis Date: 11/13/03 6:48		
Client ID:		Run ID: IC201_031112A			SeqNo: 393774		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Chloride	4427	0.50	10	4500	-733	75-125	4413	0.318	20	SEO	
Fluoride	2.04	0.10	2	0.7	67	75-125	3.97	64.2	20	SR	
Sulfate	2777	1.0	10	2827	-505	75-125	2779	0.0871	20	SEO	
Nitrate/Nitrite (as N)	2.21	0.10	4	0	55.2	75-125	2.35	6.14	20	S	
Surr: Dichloroacetic acid (surr)	4.4	0.10	5	0	88	80-120	4.65	5.52	20		

DUP		Sample ID: 0311053-01BDUP			Test Code: E300		Units: mg/L		Analysis Date: 11/13/03 5:43		
Client ID:		Run ID: IC201_031112A			SeqNo: 393772		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Chloride	4496	0.50	0	0	0	0-0	4500	0.088	20	E	
Fluoride	0.7	0.10	0	0	0	0-0	0.7	0	20		
Sulfate	2824	1.0	0	0	0	0-0	2827	0.0984	20	E	
Nitrate/Nitrite (as N)	ND	0.10	0	0	0	0-0	0	0	20		
Surr: Dichloroacetic acid (surr)	4.86	0.10	5	0	97.2	80-120	5.13	5.41	20		

The following samples were analyzed in this batch:

0311026-01B 0311026-02B 0311026-03B

ND - Not Detected at the Reporting Limit

- Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

e-Lab, Inc.
 10450 Shamrock Rd. #210
 Houston, Texas 77099
 (Tel) 281.530.5656
 (Fax) 281.530.5887

Chain of Custody Form

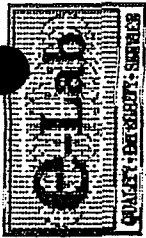
Page 1 of 1

e-Lab, Inc.
 3352 128th Avenue
 Holland, Michigan 49424
 (Tel) 616.399.6070
 (Fax) 616.399.6185

e-Lab Project Manager:		e-Lab Work Order #		Parameter Method Request for Analysis															
Project Name:		Project Number:		A NCL/TEL															
Bill To Company:		Company Name:		NCL/TEL															
Invoice Attn:		Company Address:		Navajo Refining Company															
P.O. Box 159		City/State/Zip:		Jeff Byrd															
88211		City/State/Zip:		P.O. Box 159															
11		City/State/Zip:		Attesla, NM 88211															
21		Phone:		505-748-3311															
		Fax:		505-746-5421															
Sample	Date	Time	Matrix	Prep	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	11/3/03	1400	L	4	8														
	1	1430	1	1	8														
		1500			7														

Shipment Method:		Required Turnaround Time (Check Box)		Results Due Date	
FedEx		<input type="checkbox"/> 5-10 Mins <input type="checkbox"/> 1-2 Mins <input type="checkbox"/> 2-4 Mins <input type="checkbox"/> 4-8 Mins <input type="checkbox"/> Other		<input type="checkbox"/> 2 Mins <input type="checkbox"/> 4 Mins <input type="checkbox"/> 8 Mins <input type="checkbox"/> 24 Hour	
Received by:		Notes:		QC Package: (Check Box Below)	
11/3/03 1615		MW-51A 10As not Labeled		<input type="checkbox"/> Level II: Standard QC <input type="checkbox"/> Level III: Standard QC + Raw Data <input type="checkbox"/> Level IV: SW846 Methods/CLP <input type="checkbox"/> Other	
Date		Time		Cooler Temp.	
11/3/03		1615		<input type="checkbox"/> e-Lab Cooler <input type="checkbox"/> ID	
Date		Time		QC Package: (Check Box Below)	
				<input type="checkbox"/> Level II: Standard QC <input type="checkbox"/> Level III: Standard QC + Raw Data <input type="checkbox"/> Level IV: SW846 Methods/CLP <input type="checkbox"/> Other	
Date		Time		Cooler Temp.	

Note: Any changes must be made in writing once samples and COC Form have been submitted to e-Lab, Inc.



Customer Inform	
Purchase Order:	
Work Order:	
Company Name:	Navajo Refir
Series Report To:	Jeff Byrd
Address:	P.O. Box 151
City/State/Zip:	Artesia, NM
Phone:	505-748-331
Fax:	505-748-541
e-Mail Address:	
No	Sample ID
1	MMK-53
2	MMK-55
3	MMK-54A
4	
5	
6	
7	
8	
9	
10	
Samples: Please Print & Sign	
Requisitioned by: <i>Byrd</i>	
Requisitioned by:	
Logged by (Laboratory):	
Preservative Key: 1 - HCl	

Sample Receipt Checklist

Client Name NAVAJO REFINING

Date/Time Received: 11/4/2003 8:45:00 AM

Work Order Number 0311026

Received by: RSZ

Checklist completed by RICHARD SANCHEZ 11-4-03
Signature Date

Reviewed by gc 11/4/03
Initials Date

Matrix: W

Carrier name FedEx

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No
- Temperature(s)/Thermometer(s): 4.2c 003
- Water - VOA vials have zero headspace? Yes No No VOA vials submitted
- Water - pH acceptable upon receipt? Yes No N/A

Adjusted? _____ Checked by _____

Login Notes:

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

0311026

NAVAJO REFINING COMPANY

501 E. MAIN STREET
ARTESIA NM 89210
5057483311

SHIP DATE: 03NOV2003
ACCOUNT #: 113684186
ACTUAL WGT: 65.00 LBS

Part # 156148-434 NRT 7-03



TO:

E-LAB
SAMPLE RECEIVING
10450 STANCLIFF ROAD STE 210
HOUSTON TX 77099

2815305656
BILL RECIPIENT



Delivery Address Barcode

FedEx PRIORITY OVERNIGHT

TUE

System # 2223500 03NOV2003

DELIVER BY:
04NOV2003

TRK# 7904 5951 7812 Form 0201

IAH A2

77099-TX-US

A9 JGQA



OSUS v5.2.00 2223500 2844 04/02



e-Lab, Inc.

10450 Standcliff Rd, Suite 210 Houston, Texas 77099-4338 281-530-5656 Fax 281-530-5887

November 21, 2003

Jeff Byrd
Navajo Refining Company
P.O. Box 159
Artesia, New Mexico 88211

Tel: (505) 746-5468
Fax: (505) 746-5421

Re: NCL/TCL

Work Order : **0311077**

Dear Jeff Byrd,

e-Lab, Inc. received 4 samples on 11/7/2003 8:30:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by e-Lab, Inc. and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by e-Lab Inc. The total number of pages in this report is 39.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Lora Terrill

Electronically approved by: Patrina A. Dathorne

Lora Terrill
VP Lab Operations

CLIENT: Navajo Refining Company
Project: NCL/TCL
Work Order: 0311077

Work Order Sample Summary

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
0311077-01	NCL-33	Water		11/6/2003 09:15	11/7/2003 08:30	<input type="checkbox"/>
0311077-02	NCL-34	Water		11/6/2003 10:30	11/7/2003 08:30	<input type="checkbox"/>
0311077-03	MW-59	Water		11/6/2003 11:00	11/7/2003 08:30	<input type="checkbox"/>
0311077-04	MW-58	Water		11/6/2003 14:15	11/7/2003 08:30	<input type="checkbox"/>

CLIENT: Navajo Refining Company
 Work Order: 0311077
 Project: NCL/TCL
 Lab ID: 0311077-01

Client Sample ID: NCL-33
 Collection Date: 11/6/2003 9:15:00 AM
 Matrix: WATER

Analyses	Result	Report Limit	Qual Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL					
			SW7470	Prep Date: 11/14/2003	Analyst: MG
Mercury	ND	0.000200	mg/L	1	11/14/2003 1:49:25 PM
ICP METALS, TOTAL					
			SW6020	Prep Date: 11/12/2003	Analyst: ALR
Aluminum	0.0255	0.0200	mg/L	2	11/15/2003 3:53:00 AM
Arsenic	ND	0.0100	mg/L	2	11/15/2003 3:53:00 AM
Barium	0.0520	0.0100	mg/L	2	11/15/2003 3:53:00 AM
Beryllium	ND	0.00400	mg/L	2	11/15/2003 3:53:00 AM
Boron	0.471	0.200	mg/L	10	11/14/2003 2:44:00 AM
Cadmium	ND	0.00200	mg/L	2	11/15/2003 3:53:00 AM
Calcium	318	5.00	mg/L	10	11/14/2003 8:01:00 PM
Chromium	ND	0.00400	mg/L	2	11/15/2003 3:53:00 AM
Cobalt	ND	0.00400	mg/L	2	11/15/2003 3:53:00 AM
Copper	ND	0.00400	mg/L	2	11/15/2003 3:53:00 AM
Iron	2.30	0.400	mg/L	2	11/15/2003 3:53:00 AM
Lead	ND	0.0100	mg/L	2	11/17/2003 7:05:00 PM
Magnesium	102	2.00	mg/L	10	11/14/2003 8:01:00 PM
Manganese	0.0832	0.0100	mg/L	2	11/15/2003 3:53:00 AM
Nickel	ND	0.0100	mg/L	2	11/15/2003 3:53:00 AM
Potassium	4.18	0.400	mg/L	2	11/15/2003 3:53:00 AM
Selenium	ND	0.0100	mg/L	2	11/15/2003 3:53:00 AM
Silver	ND	0.0100	mg/L	2	11/15/2003 3:53:00 AM
Sodium	95.3	2.00	mg/L	10	11/14/2003 8:01:00 PM
Vanadium	ND	0.0100	mg/L	2	11/15/2003 3:53:00 AM
Zinc	ND	0.0100	mg/L	2	11/15/2003 3:53:00 AM
SEMIVOLATILE ORGANICS BY GC/MS					
			SW8270	Prep Date: 11/7/2003	Analyst: HV
1,2,4-Trichlorobenzene	ND	10	µg/L	1	11/11/2003 3:50:00 PM
2,4,5-Trichlorophenol	ND	10	µg/L	1	11/11/2003 3:50:00 PM
2,4,6-Trichlorophenol	ND	10	µg/L	1	11/11/2003 3:50:00 PM
2-Methylnaphthalene	ND	10	µg/L	1	11/11/2003 3:50:00 PM
2-Methylphenol	ND	10	µg/L	1	11/11/2003 3:50:00 PM
2-Nitroaniline	ND	10	µg/L	1	11/11/2003 3:50:00 PM
2-Nitrophenol	ND	10	µg/L	1	11/11/2003 3:50:00 PM
3-Nitroaniline	ND	10	µg/L	1	11/11/2003 3:50:00 PM
4-Methylphenol	ND	10	µg/L	1	11/11/2003 3:50:00 PM
4-Nitroaniline	ND	10	µg/L	1	11/11/2003 3:50:00 PM
4-Nitrophenol	ND	10	µg/L	1	11/11/2003 3:50:00 PM
Acenaphthene	ND	10	µg/L	1	11/11/2003 3:50:00 PM
Acenaphthylene	ND	10	µg/L	1	11/11/2003 3:50:00 PM
Aniline	ND	10	µg/L	1	11/11/2003 3:50:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level
 S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: November 21, 2003

CLIENT: Navajo Refining Company **Client Sample ID:** NCL-33
Work Order: 0311077 **Collection Date:** 11/6/2003 9:15:00 AM
Project: NCL/TCL
Lab ID: 0311077-01 **Matrix:** WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Anthracene	ND	10		µg/L	1	11/11/2003 3:50:00 PM
Benz(a)anthracene	ND	10		µg/L	1	11/11/2003 3:50:00 PM
Benzidine	ND	10		µg/L	1	11/11/2003 3:50:00 PM
Hexachloroethane	ND	10		µg/L	1	11/11/2003 3:50:00 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	11/11/2003 3:50:00 PM
Isophorone	ND	10		µg/L	1	11/11/2003 3:50:00 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	11/11/2003 3:50:00 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	11/11/2003 3:50:00 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	11/11/2003 3:50:00 PM
Naphthalene	ND	10		µg/L	1	11/11/2003 3:50:00 PM
Nitrobenzene	ND	10		µg/L	1	11/11/2003 3:50:00 PM
Pentachlorophenol	ND	10		µg/L	1	11/11/2003 3:50:00 PM
Phenanthrene	ND	10		µg/L	1	11/11/2003 3:50:00 PM
Phenol	ND	10		µg/L	1	11/11/2003 3:50:00 PM
Pyrene	ND	10		µg/L	1	11/11/2003 3:50:00 PM
Surr: 2,4,6-Tribromophenol	107	39-153		%REC	1	11/11/2003 3:50:00 PM
Surr: 2-Fluorobiphenyl	91.9	40-147		%REC	1	11/11/2003 3:50:00 PM
Surr: 2-Fluorophenol	36.9	21-100		%REC	1	11/11/2003 3:50:00 PM
Surr: 4-Terphenyl-d14	99.1	39-141		%REC	1	11/11/2003 3:50:00 PM
Surr: Nitrobenzene-d5	86.0	37-140		%REC	1	11/11/2003 3:50:00 PM
Surr: Phenol-d6	22.7	11-100		%REC	1	11/11/2003 3:50:00 PM
VOLATILES BY GC/MS		SW8260			Analyst: PC	
1,1,1-Trichloroethane	ND	5.0		µg/L	1	11/14/2003 1:55:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/L	1	11/14/2003 1:55:00 PM
1,1,2-Trichloroethane	ND	5.0		µg/L	1	11/14/2003 1:55:00 PM
1,1-Dichloroethane	ND	5.0		µg/L	1	11/14/2003 1:55:00 PM
1,1-Dichloroethene	ND	5.0		µg/L	1	11/14/2003 1:55:00 PM
1,2-Dichloroethane	ND	5.0		µg/L	1	11/14/2003 1:55:00 PM
2-Butanone	ND	10		µg/L	1	11/14/2003 1:55:00 PM
2-Chloroethyl vinyl ether	ND	10		µg/L	1	11/14/2003 1:55:00 PM
2-Hexanone	ND	10		µg/L	1	11/14/2003 1:55:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	11/14/2003 1:55:00 PM
Acetone	ND	10		µg/L	1	11/14/2003 1:55:00 PM
Benzene	11	5.0		µg/L	1	11/14/2003 1:55:00 PM
Bromodichloromethane	ND	5.0		µg/L	1	11/14/2003 1:55:00 PM
Bromoform	ND	5.0		µg/L	1	11/14/2003 1:55:00 PM
Bromomethane	ND	5.0		µg/L	1	11/14/2003 1:55:00 PM
Carbon disulfide	ND	10		µg/L	1	11/14/2003 1:55:00 PM
Carbon tetrachloride	ND	5.0		µg/L	1	11/14/2003 1:55:00 PM
Chlorobenzene	ND	5.0		µg/L	1	11/14/2003 1:55:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits
 J - Analyte detected below quantitation limits P - Dual Column results percent difference > 40%
 B - Analyte detected in the associated Method Blank E - Value above quantitation range
 * - Value exceeds Maximum Contaminant Level H - Analyzed outside of Hold Time

CLIENT: Navajo Refining Company
 Work Order: 0311077
 Project: NCL/TCL
 Lab ID: 0311077-01

Client Sample ID: NCL-33
 Collection Date: 11/6/2003 9:15:00 AM
 Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chloroethane	ND	5.0		µg/L	1	11/14/2003 1:55:00 PM
Chloroform	ND	5.0		µg/L	1	11/14/2003 1:55:00 PM
Chloromethane	ND	5.0		µg/L	1	11/14/2003 1:55:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	11/14/2003 1:55:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	11/14/2003 1:55:00 PM
Ethylbenzene	6.8	5.0		µg/L	1	11/14/2003 1:55:00 PM
m,p-Xylene	ND	10		µg/L	1	11/14/2003 1:55:00 PM
Methylene chloride	ND	10		µg/L	1	11/14/2003 1:55:00 PM
Styrene	ND	5.0		µg/L	1	11/14/2003 1:55:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	11/14/2003 1:55:00 PM
Toluene	ND	5.0		µg/L	1	11/14/2003 1:55:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	11/14/2003 1:55:00 PM
Trichloroethene	ND	5.0		µg/L	1	11/14/2003 1:55:00 PM
Vinyl acetate	ND	10		µg/L	1	11/14/2003 1:55:00 PM
Vinyl chloride	ND	2.0		µg/L	1	11/14/2003 1:55:00 PM
Xylenes, Total	ND	15		µg/L	1	11/14/2003 1:55:00 PM
Surr: 1,2-Dichloroethane-d4	96.2	70-130		%REC	1	11/14/2003 1:55:00 PM
Surr: 4-Bromofluorobenzene	99.8	70-130		%REC	1	11/14/2003 1:55:00 PM
Surr: Dibromofluoromethane	101	70-130		%REC	1	11/14/2003 1:55:00 PM
Surr: Toluene-d8	101	70-130		%REC	1	11/14/2003 1:55:00 PM
ANIONS BY ION CHROMATOGRAPHY		E300			Analyst: MG	
Chloride	297	5.00		mg/L	10	11/18/2003 8:41:00 PM
Fluoride	4.60	1.00		mg/L	10	11/18/2003 8:41:00 PM
Fluoride	2.66	0.100		mg/L	1	11/7/2003 7:54:00 PM
Sulfate	304	10.0		mg/L	10	11/18/2003 8:41:00 PM
Nitrate/Nitrite (as N)	ND	0.100		mg/L	1	11/7/2003 7:54:00 PM
Surr: Dichloroacetic acid (surr)	108	80-120		%REC	1	11/7/2003 7:54:00 PM
Surr: Dichloroacetic acid (surr)	118	80-120		%REC	10	11/18/2003 8:41:00 PM
ALKALINITY		E310.1			Analyst: LMD	
Alkalinity, Bicarbonate (As CaCO3)	650	5.00		mg/L	1	11/18/2003
Alkalinity, Carbonate (As CaCO3)	ND	5.00		mg/L	1	11/18/2003
Alkalinity, Hydroxide (As CaCO3)	ND	5.00		mg/L	1	11/18/2003
Alkalinity, Total (As CaCO3)	650	5.00		mg/L	1	11/18/2003
CYANIDE, TOTAL		E335.3			Analyst: LMD	
Cyanide	ND	0.0200		mg/L	1	11/15/2003

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits
 J - Analyte detected below quantitation limits P - Dual Column results percent difference > 40%
 B - Analyte detected in the associated Method Blank E - Value above quantitation range
 * - Value exceeds Maximum Contaminant Level H - Analyzed outside of Hold Time

CLIENT: Navajo Refining Company	Client Sample ID: NCL-34
Work Order: 0311077	Collection Date: 11/6/2003 10:30:00 AM
Project: NCL/TCL	
Lab ID: 0311077-02	Matrix: WATER

Analyses	Result	Report Limit	Qual Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL					
		SW7470			Prep Date: 11/14/2003 Analyst: MG
Mercury	ND	0.000200	mg/L	1	11/14/2003 1:58:39 PM
ICP METALS, TOTAL					
		SW6020			Prep Date: 11/12/2003 Analyst: ALR
Aluminum	0.0262	0.0200	mg/L	2	11/15/2003 3:58:00 AM
Arsenic	ND	0.0100	mg/L	2	11/15/2003 3:58:00 AM
Barium	0.744	0.0500	mg/L	10	11/14/2003 2:48:00 AM
Beryllium	ND	0.00400	mg/L	2	11/15/2003 3:58:00 AM
Boron	0.261	0.200	mg/L	10	11/14/2003 2:48:00 AM
Cadmium	ND	0.00200	mg/L	2	11/15/2003 3:58:00 AM
Calcium	267	5.00	mg/L	10	11/14/2003 8:06:00 PM
Chromium	0.00403	0.00400	mg/L	2	11/15/2003 3:58:00 AM
Cobalt	ND	0.00400	mg/L	2	11/15/2003 3:58:00 AM
Copper	ND	0.00400	mg/L	2	11/15/2003 3:58:00 AM
Iron	0.865	0.400	mg/L	2	11/15/2003 3:58:00 AM
Lead	ND	0.0100	mg/L	2	11/17/2003 7:10:00 PM
Magnesium	93.6	2.00	mg/L	10	11/14/2003 8:06:00 PM
Manganese	0.140	0.0100	mg/L	2	11/15/2003 3:58:00 AM
Nickel	ND	0.0100	mg/L	2	11/15/2003 3:58:00 AM
Potassium	ND	0.400	mg/L	2	11/15/2003 3:58:00 AM
Selenium	ND	0.0100	mg/L	2	11/15/2003 3:58:00 AM
Silver	ND	0.0100	mg/L	2	11/15/2003 3:58:00 AM
Sodium	145	2.00	mg/L	10	11/14/2003 8:06:00 PM
Vanadium	ND	0.0100	mg/L	2	11/15/2003 3:58:00 AM
Zinc	0.0132	0.0100	mg/L	2	11/15/2003 3:58:00 AM
SEMIVOLATILE ORGANICS BY GC/MS					
		SW8270			Prep Date: 11/7/2003 Analyst: HV
1,2,4-Trichlorobenzene	ND	10	µg/L	1	11/11/2003 4:16:00 PM
2,4,5-Trichlorophenol	ND	10	µg/L	1	11/11/2003 4:16:00 PM
2,4,6-Trichlorophenol	ND	10	µg/L	1	11/11/2003 4:16:00 PM
2-Methylnaphthalene	10	10	µg/L	1	11/11/2003 4:16:00 PM
2-Methylphenol	ND	10	µg/L	1	11/11/2003 4:16:00 PM
2-Nitroaniline	ND	10	µg/L	1	11/11/2003 4:16:00 PM
2-Nitrophenol	ND	10	µg/L	1	11/11/2003 4:16:00 PM
3-Nitroaniline	ND	10	µg/L	1	11/11/2003 4:16:00 PM
4-Methylphenol	ND	10	µg/L	1	11/11/2003 4:16:00 PM
4-Nitroaniline	ND	10	µg/L	1	11/11/2003 4:16:00 PM
4-Nitrophenol	ND	10	µg/L	1	11/11/2003 4:16:00 PM
Acenaphthene	ND	10	µg/L	1	11/11/2003 4:16:00 PM
Acenaphthylene	ND	10	µg/L	1	11/11/2003 4:16:00 PM
Aniline	ND	10	µg/L	1	11/11/2003 4:16:00 PM

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

CLIENT: Navajo Refining Company
 Work Order: 0311077
 Project: NCL/TCL
 Lab ID: 0311077-02

Client Sample ID: NCL-34
 Collection Date: 11/6/2003 10:30:00 AM
 Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Anthracene	ND	10		µg/L	1	11/11/2003 4:16:00 PM
Benz(a)anthracene	ND	10		µg/L	1	11/11/2003 4:16:00 PM
Benzidine	ND	10		µg/L	1	11/11/2003 4:16:00 PM
Hexachloroethane	ND	10		µg/L	1	11/11/2003 4:16:00 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	11/11/2003 4:16:00 PM
Isophorone	ND	10		µg/L	1	11/11/2003 4:16:00 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	11/11/2003 4:16:00 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	11/11/2003 4:16:00 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	11/11/2003 4:16:00 PM
Naphthalene	27	10		µg/L	1	11/11/2003 4:16:00 PM
Nitrobenzene	ND	10		µg/L	1	11/11/2003 4:16:00 PM
Pentachlorophenol	ND	10		µg/L	1	11/11/2003 4:16:00 PM
Phenanthrene	ND	10		µg/L	1	11/11/2003 4:16:00 PM
Phenol	ND	10		µg/L	1	11/11/2003 4:16:00 PM
Pyrene	ND	10		µg/L	1	11/11/2003 4:16:00 PM
Surr: 2,4,6-Tribromophenol	123	39-153		%REC	1	11/11/2003 4:16:00 PM
Surr: 2-Fluorobiphenyl	86.0	40-147		%REC	1	11/11/2003 4:16:00 PM
Surr: 2-Fluorophenol	38.3	21-100		%REC	1	11/11/2003 4:16:00 PM
Surr: 4-Terphenyl-d14	106	39-141		%REC	1	11/11/2003 4:16:00 PM
Surr: Nitrobenzene-d5	101	37-140		%REC	1	11/11/2003 4:16:00 PM
Surr: Phenol-d6	24.8	11-100		%REC	1	11/11/2003 4:16:00 PM
VOLATILES BY GC/MS		SW8260			Analyst: PC	
1,1,1-Trichloroethane	ND	5.0		µg/L	1	11/14/2003 3:17:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/L	1	11/14/2003 3:17:00 PM
1,1,2-Trichloroethane	ND	5.0		µg/L	1	11/14/2003 3:17:00 PM
1,1-Dichloroethane	ND	5.0		µg/L	1	11/14/2003 3:17:00 PM
1,1-Dichloroethene	ND	5.0		µg/L	1	11/14/2003 3:17:00 PM
1,2-Dichloroethane	ND	5.0		µg/L	1	11/14/2003 3:17:00 PM
2-Butanone	ND	10		µg/L	1	11/14/2003 3:17:00 PM
2-Chloroethyl vinyl ether	ND	10		µg/L	1	11/14/2003 3:17:00 PM
2-Hexanone	ND	10		µg/L	1	11/14/2003 3:17:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	11/14/2003 3:17:00 PM
Acetone	ND	10		µg/L	1	11/14/2003 3:17:00 PM
Benzene	2,800	120		µg/L	25	11/14/2003 6:28:00 PM
Bromodichloromethane	ND	5.0		µg/L	1	11/14/2003 3:17:00 PM
Bromoform	ND	5.0		µg/L	1	11/14/2003 3:17:00 PM
Bromomethane	ND	5.0		µg/L	1	11/14/2003 3:17:00 PM
Carbon disulfide	ND	10		µg/L	1	11/14/2003 3:17:00 PM
Carbon tetrachloride	ND	5.0		µg/L	1	11/14/2003 3:17:00 PM
Chlorobenzene	ND	5.0		µg/L	1	11/14/2003 3:17:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: November 21, 2003

CLIENT: Navajo Refining Company
Work Order: 0311077
Project: NCL/TCL
Lab ID: 0311077-02

Client Sample ID: NCL-34
Collection Date: 11/6/2003 10:30:00 AM
Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chloroethane	ND	5.0		µg/L	1	11/14/2003 3:17:00 PM
Chloroform	ND	5.0		µg/L	1	11/14/2003 3:17:00 PM
Chloromethane	ND	5.0		µg/L	1	11/14/2003 3:17:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	11/14/2003 3:17:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	11/14/2003 3:17:00 PM
Ethylbenzene	400	120		µg/L	25	11/14/2003 6:28:00 PM
m,p-Xylene	240	10		µg/L	1	11/14/2003 3:17:00 PM
Methylene chloride	ND	10		µg/L	1	11/14/2003 3:17:00 PM
Styrene	ND	5.0		µg/L	1	11/14/2003 3:17:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	11/14/2003 3:17:00 PM
Toluene	ND	5.0		µg/L	1	11/14/2003 3:17:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	11/14/2003 3:17:00 PM
Trichloroethene	ND	5.0		µg/L	1	11/14/2003 3:17:00 PM
Vinyl acetate	ND	10		µg/L	1	11/14/2003 3:17:00 PM
Vinyl chloride	ND	2.0		µg/L	1	11/14/2003 3:17:00 PM
Xylenes, Total	240	15		µg/L	1	11/14/2003 3:17:00 PM
Surr: 1,2-Dichloroethane-d4	93.7	70-130		%REC	1	11/14/2003 3:17:00 PM
Surr: 1,2-Dichloroethane-d4	94.2	70-130		%REC	25	11/14/2003 6:28:00 PM
Surr: 4-Bromofluorobenzene	103	70-130		%REC	1	11/14/2003 3:17:00 PM
Surr: 4-Bromofluorobenzene	99.0	70-130		%REC	25	11/14/2003 6:28:00 PM
Surr: Dibromofluoromethane	98.2	70-130		%REC	25	11/14/2003 6:28:00 PM
Surr: Dibromofluoromethane	103	70-130		%REC	1	11/14/2003 3:17:00 PM
Surr: Toluene-d8	99.5	70-130		%REC	1	11/14/2003 3:17:00 PM
Surr: Toluene-d8	102	70-130		%REC	25	11/14/2003 6:28:00 PM
ANIONS BY ION CHROMATOGRAPHY			E300			Analyst: MG
Chloride	368	5.00		mg/L	10	11/18/2003 9:13:00 PM
Fluoride	1.48	0.100		mg/L	1	11/7/2003 8:26:00 PM
Sulfate	174	10.0		mg/L	10	11/18/2003 9:13:00 PM
Nitrate/Nitrite (as N)	ND	0.100		mg/L	1	11/7/2003 8:26:00 PM
Surr: Dichloroacetic acid (surr)	90.8	80-120		%REC	1	11/7/2003 8:26:00 PM
Surr: Dichloroacetic acid (surr)	115	80-120		%REC	10	11/18/2003 9:13:00 PM
ALKALINITY			E310.1			Analyst: LMD
Alkalinity, Bicarbonate (As CaCO3)	620	5.00		mg/L	1	11/18/2003
Alkalinity, Carbonate (As CaCO3)	ND	5.00		mg/L	1	11/18/2003
Alkalinity, Hydroxide (As CaCO3)	ND	5.00		mg/L	1	11/18/2003
Alkalinity, Total (As CaCO3)	620	5.00		mg/L	1	11/18/2003
CYANIDE, TOTAL			E335.3			Analyst: LMD
Cyanide	ND	0.0200		mg/L	1	11/15/2003

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time

CLIENT: Navajo Refining Company	Client Sample ID: MW-59
Work Order: 0311077	Collection Date: 11/6/2003 11:00:00 AM
Project: NCL/TCL	
Lab ID: 0311077-03	Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL		SW7470			Prep Date: 11/14/2003 Analyst: MG	
Mercury	ND	0.000200		mg/L	1	11/14/2003 2:00:09 PM
ICP METALS, TOTAL		SW6020			Prep Date: 11/12/2003 Analyst: ALR	
Aluminum	0.0892	0.0200		mg/L	2	11/15/2003 4:02:00 AM
Arsenic	0.0329	0.0100		mg/L	2	11/15/2003 4:02:00 AM
Barium	0.0145	0.0100		mg/L	2	11/15/2003 4:02:00 AM
Beryllium	ND	0.00400		mg/L	2	11/15/2003 4:02:00 AM
Boron	0.404	0.200		mg/L	10	11/14/2003 2:52:00 AM
Cadmium	ND	0.00200		mg/L	2	11/15/2003 4:02:00 AM
Calcium	348	25.0		mg/L	50	11/14/2003 8:10:00 PM
Chromium	ND	0.00400		mg/L	2	11/15/2003 4:02:00 AM
Cobalt	0.00757	0.00400		mg/L	2	11/15/2003 4:02:00 AM
Copper	0.0108	0.00400		mg/L	2	11/15/2003 4:02:00 AM
Iron	2.27	0.400		mg/L	2	11/15/2003 4:02:00 AM
Lead	ND	0.0100		mg/L	2	11/17/2003 7:15:00 PM
Magnesium	284	10.0		mg/L	50	11/14/2003 8:10:00 PM
Manganese	0.764	0.0500		mg/L	10	11/14/2003 2:52:00 AM
Nickel	0.0140	0.0100		mg/L	2	11/15/2003 4:02:00 AM
Potassium	ND	0.400		mg/L	2	11/15/2003 4:02:00 AM
Selenium	ND	0.0100		mg/L	2	11/15/2003 4:02:00 AM
Silver	ND	0.0100		mg/L	2	11/15/2003 4:02:00 AM
Sodium	243	10.0		mg/L	50	11/14/2003 8:10:00 PM
Vanadium	ND	0.0100		mg/L	2	11/15/2003 4:02:00 AM
Zinc	0.0288	0.0100		mg/L	2	11/15/2003 4:02:00 AM
SEMIVOLATILE ORGANICS BY GC/MS		SW8270			Prep Date: 11/7/2003 Analyst: HV	
1,2,4-Trichlorobenzene	ND	10		µg/L	1	11/11/2003 4:43:00 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	11/11/2003 4:43:00 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	11/11/2003 4:43:00 PM
2-Methylnaphthalene	ND	10		µg/L	1	11/11/2003 4:43:00 PM
2-Methylphenol	ND	10		µg/L	1	11/11/2003 4:43:00 PM
2-Nitroaniline	ND	10		µg/L	1	11/11/2003 4:43:00 PM
2-Nitrophenol	ND	10		µg/L	1	11/11/2003 4:43:00 PM
3-Nitroaniline	ND	10		µg/L	1	11/11/2003 4:43:00 PM
4-Methylphenol	ND	10		µg/L	1	11/11/2003 4:43:00 PM
4-Nitroaniline	ND	10		µg/L	1	11/11/2003 4:43:00 PM
4-Nitrophenol	ND	10		µg/L	1	11/11/2003 4:43:00 PM
Acenaphthene	ND	10		µg/L	1	11/11/2003 4:43:00 PM
Acenaphthylene	ND	10		µg/L	1	11/11/2003 4:43:00 PM
Aniline	ND	10		µg/L	1	11/11/2003 4:43:00 PM

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: November 21, 2003

CLIENT: Navajo Refining Company
Work Order: 0311077
Project: NCL/TCL
Lab ID: 0311077-03

Client Sample ID: MW-59
Collection Date: 11/6/2003 11:00:00 AM
Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Anthracene	ND	10		µg/L	1	11/11/2003 4:43:00 PM
Benz(a)anthracene	ND	10		µg/L	1	11/11/2003 4:43:00 PM
Benzidine	ND	10		µg/L	1	11/11/2003 4:43:00 PM
Hexachloroethane	ND	10		µg/L	1	11/11/2003 4:43:00 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	11/11/2003 4:43:00 PM
Isophorone	ND	10		µg/L	1	11/11/2003 4:43:00 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	11/11/2003 4:43:00 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	11/11/2003 4:43:00 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	11/11/2003 4:43:00 PM
Naphthalene	ND	10		µg/L	1	11/11/2003 4:43:00 PM
Nitrobenzene	ND	10		µg/L	1	11/11/2003 4:43:00 PM
Pentachlorophenol	ND	10		µg/L	1	11/11/2003 4:43:00 PM
Phenanthrene	ND	10		µg/L	1	11/11/2003 4:43:00 PM
Phenol	ND	10		µg/L	1	11/11/2003 4:43:00 PM
Pyrene	ND	10		µg/L	1	11/11/2003 4:43:00 PM
Surr: 2,4,6-Tribromophenol	112	39-153		%REC	1	11/11/2003 4:43:00 PM
Surr: 2-Fluorobiphenyl	94.8	40-147		%REC	1	11/11/2003 4:43:00 PM
Surr: 2-Fluorophenol	40.1	21-100		%REC	1	11/11/2003 4:43:00 PM
Surr: 4-Terphenyl-d14	105	39-141		%REC	1	11/11/2003 4:43:00 PM
Surr: Nitrobenzene-d5	90.4	37-140		%REC	1	11/11/2003 4:43:00 PM
Surr: Phenol-d6	24.2	11-100		%REC	1	11/11/2003 4:43:00 PM
VOLATILES BY GC/MS		SW8260			Analyst: PC	
1,1,1-Trichloroethane	ND	5.0		µg/L	1	11/14/2003 4:39:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/L	1	11/14/2003 4:39:00 PM
1,1,2-Trichloroethane	ND	5.0		µg/L	1	11/14/2003 4:39:00 PM
1,1-Dichloroethane	ND	5.0		µg/L	1	11/14/2003 4:39:00 PM
1,1-Dichloroethene	ND	5.0		µg/L	1	11/14/2003 4:39:00 PM
1,2-Dichloroethane	ND	5.0		µg/L	1	11/14/2003 4:39:00 PM
2-Butanone	ND	10		µg/L	1	11/14/2003 4:39:00 PM
2-Chloroethyl vinyl ether	ND	10		µg/L	1	11/14/2003 4:39:00 PM
2-Hexanone	ND	10		µg/L	1	11/14/2003 4:39:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	11/14/2003 4:39:00 PM
Acetone	ND	10		µg/L	1	11/14/2003 4:39:00 PM
Benzene	27	5.0		µg/L	1	11/14/2003 4:39:00 PM
Bromodichloromethane	ND	5.0		µg/L	1	11/14/2003 4:39:00 PM
Bromoform	ND	5.0		µg/L	1	11/14/2003 4:39:00 PM
Bromomethane	ND	5.0		µg/L	1	11/14/2003 4:39:00 PM
Carbon disulfide	ND	10		µg/L	1	11/14/2003 4:39:00 PM
Carbon tetrachloride	ND	5.0		µg/L	1	11/14/2003 4:39:00 PM
Chlorobenzene	ND	5.0		µg/L	1	11/14/2003 4:39:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: November 21, 2003

CLIENT: Navajo Refining Company	Client Sample ID: MW-59
Work Order: 0311077	Collection Date: 11/6/2003 11:00:00 AM
Project: NCL/TCL	
Lab ID: 0311077-03	Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chloroethane	ND	5.0		µg/L	1	11/14/2003 4:39:00 PM
Chloroform	ND	5.0		µg/L	1	11/14/2003 4:39:00 PM
Chloromethane	ND	5.0		µg/L	1	11/14/2003 4:39:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	11/14/2003 4:39:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	11/14/2003 4:39:00 PM
Ethylbenzene	15	5.0		µg/L	1	11/14/2003 4:39:00 PM
m,p-Xylene	ND	10		µg/L	1	11/14/2003 4:39:00 PM
Methylene chloride	ND	10		µg/L	1	11/14/2003 4:39:00 PM
Styrene	ND	5.0		µg/L	1	11/14/2003 4:39:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	11/14/2003 4:39:00 PM
Toluene	ND	5.0		µg/L	1	11/14/2003 4:39:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	11/14/2003 4:39:00 PM
Trichloroethene	ND	5.0		µg/L	1	11/14/2003 4:39:00 PM
Vinyl acetate	ND	10		µg/L	1	11/14/2003 4:39:00 PM
Vinyl chloride	ND	2.0		µg/L	1	11/14/2003 4:39:00 PM
Xylenes, Total	ND	15		µg/L	1	11/14/2003 4:39:00 PM
Surr: 1,2-Dichloroethane-d4	94.5	70-130		%REC	1	11/14/2003 4:39:00 PM
Surr: 4-Bromofluorobenzene	101	70-130		%REC	1	11/14/2003 4:39:00 PM
Surr: Dibromofluoromethane	99.0	70-130		%REC	1	11/14/2003 4:39:00 PM
Surr: Toluene-d8	103	70-130		%REC	1	11/14/2003 4:39:00 PM
ANIONS BY ION CHROMATOGRAPHY		E300				Analyst: MG
Chloride	219	5.00		mg/L	10	11/18/2003 9:46:00 PM
Fluoride	1.51	0.100		mg/L	1	11/7/2003 8:59:00 PM
Sulfate	1,540	100		mg/L	100	11/18/2003 10:18:00 PM
Nitrate/Nitrite (as N)	ND	0.100		mg/L	1	11/7/2003 8:59:00 PM
Surr: Dichloroacetic acid (surr)	91.4	80-120		%REC	1	11/7/2003 8:59:00 PM
Surr: Dichloroacetic acid (surr)	108	80-120		%REC	10	11/18/2003 9:46:00 PM
Surr: Dichloroacetic acid (surr)	116	80-120		%REC	100	11/18/2003 10:18:00 PM
ALKALINITY		E310.1				Analyst: LMD
Alkalinity, Bicarbonate (As CaCO3)	520	5.00		mg/L	1	11/18/2003
Alkalinity, Carbonate (As CaCO3)	ND	5.00		mg/L	1	11/18/2003
Alkalinity, Hydroxide (As CaCO3)	ND	5.00		mg/L	1	11/18/2003
Alkalinity, Total (As CaCO3)	520	5.00		mg/L	1	11/18/2003
CYANIDE, TOTAL		E335.3				Analyst: LMD
Cyanide	ND	0.0200		mg/L	1	11/15/2003

Qualifiers: ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
B - Analyte detected in the associated Method Blank	E - Value above quantitation range
* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

CLIENT: Navajo Refining Company
 Work Order: 0311077
 Project: NCL/TCL
 Lab ID: 0311077-04

Client Sample ID: MW-58
 Collection Date: 11/6/2003 2:15:00 PM
 Matrix: WATER

Analyses	Result	Report Limit	Qual Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL					
		SW7470		Prep Date: 11/14/2003	Analyst: MG
Mercury	ND	0.000200	mg/L	1	11/14/2003 2:01:39 PM
ICP METALS, TOTAL					
		SW6020		Prep Date: 11/12/2003	Analyst: ALR
Aluminum	0.261	0.0200	mg/L	2	11/15/2003 4:07:00 AM
Arsenic	0.0482	0.0100	mg/L	2	11/15/2003 4:07:00 AM
Barium	0.0192	0.0100	mg/L	2	11/15/2003 4:07:00 AM
Beryllium	ND	0.00400	mg/L	2	11/15/2003 4:07:00 AM
Boron	0.242	0.200	mg/L	10	11/14/2003 2:57:00 AM
Cadmium	ND	0.00200	mg/L	2	11/15/2003 4:07:00 AM
Calcium	432	10.0	mg/L	20	11/14/2003 8:23:00 PM
Chromium	ND	0.00400	mg/L	2	11/15/2003 4:07:00 AM
Cobalt	ND	0.00400	mg/L	2	11/15/2003 4:07:00 AM
Copper	0.00931	0.00400	mg/L	2	11/15/2003 4:07:00 AM
Iron	1.12	0.400	mg/L	2	11/15/2003 4:07:00 AM
Lead	ND	0.0100	mg/L	2	11/17/2003 7:19:00 PM
Magnesium	259	4.00	mg/L	20	11/17/2003 6:47:00 PM
Manganese	0.523	0.0500	mg/L	10	11/14/2003 2:57:00 AM
Nickel	ND	0.0100	mg/L	2	11/15/2003 4:07:00 AM
Potassium	ND	0.400	mg/L	2	11/15/2003 4:07:00 AM
Selenium	ND	0.0100	mg/L	2	11/15/2003 4:07:00 AM
Silver	ND	0.0100	mg/L	2	11/15/2003 4:07:00 AM
Sodium	151	4.00	mg/L	20	11/17/2003 6:47:00 PM
Vanadium	ND	0.0100	mg/L	2	11/15/2003 4:07:00 AM
Zinc	0.0248	0.0100	mg/L	2	11/15/2003 4:07:00 AM
SEMIVOLATILE ORGANICS BY GC/MS					
		SW8270		Prep Date: 11/7/2003	Analyst: HV
1,2,4-Trichlorobenzene	ND	10	µg/L	1	11/11/2003 5:09:00 PM
2,4,5-Trichlorophenol	ND	10	µg/L	1	11/11/2003 5:09:00 PM
2,4,6-Trichlorophenol	ND	10	µg/L	1	11/11/2003 5:09:00 PM
2-Methylnaphthalene	ND	10	µg/L	1	11/11/2003 5:09:00 PM
2-Methylphenol	ND	10	µg/L	1	11/11/2003 5:09:00 PM
2-Nitroaniline	ND	10	µg/L	1	11/11/2003 5:09:00 PM
2-Nitrophenol	ND	10	µg/L	1	11/11/2003 5:09:00 PM
3-Nitroaniline	ND	10	µg/L	1	11/11/2003 5:09:00 PM
4-Methylphenol	ND	10	µg/L	1	11/11/2003 5:09:00 PM
4-Nitroaniline	ND	10	µg/L	1	11/11/2003 5:09:00 PM
4-Nitrophenol	ND	10	µg/L	1	11/11/2003 5:09:00 PM
Acenaphthene	ND	10	µg/L	1	11/11/2003 5:09:00 PM
Acenaphthylene	ND	10	µg/L	1	11/11/2003 5:09:00 PM
Aniline	ND	10	µg/L	1	11/11/2003 5:09:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time

CLIENT: Navajo Refining Company
 Work Order: 0311077
 Project: NCL/TCL
 Lab ID: 0311077-04

Client Sample ID: MW-58
 Collection Date: 11/6/2003 2:15:00 PM
 Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Anthracene	ND	10		µg/L	1	11/11/2003 5:09:00 PM
Benz(a)anthracene	ND	10		µg/L	1	11/11/2003 5:09:00 PM
Benzidine	ND	10		µg/L	1	11/11/2003 5:09:00 PM
Hexachloroethane	ND	10		µg/L	1	11/11/2003 5:09:00 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	11/11/2003 5:09:00 PM
Isophorone	ND	10		µg/L	1	11/11/2003 5:09:00 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	11/11/2003 5:09:00 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	11/11/2003 5:09:00 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	11/11/2003 5:09:00 PM
Naphthalene	ND	10		µg/L	1	11/11/2003 5:09:00 PM
Nitrobenzene	ND	10		µg/L	1	11/11/2003 5:09:00 PM
Pentachlorophenol	ND	10		µg/L	1	11/11/2003 5:09:00 PM
Phenanthrene	ND	10		µg/L	1	11/11/2003 5:09:00 PM
Phenol	ND	10		µg/L	1	11/11/2003 5:09:00 PM
Pyrene	ND	10		µg/L	1	11/11/2003 5:09:00 PM
Surr: 2,4,6-Tribromophenol	115	39-153		%REC	1	11/11/2003 5:09:00 PM
Surr: 2-Fluorobiphenyl	97.0	40-147		%REC	1	11/11/2003 5:09:00 PM
Surr: 2-Fluorophenol	38.6	21-100		%REC	1	11/11/2003 5:09:00 PM
Surr: 4-Terphenyl-d14	106	39-141		%REC	1	11/11/2003 5:09:00 PM
Surr: Nitrobenzene-d5	89.0	37-140		%REC	1	11/11/2003 5:09:00 PM
Surr: Phenol-d6	24.7	11-100		%REC	1	11/11/2003 5:09:00 PM

VOLATILES BY GC/MS

SW8260

Analyst: PC

1,1,1-Trichloroethane	ND	5.0		µg/L	1	11/14/2003 6:01:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/L	1	11/14/2003 6:01:00 PM
1,1,2-Trichloroethane	ND	5.0		µg/L	1	11/14/2003 6:01:00 PM
1,1-Dichloroethane	ND	5.0		µg/L	1	11/14/2003 6:01:00 PM
1,1-Dichloroethene	ND	5.0		µg/L	1	11/14/2003 6:01:00 PM
1,2-Dichloroethane	ND	5.0		µg/L	1	11/14/2003 6:01:00 PM
2-Butanone	ND	10		µg/L	1	11/14/2003 6:01:00 PM
2-Chloroethyl vinyl ether	ND	10		µg/L	1	11/14/2003 6:01:00 PM
2-Hexanone	ND	10		µg/L	1	11/14/2003 6:01:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	11/14/2003 6:01:00 PM
Acetone	ND	10		µg/L	1	11/14/2003 6:01:00 PM
Benzene	370	25		µg/L	5	11/17/2003 9:08:00 PM
Bromodichloromethane	ND	5.0		µg/L	1	11/14/2003 6:01:00 PM
Bromoform	ND	5.0		µg/L	1	11/14/2003 6:01:00 PM
Bromomethane	ND	5.0		µg/L	1	11/14/2003 6:01:00 PM
Carbon disulfide	ND	10		µg/L	1	11/14/2003 6:01:00 PM
Carbon tetrachloride	ND	5.0		µg/L	1	11/14/2003 6:01:00 PM
Chlorobenzene	ND	5.0		µg/L	1	11/14/2003 6:01:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time

CLIENT: Navajo Refining Company
 Work Order: 0311077
 Project: NCL/TCL
 Lab ID: 0311077-04

Client Sample ID: MW-58
 Collection Date: 11/6/2003 2:15:00 PM
 Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chloroethane	ND	5.0		µg/L	1	11/14/2003 6:01:00 PM
Chloroform	ND	5.0		µg/L	1	11/14/2003 6:01:00 PM
Chloromethane	ND	5.0		µg/L	1	11/14/2003 6:01:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	11/14/2003 6:01:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	11/14/2003 6:01:00 PM
Ethylbenzene	56	5.0		µg/L	1	11/14/2003 6:01:00 PM
m,p-Xylene	17	10		µg/L	1	11/14/2003 6:01:00 PM
Methylene chloride	ND	10		µg/L	1	11/14/2003 6:01:00 PM
Styrene	ND	5.0		µg/L	1	11/14/2003 6:01:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	11/14/2003 6:01:00 PM
Toluene	ND	5.0		µg/L	1	11/14/2003 6:01:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	11/14/2003 6:01:00 PM
Trichloroethene	ND	5.0		µg/L	1	11/14/2003 6:01:00 PM
Vinyl acetate	ND	10		µg/L	1	11/14/2003 6:01:00 PM
Vinyl chloride	ND	2.0		µg/L	1	11/14/2003 6:01:00 PM
Xylenes, Total	18	15		µg/L	1	11/14/2003 6:01:00 PM
Surr: 1,2-Dichloroethane-d4	94.5	70-130		%REC	1	11/14/2003 6:01:00 PM
Surr: 1,2-Dichloroethane-d4	90.6	70-130		%REC	5	11/17/2003 9:08:00 PM
Surr: 4-Bromofluorobenzene	101	70-130		%REC	1	11/14/2003 6:01:00 PM
Surr: 4-Bromofluorobenzene	103	70-130		%REC	5	11/17/2003 9:08:00 PM
Surr: Dibromofluoromethane	94.9	70-130		%REC	5	11/17/2003 9:08:00 PM
Surr: Dibromofluoromethane	98.8	70-130		%REC	1	11/14/2003 6:01:00 PM
Surr: Toluene-d8	101	70-130		%REC	1	11/14/2003 6:01:00 PM
Surr: Toluene-d8	94.2	70-130		%REC	5	11/17/2003 9:08:00 PM
ANIONS BY ION CHROMATOGRAPHY		E300		Analyst: MG		
Chloride	177	5.00		mg/L	10	11/18/2003 10:51:00 PM
Fluoride	1.65	0.100		mg/L	1	11/7/2003 9:31:00 PM
Sulfate	1,600	100		mg/L	100	11/18/2003 11:23:00 PM
Nitrate/Nitrite (as N)	ND	0.100		mg/L	1	11/7/2003 9:31:00 PM
Surr: Dichloroacetic acid (surr)	117	80-120		%REC	1	11/7/2003 9:31:00 PM
Surr: Dichloroacetic acid (surr)	117	80-120		%REC	10	11/18/2003 10:51:00 PM
Surr: Dichloroacetic acid (surr)	108	80-120		%REC	100	11/18/2003 11:23:00 PM
ALKALINITY		E310.1		Analyst: LMD		
Alkalinity, Bicarbonate (As CaCO3)	480	5.00		mg/L	1	11/18/2003
Alkalinity, Carbonate (As CaCO3)	ND	5.00		mg/L	1	11/18/2003
Alkalinity, Hydroxide (As CaCO3)	ND	5.00		mg/L	1	11/18/2003
Alkalinity, Total (As CaCO3)	480	5.00		mg/L	1	11/18/2003
CYANIDE, TOTAL		E335.3		Analyst: LMD		
Cyanide	ND	0.0200		mg/L	1	11/15/2003

Qualifiers: ND - Not Detected at the Reporting Limit
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 E - Value above quantitation range
 H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: Nov 21 2003

CLIENT: Navajo Refining Company

QC BATCH REPORT

Work Order: 0311077

Project: NCL/TCL

Batch ID: 7189 InstrumentID: ICP4500

MBLK Sample ID: MBLKW1-111203 Test Code: SW6020 Units: mg/L Analysis Date: 11/13/03 20:27

Client ID: Run ID: ICP4500_031113A SeqNo: 393997 Prep Date: 11/12/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.00719	0.010								J
Arsenic	ND	0.0050								
Barium	ND	0.0050								
Beryllium	ND	0.0020								
Boron	ND	0.020								
Cadmium	ND	0.0010								
Calcium	ND	0.50								
Chromium	ND	0.0020								
Cobalt	ND	0.0020								
Copper	ND	0.0020								
Iron	ND	0.20								
Lead	ND	0.0050								
Magnesium	ND	0.20								
Manganese	ND	0.0050								
Nickel	ND	0.0050								
Potassium	ND	0.20								
Selenium	ND	0.0050								
Silver	ND	0.0050								
Sodium	ND	0.20								
Vanadium	ND	0.0050								
Zinc	ND	0.0050								

ND - Not Detected at the Reporting Limit

- Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0311077
 Project: NCL/TCL

QC BATCH REPORT

Batch ID: 7189 InstrumentID: ICP4500

LCS Sample ID: MLC5W1-111203 Test Code: SW6020 Units: mg/L Analysis Date: 11/13/03 20:31
 Client ID: Run ID: ICP4500_031113A SeqNo: 393998 Prep Date: 11/12/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1117	0.010	0.1	0	112	80-120	0			
Arsenic	0.1005	0.0050	0.1	0	100	80-120	0			
Barium	0.09613	0.0050	0.1	0	96.1	80-120	0			
Beryllium	0.1029	0.0020	0.1	0	103	80-120	0			
Boron	0.515	0.020	0.5	0	103	80-120	0			
Cadmium	0.09741	0.0010	0.1	0	97.4	80-120	0			
Calcium	10.29	0.50	10	0	103	80-120	0			
Chromium	0.1007	0.0020	0.1	0	101	80-120	0			
Cobalt	0.09969	0.0020	0.1	0	99.7	80-120	0			
Copper	0.09817	0.0020	0.1	0	98.2	80-120	0			
Iron	10.02	0.20	10	0	100	80-120	0			
Lead	0.09707	0.0050	0.1	0	97.1	80-120	0			
Magnesium	10.93	0.20	10	0	109	80-120	0			
Manganese	0.1	0.0050	0.1	0	100	80-120	0			
Nickel	0.1012	0.0050	0.1	0	101	80-120	0			
Potassium	10.43	0.20	10	0	104	80-120	0			
Selenium	0.09269	0.0050	0.1	0	92.7	80-120	0			
Silver	0.09908	0.0050	0.1	0	99.1	80-120	0			
Sodium	10.73	0.20	10	0	107	80-120	0			
Vanadium	0.1014	0.0050	0.1	0	101	80-120	0			
Zinc	0.1005	0.0050	0.1	0	100	80-120	0			

ND - Not Detected at the Reporting Limit

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R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

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E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0311077
 Project: NCL/TCL

QC BATCH REPORT

Batch ID: 7189 InstrumentID: ICP4500

MS Sample ID: 0311076-06EMS Test Code: SW6020 Units: mg/L Analysis Date: 11/13/03 20:57

Client ID: Run ID: ICP4500_031113A SeqNo: 394003 Prep Date: 11/12/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1534	0.010	0.1	0.04522	108	75-125	0			
Arsenic	0.1122	0.0050	0.1	0.01315	99	75-125	0			
Barium	0.6082	0.0050	0.1	0.5077	100	75-125	0			EO
Beryllium	0.09771	0.0020	0.1	0.0001617	97.5	75-125	0			
Boron	0.5501	0.020	0.5	0.02708	105	75-125	0			
Cadmium	0.09461	0.0010	0.1	-0.0000198	94.6	75-125	0			
Calcium	26.65	0.50	10	16.85	98	75-125	0			
Chromium	0.1027	0.0020	0.1	0.003094	99.6	75-125	0			
Cobalt	0.1597	0.0020	0.1	0.06264	97.1	75-125	0			
Copper	0.09601	0.0020	0.1	0.001291	94.7	75-125	0			
Iron	19.23	0.20	10	9.152	101	75-125	0			
Lead	0.09803	0.0050	0.1	-0.0001322	98.2	75-125	0			
Magnesium	17.89	0.20	10	7.621	103	75-125	0			
Manganese	7.539	0.0050	0.1	7.605	-66	75-125	0			SEO
Nickel	0.1102	0.0050	0.1	0.01394	96.3	75-125	0			
Potassium	12.01	0.20	10	1.572	104	75-125	0			
Selenium	0.0941	0.0050	0.1	0.0005487	93.6	75-125	0			
Silver	0.09552	0.0050	0.1	-0.00001288	95.5	75-125	0			
Sodium	40.76	0.20	10	30.7	101	75-125	0			
Vanadium	0.1008	0.0050	0.1	0.0000104	101	75-125	0			
Zinc	0.09797	0.0050	0.1	0.004013	94	75-125	0			

ND - Not Detected at the Reporting Limit

- Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0311077
 Project: NCL/TCL

QC BATCH REPORT

Batch ID: 7189 InstrumentID: ICP4500

MSD Sample ID: 0311076-06EMSD Test Code: SW6020 Units: mg/L Analysis Date: 11/13/03 21:02

Client ID: Run ID: ICP4500_031113A SeqNo: 394004 Prep Date: 11/12/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1548	0.010	0.1	0.04522	110	75-125	0.1534	0.909	25	
Arsenic	0.1058	0.0050	0.1	0.01315	92.6	75-125	0.1122	5.87	25	
Barium	0.5832	0.0050	0.1	0.5077	75.5	75-125	0.6082	4.2	25	EO
Beryllium	0.09471	0.0020	0.1	0.0001617	94.5	75-125	0.09771	3.12	25	
Boron	0.5484	0.020	0.5	0.02708	104	75-125	0.5501	0.31	25	
Cadmium	0.09209	0.0010	0.1	-0.0000198	92.1	75-125	0.09461	2.7	25	
Calcium	25.7	0.50	10	16.85	88.5	75-125	26.65	3.63	25	
Chromium	0.09808	0.0020	0.1	0.003094	95	75-125	0.1027	4.6	25	
Cobalt	0.1526	0.0020	0.1	0.06264	90	75-125	0.1597	4.55	25	
Copper	0.09226	0.0020	0.1	0.001291	91	75-125	0.09601	3.98	25	
Iron	18.47	0.20	10	9.152	93.2	75-125	19.23	4.03	25	
Lead	0.09384	0.0050	0.1	-0.0001322	94	75-125	0.09803	4.37	25	
Magnesium	17.16	0.20	10	7.621	95.4	75-125	17.89	4.17	25	
Manganese	7.28	0.0050	0.1	7.605	-325	75-125	7.539	3.5	25	SEO
Nickel	0.1061	0.0050	0.1	0.01394	92.2	75-125	0.1102	3.79	25	
Potassium	11.49	0.20	10	1.572	99.2	75-125	12.01	4.43	25	
Selenium	0.08971	0.0050	0.1	0.0005487	89.2	75-125	0.0941	4.78	25	
Silver	0.09181	0.0050	0.1	-0.00001288	91.8	75-125	0.09552	3.96	25	
Sodium	38.95	0.20	10	30.7	82.5	75-125	40.76	4.54	25	
Vanadium	0.09706	0.0050	0.1	0.0000104	97	75-125	0.1008	3.78	25	
Zinc	0.09383	0.0050	0.1	0.004013	89.8	75-125	0.09797	4.32	25	

ND - Not Detected at the Reporting Limit

- Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0311077
 Project: NCL/TCL

QC BATCH REPORT

Batch ID: 7189 InstrumentID: ICP4500

DUP Sample ID: 0311076-06EDUP Test Code: SW6020 Units: mg/L Analysis Date: 11/13/03 20:53

Client ID: Run ID: ICP4500_031113A SeqNo: 394002 Prep Date: 11/12/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.04074	0.010	0	0	0	0-0	0.04522	10.4	25	
Arsenic	0.01246	0.0050	0	0	0	0-0	0.01315	5.39	25	
Barium	0.5	0.0050	0	0	0	0-0	0.5077	1.53	25	
Beryllium	ND	0.0020	0	0	0	0-0	0.0001617	0	25	
Boron	0.01959	0.020	0	0	0	0-0	0.02708	0	25	J
Cadmium	ND	0.0010	0	0	0	0-0	-0.0000198	0	25	
Calcium	16.28	0.50	0	0	0	0-0	16.85	3.44	25	
Chromium	0.00283	0.0020	0	0	0	0-0	0.003094	8.91	25	
Cobalt	0.06062	0.0020	0	0	0	0-0	0.06264	3.28	25	
Copper	0.001307	0.0020	0	0	0	0-0	0.001291	0	25	J
Iron	8.957	0.20	0	0	0	0-0	9.152	2.15	25	
Lead	ND	0.0050	0	0	0	0-0	-0.0001322	0	25	
Magnesium	7.493	0.20	0	0	0	0-0	7.621	1.69	25	
Nickel	0.01365	0.0050	0	0	0	0-0	0.01394	2.1	25	
Potassium	1.531	0.20	0	0	0	0-0	1.572	2.64	25	
Selenium	ND	0.0050	0	0	0	0-0	0.0005487	0	25	
Silver	ND	0.0050	0	0	0	0-0	-0.00001288	0	25	
Sodium	30.19	0.20	0	0	0	0-0	30.7	1.68	25	
Vanadium	ND	0.0050	0	0	0	0-0	0.0000104	0	25	
Zinc	0.006179	0.0050	0	0	0	0-0	0.004013	42.5	25	R

DUP Sample ID: 0311076-06EDUP Test Code: SW6020 Units: mg/L Analysis Date: 11/14/03 2:30

Client ID: Run ID: ICP4500_031113A SeqNo: 394267 Prep Date: 11/12/2003 DF: 10

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Manganese	4.367	0.050	0	0	0	0-0	4.196	3.99	25	

The following samples were analyzed in this batch:

0311077-01C	0311077-02C	0311077-03C
0311077-04C		

ND - Not Detected at the Reporting Limit

A - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

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E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0311077
 Project: NCL/TCL

QC BATCH REPORT

Batch ID: 7207 InstrumentID: Mercury

MBLK Sample ID: GBLKW1-111403 Test Code: SW7470 Units: mg/L Analysis Date: 11/14/03 13:40

Client ID: Run ID: MERCURY_031114A SeqNo: 394290 Prep Date: 11/14/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.00020								

LCS Sample ID: GLCSW1-111403 Test Code: SW7470 Units: mg/L Analysis Date: 11/14/03 13:44

Client ID: Run ID: MERCURY_031114A SeqNo: 394291 Prep Date: 11/14/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00507	0.00020	0.005	0	101	83-115	0			

LCSD Sample ID: GLCSDW1-111403 Test Code: SW7470 Units: mg/L Analysis Date: 11/14/03 13:47

Client ID: Run ID: MERCURY_031114A SeqNo: 394292 Prep Date: 11/14/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00508	0.00020	0.005	0	102	83-115	0.00507	0.197	20	

MS Sample ID: 0311077-01CMS Test Code: SW7470 Units: mg/L Analysis Date: 11/14/03 13:52

Client ID: NCL-33 Run ID: MERCURY_031114A SeqNo: 394295 Prep Date: 11/14/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00465	0.00020	0.005	-0.000006	93.1	70-124	0			

MSD Sample ID: 0311077-01CMSD Test Code: SW7470 Units: mg/L Analysis Date: 11/14/03 13:54

Client ID: NCL-33 Run ID: MERCURY_031114A SeqNo: 394296 Prep Date: 11/14/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00442	0.00020	0.005	-0.000006	88.5	70-124	0.00465	5.07	20	

DUP Sample ID: 0311077-01CDUP Test Code: SW7470 Units: mg/L Analysis Date: 11/14/03 13:50

Client ID: NCL-33 Run ID: MERCURY_031114A SeqNo: 394294 Prep Date: 11/14/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.00020	0	0	0	0-0	-0.000006	0	20	

The following samples were analyzed in this batch:

0311077-01C	0311077-02C	0311077-03C
0311077-04C		

ND - Not Detected at the Reporting Limit
 S - Spike Recovery outside accepted recovery limits
 B - Analyte detected in assoc. Method Blank
 J - Analyte detected below quantitation limits
 R - RPD outside accepted recovery limits
 U - Analyzed for but not detected
 O - Referenced analyte value is > 4 times amount spiked
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0311077
 Project: NCL/TCL

QC BATCH REPORT

Batch ID: 7153 InstrumentID: SV-3

MBLK Sample ID: SBLKW1-031107 Test Code: SW8270 Units: µg/L Analysis Date: 11/11/03 11:25

Client ID: Run ID: SV-3_031111A SeqNo: 393027 Prep Date: 11/7/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	ND	10								
2,4,5-Trichlorophenol	ND	10								
2,4,6-Trichlorophenol	ND	10								
2-Methylnaphthalene	ND	10								
2-Methylphenol	ND	10								
2-Nitroaniline	ND	10								
2-Nitrophenol	ND	10								
3-Nitroaniline	ND	10								
4-Methylphenol	ND	10								
4-Nitroaniline	ND	10								
4-Nitrophenol	ND	10								
Acenaphthene	ND	10								
Acenaphthylene	ND	10								
Aniline	ND	10								
Anthracene	ND	10								
Benz(a)anthracene	ND	10								
Benzidine	ND	10								
Hexachloroethane	ND	10								
Indeno(1,2,3-cd)pyrene	ND	10								
Isophorone	ND	10								
N-Nitrosodi-n-propylamine	ND	10								
N-Nitrosodimethylamine	ND	10								
N-Nitrosodiphenylamine	ND	10								
Naphthalene	ND	10								
Nitrobenzene	ND	10								
Pentachlorophenol	ND	10								
Phenanthrene	ND	10								
Phenol	ND	10								
Pyrene	ND	10								
1,4-Dichlorobenzene-d4	40	0								
Acenaphthene-d10	40	0								
Chrysene-d12	40	0								
Naphthalene-d8	40	0								
Perylene-d12	40	0								
Phenanthrene-d10	40	0								
Surr: 2,4,6-Tribromophenol	106.7	0	100	0	107	39-153		0		
Surr: 2-Fluorobiphenyl	91.4	0	100	0	91.4	40-147		0		
Surr: 2-Fluorophenol	57.28	0	100	0	57.3	21-100		0		
Surr: 4-Terphenyl-d14	110.9	0	100	0	111	39-141		0		
Surr: Nitrobenzene-d5	87.33	0	100	0	87.3	37-140		0		
Surr: Phenol-d6	41.4	0	100	0	41.4	11-100		0		

ND - Not Detected at the Reporting Limit

- Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0311077
 Project: NCL/TCL

QC BATCH REPORT

Batch ID: 7153 InstrumentID: SV-3

LCS Sample ID: SLCSW1-031107 Test Code: SW8270 Units: µg/L Analysis Date: 11/11/03 11:51

Client ID: Run ID: SV-3_031111A SeqNo: 393028 Prep Date: 11/7/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	44.85	10	50	0	89.7	50-115	0			
2,4,5-Trichlorophenol	104.7	10	100	0	105	72-118	0			
2,4,6-Trichlorophenol	100.6	10	100	0	101	72-117	0			
2-Methylnaphthalene	44.8	10	50	0	89.6	47-122	0			
2-Methylphenol	83.96	10	100	0	84	51-115	0			
2-Nitroaniline	48.87	10	50	0	97.7	73-119	0			
2-Nitrophenol	91.35	10	100	0	91.4	60-119	0			
3-Nitroaniline	46.96	10	50	0	93.9	61-118	0			
4-Methylphenol	121	10	150	0	80.6	44-115	0			
4-Nitroaniline	49.48	10	50	0	99	61-123	0			
4-Nitrophenol	55.41	10	100	0	55.4	17-100	0			
Acenaphthene	49.19	10	50	0	98.4	68-115	0			
Acenaphthylene	48.48	10	50	0	97	67-116	0			
Anthracene	52.01	10	50	0	104	72-124	0			
Benz(a)anthracene	47.76	10	50	0	95.5	55-131	0			
Benzidine	21.78	10	50	0	43.6	10-115	0			
Hexachloroethane	45.89	10	50	0	91.8	46-115	0			
Indeno(1,2,3-cd)pyrene	40.2	10	50	0	80.4	42-123	0			
Isophorone	49.38	10	50	0	98.8	63-117	0			
N-Nitrosodi-n-propylamine	46.8	10	50	0	93.6	67-115	0			
N-Nitrosodimethylamine	29.98	10	50	0	60	28-115	0			
N-Nitrosodiphenylamine	57.59	10	50	0	115	72-144	0			
Naphthalene	44.9	10	50	0	89.8	52-115	0			
Nitrobenzene	46	10	50	0	92	65-115	0			
Pentachlorophenol	104	10	100	0	104	65-123	0			
Phenanthrene	49.62	10	50	0	99.2	69-119	0			
Phenol	51.01	10	100	0	51	16-115	0			
Pyrene	49.23	10	50	0	98.5	51-130	0			
Surr: 2,4,6-Tribromophenol	109.4	0	100	0	109	39-153	0			
Surr: 2-Fluorobiphenyl	101.2	0	100	0	101	40-147	0			
Surr: 2-Fluorophenol	68.87	0	100	0	68.9	21-100	0			
Surr: 4-Terphenyl-d14	105.8	0	100	0	106	39-141	0			
Surr: Nitrobenzene-d5	91.69	0	100	0	91.7	37-140	0			
Surr: Phenol-d6	48.61	0	100	0	48.6	11-100	0			

ND - Not Detected at the Reporting Limit

- Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0311077
 Project: NCL/TCL

QC BATCH REPORT

Batch ID: 7153 InstrumentID: SV-3

LCSD Sample ID: SLCSDW1-031107 Test Code: SW8270 Units: µg/L Analysis Date: 11/11/03 12:18

Client ID: Run ID: SV-3_031111A SeqNo: 393029 Prep Date: 11/7/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	48.4	10	50	0	96.8	50-115	44.85	7.61	30	
2,4,5-Trichlorophenol	101.5	10	100	0	101	72-118	104.7	3.07	30	
2,4,6-Trichlorophenol	99.44	10	100	0	99.4	72-117	100.6	1.12	30	
2-Methylnaphthalene	46.36	10	50	0	92.7	47-122	44.8	3.44	30	
2-Methylphenol	85.28	10	100	0	85.3	51-115	83.96	1.56	30	
2-Nitroaniline	48.84	10	50	0	97.7	73-119	48.87	0.046	30	
2-Nitrophenol	97.37	10	100	0	97.4	60-119	91.35	6.37	30	
3-Nitroaniline	49.29	10	50	0	98.6	61-118	46.96	4.83	30	
4-Methylphenol	122.3	10	150	0	81.5	44-115	121	1.08	30	
4-Nitroaniline	50.69	10	50	0	101	61-123	49.48	2.43	30	
4-Nitrophenol	53.54	10	100	0	53.5	17-100	55.41	3.43	30	
Acenaphthene	49.27	10	50	0	98.5	68-115	49.19	0.15	30	
Acenaphthylene	48.4	10	50	0	96.8	67-116	48.48	0.158	30	
Anthracene	53.32	10	50	0	107	72-124	52.01	2.49	30	
Benz(a)anthracene	49.33	10	50	0	98.7	55-131	47.76	3.24	30	
Benzidine	24.16	10	50	0	48.3	10-115	21.78	10.4	30	
Hexachloroethane	47.14	10	50	0	94.3	46-115	45.89	2.69	30	
Indeno(1,2,3-cd)pyrene	39.76	10	50	0	79.5	42-123	40.2	1.1	30	
Isophorone	51.21	10	50	0	102	63-117	49.38	3.62	30	
N-Nitrosodi-n-propylamine	48.62	10	50	0	97.2	67-115	46.8	3.82	30	
N-Nitrosodimethylamine	30.39	10	50	0	60.8	28-115	29.98	1.35	30	
N-Nitrosodiphenylamine	60.09	10	50	0	120	72-144	57.59	4.24	30	
Naphthalene	46.81	10	50	0	93.6	52-115	44.9	4.16	30	
Nitrobenzene	48.4	10	50	0	96.8	65-115	46	5.08	30	
Pentachlorophenol	110.4	10	100	0	110	65-123	104	5.96	30	
Phenanthrene	50.99	10	50	0	102	69-119	49.62	2.73	30	
Phenol	49.94	10	100	0	49.9	16-115	51.01	2.13	30	
Pyrene	49.45	10	50	0	98.9	51-130	49.23	0.45	30	
Surr: 2,4,6-Tribromophenol	111.2	0	100	0	111	39-153	109.4	1.67	30	
Surr: 2-Fluorobiphenyl	101.1	0	100	0	101	40-147	101.2	0.0287	30	
Surr: 2-Fluorophenol	66.9	0	100	0	66.9	21-100	68.87	2.9	30	
Surr: 4-Terphenyl-d14	106.9	0	100	0	107	39-141	105.8	1.06	30	
Surr: Nitrobenzene-d5	97.6	0	100	0	97.6	37-140	91.69	6.24	30	
Surr: Phenol-d6	46.9	0	100	0	46.9	11-100	48.61	3.58	30	

The following samples were analyzed in this batch:

0311077-01E	0311077-02E	0311077-03E
0311077-04E		

ND - Not Detected at the Reporting Limit

L - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0311077
 Project: NCL/TCL

QC BATCH REPORT

Batch ID: R17252 InstrumentID: VOA_I

MBLK Sample ID: VBLKW-1114 Test Code: SW8260 Units: µg/L Analysis Date: 11/14/03 13:28

Client ID: Run ID: VOA_I_031114A SeqNo: 394736 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	ND	5.0								
1,1,2,2-Tetrachloroethane	ND	5.0								
1,1,2-Trichloroethane	ND	5.0								
1,1-Dichloroethane	ND	5.0								
1,1-Dichloroethene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
2-Butanone	ND	10								
2-Chloroethyl vinyl ether	ND	10								
2-Hexanone	ND	10								
4-Methyl-2-pentanone	ND	10								
Acetone	ND	10								
Benzene	ND	5.0								
Bromodichloromethane	ND	5.0								
Bromoform	ND	5.0								
Bromomethane	ND	5.0								
Carbon disulfide	ND	10								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroethane	ND	5.0								
Chloroform	ND	5.0								
Chloromethane	ND	5.0								
cis-1,3-Dichloropropene	ND	5.0								
Dibromochloromethane	ND	5.0								
Ethylbenzene	ND	5.0								
m,p-Xylene	ND	10								
Methylene chloride	ND	10								
Styrene	ND	5.0								
Tetrachloroethene	ND	5.0								
Toluene	ND	5.0								
trans-1,3-Dichloropropene	ND	5.0								
Trichloroethene	ND	5.0								
Vinylacetate	ND	10								
Vinyl chloride	ND	2.0								
Xylenes, Total	ND	15								
Surr:1,2-Dichloroethane-d4	48.74	5.0	50	0	97.5	70-130	0			
Surr:4-Bromofluorobenzene	50.01	5.0	50	0	100	70-130	0			
Surr:Dibromofluoromethane	50.49	5.0	50	0	101	70-130	0			
Surr:Toluene-d8	51.58	5.0	50	0	103	70-130	0			

ND - Not Detected at the Reporting Limit

- Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0311077
 Project: NCL/TCL

QC BATCH REPORT

Batch ID: R17252 InstrumentID: VOA_I

LCS Sample ID: VLCSW-1114 Test Code: SW8260 Units: µg/L Analysis Date: 11/14/03 13:01

Client ID: Run ID: VOA_I_031114A SeqNo: 394735 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	51.83	5.0	50	0	104	75-118	0			
1,1,2,2-Tetrachloroethane	51.19	5.0	50	0	102	79-120	0			
1,1,2-Trichloroethane	51.81	5.0	50	0	104	81-119	0			
1,1-Dichloroethane	52.79	5.0	50	0	106	80-120	0			
1,1-Dichloroethene	51.53	5.0	50	0	103	80-120	0			
1,2-Dichloroethane	50.16	5.0	50	0	100	80-120	0			
2-Butanone	104.8	10	100	0	105	70-130	0			
2-Chloroethyl vinyl ether	86.02	10	100	0	86	72-120	0			
2-Hexanone	77.72	10	100	0	77.7	70-130	0			
4-Methyl-2-pentanone	96.35	10	100	0	96.3	78-120	0			
Acetone	116.8	10	100	0	117	60-135	0			
Benzene	52.22	5.0	50	0	104	82-119	0			
Bromodichloromethane	51.41	5.0	50	0	103	81-119	0			
Bromoform	49.55	5.0	50	0	99.1	80-120	0			
Bromomethane	40.33	5.0	50	0	80.7	75-130	0			
Carbon disulfide	105.2	10	100	0	105	78-120	0			
Carbon tetrachloride	51.07	5.0	50	0	102	77-120	0			
Chlorobenzene	48.96	5.0	50	0	97.9	82-118	0			
Chloroethane	53.14	5.0	50	0	106	78-122	0			
Chloroform	51.87	5.0	50	0	104	78-120	0			
Chloromethane	51.23	5.0	50	0	102	75-125	0			
cis-1,3-Dichloropropene	52.86	5.0	50	0	106	81-120	0			
Dibromochloromethane	50.03	5.0	50	0	100	81-118	0			
Ethylbenzene	51.8	5.0	50	0	104	82-120	0			
m,p-Xylene	101.7	10	100	0	102	82-122	0			
Methylene chloride	50.37	10	50	0	101	80-122	0			
Styrene	53.52	5.0	50	0	107	82-121	0			
Tetrachloroethene	49.47	5.0	50	0	98.9	79-118	0			
Toluene	50.92	5.0	50	0	102	81-119	0			
trans-1,3-Dichloropropene	52.08	5.0	50	0	104	82-121	0			
Trichloroethene	52.31	5.0	50	0	105	78-118	0			
Vinylacetate	107.3	10	100	0	107	75-120	0			
Vinyl chloride	54.52	2.0	50	0	109	73-127	0			
Xylenes, Total	153	15	150	0	102	80-120	0			
Surr:1,2-Dichloroethane-d4	47.42	5.0	50	0	94.8	70-130	0			
Surr:4-Bromofluorobenzene	51.7	5.0	50	0	103	70-130	0			
Surr:Dibromofluoromethane	49.64	5.0	50	0	99.3	70-130	0			
Surr: Toluene-d8	50.78	5.0	50	0	102	70-130	0			

ND - Not Detected at the Reporting Limit

- Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0311077
 Project: NCL/TCL

QC BATCH REPORT

Batch ID: R17252 InstrumentID: VOA_I

MS	Sample ID: 0311077-01AMS	Test Code: SW8260				Units: µg/L	Analysis Date: 11/14/03 14:23			
Client ID: NCL-33	Run ID: VOA_I_031114A	SeqNo: 394738	Prep Date:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	51.99	5.0	50	0	104	75-125	0			
1,1,2,2-Tetrachloroethane	52.61	5.0	50	0	105	75-125	0			
1,1,2-Trichloroethane	52.52	5.0	50	0	105	75-125	0			
1,1-Dichloroethane	51.8	5.0	50	0	104	75-125	0			
1,1-Dichloroethene	50.07	5.0	50	0	100	65-130	0			
1,2-Dichloroethane	51.47	5.0	50	0	103	70-130	0			
2-Butanone	108	10	100	0	108	64-128	0			
2-Chloroethyl vinyl ether	ND	10	100	0	0	75-125	0			S
2-Hexanone	73.09	10	100	0	73.1	72-124	0			
4-Methyl-2-pentanone	102.3	10	100	0	102	75-125	0			
Acetone	103.6	10	100	0	104	60-130	0			
Benzene	63.64	5.0	50	11.29	105	76-127	0			
Bromodichloromethane	52.13	5.0	50	0	104	75-125	0			
Bromoform	51.23	5.0	50	0	102	75-125	0			
Bromomethane	40.76	5.0	50	0	81.5	75-125	0			
Carbon disulfide	104.9	10	100	0	105	75-125	0			
Carbontetrachloride	50.72	5.0	50	0	101	70-130	0			
Chlorobenzene	49.55	5.0	50	0	99.1	75-126	0			
Chloroethane	50.96	5.0	50	0	102	70-130	0			
Chloroform	52.13	5.0	50	0	104	75-125	0			
Chloromethane	47.41	5.0	50	0	94.8	75-125	0			
cis-1,3-Dichloropropene	52.57	5.0	50	0	105	75-125	0			
Dibromochloromethane	51.17	5.0	50	0	102	75-125	0			
Ethylbenzene	60.22	5.0	50	6.83	107	75-125	0			
m,p-Xylene	109.6	10	100	6.573	103	75-125	0			
Methylene chloride	52.37	10	50	0	105	75-125	0			
Styrene	53.75	5.0	50	0	108	75-125	0			
Tetrachloroethene	48.93	5.0	50	0	97.9	75-125	0			
Toluene	55.13	5.0	50	3.467	103	76-125	0			
trans-1,3-Dichloropropene	53.65	5.0	50	0	107	70-130	0			
Trichloroethene	52.18	5.0	50	0	104	71-120	0			
Vinylacetate	116.3	10	100	0	116	75-125	0			
Vinyl chloride	52.57	2.0	50	0	105	60-135	0			
Xylenes, Total	163.4	15	150	8.179	103	75-125	0			
Surr:1,2-Dichloroethane-d4	47.84	5.0	50	0	95.7	70-130	0			
Surr:4-Bromofluorobenzene	51.78	5.0	50	0	104	70-130	0			
Surr:Dibromofluoromethane	50.35	5.0	50	0	101	70-130	0			
Surr:Toluene-d8	50.09	5.0	50	0	100	70-130	0			

ND - Not Detected at the Reporting Limit

- Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0311077
 Project: NCL/TCL

QC BATCH REPORT

Batch ID: R17252 InstrumentID: VOA_I

MSD Sample ID: 0311077-01AMSD Test Code: SW8260 Units: µg/L Analysis Date: 11/14/03 14:50

Client ID: NCL-33 Run ID: VOA_I_031114A SeqNo: 394739 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	55.48	5.0	50	0	111	75-125	51.99	6.5	20	
1,1,2,2-Tetrachloroethane	56.4	5.0	50	0	113	75-125	52.61	6.95	20	
1,1,2-Trichloroethane	56.01	5.0	50	0	112	75-125	52.52	6.43	20	
1,1-Dichloroethane	56.26	5.0	50	0	113	75-125	51.8	8.25	20	
1,1-Dichloroethene	55.75	5.0	50	0	112	65-130	50.07	10.8	20	
1,2-Dichloroethane	53.71	5.0	50	0	107	70-130	51.47	4.26	20	
2-Butanone	114.3	10	100	0	114	64-128	108	5.65	20	
2-Chloroethyl vinyl ether	ND	10	100	0	0	75-125	0	0	20	S
2-Hexanone	89.53	10	100	0	89.5	72-124	73.09	20.2	20	R
4-Methyl-2-pentanone	115.3	10	100	0	115	75-125	102.3	12	20	
Acetone	109.1	10	100	0	109	60-130	103.6	5.15	20	
Benzene	67.87	5.0	50	11.29	113	76-127	63.64	6.44	20	
Bromodichloromethane	55.64	5.0	50	0	111	75-125	52.13	6.5	20	
Bromoform	54.32	5.0	50	0	109	75-125	51.23	5.86	20	
Bromomethane	49.55	5.0	50	0	99.1	75-125	40.76	19.5	20	
Carbon disulfide	115.5	10	100	0	116	75-125	104.9	9.64	20	
Carbon tetrachloride	53.06	5.0	50	0	106	70-130	50.72	4.51	20	
Chlorobenzene	52.98	5.0	50	0	106	75-126	49.55	6.69	20	
Chloroethane	56.51	5.0	50	0	113	70-130	50.96	10.3	20	
Chloroform	55.35	5.0	50	0	111	75-125	52.13	6.01	20	
Chloromethane	52.12	5.0	50	0	104	75-125	47.41	9.45	20	
cis-1,3-Dichloropropene	55.83	5.0	50	0	112	75-125	52.57	6.02	20	
Dibromochloromethane	53.94	5.0	50	0	108	75-125	51.17	5.27	20	
Ethylbenzene	64.48	5.0	50	6.83	115	75-125	60.22	6.83	20	
m,p-Xylene	117.2	10	100	6.573	111	75-125	109.6	6.7	20	
Methylene chloride	56.07	10	50	0	112	75-125	52.37	6.84	20	
Styrene	57.54	5.0	50	0	115	75-125	53.75	6.8	20	
Tetrachloroethene	54.6	5.0	50	0	109	75-125	48.93	11	20	
Toluene	58.92	5.0	50	3.467	111	76-125	55.13	6.64	20	
trans-1,3-Dichloropropene	57.42	5.0	50	0	115	70-130	53.65	6.8	20	
Trichloroethene	56	5.0	50	0	112	71-120	52.18	7.06	20	
Vinylacetate	125	10	100	0	125	75-125	116.3	7.2	20	
Vinyl chloride	60.21	2.0	50	0	120	60-135	52.57	13.5	20	
Xylenes, Total	175.9	15	150	8.179	112	75-125	163.4	7.33	20	
Surr: 1,2-Dichloroethane-d4	46.76	5.0	50	0	93.5	70-130	47.84	2.28	20	
Surr: 4-Bromofluorobenzene	52.23	5.0	50	0	104	70-130	51.78	0.872	20	
Surr: Dibromofluoromethane	49.34	5.0	50	0	98.7	70-130	50.35	2.03	20	
Surr: Toluene-d8	51.14	5.0	50	0	102	70-130	50.09	2.07	20	

The following samples were analyzed in this batch:

0311077-01A	0311077-02A	0311077-03A
0311077-04A		

ND - Not Detected at the Reporting Limit
 - Analyte detected below quantitation limits
 O - Referenced analyte value is > 4 times amount spiked
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 B - Analyte detected in assoc. Method Blank
 U - Analyzed for but not detected
 E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0311077
 Project: NCL/TCL

QC BATCH REPORT

Batch ID: R17266 InstrumentID: VOA_I

MBLK Sample ID: VBLKW-1117 Test Code: SW8260 Units: µg/L Analysis Date: 11/17/03 14:44
 Client ID: Run ID: VOA_I_031117A SeqNo: 395041 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	ND	5.0								
1,1,2,2-Tetrachloroethane	ND	5.0								
1,1,2-Trichloroethane	ND	5.0								
1,1-Dichloroethane	ND	5.0								
1,1-Dichloroethene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
2-Butanone	ND	10								
2-Chloroethyl vinyl ether	ND	10								
2-Hexanone	ND	10								
4-Methyl-2-pentanone	ND	10								
Acetone	ND	10								
Benzene	ND	5.0								
Bromodichloromethane	ND	5.0								
Bromoform	ND	5.0								
Bromomethane	ND	5.0								
Carbon disulfide	ND	10								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroethane	ND	5.0								
Chloroform	ND	5.0								
Chloromethane	ND	5.0								
cis-1,3-Dichloropropene	ND	5.0								
Dibromochloromethane	ND	5.0								
Ethylbenzene	ND	5.0								
m,p-Xylene	ND	10								
Methylene chloride	ND	10								
Styrene	ND	5.0								
Tetrachloroethene	ND	5.0								
Toluene	ND	5.0								
trans-1,3-Dichloropropene	ND	5.0								
Trichloroethene	ND	5.0								
Vinylacetate	ND	10								
Vinyl chloride	ND	2.0								
Xylenes, Total	ND	15								
Surr: 1,2-Dichloroethane-d4	46.51	5.0	50	0	93	70-130		0		
Surr: 4-Bromofluorobenzene	47.81	5.0	50	0	95.6	70-130		0		
Surr: Dibromofluoromethane	49.08	5.0	50	0	98.2	70-130		0		
Surr: Toluene-d8	46.68	5.0	50	0	93.4	70-130		0		

ND - Not Detected at the Reporting Limit

- Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0311077
 Project: NCL/TCL

QC BATCH REPORT

Batch ID: R17266 InstrumentID: VOA_I

LCS Sample ID: VLCSW-1117 Test Code: SW8260 Units: µg/L Analysis Date: 11/17/03 14:17

Client ID: Run ID: VOA_I_031117A SeqNo: 395040 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	52.42	5.0	50	0	105	75-118	0			
1,1,2,2-Tetrachloroethane	47.07	5.0	50	0	94.1	79-120	0			
1,1,2-Trichloroethane	47.95	5.0	50	0	95.9	81-119	0			
1,1-Dichloroethane	51.42	5.0	50	0	103	80-120	0			
1,1-Dichloroethane	50.85	5.0	50	0	102	80-120	0			
1,2-Dichloroethane	50.23	5.0	50	0	100	80-120	0			
2-Butanone	103.4	10	100	0	103	70-130	0			
2-Chloroethyl vinyl ether	80.82	10	100	0	80.8	72-120	0			
2-Hexanone	75.36	10	100	0	75.4	70-130	0			
4-Methyl-2-pentanone	88.5	10	100	0	88.5	78-120	0			
Acetone	121.9	10	100	0	122	60-135	0			
Benzene	50.06	5.0	50	0	100	82-119	0			
Bromodichloromethane	50.68	5.0	50	0	101	81-119	0			
Bromoform	48.85	5.0	50	0	97.7	80-120	0			
Bromomethane	59.42	5.0	50	0	119	75-130	0			
Carbon disulfide	104.2	10	100	0	104	78-120	0			
Carbontetrachloride	53.08	5.0	50	0	106	77-120	0			
Chlorobenzene	46.57	5.0	50	0	93.1	82-118	0			
Chloroethane	52.11	5.0	50	0	104	78-122	0			
Chloroform	51.52	5.0	50	0	103	78-120	0			
Chloromethane	50.34	5.0	50	0	101	75-125	0			
cis-1,3-Dichloropropene	52.04	5.0	50	0	104	81-120	0			
Dibromochloromethane	48.67	5.0	50	0	97.3	81-118	0			
Ethylbenzene	49.2	5.0	50	0	98.4	82-120	0			
m,p-Xylene	96.04	10	100	0	96	82-122	0			
Methylene chloride	50.4	10	50	0	101	80-122	0			
Styrene	49.58	5.0	50	0	99.2	82-121	0			
Tetrachloroethene	48.11	5.0	50	0	96.2	79-118	0			
Toluene	47.2	5.0	50	0	94.4	81-119	0			
trans-1,3-Dichloropropene	52.52	5.0	50	0	105	82-121	0			
Trichloroethene	51.3	5.0	50	0	103	78-118	0			
Vinylacetate	108.7	10	100	0	109	75-120	0			
Vinyl chloride	52.45	2.0	50	0	105	73-127	0			
Xylenes, Total	144.6	15	150	0	96.4	80-120	0			
Surr:1,2-Dichloroethane-d4	46.49	5.0	50	0	93	70-130	0			
Surr:4-Bromofluorobenzene	52.17	5.0	50	0	104	70-130	0			
Surr:Dibromofluoromethane	48.66	5.0	50	0	97.3	70-130	0			
Surr:Toluene-d8	47.88	5.0	50	0	95.8	70-130	0			

ND - Not Detected at the Reporting Limit

- Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0311077
 Project: NCL/TCL

QC BATCH REPORT

Batch ID: R17266 InstrumentID: VOA_I

MS Sample ID: 0311060-01AMS Test Code: SW8260 Units: µg/L Analysis Date: 11/17/03 15:39

Client ID: Run ID: VOA_I_031117A SeqNo: 395043 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	55.92	5.0	50	0	112	75-125	0			
1,1,2,2-Tetrachloroethane	52.86	5.0	50	0	106	75-125	0			
1,1,2-Trichloroethane	53.94	5.0	50	0	108	75-125	0			
1,1-Dichloroethane	56.28	5.0	50	0	113	75-125	0			
1,1-Dichloroethene	55.29	5.0	50	0	111	65-130	0			
1,2-Dichloroethane	57.11	5.0	50	0	114	70-130	0			
2-Butanone	111	10	100	0	111	64-128	0			
2-Chloroethyl vinyl ether	ND	10	100	0	0	75-125	0			S
2-Hexanone	79.77	10	100	0	79.8	72-124	0			
4-Methyl-2-pentanone	99.8	10	100	0	99.8	75-125	0			
Acetone	108.8	10	100	0	109	60-130	0			
Benzene	64.93	5.0	50	11.46	107	76-127	0			
Bromodichloromethane	57.92	5.0	50	0	116	75-125	0			
Bromoform	55.16	5.0	50	0	110	75-125	0			
Bromomethane	63.44	5.0	50	0	127	75-125	0			S
Carbon disulfide	112.9	10	100	0	113	75-125	0			
Carbon tetrachloride	53.52	5.0	50	0	107	70-130	0			
Chlorobenzene	50.79	5.0	50	0	102	75-126	0			
Chloroethane	54.87	5.0	50	0	110	70-130	0			
Chloroform	58.42	5.0	50	0	117	75-125	0			
Chloromethane	52.09	5.0	50	0	104	75-125	0			
cis-1,3-Dichloropropene	56.35	5.0	50	0	113	75-125	0			
Dibromochloromethane	53.95	5.0	50	0	108	75-125	0			
Ethylbenzene	58.53	5.0	50	5.556	106	75-125	0			
m,p-Xylene	108.3	10	100	5.723	103	75-125	0			
Methylene chloride	58.43	10	50	0	117	75-125	0			
Styrene	51.56	5.0	50	0	103	75-125	0			
Tetrachloroethene	49.93	5.0	50	0	99.9	75-125	0			
Toluene	53.66	5.0	50	2.97	101	76-125	0			
trans-1,3-Dichloropropene	59.64	5.0	50	0	119	70-130	0			
Trichloroethene	54.64	5.0	50	0	109	71-120	0			
Vinylacetate	121.9	10	100	0	122	75-125	0			
Vinyl chloride	53.19	2.0	50	0	106	60-135	0			
Xylenes, Total	162.8	15	150	6.95	104	75-125	0			
Surr:1,2-Dichloroethane-d4	46.55	5.0	50	0	93.1	70-130	0			
Surr:4-Bromofluorobenzene	52.39	5.0	50	0	105	70-130	0			
Surr:Dibromofluoromethane	48.64	5.0	50	0	97.3	70-130	0			
Surr:Toluene-d8	46.57	5.0	50	0	93.1	70-130	0			

ND - Not Detected at the Reporting Limit

L - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0311077
 Project: NCL/TCL

QC BATCH REPORT

Batch ID: R17266 InstrumentID: VOA_I

MSD	Sample ID: 0311060-01AMSD	Test Code: SW8260	Units: µg/L	Analysis Date: 11/17/03 16:06						
Client ID:	Run ID: VOA_I_031117A	SeqNo: 395044	Prep Date:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	52.63	5.0	50	0	105	75-125	55.92	6.07	20	
1,1,2,2-Tetrachloroethane	49.06	5.0	50	0	98.1	75-125	52.86	7.46	20	
1,1,2-Trichloroethane	49.16	5.0	50	0	98.3	75-125	53.94	9.28	20	
1,1-Dichloroethane	53.71	5.0	50	0	107	75-125	56.28	4.67	20	
1,1-Dichloroethene	51.24	5.0	50	0	102	65-130	55.29	7.59	20	
1,2-Dichloroethane	51.88	5.0	50	0	104	70-130	57.11	9.6	20	
2-Butanone	104.6	10	100	0	105	64-128	111	5.92	20	
2-Chloroethyl vinyl ether	ND	10	100	0	0	75-125	0	0	20	S
2-Hexanone	72.06	10	100	0	72.1	72-124	79.77	10.2	20	
4-Methyl-2-pentanone	92.19	10	100	0	92.2	75-125	99.8	7.93	20	
Acetone	100.7	10	100	0	101	60-130	108.8	7.73	20	
Benzene	61.99	5.0	50	11.46	101	76-127	64.93	4.64	20	
Bromodichloromethane	52.5	5.0	50	0	105	75-125	57.92	9.82	20	
Bromoform	49.66	5.0	50	0	99.3	75-125	55.16	10.5	20	
Bromomethane	61.13	5.0	50	0	122	75-125	63.44	3.71	20	
Carbon disulfide	105.9	10	100	0	106	75-125	112.9	6.35	20	
Carbontetrachloride	48.91	5.0	50	0	97.8	70-130	53.52	9	20	
Chlorobenzene	48.09	5.0	50	0	96.2	75-126	50.79	5.46	20	
Chloroethane	53.68	5.0	50	0	107	70-130	54.87	2.2	20	
Chloroform	54.66	5.0	50	0	109	75-125	58.42	6.65	20	
Chloromethane	51.9	5.0	50	0	104	75-125	52.09	0.36	20	
cis-1,3-Dichloropropene	52.57	5.0	50	0	105	75-125	56.35	6.95	20	
Dibromochloromethane	50.26	5.0	50	0	101	75-125	53.95	7.07	20	
Ethylbenzene	56.33	5.0	50	5.556	102	75-125	58.53	3.83	20	
m,p-Xylene	103.9	10	100	5.723	98.2	75-125	108.3	4.19	20	
Methylene chloride	54.37	10	50	0	109	75-125	58.43	7.2	20	
Styrene	47.45	5.0	50	0	94.9	75-125	51.56	8.3	20	
Tetrachloroethene	47.08	5.0	50	0	94.2	75-125	49.93	5.86	20	
Toluene	51.56	5.0	50	2.97	97.2	76-125	53.66	3.99	20	
trans-1,3-Dichloropropene	52.61	5.0	50	0	105	70-130	59.64	12.5	20	
Trichloroethene	51.98	5.0	50	0	104	71-120	54.64	5	20	
Vinylacetate	109.6	10	100	0	110	75-125	121.9	10.7	20	
Vinyl chloride	51.1	2.0	50	0	102	60-135	53.19	4	20	
Xylenes, Total	155.2	15	150	6.95	98.8	75-125	162.8	4.76	20	
Surr:1,2-Dichloroethane-d4	46.54	5.0	50	0	93.1	70-130	46.55	0.015	20	
Surr:4-Bromofluorobenzene	52.17	5.0	50	0	104	70-130	52.39	0.423	20	
Surr:Dibromofluoromethane	48.97	5.0	50	0	97.9	70-130	48.64	0.677	20	
Surr:Toluene-d8	46.57	5.0	50	0	93.1	70-130	46.57	0.00425	20	

The following samples were analyzed in this batch: 0311077-04A

- ND - Not Detected at the Reporting Limit
- S - Spike Recovery outside accepted recovery limits
- B - Analyte detected in assoc. Method Blank
- Analyte detected below quantitation limits
- R - RPD outside accepted recovery limits
- U - Analyzed for but not detected
- O - Referenced analyte value is > 4 times amount spiked
- P - Dual Column results percent difference > 40%
- E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0311077
 Project: NCL/TCL

QC BATCH REPORT

Batch ID: R17130 InstrumentID: IC201

MBLK Sample ID: WBLKW1-110703 Test Code: E300 Units: mg/L Analysis Date: 11/07/03 13:24

Client ID: Run ID: IC201_031107A SeqNo: 391497 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	ND	0.50								
Fluoride	ND	0.10								
Sulfate	ND	1.0								
Nitrate/Nitrite (as N)	ND	0.10								
Surr: Dichloroacetic acid (surr)	ND	0.10								

LCS Sample ID: WLCSW1-110703 Test Code: E300 Units: mg/L Analysis Date: 11/07/03 13:56

Client ID: Run ID: IC201_031107A SeqNo: 391498 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	9.26	0.50	10	0	92.6	80-120	0			
Fluoride	2.1	0.10	2	0	105	80-120	0			
Sulfate	9.61	1.0	10	0	96.1	80-120	0			
Surr: Dichloroacetic acid (surr)	2.13	0.10	2	0	106	80-120	0			

LCSD Sample ID: WLCSW1-110703 Test Code: E300 Units: mg/L Analysis Date: 11/07/03 14:29

Client ID: Run ID: IC201_031107A SeqNo: 391499 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	9.29	0.50	10	0	92.9	80-120	9.26	0.323	20	
Fluoride	2.12	0.10	2	0	106	80-120	2.1	0.948	20	
Sulfate	9.62	1.0	10	0	96.2	80-120	9.61	0.104	20	
Surr: Dichloroacetic acid (surr)	2	0.10	2	0	100	80-120	2.13	6.3	20	

MS Sample ID: 0311076-06FMS Test Code: E300 Units: mg/L Analysis Date: 11/07/03 16:06

Client ID: Run ID: IC201_031107A SeqNo: 391502 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	50.15	0.50	10	39.64	105	75-125	0			E
Fluoride	2.47	0.10	2	0.46	100	75-125	0			
Sulfate	9.98	1.0	10	1.1	88.8	75-125	0			
Nitrate/Nitrite (as N)	3.9	0.10	4	0	97.5	75-125	0			
Surr: Dichloroacetic acid (surr)	5.15	0.10	5	0	103	80-120	0			

ND - Not Detected at the Reporting Limit

- Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0311077
 Project: NCL/TCL

QC BATCH REPORT

Batch ID: R17130 InstrumentID: IC201

MSD		Sample ID: 0311076-06FMSD			Test Code: E300		Units: mg/L		Analysis Date: 11/07/03 16:39		
Client ID:		Run ID: IC201_031107A			SeqNo: 391503		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Chloride	50.25	0.50	10	39.64	106	75-125	50.15	0.199	20	E	
Fluoride	2.45	0.10	2	0.46	99.5	75-125	2.47	0.813	20		
Sulfate	10.24	1.0	10	1.1	91.4	75-125	9.98	2.57	20		
Nitrate/Nitrite (as N)	3.87	0.10	4	0	96.7	75-125	3.9	0.772	20		
Surr: Dichloroacetic acid (surr)	5.27	0.10	5	0	105	80-120	5.15	2.3	20		

DUP		Sample ID: 0311076-06FDUP			Test Code: E300		Units: mg/L		Analysis Date: 11/07/03 15:34		
Client ID:		Run ID: IC201_031107A			SeqNo: 391501		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Chloride	39.82	0.50	0	0	0	0-0	39.64	0.453	20		
Fluoride	0.44	0.10	0	0	0	0-0	0.46	4.44	20		
Sulfate	1.1	1.0	0	0	0	0-0	1.1	0	20		
Nitrate/Nitrite (as N)	ND	0.10	0	0	0	0-0	0	0	20		
Surr: Dichloroacetic acid (surr)	5.17	0.10	5	0	103	80-120	5.17	0	20		

DUP		Sample ID: 0310224-19FDUP			Test Code: E300		Units: mg/L		Analysis Date: 11/07/03 23:09		
Client ID:		Run ID: IC201_031107A			SeqNo: 391514		Prep Date:		DF: 50		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Chloride	2322	25	0	0	0	0-0	2318	0.172	20		
Fluoride	ND	5.0	0	0	0	0-0	0	0	20		
Sulfate	3688	50	0	0	0	0-0	3669	0.503	20		
Nitrate/Nitrite (as N)	ND	5.0	0	0	0	0-0	0	0	20		
Surr: Dichloroacetic acid (surr)	294	5.0	250	0	118	80-120	271	8.14	20		

The following samples were analyzed in this batch:

0311077-01B	0311077-02B	0311077-03B
0311077-04B		

ND - Not Detected at the Reporting Limit

- Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0311077
 Project: NCL/TCL

QC BATCH REPORT

Batch ID: R17254 Instrument ID: UV-2101PC

MBLK Sample ID: WMBW1-111503 Test Code: E335.3 Units: mg/L Analysis Date: 11/15/03 0:00

Client ID: Run ID: UV-2101PC_031115A SeqNo: 394794 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide	ND	0.020								

LCS Sample ID: WLCSW1-111503 Test Code: E335.3 Units: mg/L Analysis Date: 11/15/03 0:00

Client ID: Run ID: UV-2101PC_031115A SeqNo: 394795 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide	0.2042	0.020	0.2	0	102	80-120	0			

MS Sample ID: 0311097-01GMS Test Code: E335.3 Units: mg/L Analysis Date: 11/15/03 0:00

Client ID: Run ID: UV-2101PC_031115A SeqNo: 394823 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide	0.2068	0.020	0.2	0.0124	97.2	75-125	0			

MSD Sample ID: 0311097-01G MSD Test Code: E335.3 Units: mg/L Analysis Date: 11/15/03 0:00

Client ID: Run ID: UV-2101PC_031115A SeqNo: 394824 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide	0.2093	0.020	0.2	0.0124	98.4	75-125	0.2068	1.2	25	

DUP Sample ID: 0311097-01G DUP Test Code: E335.3 Units: mg/L Analysis Date: 11/15/03 0:00

Client ID: Run ID: UV-2101PC_031115A SeqNo: 394822 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide	0.0125	0.020	0	0	0	0-0	0.0124	0	20	J

The following samples were analyzed in this batch:

0311077-01D	0311077-02D	0311077-03D
0311077-04D		

ND - Not Detected at the Reporting Limit

- Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0311077
 Project: NCL/TCL

QC BATCH REPORT

Batch ID: R17298 InstrumentID: WetChemistry

MBLK Sample ID: WMBW1-111803 Test Code: E310.1 Units: mg/L Analysis Date: 11/18/03 0:00

Client ID: Run ID: WET CHEMISTRY_0311 SeqNo: 395801 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	ND	5.0								
Alkalinity, Carbonate (As CaCO3)	ND	5.0								
Alkalinity, Hydroxide (As CaCO3)	ND	5.0								
Alkalinity, Total (As CaCO3)	ND	5.0								

LCS Sample ID: WLCSW1-111803 Test Code: E310.1 Units: mg/L Analysis Date: 11/18/03 0:00

Client ID: Run ID: WET CHEMISTRY_0311 SeqNo: 395802 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	1000	5.0	1000	0	100	80-120	0			

DUP Sample ID: 0311077-02B DUP Test Code: E310.1 Units: mg/L Analysis Date: 11/18/03 0:00

Client ID: NCL-34 Run ID: WET CHEMISTRY_0311 SeqNo: 395814 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	620.1	5.0	0	0	0	0-0	620.1	0	20	
Alkalinity, Carbonate (As CaCO3)	ND	5.0	0	0	0	0-0	0	0	20	
Alkalinity, Hydroxide (As CaCO3)	ND	5.0	0	0	0	0-0	0	0	20	
Alkalinity, Total (As CaCO3)	620.1	5.0	0	0	0	0-0	620.1	0	20	

The following samples were analyzed in this batch:

0311077-01B	0311077-02B	0311077-03B
0311077-04B		

ND - Not Detected at the Reporting Limit

- Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0311077
 Project: NCL/TCL

QC BATCH REPORT

Batch ID: R17319 InstrumentID: IC201

MBLK		Sample ID: WBLKW1-111803			Test Code: E300		Units: mg/L		Analysis Date: 11/18/03 10:55	
Client ID:		Run ID: IC201_031118A		SeqNo: 396388		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	ND	0.50								
Fluoride	ND	0.10								
Sulfate	ND	1.0								
Nitrate/Nitrite (as N)	ND	0.10								
Surr: Dichloroacetic acid (surr)	ND	0.10								

LCS		Sample ID: WLCSW1-111803			Test Code: E300		Units: mg/L		Analysis Date: 11/18/03 11:28	
Client ID:		Run ID: IC201_031118A		SeqNo: 396389		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	9.58	0.50	10	0	95.8	80-120	0			
Fluoride	2	0.10	2	0	100	80-120	0			
Sulfate	9.87	1.0	10	0	98.7	80-120	0			
Surr: Dichloroacetic acid (surr)	1.98	0.10	2	0	99	80-120	0			

LCSD		Sample ID: WLCSDW1-11180			Test Code: E300		Units: mg/L		Analysis Date: 11/18/03 12:00	
Client ID:		Run ID: IC201_031118A		SeqNo: 396390		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	9.45	0.50	10	0	94.5	80-120	9.58	1.37	20	
Fluoride	2.01	0.10	2	0	100	80-120	2	0.499	20	
Sulfate	9.87	1.0	10	0	98.7	80-120	9.87	0	20	
Surr: Dichloroacetic acid (surr)	2	0.10	2	0	100	80-120	1.98	1.01	20	

MS		Sample ID: 0311071-01DMS			Test Code: E300		Units: mg/L		Analysis Date: 11/18/03 14:43	
Client ID:		Run ID: IC201_031118A		SeqNo: 396395		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	3441	0.50	10	3501	-607	75-125	0			SEO
Fluoride	2.35	0.10	2	0.66	84.5	75-125	0			
Sulfate	2005	1.0	10	2069	-633	75-125	0			SEO
Nitrate/Nitrite (as N)	2.36	0.10	4	0	59	75-125	0			S
Surr: Dichloroacetic acid (surr)	5.53	0.10	5	0	111	80-120	0			

ND - Not Detected at the Reporting Limit

- Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0311077
 Project: NCL/TCL

QC BATCH REPORT

Batch ID: R17319 InstrumentID: IC201

MSD		Sample ID: 0311071-01DMSD			Test Code: E300		Units: mg/L		Analysis Date: 11/18/03 15:15		
Client ID:		Run ID: IC201_031118A			SeqNo: 396396		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Chloride	3451	0.50	10	3501	-502	75-125	3441	0.306	20	SEO	
Fluoride	2.24	0.10	2	0.66	79	75-125	2.35	4.79	20		
Sulfate	2027	1.0	10	2069	-411	75-125	2005	1.1	20	SEO	
Nitrate/Nitrite (as N)	2.53	0.10	4	0	63.2	75-125	2.36	6.95	20	S	
Surr: Dichloroacetic acid (surr)	5.14	0.10	5	0	103	80-120	5.53	7.31	20		

DUP		Sample ID: 0311078-02BDUP			Test Code: E300		Units: mg/L		Analysis Date: 11/19/03 2:06		
Client ID:		Run ID: IC201_031118A			SeqNo: 396417		Prep Date:		DF: 200		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Chloride	402	100	0	0	0	0-0	404	0.496	20		
Fluoride	ND	20	0	0	0	0-0	0	0	20		
Sulfate	3908	200	0	0	0	0-0	3898	0.256	20		
Nitrate/Nitrite (as N)	32	20	0	0	0	0-0	34	6.06	20		
Surr: Dichloroacetic acid (surr)	900	20	1000	0	90	80-120	1188	27.6	20	R	

The following samples were analyzed in this batch:

0311077-01B	0311077-02B	0311077-03B
0311077-04B		

ND - Not Detected at the Reporting Limit
 U - Analyte detected below quantitation limits
 O - Referenced analyte value is > 4 times amount spiked
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 B - Analyte detected in assoc. Method Blank
 U - Analyzed for but not detected
 E - Value above quantitation range

701 Aberdeen Avenue, Ste. 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296

Trace Analysis, Inc.

155 McCutcheon, Suite H
El Paso, Texas 79932
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

Company Name: Navajo Phone #: _____
 Address: _____ Fax #: _____
 Contact Person: Jeff Byrd
 Site to: _____
 (different from above)
 Project #: _____
 Project Name: Artesia
 Sampler Signature: [Signature]

AB # (USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX				PRESERVATIVE METHOD				SAMPLING		
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE
	NCL-33	8	Y					X				X	4/6	915
	NCL-34	1											1030	
	MM-59	1											1102	
	MM-58	1											1415	

Received by: _____ Date: _____ Time: _____
 Received by: _____ Date: _____ Time: _____
 Received at Laboratory by: [Signature] Date: 4/6/03 Time: 08:30

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # _____

ANALYSIS REQUEST
(Circle or Specify Method No.)

MTBE 8021B/602	
BTEX 8021B/602	
TPH 418.1/TX1005	
PAH 8270C	
Total Metals Ag As Ba Cd Cr Pb Se Hg 60108/2007	
TCLP Metals Ag As Ba Cd Cr Pb Se Hg	
TCLP Volatiles	
TCLP Semivolatile	
TCLP Pesticides	
RCI	
GC/MS Vol. 8260B/624	
GC/MS Semi. Vol. 8270C/625	
PCB's 8082/608	
Pesticides 8081A/608	
BOD TSS, pH	

Turn Around Time if different from standard _____

REMARKS: 2 Coopers

LAB USE ONLY

Intact: Y / N _____
 Headspace: Y / N _____
 Temp: _____
 Log-in/Review: _____

Check if Special Reporting Limits Are Needed

Sample Receipt Checklist

Client Name NAVAJO REFINING

Date/Time Received: 11/7/2003 8:30:00 AM

Work Order Number 0311077

Received by: RNG

Checklist completed by

[Signature]
Signature

11/7/03
Date

Reviewed by

LT 11/10/03
Initials Date

Matrix: W

Carrier name: FedEx

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No
- Temperature(s)/Thermometer(s): 3.1c, 4.4c 003
- Water - VOA vials have zero headspace? Yes No No VOA vials submitted
- Water - pH acceptable upon receipt? Yes No N/A

Adjusted? _____ Checked by _____

Login Notes:

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____



e-Lab, Inc.

10450 Standcliff Rd, Suite 210 Houston, Texas 77099-4338 281-530-5656 Fax 281-530-5887

November 26, 2003

Jeff Byrd
Navajo Refining Company
P.O. Box 159
Artesia, New Mexico 88211

Tel: (505) 746-5468
Fax: (505) 746-5421

Re: NCL/TEL

Work Order : **0311131**

Dear Jeff Byrd,

e-Lab, Inc. received 3 samples on 11/13/2003 8:30:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by e-Lab, Inc. and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by e-Lab Inc. The total number of pages in this report is 37.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Lora Terrill

Electronically approved by: Patrino A. Dathorne

Lora Terrill
VP Lab Operations

e-Lab, Inc.

Date: December 01, 2003

CLIENT: Navajo Refining Company
Project: NCL/TEL
Work Order: 0311131

Work Order Sample Summary

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
0311131-01	TEL-4	Water		11/11/2003 09:15	11/13/2003 08:30	<input type="checkbox"/>
0311131-02	TEL-3	Water		11/11/2003 10:15	11/13/2003 08:30	<input type="checkbox"/>
0311131-03	TEL-2	Water		11/11/2003 10:30	11/13/2003 08:30	<input type="checkbox"/>

CLIENT: Navajo Refining Company
 Work Order: 0311131
 Project: NCL/TEL
 Lab ID: 0311131-01

Client Sample ID: TEL-4
 Collection Date: 11/11/2003 9:15:00 AM
 Matrix: WATER

Analyses	Result	Report Limit	Qual Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL		SW7470		Prep Date: 11/17/2003 Analyst: MG	
Mercury	ND	0.000200	mg/L	1	11/18/2003 10:58:49 AM
ICP METALS, TOTAL		SW6020		Prep Date: 11/18/2003 Analyst: ALR	
Aluminum	ND	0.0200	mg/L	2	11/21/2003 2:44:00 PM
Arsenic	ND	0.0100	mg/L	2	11/19/2003 8:10:00 PM
Barium	0.337	0.0500	mg/L	10	11/19/2003 7:08:00 PM
Beryllium	ND	0.00400	mg/L	2	11/19/2003 8:10:00 PM
Boron	0.896	0.0400	mg/L	2	11/19/2003 8:10:00 PM
Cadmium	ND	0.00200	mg/L	2	11/19/2003 8:10:00 PM
Calcium	144	5.00	mg/L	10	11/19/2003 7:08:00 PM
Chromium	ND	0.00400	mg/L	2	11/19/2003 8:10:00 PM
Cobalt	ND	0.00400	mg/L	2	11/19/2003 8:10:00 PM
Copper	ND	0.00400	mg/L	2	11/19/2003 8:10:00 PM
Iron	ND	0.400	mg/L	2	11/19/2003 8:10:00 PM
Lead	ND	0.0100	mg/L	2	11/19/2003 8:10:00 PM
Magnesium	184	2.00	mg/L	10	11/19/2003 7:08:00 PM
Manganese	0.185	0.0100	mg/L	2	11/19/2003 8:10:00 PM
Nickel	ND	0.0100	mg/L	2	11/19/2003 8:10:00 PM
Potassium	ND	0.400	mg/L	2	11/19/2003 8:10:00 PM
Selenium	ND	0.0100	mg/L	2	11/19/2003 8:10:00 PM
Silver	ND	0.0100	mg/L	2	11/19/2003 8:10:00 PM
Sodium	330	2.00	mg/L	10	11/19/2003 7:08:00 PM
Vanadium	ND	0.0100	mg/L	2	11/19/2003 8:10:00 PM
Zinc	ND	0.0100	mg/L	2	11/19/2003 8:10:00 PM
SEMIVOLATILE ORGANICS BY GC/MS		SW8270		Prep Date: 11/17/2003 Analyst: RKG	
1,2,4-Trichlorobenzene	ND	10	µg/L	1	11/18/2003 6:38:00 PM
2,4,5-Trichlorophenol	ND	10	µg/L	1	11/18/2003 6:38:00 PM
2,4,6-Trichlorophenol	ND	10	µg/L	1	11/18/2003 6:38:00 PM
2-Methylnaphthalene	ND	10	µg/L	1	11/18/2003 6:38:00 PM
2-Methylphenol	ND	10	µg/L	1	11/18/2003 6:38:00 PM
2-Nitroaniline	ND	10	µg/L	1	11/18/2003 6:38:00 PM
2-Nitrophenol	ND	10	µg/L	1	11/18/2003 6:38:00 PM
3-Nitroaniline	ND	10	µg/L	1	11/18/2003 6:38:00 PM
4-Methylphenol	ND	10	µg/L	1	11/18/2003 6:38:00 PM
4-Nitroaniline	ND	10	µg/L	1	11/18/2003 6:38:00 PM
4-Nitrophenol	ND	10	µg/L	1	11/18/2003 6:38:00 PM
Acenaphthene	ND	10	µg/L	1	11/18/2003 6:38:00 PM
Acenaphthylene	ND	10	µg/L	1	11/18/2003 6:38:00 PM
Aniline	ND	10	µg/L	1	11/18/2003 6:38:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time

CLIENT: Navajo Refining Company
 Work Order: 0311131
 Project: NCL/TEL
 Lab ID: 0311131-01

Client Sample ID: TEL-4
 Collection Date: 11/11/2003 9:15:00 AM
 Matrix: WATER

Analyses	Result	Report Limit	Qual Units	Dilution Factor	Date Analyzed
Anthracene	ND	10	µg/L	1	11/18/2003 6:38:00 PM
Benz(a)anthracene	ND	10	µg/L	1	11/18/2003 6:38:00 PM
Benzidine	ND	10	µg/L	1	11/18/2003 6:38:00 PM
Hexachloroethane	ND	10	µg/L	1	11/18/2003 6:38:00 PM
Indeno(1,2,3-cd)pyrene	ND	10	µg/L	1	11/18/2003 6:38:00 PM
Isophorone	ND	10	µg/L	1	11/18/2003 6:38:00 PM
N-Nitrosodi-n-propylamine	ND	10	µg/L	1	11/18/2003 6:38:00 PM
N-Nitrosodimethylamine	ND	10	µg/L	1	11/18/2003 6:38:00 PM
N-Nitrosodiphenylamine	ND	10	µg/L	1	11/18/2003 6:38:00 PM
Naphthalene	21	10	µg/L	1	11/18/2003 6:38:00 PM
Nitrobenzene	ND	10	µg/L	1	11/18/2003 6:38:00 PM
Pentachlorophenol	ND	10	µg/L	1	11/18/2003 6:38:00 PM
Phenanthrene	ND	10	µg/L	1	11/18/2003 6:38:00 PM
Phenol	ND	10	µg/L	1	11/18/2003 6:38:00 PM
Pyrene	ND	10	µg/L	1	11/18/2003 6:38:00 PM
Surr: 2,4,6-Tribromophenol	117	39-153	%REC	1	11/18/2003 6:38:00 PM
Surr: 2-Fluorobiphenyl	101	40-147	%REC	1	11/18/2003 6:38:00 PM
Surr: 2-Fluorophenol	59.4	21-100	%REC	1	11/18/2003 6:38:00 PM
Surr: 4-Terphenyl-d14	107	39-141	%REC	1	11/18/2003 6:38:00 PM
Surr: Nitrobenzene-d5	102	37-140	%REC	1	11/18/2003 6:38:00 PM
Surr: Phenol-d6	40.1	11-100	%REC	1	11/18/2003 6:38:00 PM
VOLATILES BY GC/MS			SW8260		Analyst: PC
1,1,1-Trichloroethane	ND	5.0	µg/L	1	11/18/2003 10:29:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	1	11/18/2003 10:29:00 PM
1,1,2-Trichloroethane	ND	5.0	µg/L	1	11/18/2003 10:29:00 PM
1,1-Dichloroethane	ND	5.0	µg/L	1	11/18/2003 10:29:00 PM
1,1-Dichloroethene	ND	5.0	µg/L	1	11/18/2003 10:29:00 PM
1,2-Dichloroethane	ND	5.0	µg/L	1	11/18/2003 10:29:00 PM
2-Butanone	ND	10	µg/L	1	11/18/2003 10:29:00 PM
2-Chloroethyl vinyl ether	ND	10	µg/L	1	11/18/2003 10:29:00 PM
2-Hexanone	ND	10	µg/L	1	11/18/2003 10:29:00 PM
4-Methyl-2-pentanone	ND	10	µg/L	1	11/18/2003 10:29:00 PM
Acetone	ND	10	µg/L	1	11/18/2003 10:29:00 PM
Benzene	2,800	120	µg/L	25	11/19/2003 5:24:00 PM
Bromodichloromethane	ND	5.0	µg/L	1	11/18/2003 10:29:00 PM
Bromoform	ND	5.0	µg/L	1	11/18/2003 10:29:00 PM
Bromomethane	ND	5.0	µg/L	1	11/18/2003 10:29:00 PM
Carbon disulfide	ND	10	µg/L	1	11/18/2003 10:29:00 PM
Carbon tetrachloride	ND	5.0	µg/L	1	11/18/2003 10:29:00 PM
Chlorobenzene	ND	5.0	µg/L	1	11/18/2003 10:29:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time

CLIENT:	Navajo Refining Company	Client Sample ID:	TEL-4
Work Order:	0311131	Collection Date:	11/11/2003 9:15:00 AM
Project:	NCL/TEL		
Lab ID:	0311131-01	Matrix:	WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chloroethane	ND	5.0		µg/L	1	11/18/2003 10:29:00 PM
Chloroform	ND	5.0		µg/L	1	11/18/2003 10:29:00 PM
Chloromethane	ND	5.0		µg/L	1	11/18/2003 10:29:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	11/18/2003 10:29:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	11/18/2003 10:29:00 PM
Ethylbenzene	180	120		µg/L	25	11/19/2003 5:24:00 PM
m,p-Xylene	360	10		µg/L	1	11/18/2003 10:29:00 PM
Methylene chloride	ND	10		µg/L	1	11/18/2003 10:29:00 PM
Styrene	ND	5.0		µg/L	1	11/18/2003 10:29:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	11/18/2003 10:29:00 PM
Toluene	54	5.0		µg/L	1	11/18/2003 10:29:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	11/18/2003 10:29:00 PM
Trichloroethene	ND	5.0		µg/L	1	11/18/2003 10:29:00 PM
Vinyl acetate	ND	10		µg/L	1	11/18/2003 10:29:00 PM
Vinyl chloride	ND	2.0		µg/L	1	11/18/2003 10:29:00 PM
Xylenes, Total	370	15		µg/L	1	11/18/2003 10:29:00 PM
Surr: 1,2-Dichloroethane-d4	98.7	70-130		%REC	1	11/18/2003 10:29:00 PM
Surr: 1,2-Dichloroethane-d4	93.1	70-130		%REC	25	11/19/2003 5:24:00 PM
Surr: 4-Bromofluorobenzene	102	70-130		%REC	1	11/18/2003 10:29:00 PM
Surr: 4-Bromofluorobenzene	100	70-130		%REC	25	11/19/2003 5:24:00 PM
Surr: Dibromofluoromethane	100	70-130		%REC	1	11/18/2003 10:29:00 PM
Surr: Dibromofluoromethane	97.4	70-130		%REC	25	11/19/2003 5:24:00 PM
Surr: Toluene-d8	104	70-130		%REC	1	11/18/2003 10:29:00 PM
Surr: Toluene-d8	105	70-130		%REC	25	11/19/2003 5:24:00 PM

ANIONS BY ION CHROMATOGRAPHY

E300

Analyst: **MG**

Chloride	594	10.0		mg/L	20	11/25/2003 4:05:00 PM
Fluoride	1.15	0.100		mg/L	1	11/13/2003 7:48:00 PM
Sulfate	128	5.00		mg/L	5	11/25/2003 3:32:00 PM
Nitrate/Nitrite (as N)	ND	0.100		mg/L	1	11/13/2003 7:48:00 PM
Surr: Dichloroacetic acid (surr)	102	80-120		%REC	20	11/25/2003 4:05:00 PM
Surr: Dichloroacetic acid (surr)	93.8	80-120		%REC	5	11/25/2003 3:32:00 PM
Surr: Dichloroacetic acid (surr)	84.0	80-120		%REC	1	11/13/2003 7:48:00 PM

ALKALINITY

E310.1

Analyst: **LMD**

Alkalinity, Bicarbonate (As CaCO3)	980	5.00		mg/L	1	11/18/2003
Alkalinity, Carbonate (As CaCO3)	ND	5.00		mg/L	1	11/18/2003
Alkalinity, Hydroxide (As CaCO3)	ND	5.00		mg/L	1	11/18/2003
Alkalinity, Total (As CaCO3)	980	5.00		mg/L	1	11/18/2003

CYANIDE, TOTAL

E335.3

Analyst: **LMD**

Cyanide	ND	0.0200		mg/L	1	11/15/2003
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Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits
 J - Analyte detected below quantitation limits P - Dual Column results percent difference > 40%
 B - Analyte detected in the associated Method Blank E - Value above quantitation range
 * - Value exceeds Maximum Contaminant Level H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: November 26, 2003

CLIENT: Navajo Refining Company **Client Sample ID:** TEL-3
Work Order: 0311131 **Collection Date:** 11/11/2003 10:15:00 AM
Project: NCL/TEL
Lab ID: 0311131-02 **Matrix:** WATER

Analyses	Result	Report Limit	Qual Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL					
		SW7470		Prep Date: 11/17/2003	Analyst: MG
Mercury	ND	0.000200	mg/L	1	11/18/2003 11:00:22 AM
ICP METALS, TOTAL					
		SW6020		Prep Date: 11/18/2003	Analyst: ALR
Aluminum	ND	0.0200	mg/L	2	11/21/2003 2:48:00 PM
Arsenic	ND	0.0100	mg/L	2	11/19/2003 8:14:00 PM
Barium	0.0137	0.0100	mg/L	2	11/19/2003 8:14:00 PM
Beryllium	ND	0.00400	mg/L	2	11/19/2003 8:14:00 PM
Boron	0.727	0.0400	mg/L	2	11/19/2003 8:14:00 PM
Cadmium	ND	0.00200	mg/L	2	11/19/2003 8:14:00 PM
Calcium	612	25.0	mg/L	50	11/21/2003 2:26:00 PM
Chromium	ND	0.00400	mg/L	2	11/19/2003 8:14:00 PM
Cobalt	ND	0.00400	mg/L	2	11/19/2003 8:14:00 PM
Copper	0.00425	0.00400	mg/L	2	11/19/2003 8:14:00 PM
Iron	0.412	0.400	mg/L	2	11/19/2003 8:14:00 PM
Lead	ND	0.0100	mg/L	2	11/19/2003 8:14:00 PM
Magnesium	199	2.00	mg/L	10	11/19/2003 7:13:00 PM
Manganese	0.0141	0.0100	mg/L	2	11/19/2003 8:14:00 PM
Nickel	ND	0.0100	mg/L	2	11/19/2003 8:14:00 PM
Potassium	3.70	0.400	mg/L	2	11/19/2003 8:14:00 PM
Selenium	ND	0.0100	mg/L	2	11/19/2003 8:14:00 PM
Silver	ND	0.0100	mg/L	2	11/19/2003 8:14:00 PM
Sodium	60.8	2.00	mg/L	10	11/19/2003 7:13:00 PM
Vanadium	ND	0.0100	mg/L	2	11/19/2003 8:14:00 PM
Zinc	ND	0.0100	mg/L	2	11/19/2003 8:14:00 PM
SEMIVOLATILE ORGANICS BY GC/MS					
		SW8270		Prep Date: 11/17/2003	Analyst: RKG
1,2,4-Trichlorobenzene	ND	10	µg/L	1	11/18/2003 7:04:00 PM
2,4,5-Trichlorophenol	ND	10	µg/L	1	11/18/2003 7:04:00 PM
2,4,6-Trichlorophenol	ND	10	µg/L	1	11/18/2003 7:04:00 PM
2-Methylnaphthalene	ND	10	µg/L	1	11/18/2003 7:04:00 PM
2-Methylphenol	ND	10	µg/L	1	11/18/2003 7:04:00 PM
2-Nitroaniline	ND	10	µg/L	1	11/18/2003 7:04:00 PM
2-Nitrophenol	ND	10	µg/L	1	11/18/2003 7:04:00 PM
3-Nitroaniline	ND	10	µg/L	1	11/18/2003 7:04:00 PM
4-Methylphenol	ND	10	µg/L	1	11/18/2003 7:04:00 PM
4-Nitroaniline	ND	10	µg/L	1	11/18/2003 7:04:00 PM
4-Nitrophenol	ND	10	µg/L	1	11/18/2003 7:04:00 PM
Acenaphthene	ND	10	µg/L	1	11/18/2003 7:04:00 PM
Acenaphthylene	ND	10	µg/L	1	11/18/2003 7:04:00 PM
Aniline	ND	10	µg/L	1	11/18/2003 7:04:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits
 J - Analyte detected below quantitation limits P - Dual Column results percent difference > 40%
 B - Analyte detected in the associated Method Blank E - Value above quantitation range
 * - Value exceeds Maximum Contaminant Level H - Analyzed outside of Hold Time

CLIENT: Navajo Refining Company
 Work Order: 0311131
 Project: NCL/TEL
 Lab ID: 0311131-02

Client Sample ID: TEL-3
 Collection Date: 11/11/2003 10:15:00 AM
 Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Anthracene	ND	10		µg/L	1	11/18/2003 7:04:00 PM
Benz(a)anthracene	ND	10		µg/L	1	11/18/2003 7:04:00 PM
Benzidine	ND	10		µg/L	1	11/18/2003 7:04:00 PM
Hexachloroethane	ND	10		µg/L	1	11/18/2003 7:04:00 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	11/18/2003 7:04:00 PM
Isophorone	ND	10		µg/L	1	11/18/2003 7:04:00 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	11/18/2003 7:04:00 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	11/18/2003 7:04:00 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	11/18/2003 7:04:00 PM
Naphthalene	ND	10		µg/L	1	11/18/2003 7:04:00 PM
Nitrobenzene	ND	10		µg/L	1	11/18/2003 7:04:00 PM
Pentachlorophenol	ND	10		µg/L	1	11/18/2003 7:04:00 PM
Phenanthrene	ND	10		µg/L	1	11/18/2003 7:04:00 PM
Phenol	ND	10		µg/L	1	11/18/2003 7:04:00 PM
Pyrene	ND	10		µg/L	1	11/18/2003 7:04:00 PM
Surr: 2,4,6-Tribromophenol	122	39-153		%REC	1	11/18/2003 7:04:00 PM
Surr: 2-Fluorobiphenyl	107	40-147		%REC	1	11/18/2003 7:04:00 PM
Surr: 2-Fluorophenol	62.2	21-100		%REC	1	11/18/2003 7:04:00 PM
Surr: 4-Terphenyl-d14	111	39-141		%REC	1	11/18/2003 7:04:00 PM
Surr: Nitrobenzene-d5	106	37-140		%REC	1	11/18/2003 7:04:00 PM
Surr: Phenol-d6	39.7	11-100		%REC	1	11/18/2003 7:04:00 PM
VOLATILES BY GC/MS		SW8260			Analyst: PC	
1,1,1-Trichloroethane	ND	5.0		µg/L	1	11/18/2003 10:57:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/L	1	11/18/2003 10:57:00 PM
1,1,2-Trichloroethane	ND	5.0		µg/L	1	11/18/2003 10:57:00 PM
1,1-Dichloroethane	ND	5.0		µg/L	1	11/18/2003 10:57:00 PM
1,1-Dichloroethene	ND	5.0		µg/L	1	11/18/2003 10:57:00 PM
1,2-Dichloroethane	ND	5.0		µg/L	1	11/18/2003 10:57:00 PM
2-Butanone	ND	10		µg/L	1	11/18/2003 10:57:00 PM
2-Chloroethyl vinyl ether	ND	10		µg/L	1	11/18/2003 10:57:00 PM
2-Hexanone	ND	10		µg/L	1	11/18/2003 10:57:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	11/18/2003 10:57:00 PM
Acetone	ND	10		µg/L	1	11/18/2003 10:57:00 PM
Benzene	150	5.0		µg/L	1	11/18/2003 10:57:00 PM
Bromodichloromethane	ND	5.0		µg/L	1	11/18/2003 10:57:00 PM
Bromoform	ND	5.0		µg/L	1	11/18/2003 10:57:00 PM
Bromomethane	ND	5.0		µg/L	1	11/18/2003 10:57:00 PM
Carbon disulfide	ND	10		µg/L	1	11/18/2003 10:57:00 PM
Carbon tetrachloride	ND	5.0		µg/L	1	11/18/2003 10:57:00 PM
Chlorobenzene	ND	5.0		µg/L	1	11/18/2003 10:57:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time

CLIENT: Navajo Refining Company
 Work Order: 0311131
 Project: NCL/TEL
 Lab ID: 0311131-02

Client Sample ID: TEL-3
 Collection Date: 11/11/2003 10:15:00 AM
 Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chloroethane	ND	5.0		µg/L	1	11/18/2003 10:57:00 PM
Chloroform	ND	5.0		µg/L	1	11/18/2003 10:57:00 PM
Chloromethane	ND	5.0		µg/L	1	11/18/2003 10:57:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	11/18/2003 10:57:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	11/18/2003 10:57:00 PM
Ethylbenzene	13	5.0		µg/L	1	11/18/2003 10:57:00 PM
m,p-Xylene	81	10		µg/L	1	11/18/2003 10:57:00 PM
Methylene chloride	ND	10		µg/L	1	11/18/2003 10:57:00 PM
Styrene	ND	5.0		µg/L	1	11/18/2003 10:57:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	11/18/2003 10:57:00 PM
Toluene	16	5.0		µg/L	1	11/18/2003 10:57:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	11/18/2003 10:57:00 PM
Trichloroethene	ND	5.0		µg/L	1	11/18/2003 10:57:00 PM
Vinyl acetate	ND	10		µg/L	1	11/18/2003 10:57:00 PM
Vinyl chloride	ND	2.0		µg/L	1	11/18/2003 10:57:00 PM
Xylenes, Total	88	15		µg/L	1	11/18/2003 10:57:00 PM
Surr: 1,2-Dichloroethane-d4	94.1	70-130		%REC	1	11/18/2003 10:57:00 PM
Surr: 4-Bromofluorobenzene	100	70-130		%REC	1	11/18/2003 10:57:00 PM
Surr: Dibromofluoromethane	97.7	70-130		%REC	1	11/18/2003 10:57:00 PM
Surr: Toluene-d8	104	70-130		%REC	1	11/18/2003 10:57:00 PM

ANIONS BY ION CHROMATOGRAPHY

E300

Analyst: **MG**

Chloride	72.4	1.00		mg/L	2	11/25/2003 4:37:00 PM
Fluoride	3.83	0.100		mg/L	1	11/13/2003 9:25:00 PM
Sulfate	1,910	100		mg/L	100	11/25/2003 5:10:00 PM
Nitrate/Nitrite (as N)	ND	0.100		mg/L	1	11/13/2003 9:25:00 PM
Surr: Dichloroacetic acid (surr)	114	80-120		%REC	100	11/25/2003 5:10:00 PM
Surr: Dichloroacetic acid (surr)	108	80-120		%REC	2	11/25/2003 4:37:00 PM
Surr: Dichloroacetic acid (surr)	100	80-120		%REC	1	11/13/2003 9:25:00 PM

ALKALINITY

E310.1

Analyst: **LMD**

Alkalinity, Bicarbonate (As CaCO3)	440	5.00		mg/L	1	11/18/2003
Alkalinity, Carbonate (As CaCO3)	ND	5.00		mg/L	1	11/18/2003
Alkalinity, Hydroxide (As CaCO3)	ND	5.00		mg/L	1	11/18/2003
Alkalinity, Total (As CaCO3)	440	5.00		mg/L	1	11/18/2003

CYANIDE, TOTAL

E335.3

Analyst: **LMD**

Cyanide	ND	0.0200		mg/L	1	11/15/2003
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Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time

CLIENT: Navajo Refining Company	Client Sample ID: TEL-2
Work Order: 0311131	Collection Date: 11/11/2003 10:30:00 AM
Project: NCL/TEL	
Lab ID: 0311131-03	Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL		SW7470			Prep Date: 11/17/2003 Analyst: MG	
Mercury	ND	0.000200		mg/L	1	11/18/2003 11:01:55 AM
ICP METALS, TOTAL		SW6020			Prep Date: 11/18/2003 Analyst: ALR	
Aluminum	ND	0.0200		mg/L	2	11/21/2003 2:53:00 PM
Arsenic	0.0105	0.0100		mg/L	2	11/19/2003 8:19:00 PM
Barium	0.140	0.0100		mg/L	2	11/19/2003 8:19:00 PM
Beryllium	ND	0.00400		mg/L	2	11/19/2003 8:19:00 PM
Boron	0.615	0.0400		mg/L	2	11/19/2003 8:19:00 PM
Cadmium	ND	0.00200		mg/L	2	11/19/2003 8:19:00 PM
Calcium	116	5.00		mg/L	10	11/19/2003 7:17:00 PM
Chromium	ND	0.00400		mg/L	2	11/19/2003 8:19:00 PM
Cobalt	ND	0.00400		mg/L	2	11/19/2003 8:19:00 PM
Copper	ND	0.00400		mg/L	2	11/19/2003 8:19:00 PM
Iron	ND	0.400		mg/L	2	11/19/2003 8:19:00 PM
Lead	ND	0.0100		mg/L	2	11/19/2003 8:19:00 PM
Magnesium	124	2.00		mg/L	10	11/19/2003 7:17:00 PM
Manganese	0.0183	0.0100		mg/L	2	11/19/2003 8:19:00 PM
Nickel	ND	0.0100		mg/L	2	11/19/2003 8:19:00 PM
Potassium	0.761	0.400		mg/L	2	11/19/2003 8:19:00 PM
Selenium	ND	0.0100		mg/L	2	11/19/2003 8:19:00 PM
Silver	ND	0.0100		mg/L	2	11/19/2003 8:19:00 PM
Sodium	317	2.00		mg/L	10	11/19/2003 7:17:00 PM
Vanadium	ND	0.0100		mg/L	2	11/19/2003 8:19:00 PM
Zinc	ND	0.0100		mg/L	2	11/19/2003 8:19:00 PM
SEMIVOLATILE ORGANICS BY GC/MS		SW8270			Prep Date: 11/17/2003 Analyst: RKG	
1,2,4-Trichlorobenzene	ND	10		µg/L	1	11/18/2003 7:29:00 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	11/18/2003 7:29:00 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	11/18/2003 7:29:00 PM
2-Methylnaphthalene	ND	10		µg/L	1	11/18/2003 7:29:00 PM
2-Methylphenol	ND	10		µg/L	1	11/18/2003 7:29:00 PM
2-Nitroaniline	ND	10		µg/L	1	11/18/2003 7:29:00 PM
2-Nitrophenol	ND	10		µg/L	1	11/18/2003 7:29:00 PM
3-Nitroaniline	ND	10		µg/L	1	11/18/2003 7:29:00 PM
4-Methylphenol	ND	10		µg/L	1	11/18/2003 7:29:00 PM
4-Nitroaniline	ND	10		µg/L	1	11/18/2003 7:29:00 PM
4-Nitrophenol	ND	10		µg/L	1	11/18/2003 7:29:00 PM
Acenaphthene	ND	10		µg/L	1	11/18/2003 7:29:00 PM
Acenaphthylene	ND	10		µg/L	1	11/18/2003 7:29:00 PM
Aniline	ND	10		µg/L	1	11/18/2003 7:29:00 PM

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

CLIENT: Navajo Refining Company
 Work Order: 0311131
 Project: NCL/TEL
 Lab ID: 0311131-03

Client Sample ID: TEL-2
 Collection Date: 11/11/2003 10:30:00 AM
 Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Anthracene	ND	10		µg/L	1	11/18/2003 7:29:00 PM
Benz(a)anthracene	ND	10		µg/L	1	11/18/2003 7:29:00 PM
Benzidine	ND	10		µg/L	1	11/18/2003 7:29:00 PM
Hexachloroethane	ND	10		µg/L	1	11/18/2003 7:29:00 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	11/18/2003 7:29:00 PM
Isophorone	ND	10		µg/L	1	11/18/2003 7:29:00 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	11/18/2003 7:29:00 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	11/18/2003 7:29:00 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	11/18/2003 7:29:00 PM
Naphthalene	17	10		µg/L	1	11/18/2003 7:29:00 PM
Nitrobenzene	ND	10		µg/L	1	11/18/2003 7:29:00 PM
Pentachlorophenol	ND	10		µg/L	1	11/18/2003 7:29:00 PM
Phenanthrene	ND	10		µg/L	1	11/18/2003 7:29:00 PM
Phenol	ND	10		µg/L	1	11/18/2003 7:29:00 PM
Pyrene	ND	10		µg/L	1	11/18/2003 7:29:00 PM
Surr: 2,4,6-Tribromophenol	116	39-153		%REC	1	11/18/2003 7:29:00 PM
Surr: 2-Fluorobiphenyl	102	40-147		%REC	1	11/18/2003 7:29:00 PM
Surr: 2-Fluorophenol	55.6	21-100		%REC	1	11/18/2003 7:29:00 PM
Surr: 4-Terphenyl-d14	97.9	39-141		%REC	1	11/18/2003 7:29:00 PM
Surr: Nitrobenzene-d5	96.8	37-140		%REC	1	11/18/2003 7:29:00 PM
Surr: Phenol-d6	37.3	11-100		%REC	1	11/18/2003 7:29:00 PM
VOLATILES BY GC/MS		SW8260			Analyst: PC	
1,1,1-Trichloroethane	ND	5.0		µg/L	1	11/18/2003 11:26:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/L	1	11/18/2003 11:26:00 PM
1,1,2-Trichloroethane	ND	5.0		µg/L	1	11/18/2003 11:26:00 PM
1,1-Dichloroethane	ND	5.0		µg/L	1	11/18/2003 11:26:00 PM
1,1-Dichloroethene	ND	5.0		µg/L	1	11/18/2003 11:26:00 PM
1,2-Dichloroethane	ND	5.0		µg/L	1	11/18/2003 11:26:00 PM
2-Butanone	ND	10		µg/L	1	11/18/2003 11:26:00 PM
2-Chloroethyl vinyl ether	ND	10		µg/L	1	11/18/2003 11:26:00 PM
2-Hexanone	ND	10		µg/L	1	11/18/2003 11:26:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	11/18/2003 11:26:00 PM
Acetone	ND	10		µg/L	1	11/18/2003 11:26:00 PM
Benzene	1,700	120		µg/L	25	11/19/2003 5:51:00 PM
Bromodichloromethane	ND	5.0		µg/L	1	11/18/2003 11:26:00 PM
Bromoform	ND	5.0		µg/L	1	11/18/2003 11:26:00 PM
Bromomethane	ND	5.0		µg/L	1	11/18/2003 11:26:00 PM
Carbon disulfide	ND	10		µg/L	1	11/18/2003 11:26:00 PM
Carbon tetrachloride	ND	5.0		µg/L	1	11/18/2003 11:26:00 PM
Chlorobenzene	ND	5.0		µg/L	1	11/18/2003 11:26:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
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 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time

CLIENT: Navajo Refining Company
 Work Order: 0311131
 Project: NCL/TEL
 Lab ID: 0311131-03

Client Sample ID: TEL-2
 Collection Date: 11/11/2003 10:30:00 AM
 Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chloroethane	ND	5.0		µg/L	1	11/18/2003 11:26:00 PM
Chloroform	ND	5.0		µg/L	1	11/18/2003 11:26:00 PM
Chloromethane	ND	5.0		µg/L	1	11/18/2003 11:26:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	11/18/2003 11:26:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	11/18/2003 11:26:00 PM
Ethylbenzene	39	5.0		µg/L	1	11/18/2003 11:26:00 PM
m,p-Xylene	220	10		µg/L	1	11/18/2003 11:26:00 PM
Methylene chloride	ND	10		µg/L	1	11/18/2003 11:26:00 PM
Styrene	ND	5.0		µg/L	1	11/18/2003 11:26:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	11/18/2003 11:26:00 PM
Toluene	98	5.0		µg/L	1	11/18/2003 11:26:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	11/18/2003 11:26:00 PM
Trichloroethene	ND	5.0		µg/L	1	11/18/2003 11:26:00 PM
Vinyl acetate	ND	10		µg/L	1	11/18/2003 11:26:00 PM
Vinyl chloride	ND	2.0		µg/L	1	11/18/2003 11:26:00 PM
Xylenes, Total	240	15		µg/L	1	11/18/2003 11:26:00 PM
Surr: 1,2-Dichloroethane-d4	94.8	70-130		%REC	1	11/18/2003 11:26:00 PM
Surr: 1,2-Dichloroethane-d4	95.1	70-130		%REC	25	11/19/2003 5:51:00 PM
Surr: 4-Bromofluorobenzene	98.4	70-130		%REC	1	11/18/2003 11:26:00 PM
Surr: 4-Bromofluorobenzene	102	70-130		%REC	25	11/19/2003 5:51:00 PM
Surr: Dibromofluoromethane	97.6	70-130		%REC	1	11/18/2003 11:26:00 PM
Surr: Dibromofluoromethane	99.7	70-130		%REC	25	11/19/2003 5:51:00 PM
Surr: Toluene-d8	104	70-130		%REC	1	11/18/2003 11:26:00 PM
Surr: Toluene-d8	107	70-130		%REC	25	11/19/2003 5:51:00 PM
ANIONS BY ION CHROMATOGRAPHY		E300		Analyst: MG		
Chloride	233	5.00		mg/L	10	11/25/2003 5:42:00 PM
Fluoride	1.56	0.100		mg/L	1	11/13/2003 9:58:00 PM
Sulfate	572	20.0		mg/L	20	11/25/2003 6:15:00 PM
Nitrate/Nitrite (as N)	ND	0.100		mg/L	1	11/13/2003 9:58:00 PM
Surr: Dichloroacetic acid (surr)	119	80-120		%REC	20	11/25/2003 6:15:00 PM
Surr: Dichloroacetic acid (surr)	119	80-120		%REC	10	11/25/2003 5:42:00 PM
Surr: Dichloroacetic acid (surr)	82.2	80-120		%REC	1	11/13/2003 9:58:00 PM
ALKALINITY		E310.1		Analyst: LMD		
Alkalinity, Bicarbonate (As CaCO3)	900	5.00		mg/L	1	11/18/2003
Alkalinity, Carbonate (As CaCO3)	ND	5.00		mg/L	1	11/18/2003
Alkalinity, Hydroxide (As CaCO3)	ND	5.00		mg/L	1	11/18/2003
Alkalinity, Total (As CaCO3)	900	5.00		mg/L	1	11/18/2003
CYANIDE, TOTAL		E335.3		Analyst: LMD		
Cyanide	ND	0.0200		mg/L	1	11/15/2003

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e-Lab, Inc.

Date: Nov 26 2003

CLIENT: Navajo Refining Company
Work Order: 0311131
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 7229 InstrumentID: Mercury

LCS Sample ID: WLC5W1-111703 Test Code: SW7470 Units: mg/L Analysis Date: 11/18/03 10:25
Client ID: Run ID: MERCURY_031118B SeqNo: 395540 Prep Date: 11/17/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00469	0.00020	0.005	0	93.8	83-115	0			

LCSD Sample ID: WLC5DW1-11170 Test Code: SW7470 Units: mg/L Analysis Date: 11/18/03 10:36
Client ID: Run ID: MERCURY_031118B SeqNo: 395542 Prep Date: 11/17/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.0047	0.00020	0.005	0	94	83-115	0.00469	0.213	20	

MS Sample ID: 0311127-01CMS Test Code: SW7470 Units: mg/L Analysis Date: 11/18/03 10:44
Client ID: Run ID: MERCURY_031118B SeqNo: 395545 Prep Date: 11/17/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00503	0.00020	0.005	-0.000042	101	70-124	0			

MSD Sample ID: 0311127-01CMSD Test Code: SW7470 Units: mg/L Analysis Date: 11/18/03 10:48
Client ID: Run ID: MERCURY_031118B SeqNo: 395546 Prep Date: 11/17/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00486	0.00020	0.005	-0.000042	98	70-124	0.00503	3.44	20	

DUP Sample ID: 0311127-01CDUP Test Code: SW7470 Units: mg/L Analysis Date: 11/18/03 10:40
Client ID: Run ID: MERCURY_031118B SeqNo: 395544 Prep Date: 11/17/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.00020	0	0	0	0-0	-0.000042	0	20	

DUP Sample ID: 0310284-06ADUP Test Code: SW7470 Units: mg/L Analysis Date: 11/18/03 11:16
Client ID: Run ID: MERCURY_031118B SeqNo: 398851 Prep Date: 11/17/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00408	0.00020	0	0	0	0-0	0.00394	3.49	20	

The following samples were analyzed in this batch: 0311131-01B 0311131-02B 0311131-03B

ND - Not Detected at the Reporting Limit
 - Analyte detected below quantitation limits
 O - Referenced analyte value is > 4 times amount spiked
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 B - Analyte detected in assoc. Method Blank
 U - Analyzed for but not detected
 E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0311131
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: 7240 InstrumentID: ICP4500

MBLK Sample ID: MBLKW4-111803 Test Code: SW6020 Units: mg/L Analysis Date: 11/19/03 15:54
 Client ID: Run ID: ICP4500_031119A SeqNo: 396563 Prep Date: 11/18/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	ND	0.010								
Arsenic	ND	0.0050								
Barium	ND	0.0050								
Beryllium	ND	0.0020								
Boron	ND	0.020								
Cadmium	ND	0.0010								
Calcium	ND	0.50								
Chromium	ND	0.0020								
Cobalt	ND	0.0020								
Copper	0.0003362	0.0020								J
Iron	ND	0.20								
Lead	ND	0.0050								
Magnesium	ND	0.20								
Manganese	ND	0.0050								
Nickel	ND	0.0050								
Potassium	ND	0.20								
Selenium	ND	0.0050								
Silver	ND	0.0050								
Sodium	ND	0.20								
Vanadium	ND	0.0050								
Zinc	ND	0.0050								

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CLIENT: Navajo Refining Company
 Work Order: 0311131
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: 7240 InstrumentID: ICP4500

LCS Sample ID: MLCW4-111803 Test Code: SW6020 Units: mg/L Analysis Date: 11/19/03 15:59
 Client ID: Run ID: ICP4500_031119A SeqNo: 396564 Prep Date: 11/18/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.09986	0.010	0.1	0	99.9	80-120	0			
Arsenic	0.09773	0.0050	0.1	0	97.7	80-120	0			
Barium	0.09202	0.0050	0.1	0	92	80-120	0			
Beryllium	0.09306	0.0020	0.1	0	93.1	80-120	0			
Boron	0.4477	0.020	0.5	0	89.5	80-120	0			
Cadmium	0.09531	0.0010	0.1	0	95.3	80-120	0			
Calcium	9.726	0.50	10	0	97.3	80-120	0			
Chromium	0.09647	0.0020	0.1	0	96.5	80-120	0			
Cobalt	0.0976	0.0020	0.1	0	97.6	80-120	0			
Copper	0.09508	0.0020	0.1	0	95.1	80-120	0			
Iron	9.645	0.20	10	0	96.4	80-120	0			
Lead	0.09345	0.0050	0.1	0	93.4	80-120	0			
Magnesium	10.13	0.20	10	0	101	80-120	0			
Manganese	0.09523	0.0050	0.1	0	95.2	80-120	0			
Nickel	0.09827	0.0050	0.1	0	98.3	80-120	0			
Potassium	9.995	0.20	10	0	100	80-120	0			
Selenium	0.09703	0.0050	0.1	0	97	80-120	0			
Silver	0.09541	0.0050	0.1	0	95.4	80-120	0			
Sodium	9.863	0.20	10	0	98.6	80-120	0			
Vanadium	0.09687	0.0050	0.1	0	96.9	80-120	0			
Zinc	0.09747	0.0050	0.1	0	97.5	80-120	0			

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CLIENT: Navajo Refining Company
 Work Order: 0311131
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: 7240 InstrumentID: ICP4500

MS Sample ID: 0311148-01CMS Test Code: SW6020 Units: mg/L Analysis Date: 11/19/03 20:33

Client ID: Run ID: ICP4500_031119A SeqNo: 396609 Prep Date: 11/18/2003 DF: 2

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.1078	0.010	0.1	0.01191	95.9	75-125	0			
Barium	0.4243	0.010	0.1	0.3082	116	75-125	0			
Beryllium	0.09481	0.0040	0.1	-0.00001868	94.8	75-125	0			
Boron	0.6713	0.040	0.5	0.2052	93.2	75-125	0			
Cadmium	0.09191	0.0020	0.1	-5.886E-06	91.9	75-125	0			
Calcium	176.3	1.0	10	151	253	75-125	0			SEO
Chromium	0.09905	0.0040	0.1	0.001684	97.4	75-125	0			
Cobalt	0.09502	0.0040	0.1	0.0001253	94.9	75-125	0			
Copper	0.08834	0.0040	0.1	0.002035	86.3	75-125	0			
Iron	9.843	0.40	10	0.3298	95.1	75-125	0			
Lead	0.09711	0.010	0.1	0.00009946	97	75-125	0			
Magnesium	40.65	0.40	10	27.81	128	75-125	0			S
Manganese	0.4901	0.010	0.1	0.3696	120	75-125	0			
Nickel	0.09529	0.010	0.1	0.001728	93.6	75-125	0			
Potassium	14.61	0.40	10	4.356	103	75-125	0			
Selenium	0.08908	0.010	0.1	-0.003005	92.1	75-125	0			
Silver	0.09047	0.010	0.1	-0.00007977	90.5	75-125	0			
Sodium	ND	0.40	10	176.8	-1770	75-125	0			SO
Vanadium	0.1004	0.010	0.1	0.0001251	100	75-125	0			
Zinc	0.09002	0.010	0.1	0.003149	86.9	75-125	0			

MS Sample ID: 0311148-01CMS Test Code: SW6020 Units: mg/L Analysis Date: 11/21/03 15:07

Client ID: Run ID: ICP4500_031121A SeqNo: 397327 Prep Date: 11/18/2003 DF: 2

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1067	0.020	0.1	0.01007	96.6	75-125	0			

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R - RPD outside accepted recovery limits

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U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0311131
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: 7240 InstrumentID: ICP4500

MSD Sample ID: 0311148-01CMSD Test Code: SW6020 Units: mg/L Analysis Date: 11/19/03 20:37

Client ID: Run ID: ICP4500_031119A SeqNo: 396610 Prep Date: 11/18/2003 DF: 2

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.1146	0.010	0.1	0.01191	103	75-125	0.1078	6.12	25	
Barium	0.4515	0.010	0.1	0.3082	143	75-125	0.4243	6.21	25	S
Beryllium	0.1008	0.0040	0.1	-0.00001868	101	75-125	0.09481	6.12	25	
Boron	0.7396	0.040	0.5	0.2052	107	75-125	0.6713	9.68	25	
Cadmium	0.09674	0.0020	0.1	-5.886E-06	96.7	75-125	0.09191	5.12	25	
Calcium	187.5	1.0	10	151	365	75-125	176.3	6.16	25	SEO
Chromium	0.1042	0.0040	0.1	0.001684	103	75-125	0.09905	5.07	25	
Cobalt	0.1007	0.0040	0.1	0.0001253	101	75-125	0.09502	5.8	25	
Copper	0.09497	0.0040	0.1	0.002035	92.9	75-125	0.08834	7.23	25	
Iron	10.24	0.40	10	0.3298	99.1	75-125	9.843	3.95	25	
Lead	0.1017	0.010	0.1	0.00009946	102	75-125	0.09711	4.62	25	
Magnesium	42.84	0.40	10	27.81	150	75-125	40.65	5.25	25	S
Manganese	0.5191	0.010	0.1	0.3696	149	75-125	0.4901	5.75	25	S
Nickel	0.1	0.010	0.1	0.001728	98.3	75-125	0.09529	4.82	25	
Potassium	15.6	0.40	10	4.356	112	75-125	14.61	6.55	25	
Selenium	0.09616	0.010	0.1	-0.003005	99.2	75-125	0.08908	7.64	25	
Silver	0.0952	0.010	0.1	-0.00007977	95.3	75-125	0.09047	5.1	25	
Sodium	217.4	0.40	10	176.8	406	75-125	0	200	25	SREO
Vanadium	0.1078	0.010	0.1	0.0001251	108	75-125	0.1004	7.11	25	
Zinc	0.09581	0.010	0.1	0.003149	92.7	75-125	0.09002	6.23	25	

MSD Sample ID: 0311148-01CMSD Test Code: SW6020 Units: mg/L Analysis Date: 11/21/03 15:11

Client ID: Run ID: ICP4500_031121A SeqNo: 397328 Prep Date: 11/18/2003 DF: 2

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1144	0.020	0.1	0.01007	104	75-125	0.1067	6.97	25	

DUP Sample ID: 0311148-01CDUP Test Code: SW6020 Units: mg/L Analysis Date: 11/19/03 19:26

Client ID: Run ID: ICP4500_031119A SeqNo: 396595 Prep Date: 11/18/2003 DF: 10

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	158.7	5.0	0	0	0	0-0	143.4	10.1	25	
Sodium	180.8	2.0	0	0	0	0-0	168.1	7.28	25	

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CLIENT: Navajo Refining Company
 Work Order: 0311131
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: 7240 InstrumentID: ICP4500

DUP		Sample ID: 0311148-01CDUP			Test Code: SW6020		Units: mg/L		Analysis Date: 11/19/03 20:28		
Client ID:		Run ID: ICP4500_031119A			SeqNo: 396608		Prep Date: 11/18/2003		DF: 2		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	0.01032	0.010	0	0	0	0-0	0.01191	14.3	25		
Barium	0.3426	0.010	0	0	0	0-0	0.3082	10.6	25		
Beryllium	ND	0.0040	0	0	0	0-0	-0.00001868	0	25		
Boron	0.1996	0.040	0	0	0	0-0	0.2052	2.77	25		
Cadmium	ND	0.0020	0	0	0	0-0	-5.886E-06	0	25		
Chromium	0.001782	0.0040	0	0	0	0-0	0.001684	0	25	J	
Cobalt	ND	0.0040	0	0	0	0-0	0.0001253	0	25		
Copper	0.001031	0.0040	0	0	0	0-0	0.002035	0	25	J	
Iron	0.3405	0.40	0	0	0	0-0	0.3298	0	25	J	
Lead	ND	0.010	0	0	0	0-0	0.00009946	0	25		
Magnesium	31.64	0.40	0	0	0	0-0	27.81	12.9	25		
Manganese	0.4104	0.010	0	0	0	0-0	0.3696	10.5	25		
Nickel	0.001159	0.010	0	0	0	0-0	0.001728	0	25	J	
Potassium	4.864	0.40	0	0	0	0-0	4.356	11	25		
Selenium	ND	0.010	0	0	0	0-0	-0.003005	0	25		
Silver	ND	0.010	0	0	0	0-0	-0.00007977	0	25		
Vanadium	ND	0.010	0	0	0	0-0	0.0001251	0	25		
Zinc	ND	0.010	0	0	0	0-0	0.003149	0	25		

DUP		Sample ID: 0311148-01CDUP			Test Code: SW6020		Units: mg/L		Analysis Date: 11/21/03 15:02		
Client ID:		Run ID: ICP4500_031121A			SeqNo: 397326		Prep Date: 11/18/2003		DF: 2		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Aluminum	0.01069	0.020	0	0	0	0-0	0.01007	0	25	J	

The following samples were analyzed in this batch: 0311131-01B 0311131-02B 0311131-03B

ND - Not Detected at the Reporting Limit
 S - Spike Recovery outside accepted recovery limits
 B - Analyte detected in assoc. Method Blank
 Analyte detected below quantitation limits
 R - RPD outside accepted recovery limits
 U - Analyzed for but not detected
 O - Referenced analyte value is > 4 times amount spiked
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0311131
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: 7227 InstrumentID: SV-3

MBLK Sample ID: SBLKW1-031117 Test Code: SW8270 Units: µg/L Analysis Date: 11/19/03 11:48

Client ID: Run ID: SV-3_031117A SeqNo: 396868 Prep Date: 11/17/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	ND	10								
2,4,5-Trichlorophenol	ND	10								
2,4,6-Trichlorophenol	ND	10								
2-Methylnaphthalene	ND	10								
2-Methylphenol	ND	10								
2-Nitroaniline	ND	10								
2-Nitrophenol	ND	10								
3-Nitroaniline	ND	10								
4-Methylphenol	ND	10								
4-Nitroaniline	ND	10								
4-Nitrophenol	ND	10								
Acenaphthene	ND	10								
Acenaphthylene	ND	10								
Aniline	ND	10								
Anthracene	ND	10								
Benz(a)anthracene	ND	10								
Benzidine	ND	10								
Hexachloroethane	ND	10								
Indeno(1,2,3-cd)pyrene	ND	10								
Isophorone	ND	10								
N-Nitrosodi-n-propylamine	ND	10								
N-Nitrosodimethylamine	ND	10								
N-Nitrosodiphenylamine	ND	10								
Naphthalene	ND	10								
Nitrobenzene	ND	10								
Pentachlorophenol	ND	10								
Phenanthrene	ND	10								
Phenol	ND	10								
Pyrene	ND	10								
1,4-Dichlorobenzene-d4	40	0								
Acenaphthene-d10	40	0								
Chrysene-d12	40	0								
Naphthalene-d8	40	0								
Perylene-d12	40	0								
Phenanthrene-d10	40	0								
Surr: 2,4,6-Tribromophenol	109.1	0	100	0	109	39-153		0		
Surr: 2-Fluorobiphenyl	100.6	0	100	0	101	40-147		0		
Surr: 2-Fluorophenol	64.09	0	100	0	64.1	21-100		0		
Surr: 4-Terphenyl-d14	97.73	0	100	0	97.7	39-141		0		
Surr: Nitrobenzene-d5	95.59	0	100	0	95.6	37-140		0		
Surr: Phenol-d6	43.52	0	100	0	43.5	11-100		0		

ND - Not Detected at the Reporting Limit

- Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0311131
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: 7227 InstrumentID: SV-3

LCS Sample ID: SLCSW1-031117 Test Code: SW8270 Units: µg/L Analysis Date: 11/17/03 18:23
 Client ID: Run ID: SV-3_031117A SeqNo: 396891 Prep Date: 11/17/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	48.81	10	50	0	97.6	50-115	0			
2,4,5-Trichlorophenol	102.1	10	100	0	102	72-118	0			
2,4,6-Trichlorophenol	99.54	10	100	0	99.5	72-117	0			
2-Methylnaphthalene	47.07	10	50	0	94.1	47-122	0			
2-Methylphenol	85.73	10	100	0	85.7	51-115	0			
2-Nitroaniline	48.75	10	50	0	97.5	73-119	0			
2-Nitrophenol	98.44	10	100	0	98.4	60-119	0			
3-Nitroaniline	47.34	10	50	0	94.7	61-118	0			
4-Methylphenol	119	10	150	0	79.3	44-115	0			
4-Nitroaniline	50.5	10	50	0	101	61-123	0			
4-Nitrophenol	49.27	10	100	0	49.3	17-100	0			
Acenaphthene	48.16	10	50	0	96.3	68-115	0			
Acenaphthylene	47.95	10	50	0	95.9	67-116	0			
Anthracene	52.92	10	50	0	106	72-124	0			
Benz(a)anthracene	44.25	10	50	0	88.5	55-131	0			
Benzidine	25.31	10	50	0	50.6	10-115	0			
Hexachloroethane	49.33	10	50	0	98.7	46-115	0			
Indeno(1,2,3-cd)pyrene	51.15	10	50	0	102	42-123	0			
Isophorone	50.91	10	50	0	102	63-117	0			
N-Nitrosodi-n-propylamine	48.34	10	50	0	96.7	67-115	0			
N-Nitrosodimethylamine	32.92	10	50	0	65.8	28-115	0			
N-Nitrosodiphenylamine	59.36	10	50	0	119	72-144	0			
Naphthalene	48.3	10	50	0	96.6	52-115	0			
Nitrobenzene	48.75	10	50	0	97.5	65-115	0			
Pentachlorophenol	114.5	10	100	0	115	65-123	0			
Phenanthrene	50.8	10	50	0	102	69-119	0			
Phenol	48.62	10	100	0	48.6	16-115	0			
Pyrene	44.11	10	50	0	88.2	51-130	0			
Surr: 2,4,6-Tribromophenol	112.2	0	100	0	112	39-153	0			
Surr: 2-Fluorobiphenyl	97.19	0	100	0	97.2	40-147	0			
Surr: 2-Fluorophenol	70.73	0	100	0	70.7	21-100	0			
Surr: 4-Terphenyl-d14	94.35	0	100	0	94.4	39-141	0			
Surr: Nitrobenzene-d5	96.95	0	100	0	96.9	37-140	0			
Surr: Phenol-d6	45.92	0	100	0	45.9	11-100	0			

ND - Not Detected at the Reporting Limit

L - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0311131
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: 7227 InstrumentID: SV-3

LCSO Sample ID: SLCSOW1-031117 Test Code: SW8270 Units: µg/L Analysis Date: 11/17/03 18:49
 Client ID: Run ID: SV-3_031117A SeqNo: 396892 Prep Date: 11/17/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	51.79	10	50	0	104	50-115	48.81	5.92	30	
2,4,5-Trichlorophenol	106.3	10	100	0	106	72-118	102.1	4	30	
2,4,6-Trichlorophenol	104.4	10	100	0	104	72-117	99.54	4.78	30	
2-Methylnaphthalene	49.98	10	50	0	100	47-122	47.07	6.01	30	
2-Methylphenol	91.19	10	100	0	91.2	51-115	85.73	6.18	30	
2-Nitroaniline	51.39	10	50	0	103	73-119	48.75	5.29	30	
2-Nitrophenol	103.2	10	100	0	103	60-119	98.44	4.75	30	
3-Nitroaniline	49.48	10	50	0	99	61-118	47.34	4.41	30	
4-Methylphenol	129	10	150	0	86	44-115	119	8.03	30	
4-Nitroaniline	53.13	10	50	0	106	61-123	50.5	5.08	30	
4-Nitrophenol	51.6	10	100	0	51.6	17-100	49.27	4.63	30	
Acenaphthene	50.55	10	50	0	101	68-115	48.16	4.85	30	
Acenaphthylene	50.46	10	50	0	101	67-116	47.95	5.09	30	
Anthracene	53.41	10	50	0	107	72-124	52.92	0.924	30	
Benz(a)anthracene	44.87	10	50	0	89.7	55-131	44.25	1.39	30	
Benzidine	25.61	10	50	0	51.2	10-115	25.31	1.18	30	
Hexachloroethane	51.13	10	50	0	102	46-115	49.33	3.58	30	
Indeno(1,2,3-cd)pyrene	53.71	10	50	0	107	42-123	51.15	4.88	30	
Isophorone	53.22	10	50	0	106	63-117	50.91	4.44	30	
N-Nitrosodi-n-propylamine	51.61	10	50	0	103	67-115	48.34	6.54	30	
N-Nitrosodimethylamine	33.2	10	50	0	66.4	28-115	32.92	0.85	30	
N-Nitrosodiphenylamine	60.14	10	50	0	120	72-144	59.36	1.3	30	
Naphthalene	49.41	10	50	0	98.8	52-115	48.3	2.27	30	
Nitrobenzene	51.45	10	50	0	103	65-115	48.75	5.38	30	
Pentachlorophenol	118.8	10	100	0	119	65-123	114.5	3.62	30	
Phenanthrene	51.89	10	50	0	104	69-119	50.8	2.14	30	
Phenol	51.92	10	100	0	51.9	16-115	48.62	6.58	30	
Pyrene	44.18	10	50	0	88.4	51-130	44.11	0.157	30	
Surr: 2,4,6-Tribromophenol	114.3	0	100	0	114	39-153	112.2	1.9	30	
Surr: 2-Fluorobiphenyl	100.6	0	100	0	101	40-147	97.19	3.46	30	
Surr: 2-Fluorophenol	71.22	0	100	0	71.2	21-100	70.73	0.693	30	
Surr:4-Terphenyl-d14	96.04	0	100	0	96	39-141	94.35	1.77	30	
Surr: Nitrobenzene-d5	99.47	0	100	0	99.5	37-140	96.95	2.57	30	
Surr: Phenol-d6	49.03	0	100	0	49	11-100	45.92	6.55	30	

The following samples were analyzed in this batch: 0311131-01E 0311131-02E 0311131-03E

ND - Not Detected at the Reporting Limit
 S - Spike Recovery outside accepted recovery limits
 B - Analyte detected in assoc. Method Blank
 - Analyte detected below quantitation limits
 R - RPD outside accepted recovery limits
 U - Analyzed for but not detected
 O - Referenced analyte value is > 4 times amount spiked
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0311131
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: R17290 InstrumentID: VOA_I

MBLK Sample ID: VBLKW-1118 Test Code: SW8260 Units: µg/L Analysis Date: 11/18/03 14:07

Client ID: Run ID: VOA_I_031118A SeqNo: 395601 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	ND	5.0								
1,1,2,2-Tetrachloroethane	ND	5.0								
1,1,2-Trichloroethane	ND	5.0								
1,1-Dichloroethane	ND	5.0								
1,1-Dichloroethene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
2-Butanone	ND	10								
2-Chloroethyl vinyl ether	ND	10								
2-Hexanone	ND	10								
4-Methyl-2-pentanone	ND	10								
Acetone	ND	10								
Benzene	ND	5.0								
Bromodichloromethane	ND	5.0								
Bromoform	ND	5.0								
Bromomethane	ND	5.0								
Carbon disulfide	ND	10								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroethane	ND	5.0								
Chloroform	ND	5.0								
Chloromethane	ND	5.0								
cis-1,3-Dichloropropene	ND	5.0								
Dibromochloromethane	ND	5.0								
Ethylbenzene	ND	5.0								
m,p-Xylene	ND	10								
Methylene chloride	ND	10								
Styrene	ND	5.0								
Tetrachloroethene	ND	5.0								
Toluene	ND	5.0								
trans-1,3-Dichloropropene	ND	5.0								
Trichloroethene	ND	5.0								
Vinylacetate	ND	10								
Vinyl chloride	ND	2.0								
Xylenes, Total	ND	15								
Surr: 1,2-Dichloroethane-d4	47.17	5.0	50	0	94.3	70-130		0		
Surr: 4-Bromofluorobenzene	48.25	5.0	50	0	96.5	70-130		0		
Surr: Dibromofluoromethane	49.14	5.0	50	0	98.3	70-130		0		
Surr: Toluene-d8	51.97	5.0	50	0	104	70-130		0		

ND - Not Detected at the Reporting Limit

- Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0311131
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: R17290 InstrumentID: VOA_I

LCS	Sample ID: VLCSW-1118	Test Code: SW8260		Units: µg/L	Analysis Date: 11/18/03 13:38					
Client ID:	Run ID: VOA_I_031118A	SeqNo: 395600	Prep Date:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	49.84	5.0	50	0	99.7	75-118	0	0		
1,1,2,2-Tetrachloroethane	50.66	5.0	50	0	101	79-120	0	0		
1,1,2-Trichloroethane	50.68	5.0	50	0	101	81-119	0	0		
1,1-Dichloroethane	51.33	5.0	50	0	103	80-120	0	0		
1,1-Dichloroethene	49.92	5.0	50	0	99.8	80-120	0	0		
1,2-Dichloroethane	48.47	5.0	50	0	96.9	80-120	0	0		
2-Butanone	103.6	10	100	0	104	70-130	0	0		
2-Chloroethyl vinyl ether	78.25	10	100	0	78.3	72-120	0	0		
2-Hexanone	73.63	10	100	0	73.6	70-130	0	0		
4-Methyl-2-pentanone	93.81	10	100	0	93.8	78-120	0	0		
Acetone	111.8	10	100	0	112	60-135	0	0		
Benzene	51.43	5.0	50	0	103	82-119	0	0		
Bromodichloromethane	49.7	5.0	50	0	99.4	81-119	0	0		
Bromoform	47.85	5.0	50	0	95.7	80-120	0	0		
Bromomethane	57.78	5.0	50	0	116	75-130	0	0		
Carbon disulfide	101.9	10	100	0	102	78-120	0	0		
Carbon tetrachloride	49.43	5.0	50	0	98.9	77-120	0	0		
Chlorobenzene	49.2	5.0	50	0	98.4	82-118	0	0		
Chloroethane	50.56	5.0	50	0	101	78-122	0	0		
Chloroform	50.09	5.0	50	0	100	78-120	0	0		
Chloromethane	49.83	5.0	50	0	99.7	75-125	0	0		
cis-1,3-Dichloropropene	51.65	5.0	50	0	103	81-120	0	0		
Dibromochloromethane	48.9	5.0	50	0	97.8	81-118	0	0		
Ethylbenzene	51.71	5.0	50	0	103	82-120	0	0		
m,p-Xylene	101.7	10	100	0	102	82-122	0	0		
Methylene chloride	50.17	10	50	0	100	80-122	0	0		
Styrene	52.33	5.0	50	0	105	82-121	0	0		
Tetrachloroethene	49.13	5.0	50	0	98.3	79-118	0	0		
Toluene	50.27	5.0	50	0	101	81-119	0	0		
trans-1,3-Dichloropropene	50.8	5.0	50	0	102	82-121	0	0		
Trichloroethene	49.61	5.0	50	0	99.2	78-118	0	0		
Vinylacetate	109.5	10	100	0	110	75-120	0	0		
Vinyl chloride	51.93	2.0	50	0	104	73-127	0	0		
Xylenes, Total	153.5	15	150	0	102	80-120	0	0		
Surr:1,2-Dichloroethane-d4	46.61	5.0	50	0	93.2	70-130	0	0		
Surr:4-Bromofluorobenzene	49.7	5.0	50	0	99.4	70-130	0	0		
Surr:Dibromofluoromethane	47.71	5.0	50	0	95.4	70-130	0	0		
Surr:Toluene-d8	50.62	5.0	50	0	101	70-130	0	0		

ND - Not Detected at the Reporting Limit

- Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0311131
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: R17290 InstrumentID: VOA_I

MS	Sample ID: 0311146-07AMS	Test Code: SW8260		Units: µg/L	Analysis Date: 11/18/03 15:01					
Client ID:	Run ID: VOA_I_031118A	SeqNo: 396045	Prep Date:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	54.97	5.0	50	0	110	75-125	0			
1,1,2,2-Tetrachloroethane	58.46	5.0	50	0	117	75-125	0			
1,1,2-Trichloroethane	58.75	5.0	50	0	117	75-125	0			
1,1-Dichloroethane	61.48	5.0	50	2.583	118	75-125	0			
1,1-Dichloroethene	101	5.0	50	30.84	140	65-130	0			S
1,2-Dichloroethane	57.39	5.0	50	0	115	70-130	0			
2-Butanone	106.9	10	100	0	107	64-128	0			
2-Chloroethyl vinyl ether	14.79	10	100	0	14.8	75-125	0			S
2-Hexanone	77.39	10	100	0	77.4	72-124	0			
4-Methyl-2-pentanone	109.1	10	100	0	109	75-125	0			
Acetone	99.41	10	100	0	99.4	60-130	0			
Benzene	58.5	5.0	50	0	117	76-127	0			
Bromodichloromethane	58.12	5.0	50	0	116	75-125	0			
Bromoform	56.55	5.0	50	0	113	75-125	0			
Bromomethane	61.96	5.0	50	0	124	75-125	0			
Carbon disulfide	113.7	10	100	0	114	75-125	0			
Carbon tetrachloride	54.75	5.0	50	0	110	70-130	0			
Chlorobenzene	55.71	5.0	50	0	111	75-126	0			
Chloroethane	56.07	5.0	50	0	112	70-130	0			
Chloroform	56.93	5.0	50	0	114	75-125	0			
Chloromethane	52.49	5.0	50	0	105	75-125	0			
cis-1,3-Dichloropropene	59.34	5.0	50	0	119	75-125	0			
Dibromochloromethane	58.1	5.0	50	0	116	75-125	0			
Ethylbenzene	58.07	5.0	50	0	116	75-125	0			
m,p-Xylene	113.5	10	100	0	114	75-125	0			
Methylene chloride	56.89	10	50	0	114	75-125	0			
Styrene	58.92	5.0	50	0	118	75-125	0			
Tetrachloroethene	54.05	5.0	50	0	108	75-125	0			
Toluene	56.67	5.0	50	0	113	76-125	0			
trans-1,3-Dichloropropene	60.85	5.0	50	0	122	70-130	0			
Trichloroethene	56.23	5.0	50	0	112	71-120	0			
Vinylacetate	125.8	10	100	0	126	75-125	0			S
Vinyl chloride	56.6	2.0	50	0	113	60-135	0			
Xylenes, Total	171.1	15	150	0	114	75-125	0			
Surr:1,2-Dichloroethane-d4	46.74	5.0	50	0	93.5	70-130	0			
Surr:4-Bromofluorobenzene	50.14	5.0	50	0	100	70-130	0			
Surr:Dibromofluoromethane	48.36	5.0	50	0	96.7	70-130	0			
Surr:Toluene-d8	50.04	5.0	50	0	100	70-130	0			

ND - Not Detected at the Reporting Limit

Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0311131
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: R17290 InstrumentID: VOA_I

MSD	Sample ID: 0311146-07AMSD	Test Code: SW8260	Units: µg/L	Analysis Date: 11/18/03 15:29						
Client ID:	Run ID: VOA_I_031118A	SeqNo: 396046	Prep Date:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	51.88	5.0	50	0	104	75-125	54.97	5.79	20	
1,1,2,2-Tetrachloroethane	51.89	5.0	50	0	104	75-125	58.46	11.9	20	
1,1,2-Trichloroethane	54.08	5.0	50	0	108	75-125	58.75	8.27	20	
1,1-Dichloroethane	55.13	5.0	50	2.583	105	75-125	61.48	10.9	20	
1,1-Dichloroethene	71.78	5.0	50	30.84	81.9	65-130	101	33.8	20	R
1,2-Dichloroethane	52.55	5.0	50	0	105	70-130	57.39	8.8	20	
2-Butanone	96.27	10	100	0	96.3	64-128	106.9	10.5	20	
2-Chloroethyl vinyl ether	10.51	10	100	0	10.5	75-125	14.79	33.8	20	SR
2-Hexanone	74.18	10	100	0	74.2	72-124	77.39	4.23	20	
4-Methyl-2-pentanone	98.42	10	100	0	98.4	75-125	109.1	10.3	20	
Acetone	90.44	10	100	0	90.4	60-130	99.41	9.45	20	
Benzene	54.97	5.0	50	0	110	76-127	58.5	6.23	20	
Bromodichloromethane	53.71	5.0	50	0	107	75-125	58.12	7.9	20	
Bromoform	50.94	5.0	50	0	102	75-125	56.55	10.4	20	
Bromomethane	59.19	5.0	50	0	118	75-125	61.96	4.57	20	
Carbon disulfide	108.5	10	100	0	109	75-125	113.7	4.67	20	
Carbon tetrachloride	52.57	5.0	50	0	105	70-130	54.75	4.06	20	
Chlorobenzene	52.25	5.0	50	0	105	75-126	55.71	6.41	20	
Chloroethane	53.72	5.0	50	0	107	70-130	56.07	4.28	20	
Chloroform	52.61	5.0	50	0	105	75-125	56.93	7.9	20	
Chloromethane	55.49	5.0	50	0	111	75-125	52.49	5.56	20	
cis-1,3-Dichloropropene	54.75	5.0	50	0	109	75-125	59.34	8.05	20	
Dibromochloromethane	53.62	5.0	50	0	107	75-125	58.1	8.02	20	
Ethylbenzene	55.8	5.0	50	0	112	75-125	58.07	3.97	20	
m,p-Xylene	108.2	10	100	0	108	75-125	113.5	4.85	20	
Methylene chloride	52.33	10	50	0	105	75-125	56.89	8.35	20	
Styrene	55.6	5.0	50	0	111	75-125	58.92	5.8	20	
Tetrachloroethene	52.27	5.0	50	0	105	75-125	54.05	3.34	20	
Toluene	54.55	5.0	50	0	109	76-125	56.67	3.8	20	
trans-1,3-Dichloropropene	54.07	5.0	50	0	108	70-130	60.85	11.8	20	
Trichloroethene	53.11	5.0	50	0	106	71-120	56.23	5.7	20	
Vinylacetate	114.3	10	100	0	114	75-125	125.8	9.59	20	
Vinyl chloride	54.4	2.0	50	0	109	60-135	56.6	3.96	20	
Xylenes, Total	163.1	15	150	0	109	75-125	171.1	4.81	20	
Surr: 1,2-Dichloroethane-d4	46.9	5.0	50	0	93.8	70-130	46.74	0.331	20	
Surr: 4-Bromofluorobenzene	50.18	5.0	50	0	100	70-130	50.14	0.0834	20	
Surr: Dibromofluoromethane	48.5	5.0	50	0	97	70-130	48.36	0.276	20	
Surr: Toluene-d8	51.51	5.0	50	0	103	70-130	50.04	2.89	20	

The following samples were analyzed in this batch: 0311131-01A 0311131-02A 0311131-03A

ND - Not Detected at the Reporting Limit
 S - Spike Recovery outside accepted recovery limits
 B - Analyte detected in assoc. Method Blank
 Analyte detected below quantitation limits
 R - RPD outside accepted recovery limits
 U - Analyzed for but not detected
 O - Referenced analyte value is > 4 times amount spiked
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0311131
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: R17310 InstrumentID: VOA_I

MBLK Sample ID: VBLKW-1119 Test Code: SW8260 Units: µg/L Analysis Date: 11/19/03 11:01

Client ID: Run ID: VOA_I_031119A SeqNo: 396118 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	ND	5.0								
1,1,2,2-Tetrachloroethane	ND	5.0								
1,1,2-Trichloroethane	ND	5.0								
1,1-Dichloroethane	ND	5.0								
1,1-Dichloroethene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
2-Butanone	ND	10								
2-Chloroethyl vinyl ether	ND	10								
2-Hexanone	ND	10								
4-Methyl-2-pentanone	ND	10								
Acetone	ND	10								
Benzene	ND	5.0								
Bromodichloromethane	ND	5.0								
Bromoform	ND	5.0								
Bromomethane	ND	5.0								
Carbon disulfide	ND	10								
Carbontetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroethane	ND	5.0								
Chloroform	ND	5.0								
Chloromethane	ND	5.0								
cis-1,3-Dichloropropene	ND	5.0								
Dibromochloromethane	ND	5.0								
Ethylbenzene	ND	5.0								
m,p-Xylene	ND	10								
Methylene chloride	ND	10								
Styrene	ND	5.0								
Tetrachloroethene	ND	5.0								
Toluene	ND	5.0								
trans-1,3-Dichloropropene	ND	5.0								
Trichloroethene	ND	5.0								
Vinylacetate	ND	10								
Vinyl chloride	ND	2.0								
Xylenes, Total	ND	15								
Surr:1,2-Dichloroethane-d4	47.54	5.0	50	0	95.1	70-130	0			
Surr:4-Bromofluorobenzene	47.75	5.0	50	0	95.5	70-130	0			
Surr:Dibromofluoromethane	49.43	5.0	50	0	98.9	70-130	0			
Surr:Toluene-d8	52.34	5.0	50	0	105	70-130	0			

ND - Not Detected at the Reporting Limit

Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0311131
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: R17310 InstrumentID: VOA_I

LCS	Sample ID: VLCSW-1119	Test Code: SW8260		Units: µg/L	Analysis Date: 11/19/03 10:33					
Client ID:	Run ID: VOA_I_031119A	SeqNo: 396117	Prep Date:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	50	5.0	50	0	100	75-118		0		
1,1,2,2-Tetrachloroethane	50.68	5.0	50	0	101	79-120		0		
1,1,2-Trichloroethane	52.26	5.0	50	0	105	81-119		0		
1,1-Dichloroethane	53.1	5.0	50	0	106	80-120		0		
1,1-Dichloroethene	51.01	5.0	50	0	102	80-120		0		
1,2-Dichloroethane	48.14	5.0	50	0	96.3	80-120		0		
2-Butanone	111.1	10	100	0	111	70-130		0		
2-Chloroethyl vinyl ether	82.65	10	100	0	82.7	72-120		0		
2-Hexanone	79.32	10	100	0	79.3	70-130		0		
4-Methyl-2-pentanone	101.4	10	100	0	101	78-120		0		
Acetone	116	10	100	0	116	60-135		0		
Benzene	52.66	5.0	50	0	105	82-119		0		
Bromodichloromethane	49.34	5.0	50	0	98.7	81-119		0		
Bromoform	49.17	5.0	50	0	98.3	80-120		0		
Bromomethane	38.78	5.0	50	0	77.6	75-130		0		
Carbon disulfide	106.2	10	100	0	106	78-120		0		
Carbon tetrachloride	49	5.0	50	0	98	77-120		0		
Chlorobenzene	49.64	5.0	50	0	99.3	82-118		0		
Chloroethane	54.27	5.0	50	0	109	78-122		0		
Chloroform	50.8	5.0	50	0	102	78-120		0		
Chloromethane	49.17	5.0	50	0	98.3	75-125		0		
cis-1,3-Dichloropropene	51.52	5.0	50	0	103	81-120		0		
Dibromochloromethane	49.72	5.0	50	0	99.4	81-118		0		
Ethylbenzene	53.2	5.0	50	0	106	82-120		0		
m,p-Xylene	103.6	10	100	0	104	82-122		0		
Methylene chloride	50.98	10	50	0	102	80-122		0		
Styrene	53.18	5.0	50	0	106	82-121		0		
Tetrachloroethene	49.35	5.0	50	0	98.7	79-118		0		
Toluene	51.86	5.0	50	0	104	81-119		0		
trans-1,3-Dichloropropene	49.92	5.0	50	0	99.8	82-121		0		
Trichloroethene	49.02	5.0	50	0	98	78-118		0		
Vinylacetate	111.2	10	100	0	111	75-120		0		
Vinyl chloride	53.38	2.0	50	0	107	73-127		0		
Xylenes, Total	155.3	15	150	0	104	80-120		0		
Surr:1,2-Dichloroethane-d4	47.65	5.0	50	0	95.3	70-130		0		
Surr:4-Bromofluorobenzene	51.15	5.0	50	0	102	70-130		0		
Surr:Dibromofluoromethane	49.37	5.0	50	0	98.7	70-130		0		
Surr: Toluene-d8	52.3	5.0	50	0	105	70-130		0		

ND - Not Detected at the Reporting Limit

● Analyte detected below quantitation limits

○ - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0311131
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: R17310 InstrumentID: VOA_I

MS Sample ID: 0311172-01AMS Test Code: SW8260 Units: µg/L Analysis Date: 11/19/03 12:23

Client ID: Run ID: VOA_I_031119A SeqNo: 396121 Prep Date: DF: 25

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1376	120	1250	0	110	75-125	0			
1,1,2,2-Tetrachloroethane	1557	120	1250	0	125	75-125	0			
1,1,2-Trichloroethane	1541	120	1250	0	123	75-125	0			
1,1-Dichloroethane	1500	120	1250	0	120	75-125	0			
1,1-Dichloroethene	1359	120	1250	0	109	65-130	0			
1,2-Dichloroethane	1486	120	1250	0	119	70-130	0			
2-Butanone	3304	250	2500	0	132	64-128	0			S
2-Chloroethyl vinyl ether	2770	250	2500	0	111	75-125	0			
2-Hexanone	2480	250	2500	0	99.2	72-124	0			
4-Methyl-2-pentanone	3006	250	2500	0	120	75-125	0			
Acetone	3584	250	2500	0	143	60-130	0			S
Benzene	3549	120	1250	2073	118	76-127	0			
Bromodichloromethane	1478	120	1250	0	118	75-125	0			
Bromoform	1454	120	1250	0	116	75-125	0			
Bromomethane	1239	120	1250	0	99.2	75-125	0			
Carbon disulfide	2924	250	2500	0	117	75-125	0			
Carbon tetrachloride	5652	120	1250	4413	99.1	70-130	0			E
Chlorobenzene	14670	120	1250	11660	240	75-126	0			SEO
Chloroethane	1459	120	1250	0	117	70-130	0			
Chloroform	5616	120	1250	4329	103	75-125	0			E
Chloromethane	1260	120	1250	0	101	75-125	0			
cis-1,3-Dichloropropene	1540	120	1250	0	123	75-125	0			
Dibromochloromethane	1457	120	1250	0	117	75-125	0			
Ethylbenzene	1658	120	1250	144.8	121	75-125	0			
m,p-Xylene	4152	250	2500	1206	118	75-125	0			
Methylene chloride	1644	250	1250	160.1	119	75-125	0			
Styrene	1548	120	1250	0	124	75-125	0			
Tetrachloroethene	1575	120	1250	259.9	105	75-125	0			
Toluene	1433	120	1250	0	115	76-125	0			
trans-1,3-Dichloropropene	1549	120	1250	0	124	70-130	0			
Trichloroethene	1392	120	1250	0	111	71-120	0			
Vinylacetate	3472	250	2500	0	139	75-125	0			S
Vinyl chloride	1409	50	1250	0	113	60-135	0			
Xylenes, Total	5943	380	3750	1473	119	75-125	0			
Surr:1,2-Dichloroethane-d4	1203	120	1250	0	96.2	70-130	0			
Surr:4-Bromofluorobenzene	1268	120	1250	0	101	70-130	0			
Surr:Dibromofluoromethane	1245	120	1250	0	99.6	70-130	0			
Surr:Toluene-d8	1287	120	1250	0	103	70-130	0			

ND - Not Detected at the Reporting Limit

- Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0311131
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: R17310 InstrumentID: VOA_I

MSD Sample ID: 0311172-01AMSD Test Code: SW8260 Units: µg/L Analysis Date: 11/19/03 12:50

Client ID: Run ID: VOA_I_031119A SeqNo: 396123 Prep Date: DF: 25

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1165	120	1250	0	93.2	75-125	1376	16.6	20	
1,1,2,2-Tetrachloroethane	1373	120	1250	0	110	75-125	1557	12.6	20	
1,1,2-Trichloroethane	1402	120	1250	0	112	75-125	1541	9.42	20	
1,1-Dichloroethane	1314	120	1250	0	105	75-125	1500	13.2	20	
1,1-Dichloroethene	1136	120	1250	0	90.9	65-130	1359	17.9	20	
1,2-Dichloroethane	1302	120	1250	0	104	70-130	1486	13.2	20	
2-Butanone	2955	250	2500	0	118	64-128	3304	11.1	20	
2-Chloroethyl vinyl ether	2228	250	2500	0	89.1	75-125	2770	21.7	20	R
2-Hexanone	2028	250	2500	0	81.1	72-124	2480	20	20	R
4-Methyl-2-pentanone	2638	250	2500	0	106	75-125	3006	13	20	
Acetone	3128	250	2500	0	125	60-130	3584	13.6	20	
Benzene	3392	120	1250	2073	106	76-127	3549	4.52	20	
Bromodichloromethane	1307	120	1250	0	105	75-125	1478	12.3	20	
Bromoform	1267	120	1250	0	101	75-125	1454	13.7	20	
Bromomethane	1200	120	1250	0	96	75-125	1239	3.26	20	
Carbon disulfide	2519	250	2500	0	101	75-125	2924	14.9	20	
Carbon tetrachloride	5398	120	1250	4413	78.8	70-130	5652	4.59	20	E
Chlorobenzene	14660	120	1250	11660	239	75-126	14670	0.0849	20	SEO
Chloroethane	1271	120	1250	0	102	70-130	1459	13.8	20	
Chloroform	5491	120	1250	4329	93	75-125	5616	2.26	20	E
Chloromethane	1167	120	1250	0	93.4	75-125	1260	7.67	20	
cis-1,3-Dichloropropene	1357	120	1250	0	109	75-125	1540	12.6	20	
Dibromochloromethane	1324	120	1250	0	106	75-125	1457	9.56	20	
Ethylbenzene	1505	120	1250	144.8	109	75-125	1658	9.73	20	
m,p-Xylene	3871	250	2500	1206	107	75-125	4152	7.01	20	
Methylene chloride	1467	250	1250	160.1	105	75-125	1644	11.4	20	
Styrene	1399	120	1250	0	112	75-125	1548	10.1	20	
Tetrachloroethene	1414	120	1250	259.9	92.3	75-125	1575	10.7	20	
Toluene	1290	120	1250	0	103	76-125	1433	10.5	20	
trans-1,3-Dichloropropene	1320	120	1250	0	106	70-130	1549	15.9	20	
Trichloroethene	1180	120	1250	0	94.4	71-120	1392	16.5	20	
Vinylacetate	3060	250	2500	0	122	75-125	3472	12.6	20	
Vinyl chloride	1219	50	1250	0	97.5	60-135	1409	14.5	20	
Xylenes, Total	5518	380	3750	1473	108	75-125	5943	7.42	20	
Surr:1,2-Dichloroethane-d4	1189	120	1250	0	95.1	70-130	1203	1.13	20	
Surr:4-Bromofluorobenzene	1288	120	1250	0	103	70-130	1268	1.62	20	
Surr:Dibromofluoromethane	1214	120	1250	0	97.1	70-130	1245	2.49	20	
Surr:Toluene-d8	1292	120	1250	0	103	70-130	1287	0.428	20	

The following samples were analyzed in this batch: 0311131-01A 0311131-03A

ND - Not Detected at the Reporting Limit
 - Analyte detected below quantitation limits
 O - Referenced analyte value is > 4 times amount spiked
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 B - Analyte detected in assoc. Method Blank
 U - Analyzed for but not detected
 E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0311131
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: R17233 InstrumentID: IC201

MBLK		Sample ID: WBLKW1-111303		Test Code: E300		Units: mg/L		Analysis Date: 11/13/03 16:00		
Client ID:		Run ID: IC201_031113A		SeqNo: 394100		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	ND	0.50								
Fluoride	ND	0.10								
Sulfate	ND	1.0								
Nitrate/Nitrite (as N)	ND	0.10								
Surr: Dichloroacetic acid (surr)	ND	0.10								

LCS		Sample ID: WLCSW1-111303		Test Code: E300		Units: mg/L		Analysis Date: 11/13/03 16:33		
Client ID:		Run ID: IC201_031113A		SeqNo: 394101		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	9.37	0.50	10	0	93.7	80-120	0			
Fluoride	2	0.10	2	0	100	80-120	0			
Sulfate	9.75	1.0	10	0	97.5	80-120	0			
Surr: Dichloroacetic acid (surr)	2.08	0.10	2	0	104	80-120	0			

LCSD		Sample ID: WLCSDW1-11130		Test Code: E300		Units: mg/L		Analysis Date: 11/13/03 17:05		
Client ID:		Run ID: IC201_031113A		SeqNo: 394102		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	9.42	0.50	10	0	94.2	80-120	9.37	0.532	20	
Fluoride	1.97	0.10	2	0	98.5	80-120	2	1.51	20	
Sulfate	9.8	1.0	10	0	98	80-120	9.75	0.512	20	
Surr: Dichloroacetic acid (surr)	1.89	0.10	2	0	94.5	80-120	2.08	9.57	20	

MS		Sample ID: 0310284-12AMS		Test Code: E300		Units: mg/L		Analysis Date: 11/13/03 18:43		
Client ID:		Run ID: IC201_031113A		SeqNo: 394105		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	137.7	0.50	10	0	1380	75-125	0			SE
Fluoride	3.46	0.10	2	0	173	75-125	0			S
Sulfate	47.51	1.0	10	0	475	75-125	0			S
Nitrate/Nitrite (as N)	3.89	0.10	4	0	97.2	75-125	0			
Surr: Dichloroacetic acid (surr)	5.08	0.10	5	0	102	80-120	0			

ND - Not Detected at the Reporting Limit

Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0311131
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: R17233 InstrumentID: IC201

MSD		Sample ID: 0310284-12AMSD			Test Code: E300		Units: mg/L		Analysis Date: 11/13/03 19:15		
Client ID:		Run ID: IC201_031113A			SeqNo: 394106		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Chloride	138.7	0.50	10	0	1390	75-125	137.7	0.695	20	SE	
Fluoride	3.5	0.10	2	0	175	75-125	3.46	1.15	20	S	
Sulfate	47.37	1.0	10	0	474	75-125	47.51	0.295	20	S	
Nitrate/Nitrite (as N)	3.91	0.10	4	0	97.8	75-125	3.89	0.513	20		
Surr: Dichloroacetic acid (surr)	5.15	0.10	5	0	103	80-120	5.08	1.37	20		

DUP		Sample ID: 0310284-12ADUP			Test Code: E300		Units: mg/L		Analysis Date: 11/13/03 18:10		
Client ID:		Run ID: IC201_031113A			SeqNo: 394104		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Chloride	128.2	0.50	0	0	0	0-0	128.7	0.413	20	E	
Fluoride	1.61	0.10	0	0	0	0-0	1.61	0	20		
Sulfate	37.65	1.0	0	0	0	0-0	37.54	0.293	20		
Nitrate/Nitrite (as N)	ND	0.10	0	0	0	0-0	0	0	20		
Surr: Dichloroacetic acid (surr)	5.73	0.10	5	0	115	80-120	5.81	1.39	20		

The following samples were analyzed in this batch: 0311131-01C 0311131-02C 0311131-03C

ND - Not Detected at the Reporting Limit
 S - Spike Recovery outside accepted recovery limits
 B - Analyte detected in assoc. Method Blank
 Analyte detected below quantitation limits
 R - RPD outside accepted recovery limits
 U - Analyzed for but not detected
 O - Referenced analyte value is > 4 times amount spiked
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0311131
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: R17254 InstrumentID: UV-2101PC

MBLK	Sample ID: WMBW1-111503	Test Code: E335.3	Units: mg/L	Analysis Date: 11/15/03 0:00						
Client ID:	Run ID: UV-2101PC_031115A	SeqNo: 394794	Prep Date:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide	ND	0.020								

LCS	Sample ID: WLCSW1-111503	Test Code: E335.3	Units: mg/L	Analysis Date: 11/15/03 0:00						
Client ID:	Run ID: UV-2101PC_031115A	SeqNo: 394795	Prep Date:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide	0.2042	0.020	0.2	0	102	80-120	0			

MS	Sample ID: 0311097-01GMS	Test Code: E335.3	Units: mg/L	Analysis Date: 11/15/03 0:00						
Client ID:	Run ID: UV-2101PC_031115A	SeqNo: 394823	Prep Date:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide	0.2068	0.020	0.2	0.0124	97.2	75-125	0			

MSD	Sample ID: 0311097-01G MSD	Test Code: E335.3	Units: mg/L	Analysis Date: 11/15/03 0:00						
Client ID:	Run ID: UV-2101PC_031115A	SeqNo: 394824	Prep Date:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide	0.2093	0.020	0.2	0.0124	98.4	75-125	0.2068	1.2	25	

DUP	Sample ID: 0311097-01G DUP	Test Code: E335.3	Units: mg/L	Analysis Date: 11/15/03 0:00						
Client ID:	Run ID: UV-2101PC_031115A	SeqNo: 394822	Prep Date:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide	0.0125	0.020	0	0	0	0-0	0.0124	0	20	J

The following samples were analyzed in this batch: 0311131-01D 0311131-02D 0311131-03D

ND - Not Detected at the Reporting Limit
 S - Spike Recovery outside accepted recovery limits
 B - Analyte detected in assoc. Method Blank
 Analyte detected below quantitation limits
 R - RPD outside accepted recovery limits
 U - Analyzed for but not detected
 O - Referenced analyte value is > 4 times amount spiked
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0311131
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: R17298 InstrumentID: WetChemistry

MBLK	Sample ID: WMBW1-111803	Test Code: E310.1	Units: mg/L	Analysis Date: 11/18/03 0:00						
Client ID:	Run ID: WET CHEMISTRY_0311	SeqNo: 395801	Prep Date:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	ND	5.0								
Alkalinity, Carbonate (As CaCO3)	ND	5.0								
Alkalinity, Hydroxide (As CaCO3)	ND	5.0								
Alkalinity, Total (As CaCO3)	ND	5.0								

LCS	Sample ID: WLC5W1-111803	Test Code: E310.1	Units: mg/L	Analysis Date: 11/18/03 0:00						
Client ID:	Run ID: WET CHEMISTRY_0311	SeqNo: 395802	Prep Date:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	1000	5.0	1000	0	100	80-120	0			

DUP	Sample ID: 0311077-02B DUP	Test Code: E310.1	Units: mg/L	Analysis Date: 11/18/03 0:00						
Client ID:	Run ID: WET CHEMISTRY_0311	SeqNo: 395814	Prep Date:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	620.1	5.0	0	0	0	0-0	620.1	0	20	
Alkalinity, Carbonate (As CaCO3)	ND	5.0	0	0	0	0-0	0	0	20	
Alkalinity, Hydroxide (As CaCO3)	ND	5.0	0	0	0	0-0	0	0	20	
Alkalinity, Total (As CaCO3)	620.1	5.0	0	0	0	0-0	620.1	0	20	

The following samples were analyzed in this batch: 0311131-01C 0311131-02C 0311131-03C

ND - Not Detected at the Reporting Limit
 S - Spike Recovery outside accepted recovery limits
 B - Analyte detected in assoc. Method Blank
 Analyte detected below quantitation limits
 R - RPD outside accepted recovery limits
 U - Analyzed for but not detected
 O - Referenced analyte value is > 4 times amount spiked
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0311131
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: R17412 InstrumentID: IC201

MBLK	Sample ID: WBLKW1-112403	Test Code: E300				Units: mg/L		Analysis Date: 11/24/03 19:29		
Client ID:	Run ID: IC201_031124A	SeqNo: 398469	Prep Date:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	ND	0.50								
Fluoride	ND	0.10								
Sulfate	ND	1.0								
Nitrate/Nitrite (as N)	ND	0.10								
Surr: Dichloroacetic acid (surr)	5.86	0.10	5	0	117	80-120		0		

LCS	Sample ID: WLCSW1-112403	Test Code: E300				Units: mg/L		Analysis Date: 11/24/03 20:02		
Client ID:	Run ID: IC201_031124A	SeqNo: 398470	Prep Date:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	9.41	0.50	10	0	94.1	80-120		0		
Fluoride	1.98	0.10	2	0	99	80-120		0		
Sulfate	9.92	1.0	10	0	99.2	80-120		0		
Surr: Dichloroacetic acid (surr)	1.99	0.10	2	0	99.5	80-120		0		

LCSD	Sample ID: WLCSW1-112403	Test Code: E300				Units: mg/L		Analysis Date: 11/24/03 20:34		
Client ID:	Run ID: IC201_031124A	SeqNo: 398471	Prep Date:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	9.44	0.50	10	0	94.4	80-120	9.41	0.318	20	
Fluoride	2.09	0.10	2	0	104	80-120	1.98	5.41	20	
Sulfate	9.9	1.0	10	0	99	80-120	9.92	0.202	20	
Surr: Dichloroacetic acid (surr)	1.91	0.10	2	0	95.5	80-120	1.99	4.1	20	

MS	Sample ID: 0311188-02BMS	Test Code: E300				Units: mg/L		Analysis Date: 11/24/03 22:12		
Client ID:	Run ID: IC201_031124A	SeqNo: 398474	Prep Date:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	9.44	0.50	10	0	94.4	75-125		0		
Fluoride	2	0.10	2	0	100	75-125		0		
Sulfate	9.91	1.0	10	0	99.1	75-125		0		
Nitrate/Nitrite (as N)	3.99	0.10	4	0	99.8	75-125		0		
Surr: Dichloroacetic acid (surr)	5.45	0.10	5	0	109	80-120		0		

ND - Not Detected at the Reporting Limit
 S - Spike Recovery outside accepted recovery limits
 B - Analyte detected in assoc. Method Blank
 - Analyte detected below quantitation limits
 R - RPD outside accepted recovery limits
 U - Analyzed for but not detected
 O - Referenced analyte value is > 4 times amount spiked
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0311131
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: R17412 InstrumentID: IC201

MSD		Sample ID: 0311188-02BMSD			Test Code: E300		Units: mg/L		Analysis Date: 11/24/03 22:44	
Client ID:		Run ID: IC201_031124A		SeqNo: 398475		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	9.41	0.50	10	0	94.1	75-125	9.44	0.318	20	
Fluoride	2.03	0.10	2	0	101	75-125	2	1.49	20	
Sulfate	9.88	1.0	10	0	98.8	75-125	9.91	0.303	20	
Nitrate/Nitrite (as N)	3.98	0.10	4	0	99.5	75-125	3.99	0.251	20	
Surr: Dichloroacetic acid (surr)	5.49	0.10	5	0	110	80-120	5.45	0.731	20	

DUP		Sample ID: 0311188-02BDUP			Test Code: E300		Units: mg/L		Analysis Date: 11/24/03 21:39	
Client ID:		Run ID: IC201_031124A		SeqNo: 398473		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	ND	0.50	0	0	0	0-0	0	0	20	
Fluoride	ND	0.10	0	0	0	0-0	0	0	20	
Sulfate	ND	1.0	0	0	0	0-0	0	0	20	
Nitrate/Nitrite (as N)	ND	0.10	0	0	0	0-0	0	0	20	
Surr: Dichloroacetic acid (surr)	5.84	0.10	5	0	117	80-120	5.87	0.512	20	

DUP		Sample ID: 0311148-02DDUP			Test Code: E300		Units: mg/L		Analysis Date: 11/25/03 11:12	
Client ID:		Run ID: IC201_031124A		SeqNo: 398482		Prep Date:		DF: 20		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	459.8	10	0	0	0	0-0	461.4	0.347	20	
Fluoride	ND	2.0	0	0	0	0-0	0	0	20	
Sulfate	61.8	20	0	0	0	0-0	62.2	0.645	20	
Nitrate/Nitrite (as N)	ND	2.0	0	0	0	0-0	0	0	20	
Surr: Dichloroacetic acid (surr)	119.4	2.0	100	0	119	80-120	118	1.18	20	

DUP		Sample ID: 0311176-01BDUP			Test Code: E300		Units: mg/L		Analysis Date: 11/25/03 22:02	
Client ID:		Run ID: IC201_031124A		SeqNo: 398500		Prep Date:		DF: 10		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	76.4	5.0	0	0	0	0-0	76.5	0.131	20	
Fluoride	ND	1.0	0	0	0	0-0	0	0	20	
Sulfate	26.3	10	0	0	0	0-0	27.8	5.55	20	
Nitrate/Nitrite (as N)	43.6	1.0	0	0	0	0-0	43.5	0.23	20	
Surr: Dichloroacetic acid (surr)	59.7	1.0	50	0	119	80-120	57.9	3.06	20	

The following samples were analyzed in this batch: 0311131-01C 0311131-02C 0311131-03C

ND - Not Detected at the Reporting Limit
 S - Spike Recovery outside accepted recovery limits
 B - Analyte detected in assoc. Method Blank
 - Analyte detected below quantitation limits
 R - RPD outside accepted recovery limits
 U - Analyzed for but not detected
 O - Referenced analyte value is > 4 times amount spiked
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range

6701 Aberdeen Avenue, Ste. 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296

Trace Analysis, Inc.

155 McCutcheon, Julie H
El Paso, Texas 79932
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # _____

Company Name: Navajo

Address: Navajo
(Street, City, Zip)

Contact Person: Jeff Byrd

Phone to: 1 (800) 378-1296
if different from above)

Project #:

Project Name: NOU/TEL

Sampler Signature: [Signature]

Project Location: Artesia

LAB # LAB USE ONLY	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX			PRESERVATIVE METHOD					SAMPLING		
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE
	TEL-4	8		X				X	X	X	X	X	11/11	915
	TEL-3	1		1				1	1	1	1	1	1	1015
	TEL-2													1030

ANALYSIS REQUEST

(Circle or Specify Method No.)

MTBE 8021B/602																				
BTEX 8021B/602																				
TPH 418.1/TX1005																				
PAH 8270C																				
Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7																				
TCLP Volatiles																				
TCLP Semi Volatiles																				
TCLP Pesticides																				
GC/MS Vol. 8260B/624																				
GC/MS Semi. Vol. 8270C/625																				
PCB's 8082/608																				
Pesticides 8081A/608																				
BOD, TSS, pH																				
Turn Around Time if different from standard																				

REMARKS:

LAB USE ONLY

Intact: Y / N

Headspace: Y / N

Temp: _____

Log-in Review: _____

Check If Special Reporting Limits Are Needed

Received by: _____ Date: _____ Time: _____

Received by: RICHARD SACHARZ Date: 11/30/08 Time: 0800

Received at Laboratory by: _____ Date: _____ Time: _____

Received by: _____ Date: 11/20/03 Time: 1615

Received by: _____ Date: _____ Time: _____

e-Lab, Inc.

Sample Receipt Checklist

Client Name NAVAJO REFINING

Date/Time Received: 11/13/2003 8:30:00 AM

Work Order Number 0311131

Received by: RSZ

Checklist completed by [Signature] 11/13/03
Signature Date

Reviewed by [Signature] 11/14/03
Initials Date

Matrix: W

Carrier name: FedEx

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No
- Temperature(s)/Thermometer(s): 3.1c 003
- Water - VOA vials have zero headspace? Yes No No VOA vials submitted
- Water - pH acceptable upon receipt? Yes No N/A

Adjusted? _____ Checked by _____

Login Notes:

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

NO. # Bill 37.

NAVAJO REFINING COMPANY

501 E. MAIN STREET
ARTESIA NM 88210
5057483311

SHIP DATE: 12NOV2003
ACCOUNT # 113684186
ACTUAL WGT: 70.00 LBS

Part # 156148-434 NRT 7-03

TO:

E-LAB
SAMPLE RECEIVING
10450 STANCLIFF ROAD STE 210
HOUSTON TX 77099

2815305656
BILL RECIPIENT



Delivery Address Barcode

FedEx STANDARD OVERNIGHT

THU

System # 2223500 12NOV2003

TRK# 7910 6106 4393 Form 0201

DELIVER BY:
13NOV2003

IAH R2

77099-TX-US A9 JGQA



OSUS v5.2.00 2223500 2844 04/02



e-Lab, Inc.

10450 Standliff Rd, Suite 210 Houston, Texas 77099-4338 281-530-5656 Fax 281-530-5887

December 03, 2003

Jeff Byrd
Navajo Refining Company
P.O. Box 159
Artesia, New Mexico 88211

Tel: (505) 746-5468
Fax: (505) 746-5421

Re: NCL/TEL

Work Order : **0311165**

Dear Jeff Byrd,

e-Lab, Inc. received 1 sample on 11/15/2003 8:50:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by e-Lab, Inc. and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by e-Lab Inc. The total number of pages in this report is 23.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Lora Terrill

Electronically approved by: Patrina A. Dathome

Lora Terrill
VP Lab Operations

e-Lab, Inc.

Date: December 03, 2003

CLIENT: Navajo Refining Company
Project: NCL/TEL
Work Order: 0311165

Work Order Sample Summary

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
0311165-01	TEL-1	Water		11/13/2003 13:00	11/15/2003 08:50	<input type="checkbox"/>

e-Lab, Inc.

Date: December 03, 2003

CLIENT: Navajo Refining Company
Work Order: 0311165
Project: NCL/TEL
Lab ID: 0311165-01

Client Sample ID: TEL-1
Collection Date: 11/13/2003 1:00:00 PM
Matrix: WATER

Analyses	Result	Report Limit	Qual Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL		SW7470		Prep Date: 11/17/2003 Analyst: MG	
Mercury	ND	0.000200	mg/L	1	11/18/2003 11:09:36 AM
ICP METALS, TOTAL		SW6020		Prep Date: 11/18/2003 Analyst: ALR	
Aluminum	ND	0.0200	mg/L	2	11/20/2003 10:03:00 PM
Arsenic	ND	0.0100	mg/L	2	11/19/2003 9:14:00 PM
Barium	0.0131	0.0100	mg/L	2	11/19/2003 9:14:00 PM
Beryllium	ND	0.00400	mg/L	2	11/19/2003 9:14:00 PM
Boron	0.668	0.200	mg/L	10	11/20/2003 8:00:00 PM
Cadmium	ND	0.00200	mg/L	2	11/19/2003 9:14:00 PM
Calcium	400	5.00	mg/L	10	11/19/2003 7:48:00 PM
Chromium	ND	0.00400	mg/L	2	11/19/2003 9:14:00 PM
Cobalt	ND	0.00400	mg/L	2	11/19/2003 9:14:00 PM
Copper	ND	0.00400	mg/L	2	11/19/2003 9:14:00 PM
Iron	ND	0.400	mg/L	2	11/19/2003 9:14:00 PM
Lead	ND	0.0100	mg/L	2	11/19/2003 9:14:00 PM
Magnesium	127	2.00	mg/L	10	11/19/2003 7:48:00 PM
Manganese	0.108	0.0100	mg/L	2	11/19/2003 9:14:00 PM
Nickel	ND	0.0100	mg/L	2	11/19/2003 9:14:00 PM
Potassium	0.893	0.400	mg/L	2	11/20/2003 10:03:00 PM
Selenium	ND	0.0100	mg/L	2	11/19/2003 9:14:00 PM
Silver	ND	0.0100	mg/L	2	11/19/2003 9:14:00 PM
Sodium	339	2.00	mg/L	10	11/19/2003 7:48:00 PM
Vanadium	ND	0.0100	mg/L	2	11/19/2003 9:14:00 PM
Zinc	ND	0.0100	mg/L	2	11/19/2003 9:14:00 PM
SEMIVOLATILE ORGANICS BY GC/MS		SW8270		Prep Date: 11/17/2003 Analyst: RKG	
1,2,4-Trichlorobenzene	ND	10	µg/L	1	11/18/2003 7:55:00 PM
2,4,5-Trichlorophenol	ND	10	µg/L	1	11/18/2003 7:55:00 PM
2,4,6-Trichlorophenol	ND	10	µg/L	1	11/18/2003 7:55:00 PM
2-Methylnaphthalene	ND	10	µg/L	1	11/18/2003 7:55:00 PM
2-Methylphenol	ND	10	µg/L	1	11/18/2003 7:55:00 PM
2-Nitroaniline	ND	10	µg/L	1	11/18/2003 7:55:00 PM
2-Nitrophenol	ND	10	µg/L	1	11/18/2003 7:55:00 PM
3-Nitroaniline	ND	10	µg/L	1	11/18/2003 7:55:00 PM
4-Methylphenol	ND	10	µg/L	1	11/18/2003 7:55:00 PM
4-Nitroaniline	ND	10	µg/L	1	11/18/2003 7:55:00 PM
4-Nitrophenol	ND	10	µg/L	1	11/18/2003 7:55:00 PM
Acenaphthene	ND	10	µg/L	1	11/18/2003 7:55:00 PM
Acenaphthylene	ND	10	µg/L	1	11/18/2003 7:55:00 PM
Aniline	ND	10	µg/L	1	11/18/2003 7:55:00 PM

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: December 03, 2003

CLIENT: Navajo Refining Company
 Work Order: 0311165
 Project: NCL/TEL
 Lab ID: 0311165-01

Client Sample ID: TEL-1
 Collection Date: 11/13/2003 1:00:00 PM
 Matrix: WATER

Analyses	Result	Report Limit	Qual Units	Dilution Factor	Date Analyzed
Anthracene	ND	10	µg/L	1	11/18/2003 7:55:00 PM
Benz(a)anthracene	ND	10	µg/L	1	11/18/2003 7:55:00 PM
Benzidine	ND	10	µg/L	1	11/18/2003 7:55:00 PM
Hexachloroethane	ND	10	µg/L	1	11/18/2003 7:55:00 PM
Indeno(1,2,3-cd)pyrene	ND	10	µg/L	1	11/18/2003 7:55:00 PM
Isophorone	ND	10	µg/L	1	11/18/2003 7:55:00 PM
N-Nitrosodi-n-propylamine	ND	10	µg/L	1	11/18/2003 7:55:00 PM
N-Nitrosodimethylamine	ND	10	µg/L	1	11/18/2003 7:55:00 PM
N-Nitrosodiphenylamine	ND	10	µg/L	1	11/18/2003 7:55:00 PM
Naphthalene	ND	10	µg/L	1	11/18/2003 7:55:00 PM
Nitrobenzene	ND	10	µg/L	1	11/18/2003 7:55:00 PM
Pentachlorophenol	ND	10	µg/L	1	11/18/2003 7:55:00 PM
Phenanthrene	ND	10	µg/L	1	11/18/2003 7:55:00 PM
Phenol	ND	10	µg/L	1	11/18/2003 7:55:00 PM
Pyrene	ND	10	µg/L	1	11/18/2003 7:55:00 PM
Surr: 2,4,6-Tribromophenol	116	39-153	%REC	1	11/18/2003 7:55:00 PM
Surr: 2-Fluorobiphenyl	100	40-147	%REC	1	11/18/2003 7:55:00 PM
Surr: 2-Fluorophenol	55.9	21-100	%REC	1	11/18/2003 7:55:00 PM
Surr: 4-Terphenyl-d14	102	39-141	%REC	1	11/18/2003 7:55:00 PM
Surr: Nitrobenzene-d5	104	37-140	%REC	1	11/18/2003 7:55:00 PM
Surr: Phenol-d6	39.5	11-100	%REC	1	11/18/2003 7:55:00 PM
VOLATILES BY GC/MS			SW8260		Analyst: PC
1,1,1-Trichloroethane	ND	5.0	µg/L	1	11/18/2003 11:55:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	1	11/18/2003 11:55:00 PM
1,1,2-Trichloroethane	ND	5.0	µg/L	1	11/18/2003 11:55:00 PM
1,1-Dichloroethane	ND	5.0	µg/L	1	11/18/2003 11:55:00 PM
1,1-Dichloroethene	ND	5.0	µg/L	1	11/18/2003 11:55:00 PM
1,2-Dichloroethane	ND	5.0	µg/L	1	11/18/2003 11:55:00 PM
2-Butanone	ND	10	µg/L	1	11/18/2003 11:55:00 PM
2-Chloroethyl vinyl ether	ND	10	µg/L	1	11/18/2003 11:55:00 PM
2-Hexanone	ND	10	µg/L	1	11/18/2003 11:55:00 PM
4-Methyl-2-pentanone	ND	10	µg/L	1	11/18/2003 11:55:00 PM
Acetone	ND	10	µg/L	1	11/18/2003 11:55:00 PM
Benzene	20	5.0	µg/L	1	11/18/2003 11:55:00 PM
Bromodichloromethane	ND	5.0	µg/L	1	11/18/2003 11:55:00 PM
Bromoform	ND	5.0	µg/L	1	11/18/2003 11:55:00 PM
Bromomethane	ND	5.0	µg/L	1	11/18/2003 11:55:00 PM
Carbon disulfide	ND	10	µg/L	1	11/18/2003 11:55:00 PM
Carbon tetrachloride	ND	5.0	µg/L	1	11/18/2003 11:55:00 PM
Chlorobenzene	ND	5.0	µg/L	1	11/18/2003 11:55:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: December 03, 2003

CLIENT: Navajo Refining Company
 Work Order: 0311165
 Project: NCL/TEL
 Lab ID: 0311165-01

Client Sample ID: TEL-1
 Collection Date: 11/13/2003 1:00:00 PM
 Matrix: WATER

Analyses	Result	Report Limit	Qual Units	Dilution Factor	Date Analyzed
Chloroethane	ND	5.0	µg/L	1	11/18/2003 11:55:00 PM
Chloroform	ND	5.0	µg/L	1	11/18/2003 11:55:00 PM
Chloromethane	ND	5.0	µg/L	1	11/18/2003 11:55:00 PM
cis-1,3-Dichloropropene	ND	5.0	µg/L	1	11/18/2003 11:55:00 PM
Dibromochloromethane	ND	5.0	µg/L	1	11/18/2003 11:55:00 PM
Ethylbenzene	8.4	5.0	µg/L	1	11/18/2003 11:55:00 PM
m,p-Xylene	11	10	µg/L	1	11/18/2003 11:55:00 PM
Methylene chloride	ND	10	µg/L	1	11/18/2003 11:55:00 PM
Styrene	ND	5.0	µg/L	1	11/18/2003 11:55:00 PM
Tetrachloroethene	ND	5.0	µg/L	1	11/18/2003 11:55:00 PM
Toluene	5.9	5.0	µg/L	1	11/18/2003 11:55:00 PM
trans-1,3-Dichloropropene	ND	5.0	µg/L	1	11/18/2003 11:55:00 PM
Trichloroethene	ND	5.0	µg/L	1	11/18/2003 11:55:00 PM
Vinyl acetate	ND	10	µg/L	1	11/18/2003 11:55:00 PM
Vinyl chloride	ND	2.0	µg/L	1	11/18/2003 11:55:00 PM
Xylenes, Total	19	15	µg/L	1	11/18/2003 11:55:00 PM
Surr: 1,2-Dichloroethane-d4	93.7	70-130	%REC	1	11/18/2003 11:55:00 PM
Surr: 4-Bromofluorobenzene	99.4	70-130	%REC	1	11/18/2003 11:55:00 PM
Surr: Dibromofluoromethane	99.6	70-130	%REC	1	11/18/2003 11:55:00 PM
Surr: Toluene-d8	103	70-130	%REC	1	11/18/2003 11:55:00 PM
ANIONS BY ION CHROMATOGRAPHY		E300			Analyst: MG
Chloride	188	5.00	mg/L	10	12/1/2003 7:09:00 PM
Fluoride	2.65	0.100	mg/L	1	12/1/2003 6:36:00 PM
Sulfate	1,970	50.0	mg/L	50	12/1/2003 7:41:00 PM
Nitrate/Nitrite (as N)	ND	0.100	mg/L	1	12/1/2003 6:36:00 PM
Surr: Dichloroacetic acid (surr)	116	80-120	%REC	1	12/1/2003 6:36:00 PM
Surr: Dichloroacetic acid (surr)	115	80-120	%REC	10	12/1/2003 7:09:00 PM
Surr: Dichloroacetic acid (surr)	118	80-120	%REC	50	12/1/2003 7:41:00 PM
ALKALINITY		E310.1			Analyst: LMD
Alkalinity, Bicarbonate (As CaCO3)	470	5.00	mg/L	1	11/18/2003
Alkalinity, Carbonate (As CaCO3)	ND	5.00	mg/L	1	11/18/2003
Alkalinity, Hydroxide (As CaCO3)	ND	5.00	mg/L	1	11/18/2003
Alkalinity, Total (As CaCO3)	470	5.00	mg/L	1	11/18/2003
CYANIDE, TOTAL		E335.3			Analyst: LMD
Cyanide	ND	0.0200	mg/L	1	11/24/2003

Qualifiers: ND - Not Detected at the Reporting Limit
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 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: Dec 03 2003

CLIENT: Navajo Refining Company
Work Order: 0311165
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 7229 InstrumentID: Mercury

LCS	Sample ID: WLCSW1-111703	Test Code: SW7470	Units: mg/L	Analysis Date: 11/18/03 10:25						
Client ID:	Run ID: MERCURY_031118B	SeqNo: 395540	Prep Date: 11/17/2003	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00469	0.00020	0.005	0	93.8	83-115	0			

LCSD	Sample ID: WLCSW1-111703	Test Code: SW7470	Units: mg/L	Analysis Date: 11/18/03 10:36						
Client ID:	Run ID: MERCURY_031118B	SeqNo: 395542	Prep Date: 11/17/2003	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.0047	0.00020	0.005	0	94	83-115	0.00469	0.213	20	

MS	Sample ID: 0311127-01CMS	Test Code: SW7470	Units: mg/L	Analysis Date: 11/18/03 10:44						
Client ID:	Run ID: MERCURY_031118B	SeqNo: 395545	Prep Date: 11/17/2003	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00503	0.00020	0.005	-0.000042	101	70-124	0			

MSD	Sample ID: 0311127-01CMSD	Test Code: SW7470	Units: mg/L	Analysis Date: 11/18/03 10:48						
Client ID:	Run ID: MERCURY_031118B	SeqNo: 395546	Prep Date: 11/17/2003	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00486	0.00020	0.005	-0.000042	98	70-124	0.00503	3.44	20	

DUP	Sample ID: 0311127-01CDUP	Test Code: SW7470	Units: mg/L	Analysis Date: 11/18/03 10:40						
Client ID:	Run ID: MERCURY_031118B	SeqNo: 395544	Prep Date: 11/17/2003	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.00020	0	0	0	0-0	-0.000042	0	20	

DUP	Sample ID: 0310284-06ADUP	Test Code: SW7470	Units: mg/L	Analysis Date: 11/18/03 11:16						
Client ID:	Run ID: MERCURY_031118B	SeqNo: 398851	Prep Date: 11/17/2003	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00408	0.00020	0	0	0	0-0	0.00394	3.49	20	

The following samples were analyzed in this batch: 0311165-01C

- ND - Not Detected at the Reporting Limit
- Analyte detected below quantitation limits
- O - Referenced analyte value is > 4 times amount spiked
- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- P - Dual Column results percent difference > 40%
- B - Analyte detected in assoc. Method Blank
- U - Analyzed for but not detected
- E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0311165
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: 7240 InstrumentID: ICP4500

MBLK Sample ID: MBLKW4-111803 Test Code: SW6020 Units: mg/L Analysis Date: 11/19/03 15:54
 Client ID: Run ID: ICP4500_031119A SeqNo: 396563 Prep Date: 11/18/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	ND	0.010								
Arsenic	ND	0.0050								
Barium	ND	0.0050								
Beryllium	ND	0.0020								
Boron	ND	0.020								
Cadmium	ND	0.0010								
Calcium	ND	0.50								
Chromium	ND	0.0020								
Cobalt	ND	0.0020								
Copper	0.0003362	0.0020								J
Iron	ND	0.20								
Lead	ND	0.0050								
Magnesium	ND	0.20								
Manganese	ND	0.0050								
Nickel	ND	0.0050								
Potassium	ND	0.20								
Selenium	ND	0.0050								
Silver	ND	0.0050								
Sodium	ND	0.20								
Vanadium	ND	0.0050								
Zinc	ND	0.0050								

ND - Not Detected at the Reporting Limit

- Analyte detected below quantitation limits

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B - Analyte detected in assoc. Method Blank

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E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0311165
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: 7240 InstrumentID: ICP4500

LCS Sample ID: MLCSW4-111803 Test Code: SW6020 Units: mg/L Analysis Date: 11/19/03 15:59
 Client ID: Run ID: ICP4500_031119A SeqNo: 396564 Prep Date: 11/18/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.09986	0.010	0.1	0	99.9	80-120	0			
Arsenic	0.09773	0.0050	0.1	0	97.7	80-120	0			
Barium	0.09202	0.0050	0.1	0	92	80-120	0			
Beryllium	0.09306	0.0020	0.1	0	93.1	80-120	0			
Boron	0.4477	0.020	0.5	0	89.5	80-120	0			
Cadmium	0.09531	0.0010	0.1	0	95.3	80-120	0			
Calcium	9.726	0.50	10	0	97.3	80-120	0			
Chromium	0.09647	0.0020	0.1	0	96.5	80-120	0			
Cobalt	0.0976	0.0020	0.1	0	97.6	80-120	0			
Copper	0.09508	0.0020	0.1	0	95.1	80-120	0			
Iron	9.645	0.20	10	0	96.4	80-120	0			
Lead	0.09345	0.0050	0.1	0	93.4	80-120	0			
Magnesium	10.13	0.20	10	0	101	80-120	0			
Manganese	0.09523	0.0050	0.1	0	95.2	80-120	0			
Nickel	0.09827	0.0050	0.1	0	98.3	80-120	0			
Potassium	9.995	0.20	10	0	100	80-120	0			
Selenium	0.09703	0.0050	0.1	0	97	80-120	0			
Silver	0.09541	0.0050	0.1	0	95.4	80-120	0			
Sodium	9.863	0.20	10	0	98.6	80-120	0			
Vanadium	0.09687	0.0050	0.1	0	96.9	80-120	0			
Zinc	0.09747	0.0050	0.1	0	97.5	80-120	0			

ND - Not Detected at the Reporting Limit

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R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0311165
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: 7240 InstrumentID: ICP4500

MS Sample ID: 0311148-01CMS Test Code: SW6020 Units: mg/L Analysis Date: 11/19/03 20:33

Client ID: Run ID: ICP4500_031119A SeqNo: 396609 Prep Date: 11/18/2003 DF: 2

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.1078	0.010	0.1	0.01191	95.9	75-125	0			
Barium	0.4243	0.010	0.1	0.3082	116	75-125	0			
Beryllium	0.09481	0.0040	0.1	-0.00001868	94.8	75-125	0			
Boron	0.6713	0.040	0.5	0.2052	93.2	75-125	0			
Cadmium	0.09191	0.0020	0.1	-5.886E-06	91.9	75-125	0			
Calcium	176.3	1.0	10	151	253	75-125	0			SEO
Chromium	0.09905	0.0040	0.1	0.001684	97.4	75-125	0			
Cobalt	0.09502	0.0040	0.1	0.0001253	94.9	75-125	0			
Copper	0.08834	0.0040	0.1	0.002035	86.3	75-125	0			
Iron	9.843	0.40	10	0.3298	95.1	75-125	0			
Lead	0.09711	0.010	0.1	0.00009946	97	75-125	0			
Magnesium	40.65	0.40	10	27.81	128	75-125	0			S
Manganese	0.4901	0.010	0.1	0.3696	120	75-125	0			
Nickel	0.09529	0.010	0.1	0.001728	93.6	75-125	0			
Potassium	14.61	0.40	10	4.356	103	75-125	0			
Selenium	0.08908	0.010	0.1	-0.003005	92.1	75-125	0			
Silver	0.09047	0.010	0.1	-0.00007977	90.5	75-125	0			
Sodium	ND	0.40	10	176.8	-1770	75-125	0			SO
Vanadium	0.1004	0.010	0.1	0.0001251	100	75-125	0			
Zinc	0.09002	0.010	0.1	0.003149	86.9	75-125	0			

MS Sample ID: 0311148-01CMS Test Code: SW6020 Units: mg/L Analysis Date: 11/21/03 15:07

Client ID: Run ID: ICP4500_031121A SeqNo: 397327 Prep Date: 11/18/2003 DF: 2

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1067	0.020	0.1	0.01007	96.6	75-125	0			

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0311165
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: 7240 InstrumentID: ICP4500

MSD Sample ID: 0311148-01CMSD Test Code: SW6020 Units: mg/L Analysis Date: 11/19/03 20:37

Client ID: Run ID: ICP4500_031119A SeqNo: 396610 Prep Date: 11/18/2003 DF: 2

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.1146	0.010	0.1	0.01191	103	75-125	0.1078	6.12	25	
Barium	0.4515	0.010	0.1	0.3082	143	75-125	0.4243	6.21	25	S
Beryllium	0.1008	0.0040	0.1	-0.00001868	101	75-125	0.09481	6.12	25	
Boron	0.7396	0.040	0.5	0.2052	107	75-125	0.6713	9.68	25	
Cadmium	0.09674	0.0020	0.1	-5.886E-06	96.7	75-125	0.09191	5.12	25	
Calcium	187.5	1.0	10	151	365	75-125	176.3	6.16	25	SEO
Chromium	0.1042	0.0040	0.1	0.001684	103	75-125	0.09905	5.07	25	
Cobalt	0.1007	0.0040	0.1	0.0001253	101	75-125	0.09502	5.8	25	
Copper	0.09497	0.0040	0.1	0.002035	92.9	75-125	0.08834	7.23	25	
Iron	10.24	0.40	10	0.3298	99.1	75-125	9.843	3.95	25	
Lead	0.1017	0.010	0.1	0.00009946	102	75-125	0.09711	4.62	25	
Magnesium	42.84	0.40	10	27.81	150	75-125	40.65	5.25	25	S
Manganese	0.5191	0.010	0.1	0.3696	149	75-125	0.4901	5.75	25	S
Nickel	0.1	0.010	0.1	0.001728	98.3	75-125	0.09529	4.82	25	
Potassium	15.6	0.40	10	4.356	112	75-125	14.61	6.55	25	
Selenium	0.09616	0.010	0.1	-0.003005	99.2	75-125	0.08908	7.64	25	
Silver	0.0952	0.010	0.1	-0.00007977	95.3	75-125	0.09047	5.1	25	
Sodium	217.4	0.40	10	176.8	406	75-125	0	200	25	SREO
Vanadium	0.1078	0.010	0.1	0.0001251	108	75-125	0.1004	7.11	25	
Zinc	0.09581	0.010	0.1	0.003149	92.7	75-125	0.09002	6.23	25	

MSD Sample ID: 0311148-01CMSD Test Code: SW6020 Units: mg/L Analysis Date: 11/21/03 15:11

Client ID: Run ID: ICP4500_031121A SeqNo: 397328 Prep Date: 11/18/2003 DF: 2

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1144	0.020	0.1	0.01007	104	75-125	0.1067	6.97	25	

DUP Sample ID: 0311148-01CDUP Test Code: SW6020 Units: mg/L Analysis Date: 11/19/03 19:26

Client ID: Run ID: ICP4500_031119A SeqNo: 396595 Prep Date: 11/18/2003 DF: 10

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	158.7	5.0	0	0	0	0-0	143.4	10.1	25	
Sodium	180.8	2.0	0	0	0	0-0	168.1	7.28	25	

ND - Not Detected at the Reporting Limit

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R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0311165
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: 7240 InstrumentID: ICP4500

DUP		Sample ID: 0311148-01CDUP			Test Code: SW6020		Units: mg/L		Analysis Date: 11/19/03 20:28		
Client ID:		Run ID: ICP4500_031119A			SeqNo: 396608		Prep Date: 11/18/2003		DF: 2		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	0.01032	0.010	0	0	0	0-0	0.01191	14.3	25		
Barium	0.3426	0.010	0	0	0	0-0	0.3082	10.6	25		
Beryllium	ND	0.0040	0	0	0	0-0	-0.00001868	0	25		
Boron	0.1996	0.040	0	0	0	0-0	0.2052	2.77	25		
Cadmium	ND	0.0020	0	0	0	0-0	-5.886E-06	0	25		
Chromium	0.001782	0.0040	0	0	0	0-0	0.001684	0	25	J	
Cobalt	ND	0.0040	0	0	0	0-0	0.0001253	0	25		
Copper	0.001031	0.0040	0	0	0	0-0	0.002035	0	25	J	
Iron	0.3405	0.40	0	0	0	0-0	0.3298	0	25	J	
Lead	ND	0.010	0	0	0	0-0	0.00009946	0	25		
Magnesium	31.64	0.40	0	0	0	0-0	27.81	12.9	25		
Manganese	0.4104	0.010	0	0	0	0-0	0.3696	10.5	25		
Nickel	0.001159	0.010	0	0	0	0-0	0.001728	0	25	J	
Potassium	4.864	0.40	0	0	0	0-0	4.356	11	25		
Selenium	ND	0.010	0	0	0	0-0	-0.003005	0	25		
Silver	ND	0.010	0	0	0	0-0	-0.00007977	0	25		
Vanadium	ND	0.010	0	0	0	0-0	0.0001251	0	25		
Zinc	ND	0.010	0	0	0	0-0	0.003149	0	25		

DUP		Sample ID: 0311148-01CDUP			Test Code: SW6020		Units: mg/L		Analysis Date: 11/21/03 15:02		
Client ID:		Run ID: ICP4500_031121A			SeqNo: 397326		Prep Date: 11/18/2003		DF: 2		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Aluminum	0.01069	0.020	0	0	0	0-0	0.01007	0	25	J	

The following samples were analyzed in this batch: 0311165-01C

- ND - Not Detected at the Reporting Limit
- Analyte detected below quantitation limits
- O - Referenced analyte value is > 4 times amount spiked
- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- P - Dual Column results percent difference > 40%
- B - Analyte detected in assoc. Method Blank
- U - Analyzed for but not detected
- E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0311165
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: 7227 InstrumentID: SV-3

MBLK Sample ID: SBLKW1-031117 Test Code: SW8270 Units: µg/L Analysis Date: 11/19/03 11:48
 Client ID: Run ID: SV-3_031117A SeqNo: 396868 Prep Date: 11/17/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	ND	10								
2,4,5-Trichlorophenol	ND	10								
2,4,6-Trichlorophenol	ND	10								
2-Methylnaphthalene	ND	10								
2-Methylphenol	ND	10								
2-Nitroaniline	ND	10								
2-Nitrophenol	ND	10								
3-Nitroaniline	ND	10								
4-Methylphenol	ND	10								
4-Nitroaniline	ND	10								
4-Nitrophenol	ND	10								
Acenaphthene	ND	10								
Acenaphthylene	ND	10								
Aniline	ND	10								
Anthracene	ND	10								
Benz(a)anthracene	ND	10								
Benzidine	ND	10								
Hexachloroethane	ND	10								
Indeno(1,2,3-cd)pyrene	ND	10								
Isophorone	ND	10								
N-Nitrosodi-n-propylamine	ND	10								
N-Nitrosodimethylamine	ND	10								
N-Nitrosodiphenylamine	ND	10								
Naphthalene	ND	10								
Nitrobenzene	ND	10								
Pentachlorophenol	ND	10								
Phenanthrene	ND	10								
Phenol	ND	10								
Pyrene	ND	10								
1,4-Dichlorobenzene-d4	40	0								
Acenaphthene-d10	40	0								
Chrysene-d12	40	0								
Naphthalene-d8	40	0								
Perylene-d12	40	0								
Phenanthrene-d10	40	0								
Surr: 2,4,6-Tribromophenol	109.1	0	100	0	109	39-153		0		
Surr: 2-Fluorobiphenyl	100.6	0	100	0	101	40-147		0		
Surr: 2-Fluorophenol	64.09	0	100	0	64.1	21-100		0		
Surr: 4-Terphenyl-d14	97.73	0	100	0	97.7	39-141		0		
Surr: Nitrobenzene-d5	95.59	0	100	0	95.6	37-140		0		
Surr: Phenol-d6	43.52	0	100	0	43.5	11-100		0		

ND - Not Detected at the Reporting Limit

- Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0311165
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: 7227 InstrumentID: SV-3

LCS Sample ID: SLCSW1-031117 Test Code: SW8270 Units: µg/L Analysis Date: 11/17/03 18:23
 Client ID: Run ID: SV-3_031117A SeqNo: 396891 Prep Date: 11/17/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	48.81	10	50	0	97.6	50-115	0			
2,4,5-Trichlorophenol	102.1	10	100	0	102	72-118	0			
2,4,6-Trichlorophenol	99.54	10	100	0	99.5	72-117	0			
2-Methylnaphthalene	47.07	10	50	0	94.1	47-122	0			
2-Methylphenol	85.73	10	100	0	85.7	51-115	0			
2-Nitroaniline	48.75	10	50	0	97.5	73-119	0			
2-Nitrophenol	98.44	10	100	0	98.4	60-119	0			
3-Nitroaniline	47.34	10	50	0	94.7	61-118	0			
4-Methylphenol	119	10	150	0	79.3	44-115	0			
4-Nitroaniline	50.5	10	50	0	101	61-123	0			
4-Nitrophenol	49.27	10	100	0	49.3	17-100	0			
Acenaphthene	48.16	10	50	0	96.3	68-115	0			
Acenaphthylene	47.95	10	50	0	95.9	67-116	0			
Anthracene	52.92	10	50	0	106	72-124	0			
Benz(a)anthracene	44.25	10	50	0	88.5	55-131	0			
Benzidine	25.31	10	50	0	50.6	10-115	0			
Hexachloroethane	49.33	10	50	0	98.7	46-115	0			
Indeno(1,2,3-cd)pyrene	51.15	10	50	0	102	42-123	0			
Isophorone	50.91	10	50	0	102	63-117	0			
N-Nitrosodi-n-propylamine	48.34	10	50	0	96.7	67-115	0			
N-Nitrosodimethylamine	32.92	10	50	0	65.8	28-115	0			
N-Nitrosodiphenylamine	59.36	10	50	0	119	72-144	0			
Naphthalene	48.3	10	50	0	96.6	52-115	0			
Nitrobenzene	48.75	10	50	0	97.5	65-115	0			
Pentachlorophenol	114.5	10	100	0	115	65-123	0			
Phenanthrene	50.8	10	50	0	102	69-119	0			
Phenol	48.62	10	100	0	48.6	16-115	0			
Pyrene	44.11	10	50	0	88.2	51-130	0			
Surr: 2,4,6-Tribromophenol	112.2	0	100	0	112	39-153	0			
Surr: 2-Fluorobiphenyl	97.19	0	100	0	97.2	40-147	0			
Surr: 2-Fluorophenol	70.73	0	100	0	70.7	21-100	0			
Surr: 4-Terphenyl-d14	94.35	0	100	0	94.4	39-141	0			
Surr: Nitrobenzene-d5	96.95	0	100	0	96.9	37-140	0			
Surr: Phenol-d6	45.92	0	100	0	45.9	11-100	0			

ND - Not Detected at the Reporting Limit
 - Analyte detected below quantitation limits
 O - Referenced analyte value is > 4 times amount spiked
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 B - Analyte detected in assoc. Method Blank
 U - Analyzed for but not detected
 E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0311165
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: 7227 InstrumentID: SV-3

LCSD Sample ID: SLCSDW1-031117 Test Code: SW8270 Units: µg/L Analysis Date: 11/17/03 18:49
 Client ID: Run ID: SV-3_031117A SeqNo: 396892 Prep Date: 11/17/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	51.79	10	50	0	104	50-115	48.81	5.92	30	
2,4,5-Trichlorophenol	106.3	10	100	0	106	72-118	102.1	4	30	
2,4,6-Trichlorophenol	104.4	10	100	0	104	72-117	99.54	4.78	30	
2-Methylnaphthalene	49.98	10	50	0	100	47-122	47.07	6.01	30	
2-Methylphenol	91.19	10	100	0	91.2	51-115	85.73	6.18	30	
2-Nitroaniline	51.39	10	50	0	103	73-119	48.75	5.29	30	
2-Nitrophenol	103.2	10	100	0	103	60-119	98.44	4.75	30	
3-Nitroaniline	49.48	10	50	0	99	61-118	47.34	4.41	30	
4-Methylphenol	129	10	150	0	86	44-115	119	8.03	30	
4-Nitroaniline	53.13	10	50	0	106	61-123	50.5	5.08	30	
4-Nitrophenol	51.6	10	100	0	51.6	17-100	49.27	4.63	30	
Acenaphthene	50.55	10	50	0	101	68-115	48.16	4.85	30	
Acenaphthylene	50.46	10	50	0	101	67-116	47.95	5.09	30	
Anthracene	53.41	10	50	0	107	72-124	52.92	0.924	30	
Benz(a)anthracene	44.87	10	50	0	89.7	55-131	44.25	1.39	30	
Benzidine	25.61	10	50	0	51.2	10-115	25.31	1.18	30	
Hexachloroethane	51.13	10	50	0	102	46-115	49.33	3.58	30	
Indeno(1,2,3-cd)pyrene	53.71	10	50	0	107	42-123	51.15	4.88	30	
Isophorone	53.22	10	50	0	106	63-117	50.91	4.44	30	
N-Nitrosodi-n-propylamine	51.61	10	50	0	103	67-115	48.34	6.54	30	
N-Nitrosodimethylamine	33.2	10	50	0	66.4	28-115	32.92	0.85	30	
N-Nitrosodiphenylamine	60.14	10	50	0	120	72-144	59.36	1.3	30	
Naphthalene	49.41	10	50	0	98.8	52-115	48.3	2.27	30	
Nitrobenzene	51.45	10	50	0	103	65-115	48.75	5.38	30	
Pentachlorophenol	118.8	10	100	0	119	65-123	114.5	3.62	30	
Phenanthrene	51.89	10	50	0	104	69-119	50.8	2.14	30	
Phenol	51.92	10	100	0	51.9	16-115	48.62	6.58	30	
Pyrene	44.18	10	50	0	88.4	51-130	44.11	0.157	30	
Surr: 2,4,6-Tribromophenol	114.3	0	100	0	114	39-153	112.2	1.9	30	
Surr: 2-Fluorobiphenyl	100.6	0	100	0	101	40-147	97.19	3.46	30	
Surr: 2-Fluorophenol	71.22	0	100	0	71.2	21-100	70.73	0.693	30	
Surr: 4-Terphenyl-d14	96.04	0	100	0	96	39-141	94.35	1.77	30	
Surr: Nitrobenzene-d5	99.47	0	100	0	99.5	37-140	96.95	2.57	30	
Surr: Phenol-d6	49.03	0	100	0	49	11-100	45.92	6.55	30	

The following samples were analyzed in this batch:

0311165-01E

ND - Not Detected at the Reporting Limit

- Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0311165
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: R17290 InstrumentID: VOA_1

MBLK Sample ID: VBLKW-1118 Test Code: SW8260 Units: µg/L Analysis Date: 11/18/03 14:07
 Client ID: Run ID: VOA_1_031118A SeqNo: 395601 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	ND	5.0								
1,1,2,2-Tetrachloroethane	ND	5.0								
1,1,2-Trichloroethane	ND	5.0								
1,1-Dichloroethane	ND	5.0								
1,1-Dichloroethene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
2-Butanone	ND	10								
2-Chloroethyl vinyl ether	ND	10								
2-Hexanone	ND	10								
4-Methyl-2-pentanone	ND	10								
Acetone	ND	10								
Benzene	ND	5.0								
Bromodichloromethane	ND	5.0								
Bromoform	ND	5.0								
Bromomethane	ND	5.0								
Carbon disulfide	ND	10								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroethane	ND	5.0								
Chloroform	ND	5.0								
Chloromethane	ND	5.0								
cis-1,3-Dichloropropene	ND	5.0								
Dibromochloromethane	ND	5.0								
Ethylbenzene	ND	5.0								
m,p-Xylene	ND	10								
Methylene chloride	ND	10								
Styrene	ND	5.0								
Tetrachloroethene	ND	5.0								
Toluene	ND	5.0								
trans-1,3-Dichloropropene	ND	5.0								
Trichloroethene	ND	5.0								
Vinyl acetate	ND	10								
Vinyl chloride	ND	2.0								
Xylenes, Total	ND	15								
Surr: 1,2-Dichloroethane-d4	47.17	5.0	50	0	94.3	70-130		0		
Surr: 4-Bromofluorobenzene	48.25	5.0	50	0	96.5	70-130		0		
Surr: Dibromofluoromethane	49.14	5.0	50	0	98.3	70-130		0		
Surr: Toluene-d8	51.97	5.0	50	0	104	70-130		0		

ND - Not Detected at the Reporting Limit

- Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0311165
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: R17290 InstrumentID: VOA_I

LCS Sample ID: VLCSW-1118 Test Code: SW8260 Units: µg/L Analysis Date: 11/18/03 13:38

Client ID: Run ID: VOA_I_031118A SeqNo: 395600 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	49.84	5.0	50	0	99.7	75-118	0	0		
1,1,2,2-Tetrachloroethane	50.66	5.0	50	0	101	79-120	0	0		
1,1,2-Trichloroethane	50.68	5.0	50	0	101	81-119	0	0		
1,1-Dichloroethane	51.33	5.0	50	0	103	80-120	0	0		
1,1-Dichloroethene	49.92	5.0	50	0	99.8	80-120	0	0		
1,2-Dichloroethane	48.47	5.0	50	0	96.9	80-120	0	0		
2-Butanone	103.6	10	100	0	104	70-130	0	0		
2-Chloroethyl vinyl ether	78.25	10	100	0	78.3	72-120	0	0		
2-Hexanone	73.63	10	100	0	73.6	70-130	0	0		
4-Methyl-2-pentanone	93.81	10	100	0	93.8	78-120	0	0		
Acetone	111.8	10	100	0	112	60-135	0	0		
Benzene	51.43	5.0	50	0	103	82-119	0	0		
Bromodichloromethane	49.7	5.0	50	0	99.4	81-119	0	0		
Bromoform	47.85	5.0	50	0	95.7	80-120	0	0		
Bromomethane	57.78	5.0	50	0	116	75-130	0	0		
Carbon disulfide	101.9	10	100	0	102	78-120	0	0		
Carbon tetrachloride	49.43	5.0	50	0	98.9	77-120	0	0		
Chlorobenzene	49.2	5.0	50	0	98.4	82-118	0	0		
Chloroethane	50.56	5.0	50	0	101	78-122	0	0		
Chloroform	50.09	5.0	50	0	100	78-120	0	0		
Chloromethane	49.83	5.0	50	0	99.7	75-125	0	0		
cis-1,3-Dichloropropene	51.65	5.0	50	0	103	81-120	0	0		
Dibromochloromethane	48.9	5.0	50	0	97.8	81-118	0	0		
Ethylbenzene	51.71	5.0	50	0	103	82-120	0	0		
m,p-Xylene	101.7	10	100	0	102	82-122	0	0		
Methylene chloride	50.17	10	50	0	100	80-122	0	0		
Styrene	52.33	5.0	50	0	105	82-121	0	0		
Tetrachloroethene	49.13	5.0	50	0	98.3	79-118	0	0		
Toluene	50.27	5.0	50	0	101	81-119	0	0		
trans-1,3-Dichloropropene	50.8	5.0	50	0	102	82-121	0	0		
Trichloroethene	49.61	5.0	50	0	99.2	78-118	0	0		
Vinyl acetate	109.5	10	100	0	110	75-120	0	0		
Vinyl chloride	51.93	2.0	50	0	104	73-127	0	0		
Xylenes, Total	153.5	15	150	0	102	80-120	0	0		
Surr: 1,2-Dichloroethane-d4	46.61	5.0	50	0	93.2	70-130	0	0		
Surr: 4-Bromofluorobenzene	49.7	5.0	50	0	99.4	70-130	0	0		
Surr: Dibromofluoromethane	47.71	5.0	50	0	95.4	70-130	0	0		
Surr: Toluene-d8	50.62	5.0	50	0	101	70-130	0	0		

ND - Not Detected at the Reporting Limit

- Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0311165
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: R17290 InstrumentID: VOA_I

MS Sample ID: 0311146-07AMS Test Code: SW8260 Units: µg/L Analysis Date: 11/18/03 15:01

Client ID: Run ID: VOA_I_031118A SeqNo: 396045 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	54.97	5.0	50	0	110	75-125	0			
1,1,2,2-Tetrachloroethane	58.46	5.0	50	0	117	75-125	0			
1,1,2-Trichloroethane	58.75	5.0	50	0	117	75-125	0			
1,1-Dichloroethane	61.48	5.0	50	2.583	118	75-125	0			
1,1-Dichloroethene	101	5.0	50	30.84	140	65-130	0			S
1,2-Dichloroethane	57.39	5.0	50	0	115	70-130	0			
2-Butanone	106.9	10	100	0	107	64-128	0			
2-Chloroethyl vinyl ether	14.79	10	100	0	14.8	75-125	0			S
2-Hexanone	77.39	10	100	0	77.4	72-124	0			
4-Methyl-2-pentanone	109.1	10	100	0	109	75-125	0			
Acetone	99.41	10	100	0	99.4	60-130	0			
Benzene	58.5	5.0	50	0	117	76-127	0			
Bromodichloromethane	58.12	5.0	50	0	116	75-125	0			
Bromoform	56.55	5.0	50	0	113	75-125	0			
Bromomethane	61.96	5.0	50	0	124	75-125	0			
Carbon disulfide	113.7	10	100	0	114	75-125	0			
Carbon tetrachloride	54.75	5.0	50	0	110	70-130	0			
Chlorobenzene	55.71	5.0	50	0	111	75-126	0			
Chloroethane	56.07	5.0	50	0	112	70-130	0			
Chloroform	56.93	5.0	50	0	114	75-125	0			
Chloromethane	52.49	5.0	50	0	105	75-125	0			
cis-1,3-Dichloropropene	59.34	5.0	50	0	119	75-125	0			
Dibromochloromethane	58.1	5.0	50	0	116	75-125	0			
Ethylbenzene	58.07	5.0	50	0	116	75-125	0			
m,p-Xylene	113.5	10	100	0	114	75-125	0			
Methylene chloride	56.89	10	50	0	114	75-125	0			
Styrene	58.92	5.0	50	0	118	75-125	0			
Tetrachloroethene	54.05	5.0	50	0	108	75-125	0			
Toluene	56.67	5.0	50	0	113	76-125	0			
trans-1,3-Dichloropropene	60.85	5.0	50	0	122	70-130	0			
Trichloroethene	56.23	5.0	50	0	112	71-120	0			
Vinyl acetate	125.8	10	100	0	126	75-125	0			S
Vinyl chloride	56.6	2.0	50	0	113	60-135	0			
Xylenes, Total	171.1	15	150	0	114	75-125	0			
Surr: 1,2-Dichloroethane-d4	46.74	5.0	50	0	93.5	70-130	0			
Surr: 4-Bromofluorobenzene	50.14	5.0	50	0	100	70-130	0			
Surr: Dibromofluoromethane	48.36	5.0	50	0	96.7	70-130	0			
Surr: Toluene-d8	50.04	5.0	50	0	100	70-130	0			

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0311165
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: R17290 InstrumentID: VOA_I

MSD	Sample ID: 0311146-07AMSD	Test Code: SW8260		Units: µg/L		Analysis Date: 11/18/03 15:29				
Client ID:	Run ID: VOA_I_031118A	SeqNo: 396046	Prep Date:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	51.88	5.0	50	0	104	75-125	54.97	5.79	20	
1,1,2,2-Tetrachloroethane	51.89	5.0	50	0	104	75-125	58.46	11.9	20	
1,1,2-Trichloroethane	54.08	5.0	50	0	108	75-125	58.75	8.27	20	
1,1-Dichloroethane	55.13	5.0	50	2.583	105	75-125	61.48	10.9	20	
1,1-Dichloroethene	71.78	5.0	50	30.84	81.9	65-130	101	33.8	20	R
1,2-Dichloroethane	52.55	5.0	50	0	105	70-130	57.39	8.8	20	
2-Butanone	96.27	10	100	0	96.3	64-128	106.9	10.5	20	
2-Chloroethyl vinyl ether	10.51	10	100	0	10.5	75-125	14.79	33.8	20	SR
2-Hexanone	74.18	10	100	0	74.2	72-124	77.39	4.23	20	
4-Methyl-2-pentanone	98.42	10	100	0	98.4	75-125	109.1	10.3	20	
Acetone	90.44	10	100	0	90.4	60-130	99.41	9.45	20	
Benzene	54.97	5.0	50	0	110	76-127	58.5	6.23	20	
Bromodichloromethane	53.71	5.0	50	0	107	75-125	58.12	7.9	20	
Bromoform	50.94	5.0	50	0	102	75-125	56.55	10.4	20	
Bromomethane	59.19	5.0	50	0	118	75-125	61.96	4.57	20	
Carbon disulfide	108.5	10	100	0	109	75-125	113.7	4.67	20	
Carbon tetrachloride	52.57	5.0	50	0	105	70-130	54.75	4.06	20	
Chlorobenzene	52.25	5.0	50	0	105	75-126	55.71	6.41	20	
Chloroethane	53.72	5.0	50	0	107	70-130	56.07	4.28	20	
Chloroform	52.61	5.0	50	0	105	75-125	56.93	7.9	20	
Chloromethane	55.49	5.0	50	0	111	75-125	52.49	5.56	20	
cis-1,3-Dichloropropene	54.75	5.0	50	0	109	75-125	59.34	8.05	20	
Dibromochloromethane	53.62	5.0	50	0	107	75-125	58.1	8.02	20	
Ethylbenzene	55.8	5.0	50	0	112	75-125	58.07	3.97	20	
m,p-Xylene	108.2	10	100	0	108	75-125	113.5	4.85	20	
Methylene chloride	52.33	10	50	0	105	75-125	56.89	8.35	20	
Styrene	55.6	5.0	50	0	111	75-125	58.92	5.8	20	
Tetrachloroethene	52.27	5.0	50	0	105	75-125	54.05	3.34	20	
Toluene	54.55	5.0	50	0	109	76-125	56.67	3.8	20	
trans-1,3-Dichloropropene	54.07	5.0	50	0	108	70-130	60.85	11.8	20	
Trichloroethene	53.11	5.0	50	0	106	71-120	56.23	5.7	20	
Vinyl acetate	114.3	10	100	0	114	75-125	125.8	9.59	20	
Vinyl chloride	54.4	2.0	50	0	109	60-135	56.6	3.96	20	
Xylenes, Total	163.1	15	150	0	109	75-125	171.1	4.81	20	
Surr: 1,2-Dichloroethane-d4	46.9	5.0	50	0	93.8	70-130	46.74	0.331	20	
Surr: 4-Bromofluorobenzene	50.18	5.0	50	0	100	70-130	50.14	0.0834	20	
Surr: Dibromofluoromethane	48.5	5.0	50	0	97	70-130	48.36	0.276	20	
Surr: Toluene-d8	51.51	5.0	50	0	103	70-130	50.04	2.89	20	

The following samples were analyzed in this batch:

0311165-01A

ND - Not Detected at the Reporting Limit

- Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0311165
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: R17298 InstrumentID: Wet Chemistry

MBLK	Sample ID: WMBW1-111803	Test Code: E310.1	Units: mg/L	Analysis Date: 11/18/03 0:00						
Client ID:	Run ID: WET CHEMISTRY_0311	SeqNo: 395801	Prep Date:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	ND	5.0								
Alkalinity, Carbonate (As CaCO3)	ND	5.0								
Alkalinity, Hydroxide (As CaCO3)	ND	5.0								
Alkalinity, Total (As CaCO3)	ND	5.0								

LCS	Sample ID: WLCSW1-111803	Test Code: E310.1	Units: mg/L	Analysis Date: 11/18/03 0:00						
Client ID:	Run ID: WET CHEMISTRY_0311	SeqNo: 395802	Prep Date:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	1000	5.0	1000	0	100	80-120	0			

DUP	Sample ID: 0311077-02B DUP	Test Code: E310.1	Units: mg/L	Analysis Date: 11/18/03 0:00						
Client ID:	Run ID: WET CHEMISTRY_0311	SeqNo: 395814	Prep Date:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	620.1	5.0	0	0	0	0-0	620.1	0	20	
Alkalinity, Carbonate (As CaCO3)	ND	5.0	0	0	0	0-0	0	0	20	
Alkalinity, Hydroxide (As CaCO3)	ND	5.0	0	0	0	0-0	0	0	20	
Alkalinity, Total (As CaCO3)	620.1	5.0	0	0	0	0-0	620.1	0	20	

The following samples were analyzed in this batch:

0311165-01B

ND - Not Detected at the Reporting Limit

- Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0311165
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: R17376 InstrumentID: UV-2101PC

MBLK	Sample ID: WMBW1-112403	Test Code: E335.3				Units: mg/L	Analysis Date: 11/24/03 0:00			
Client ID:	Run ID: UV-2101PC_031124A	SeqNo:	397850	Prep Date:	DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide	ND	0.020								

LCS	Sample ID: WLCSW1-112403	Test Code: E335.3				Units: mg/L	Analysis Date: 11/24/03 0:00			
Client ID:	Run ID: UV-2101PC_031124A	SeqNo:	397851	Prep Date:	DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide	0.2082	0.020	0.2	0	104	80-120	0			

MS	Sample ID: 0311188-02C MS	Test Code: E335.3				Units: mg/L	Analysis Date: 11/24/03 0:00			
Client ID:	Run ID: UV-2101PC_031124A	SeqNo:	397864	Prep Date:	DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide	0.2011	0.020	0.2	0.001	100	75-125	0			

MSD	Sample ID: 0311188-02C MSD	Test Code: E335.3				Units: mg/L	Analysis Date: 11/24/03 0:00			
Client ID:	Run ID: UV-2101PC_031124A	SeqNo:	397865	Prep Date:	DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide	0.2085	0.020	0.2	0.001	104	75-125	0.2011	3.61	25	

DUP	Sample ID: 0311188-02C DUP	Test Code: E335.3				Units: mg/L	Analysis Date: 11/24/03 0:00			
Client ID:	Run ID: UV-2101PC_031124A	SeqNo:	397863	Prep Date:	DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide	ND	0.020	0	0	0	0-0	0.001	0	20	

The following samples were analyzed in this batch: 0311165-01D

ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 O - Referenced analyte value is > 4 times amount spiked
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 B - Analyte detected in assoc. Method Blank
 U - Analyzed for but not detected
 E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0311165
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: R17483 InstrumentID: IC201

MBLK Sample ID: WBLKW1-120103 Test Code: E300 Units: mg/L Analysis Date: 12/01/03 16:26

Client ID: Run ID: IC201_031201A SeqNo: 399979 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	ND	0.50								
Fluoride	ND	0.10								
Sulfate	ND	1.0								
Nitrate/Nitrite (as N)	ND	0.10								
Surr: Dichloroacetic acid (surr)	5.93	0.10	5	0	119	80-120		0		

LCS Sample ID: WLC SW1-120103 Test Code: E300 Units: mg/L Analysis Date: 12/01/03 16:59

Client ID: Run ID: IC201_031201A SeqNo: 399980 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	9.35	0.50	10	0	93.5	80-120		0		
Fluoride	1.95	0.10	2	0	97.5	80-120		0		
Sulfate	9.87	1.0	10	0	98.7	80-120		0		
Surr: Dichloroacetic acid (surr)	4.93	0.10	5	0	98.6	80-120		0		

LCS D Sample ID: WLCSDW1-12010 Test Code: E300 Units: mg/L Analysis Date: 12/02/03 10:52

Client ID: Run ID: IC201_031201A SeqNo: 399997 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	9.37	0.50	10	0	93.7	80-120	9.35	0.214	20	
Fluoride	1.97	0.10	2	0	98.5	80-120	1.95	1.02	20	
Sulfate	10.08	1.0	10	0	101	80-120	9.87	2.11	20	
Surr: Dichloroacetic acid (surr)	4.78	0.10	5	0	95.6	80-120	4.93	3.09	20	

MS Sample ID: 0311284-11BMS Test Code: E300 Units: mg/L Analysis Date: 12/02/03 7:37

Client ID: Run ID: IC201_031201A SeqNo: 400010 Prep Date: DF: 2

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	55.04	1.0	20	36.76	91.4	75-125		0		
Fluoride	4.78	0.20	4	1.04	93.5	75-125		0		
Sulfate	71.02	2.0	20	52.86	90.8	75-125		0		
Nitrate/Nitrite (as N)	8.04	0.20	8	0	100	75-125		0		
Surr: Dichloroacetic acid (surr)	11.42	0.20	10	0	114	80-120		0		

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0311165
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: R17483 InstrumentID: IC201

MSD		Sample ID: 0311284-11BMSD			Test Code: E300		Units: mg/L		Analysis Date: 12/02/03 8:09	
Client ID:		Run ID: IC201_031201A			SeqNo: 400011		Prep Date:		DF: 2	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	54.64	1.0	20	36.76	89.4	75-125	55.04	0.729	20	
Fluoride	4.8	0.20	4	1.04	94	75-125	4.78	0.418	20	
Sulfate	70.62	2.0	20	52.86	88.8	75-125	71.02	0.565	20	
Nitrate/Nitrite (as N)	7.96	0.20	8	0	99.5	75-125	8.04	1	20	
Surr: Dichloroacetic acid (surr)	11.16	0.20	10	0	112	80-120	11.42	2.3	20	

DUP		Sample ID: 0311165-01BDUP			Test Code: E300		Units: mg/L		Analysis Date: 12/01/03 20:14	
Client ID: TEL-1		Run ID: IC201_031201A			SeqNo: 399985		Prep Date:		DF: 50	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	208	25	0	0	0	0-0	208.5	0.24	20	
Fluoride	ND	5.0	0	0	0	0-0	0	0	20	
Sulfate	1964	50	0	0	0	0-0	1968	0.178	20	
Nitrate/Nitrite (as N)	ND	5.0	0	0	0	0-0	0	0	20	
Surr: Dichloroacetic acid (surr)	295.5	5.0	250	0	118	80-120	294	0.509	20	

DUP		Sample ID: 0311284-04BDUP			Test Code: E300		Units: mg/L		Analysis Date: 12/02/03 3:17	
Client ID:		Run ID: IC201_031201A			SeqNo: 400002		Prep Date:		DF: 2	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	53.74	1.0	0	0	0	0-0	53.74	0	20	
Fluoride	0.74	0.20	0	0	0	0-0	0.76	2.67	20	
Sulfate	51.18	2.0	0	0	0	0-0	51.14	0.0782	20	
Nitrate/Nitrite (as N)	0.34	0.20	0	0	0	0-0	0.32	6.06	20	
Surr: Dichloroacetic acid (surr)	10.64	0.20	10	0	106	80-120	10.76	1.12	20	

DUP		Sample ID: 0311284-11BDUP			Test Code: E300		Units: mg/L		Analysis Date: 12/02/03 7:04	
Client ID:		Run ID: IC201_031201A			SeqNo: 400009		Prep Date:		DF: 2	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	34.8	1.0	0	0	0	0-0	35	0.573	20	
Fluoride	1.36	0.20	0	0	0	0-0	1.32	2.99	20	
Sulfate	50.34	2.0	0	0	0	0-0	50.58	0.476	20	
Nitrate/Nitrite (as N)	0.3	0.20	0	0	0	0-0	0.3	0	20	
Surr: Dichloroacetic acid (surr)	11.5	0.20	10	0	115	80-120	11.32	1.58	20	

The following samples were analyzed in this batch: 0311165-01B

- ND - Not Detected at the Reporting Limit
- Analyte detected below quantitation limits
- O - Referenced analyte value is > 4 times amount spiked
- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- P - Dual Column results percent difference > 40%
- B - Analyte detected in assoc. Method Blank
- U - Analyzed for but not detected
- E - Value above quantitation range

TraceAnalysis, Inc.
 1 Aberdeen Avenue, Ste. 19
 Lubbock, Texas 79424
 Tel (806) 794-1296
 Fax (806) 794-1298
 1 (800) 378-1296

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST
 LAB Order ID # _____
 Phone # _____
 Fax # _____

Company Name: TraceAnalysis
 Address: _____
 Contact Person: Jeff Byrd

ANALYSIS REQUEST
 (Circle or Specify Method No.)

Project #: _____
 Project Name: NCL / TEL
 Invoice to: _____
 (If different from above)

Method No. 625
 GCM S Sol
 GCM S Vol
 HCl
 TOLP Posite
 TOLP Semi V
 TOLP Volatile
 TOLP Metals
 Cd Cr Pb Se Hg
 Cd Cr Pb Se Hg 6010B/2007

Project Location: Artesia
 Sampler Signature: _____
 PRESERVATIVE: _____

MTBE 8021L
 BTEX 8021B
 TPH 418 / 1TY
 PAH 8270C
 Total Metals A
 TOLP Metals
 Cd Cr Pb Se Hg 6010B/2007

LAB # (LAB USE ONLY)	FIELD CC	WATER	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE	TIME
	TEL-1	X			X	X	X	X	X	NONE	11/13/05	

# CONTAINERS	Volume/Amount	Received by:	Date:	Time:
8		[Signature]	11/13/05	8:50am

Relinquished by:	Date:	Time:
[Signature]	11/13/05	10/15

REMARKS:
LAB USE ONLY
 Initial: Y/N
 Headspace: Y/N
 Temp: _____
 Log-In/Review: _____
 Check If Special Reporting Limits Are Needed: _____

e-Lab, Inc.

Sample Receipt Checklist

Client Name NAVAJO REFINING

Date/Time Received: 11/15/2003 8:50:00 AM

Work Order Number 0314165

Received by: RNG

Checklist completed by

[Signature]
Signature

11/17/03
Date

Reviewed by

[Initials] 11/17/03
Initials Date

Matrix: W

Carrier name: FedEx

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No
- Temperature(s)/Thermometer(s): 2.5c 003
- Water - VOA vials have zero headspace? Yes No No VOA vials submitted
- Water - pH acceptable upon receipt? Yes No N/A

Adjusted? _____ Checked by _____

Login Notes:

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

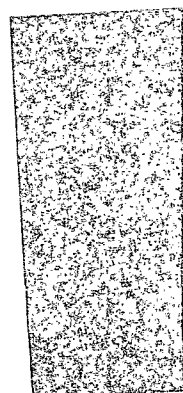
W.O. # B311166

FedEx **PRIORITY OVERNIGHT** **SAT**
Equip# 367571 00:30 15NOV03 **Deliver By:**
15NOV03
ID# 7909 6371 6299 FORM IAH
0201
77099 -TX-US **XO JGQA**



APPENDIX D

2003 EVAPORATION PONDS GROUNDWATER LABORATORY ANALYTICAL REPORTS





TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9
155 McCutcheon, Suite H

Lubbock, Texas 79424 800•378•1296
El Paso, Texas 79932 888•588•3443
E-Mail: lab@traceanalysis.com

806•794•1296 FAX 806•794•1298
915•585•3443 FAX 915•585•4944

Analytical and Quality Control Report

Darrell Moore
Navajo Refining
501 E. Main
Artesia, NM 88210

Report Date: June 23, 2003

Work Order: 3061106

Project Location: Artesia
Project Name: Reverse Osmosis Reject Water
Project Number: Reverse Osmosis Reject Water
Quarterly:

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
9457	RO Reject	water	2003-06-10	10:00	2003-06-11

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 9 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Analytical Report

Sample: 9457 - RO Reject

Analysis: Alkalinity Analytical Method: SM 2320B Prep Method: N/A
QC Batch: 2284 Date Analyzed: 2003-06-18 Analyzed By: RS
Prep Batch: 2078 Date Prepared: 2003-06-17 Prepared By: RS

Parameter	Flag	RL Result	Units	Dilution	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Bicarbonate Alkalinity		602	mg/L as CaCo3	1	4.00
Total Alkalinity		602	mg/L as CaCo3	1	4.00

Sample: 9457 - RO Reject

Analysis: Cations Analytical Method: S 6010B Prep Method: S 3005A
QC Batch: 2372 Date Analyzed: 2003-06-18 Analyzed By: BC
Prep Batch: 2057 Date Prepared: 2003-06-16 Prepared By: TP

Parameter	Flag	RL Result	Units	Dilution	RL
Dissolved Calcium		555	mg/L	1	0.500
Dissolved Potassium		4.59	mg/L	1	0.500
Dissolved Magnesium		176	mg/L	1	0.500
Dissolved Sodium		53.3	mg/L	1	0.500

Sample: 9457 - RO Reject

Analysis: Hg, Total Analytical Method: S 7470A Prep Method: N/A
QC Batch: 2244 Date Analyzed: 2003-06-13 Analyzed By: BC
Prep Batch: 2041 Date Prepared: 2003-06-13 Prepared By: BC

Parameter	Flag	RL Result	Units	Dilution	RL
Total Mercury		<0.000200	mg/L	1	0.000200

Sample: 9457 - RO Reject

Analysis: Ion Chromatography Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 2192 Date Analyzed: 2003-06-13 Analyzed By: JSW
Prep Batch: 1985 Date Prepared: 2003-06-12 Prepared By: JSW

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		45.0	mg/L	5	0.500
Fluoride		3.29	mg/L	5	0.200
Nitrate-N		2.44	mg/L	5	0.200
Sulfate		1480	mg/L	50	0.500

Sample: 9457 - RO Reject

Analysis: Total Metals
QC Batch: 2229
Prep Batch: 1980

Analytical Method: S 6010B
Date Analyzed: 2003-06-13
Date Prepared: 2003-06-12

Prep Method: S 3010A
Analyzed By: BC
Prepared By: TP

Parameter	Flag	RL Result	Units	Dilution	RL
Total Silver		<0.0125	mg/L	1	0.0125
Total Aluminum		<0.100	mg/L	1	0.100
Total Arsenic		<0.0100	mg/L	1	0.0100
Total Boron		0.0970	mg/L	1	0.00500
Total Barium		0.0850	mg/L	1	0.0100
Total Beryllium		<0.00250	mg/L	1	0.00250
Total Cadmium		<0.00500	mg/L	1	0.00500
Total Cobalt		<0.0200	mg/L	1	0.0200
Total Chromium		<0.0100	mg/L	1	0.0100
Total Copper		<0.0250	mg/L	1	0.0250
Total Iron		0.0910	mg/L	1	0.0500
Total Manganese		<0.0250	mg/L	1	0.0250
Total Molybdenum		<0.0500	mg/L	1	0.0500
Total Nickel		<0.0250	mg/L	1	0.0250
Total Lead		0.483	mg/L	1	0.0100
Total Selenium		<0.0100	mg/L	1	0.0100
Total Uranium		0.0200	mg/L	1	0.0200
Total Vanadium		<0.0250	mg/L	1	0.0250
Total Zinc		<0.0250	mg/L	1	0.0250

Method Blank (1) QC Batch: 2192

Parameter	Flag	Result	Units	RL
Chloride		<0.500	mg/L	0.5
Fluoride		<0.200	mg/L	0.2
Nitrate-N		<0.200	mg/L	0.2
Sulfate		<0.500	mg/L	0.5

Method Blank (1) QC Batch: 2229

Parameter	Flag	Result	Units	RL
Total Silver		<0.0125	mg/L	0.0125
Total Aluminum		<0.100	mg/L	0.1
Total Arsenic		<0.0100	mg/L	0.01
Total Boron		<0.00500	mg/L	0.005
Total Barium		<0.0100	mg/L	0.01
Total Beryllium		<0.00250	mg/L	0.0025
Total Cadmium		<0.00500	mg/L	0.005
Total Cobalt		<0.0200	mg/L	0.02
Total Chromium		<0.0100	mg/L	0.01
Total Copper		<0.0250	mg/L	0.025
Total Iron		<0.0500	mg/L	0.05

continued ...

method blank continued ...

Parameter	Flag	Result	Units	RL
Total Manganese		<0.0250	mg/L	0.025
Total Molybdenum		<0.0500	mg/L	0.05
Total Nickel		<0.0250	mg/L	0.025
Total Lead		<0.0100	mg/L	0.01
Total Selenium		<0.0100	mg/L	0.01
Total Uranium		0.00	mg/L	
Total Vanadium		<0.0250	mg/L	0.025
Total Zinc		<0.0250	mg/L	0.025

Method Blank (1) QC Batch: 2244

Parameter	Flag	Result	Units	RL
Total Mercury		<0.000200	mg/L	0.0002

Method Blank (1) QC Batch: 2284

Parameter	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1
Bicarbonate Alkalinity		<4.00	mg/L as CaCo3	4
Total Alkalinity		<4.00	mg/L as CaCo3	4

Method Blank (1) QC Batch: 2372

Parameter	Flag	Result	Units	RL
Dissolved Calcium		<0.500	mg/L	0.5
Dissolved Potassium		<0.500	mg/L	0.5
Dissolved Magnesium		<0.500	mg/L	0.5
Dissolved Sodium		<0.500	mg/L	0.5

Duplicate (1) QC Batch: 2284

Param	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Hydroxide Alkalinity	<1.00	<1.00	mg/L as CaCo3	1	0	5.81
Carbonate Alkalinity	<1.00	<1.00	mg/L as CaCo3	1	0	5.81
Bicarbonate Alkalinity	220	216	mg/L as CaCo3	1	2	5.81
Total Alkalinity	220	216	mg/L as CaCo3	1	2	5.81

Laboratory Control Spike (LCS-1) QC Batch: 2192

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Chloride	12.1	12.2	mg/L	1	12.5	<1.49	97	1	90 - 110	20
Fluoride	2.52	2.52	mg/L	1	2.50	<0.0153	101	0	90 - 110	20
Nitrate-N	2.42	2.42	mg/L	1	2.50	<0.630	97	0	90 - 110	20
Sulfate	12.0	12.0	mg/L	1	12.5	<0.171	96	0	90 - 110	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1) QC Batch: 2229

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Total Silver	0.128	0.127	mg/L	1	0.125	<0.00120	102	1	80 - 120	20
Total Aluminum	0.910	1.00	mg/L	1	1.00	<0.0227	91	9	85 - 115	20
Total Arsenic	0.530	0.550	mg/L	1	0.500	<0.00593	106	4	80 - 120	20
Total Boron	0.0540	0.0540	mg/L	1	0.0500	<0.000728	108	0	75 - 125	20
Total Barium	0.975	0.933	mg/L	1	1.00	<0.000343	98	4	85 - 115	20
Total Beryllium	0.0260	0.0250	mg/L	1	0.0250	<0.000138	104	4	85 - 115	20
Total Cadmium	0.277	0.271	mg/L	1	0.250	<0.000268	111	2	85 - 115	20
Total Cobalt	0.241	0.270	mg/L	1	0.250	<0.000705	96	11	85 - 115	20
Total Chromium	0.110	0.0920	mg/L	1	0.100	<0.000660	110	18	85 - 115	20
Total Copper	0.122	0.120	mg/L	1	0.125	<0.0177	98	2	85 - 115	20
Total Iron	0.513	0.515	mg/L	1	0.500	<0.00220	103	0	85 - 115	20
Total Manganese	0.252	0.251	mg/L	1	0.250	<0.000275	101	0	85 - 115	20
Total Molybdenum	0.497	0.423	mg/L	1	0.500	<0.00136	99	16	85 - 115	20
Total Nickel	0.263	0.280	mg/L	1	0.250	<0.00269	105	6	85 - 115	20
Total Lead	0.520	0.480	mg/L	1	0.500	<0.00367	104	8	75 - 125	20
Total Selenium	0.480	0.517	mg/L	1	0.500	<0.00650	96	7	75 - 125	20
Total Uranium	0.547	0.456	mg/L	1	0.500	0	109	18	85 - 115	20
Total Vanadium	0.221	0.250	mg/L	1	0.250	<0.00105	88	12	85 - 115	20
Total Zinc	0.270	0.280	mg/L	1	0.250	<0.00907	108	4	85 - 115	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1) QC Batch: 2244

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Total Mercury	0.000840	0.000890	mg/L	1	0.00100	<0.0000360	84	6	80 - 120	20
Total Mercury	0.000840	0.000890	mg/L	1	0.00100	<0.0000360	84	6	80 - 120	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1) QC Batch: 2372

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Dissolved Calcium	97.8	102	mg/L	1	100	<0.183	98	4	85 - 115	20
Dissolved Potassium	99.6	101	mg/L	1	100	<0.135	100	1	85 - 115	20
Dissolved Magnesium	89.2	93.9	mg/L	1	100	<0.183	89	5	85 - 115	20
Dissolved Sodium	97.1	98.2	mg/L	1	100	<0.105	97	1	85 - 115	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) QC Batch: 2192

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Chloride	569	570	mg/L	50	12.5	<74.7	80	0	32.7 - 136	20
Fluoride	119	119	mg/L	50	2.50	7.34	89	0	30.1 - 187	20
Nitrate-N	123	122	mg/L	50	2.50	<31.5	90	1	62.2 - 121	20
Sulfate	1990	1990	mg/L	50	12.5	1480	82	0	69.9 - 114	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) QC Batch: 2229

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Total Silver	¹² 0.185	0.199	mg/L	1	0.125	<0.00120	148	7	75 - 125	20
Total Aluminum	³⁴ 1.60	1.60	mg/L	1	1.00	<0.0227	160	0	75 - 125	20
Total Arsenic	0.381	0.400	mg/L	1	0.500	<0.00593	76	5	75 - 125	20
Total Boron	0.144	0.152	mg/L	1	0.0500	0.097	94	5	75 - 125	20
Total Barium	⁵⁶ 1.47	1.47	mg/L	1	1.00	0.085	138	0	75 - 125	20
Total Beryllium	0.0260	0.0250	mg/L	1	0.0250	<0.000138	104	4	75 - 125	20
Total Cadmium	⁷⁸ 0.349	0.335	mg/L	1	0.250	<0.000268	140	4	75 - 125	20
Total Cobalt	⁹¹⁰ 0.336	0.377	mg/L	1	0.250	0.009	131	12	75 - 125	20
Total Chromium	0.118	0.118	mg/L	1	0.100	<0.000660	118	0	75 - 125	20
Total Copper	¹¹¹² 0.209	0.208	mg/L	1	0.125	<0.0177	167	0	75 - 125	20
Total Iron	¹³¹⁴ 0.729	0.729	mg/L	1	0.500	0.091	128	0	75 - 125	20
Total Manganese	0.309	0.313	mg/L	1	0.250	0.012	119	1	75 - 125	20
Total Molybdenum	¹⁵ 0.576	0.642	mg/L	1	0.500	<0.00136	115	11	75 - 125	20
Total Nickel	¹⁶¹⁷ 0.358	0.414	mg/L	1	0.250	0.02	135	14	75 - 125	20
Total Lead	1.04	0.922	mg/L	1	0.500	0.483	111	12	75 - 125	20
Total Selenium	0.448	0.442	mg/L	1	0.500	<0.00650	90	1	75 - 125	20
Total Uranium	0.456	0.481	mg/L	1	0.500	0	91	5	75 - 125	20
Total Vanadium	0.282	0.292	mg/L	1	0.250	0.008	110	3	75 - 125	20
Total Zinc	¹⁸ 0.330	0.322	mg/L	1	0.250	0.01	128	2	75 - 125	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) QC Batch: 2244

- ¹ Matrix spike recovery appears high due to matrix effects. LCS demonstrates process under control.
- ² Matrix spike recovery appears high due to matrix effects. LCS demonstrates process under control.
- ³ Matrix spike recovery appears high due to matrix effects. LCS demonstrates process under control.
- ⁴ Matrix spike recovery appears high due to matrix effects. LCS demonstrates process under control.
- ⁵ Matrix spike recovery appears high due to matrix effects. LCS demonstrates process under control.
- ⁶ Matrix spike recovery appears high due to matrix effects. LCS demonstrates process under control.
- ⁷ Matrix spike recovery appears high due to matrix effects. LCS demonstrates process under control.
- ⁸ Matrix spike recovery appears high due to matrix effects. LCS demonstrates process under control.
- ⁹ Matrix spike recovery appears high due to matrix effects. LCS demonstrates process under control.
- ¹⁰ Matrix spike recovery appears high due to matrix effects. LCS demonstrates process under control.
- ¹¹ Matrix spike recovery appears high due to matrix effects. LCS demonstrates process under control.
- ¹² Matrix spike recovery appears high due to matrix effects. LCS demonstrates process under control.
- ¹³ Matrix spike recovery appears high due to matrix effects. LCS demonstrates process under control.
- ¹⁴ Matrix spike recovery appears high due to matrix effects. LCS demonstrates process under control.
- ¹⁵ Matrix spike recovery appears high due to matrix effects. LCS demonstrates process under control.
- ¹⁶ Matrix spike recovery appears high due to matrix effects. LCS demonstrates process under control.
- ¹⁷ Matrix spike recovery appears high due to matrix effects. LCS demonstrates process under control.
- ¹⁸ Matrix spike recovery appears high due to matrix effects. LCS demonstrates process under control.

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Total Mercury	¹⁹ 20 0.00485	0.00478	mg/L	1	0.00100	<0.0000360	485	1	80 - 120	20
Total Mercury	²¹ 22 0.00485	0.00478	mg/L	1	0.00100	<0.0000360	485	1	80 - 120	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) QC Batch: 2372

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Dissolved Calcium	120	129	mg/L	1	100	39.3	81	7	75 - 125	20
Dissolved Potassium	92.2	99.4	mg/L	1	100	2.27	90	8	75 - 125	20
Dissolved Magnesium	116	90.8	mg/L	1	100	8.49	108	24	75 - 125	20
Dissolved Sodium	108	107	mg/L	1	100	26.3	82	1	75 - 125	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Standard (ICV-1) QC Batch: 2192

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	11.3	90	90 - 110	2003-06-13
Fluoride		mg/L	2.50	2.35	94	90 - 110	2003-06-13
Nitrate-N		mg/L	2.50	2.30	92	90 - 110	2003-06-13
Sulfate		mg/L	12.5	11.2	90	90 - 110	2003-06-13

Standard (CCV-1) QC Batch: 2192

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	11.6	93	90 - 110	2003-06-13
Fluoride		mg/L	2.50	2.51	100	90 - 110	2003-06-13
Nitrate-N		mg/L	2.50	2.42	97	90 - 110	2003-06-13
Sulfate		mg/L	12.5	11.9	95	90 - 110	2003-06-13

Standard (ICV-1) QC Batch: 2229

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Silver		mg/L	0.125	0.128	102	90 - 110	2003-06-13
Total Aluminum		mg/L	1.00	0.957	96	90 - 110	2003-06-13
Total Arsenic		mg/L	1.00	1.01	101	90 - 110	2003-06-13
Total Boron		mg/L	1.00	0.990	99	90 - 110	2003-06-13
Total Barium		mg/L	1.00	0.993	99	90 - 110	2003-06-13
Total Beryllium		mg/L	1.00	1.01	101	90 - 110	2003-06-13
Total Cadmium		mg/L	1.00	0.984	98	90 - 110	2003-06-13

continued ...

¹⁹ms recovery invalid due to spiking error, use lcs/lcsd to control the run

²⁰ms recovery invalid due to spiking error, use lcs/lcsd to control the run

²¹ms recovery invalid due to spiking error, use lcs/lcsd to control the run

²²ms recovery invalid due to spiking error, use lcs/lcsd to control the run

standard continued ...

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Cobalt		mg/L	1.00	0.994	99	90 - 110	2003-06-13
Total Chromium		mg/L	1.00	0.984	98	90 - 110	2003-06-13
Total Copper		mg/L	1.00	1.01	101	90 - 110	2003-06-13
Total Iron		mg/L	1.00	0.991	99	90 - 110	2003-06-13
Total Manganese		mg/L	1.00	1.05	105	90 - 110	2003-06-13
Total Molybdenum		mg/L	1.00	1.01	101	90 - 110	2003-06-13
Total Nickel		mg/L	1.00	1.02	102	90 - 110	2003-06-13
Total Lead		mg/L	1.00	0.952	95	90 - 110	2003-06-13
Total Selenium		mg/L	1.00	0.977	98	90 - 110	2003-06-13
Total Uranium		mg/L	2.50	2.47	99	90 - 110	2003-06-13
Total Vanadium		mg/L	1.00	0.996	100	90 - 110	2003-06-13
Total Zinc		mg/L	1.00	1.00	100	90 - 110	2003-06-13

Standard (CCV-1) QC Batch: 2229

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Silver		mg/L	0.125	0.119	95	90 - 110	2003-06-13
Total Aluminum		mg/L	1.00	1.05	105	90 - 110	2003-06-13
Total Arsenic		mg/L	1.00	1.06	106	90 - 110	2003-06-13
Total Boron		mg/L	1.00	1.05	105	90 - 110	2003-06-13
Total Barium		mg/L	1.00	0.978	98	90 - 110	2003-06-13
Total Beryllium		mg/L	1.00	1.03	103	90 - 110	2003-06-13
Total Cadmium		mg/L	1.00	1.00	100	90 - 110	2003-06-13
Total Cobalt		mg/L	1.00	0.963	96	90 - 110	2003-06-13
Total Chromium		mg/L	1.00	0.981	98	90 - 110	2003-06-13
Total Copper		mg/L	1.00	0.990	99	90 - 110	2003-06-13
Total Iron		mg/L	1.00	1.02	102	90 - 110	2003-06-13
Total Manganese		mg/L	1.00	0.968	97	90 - 110	2003-06-13
Total Molybdenum		mg/L	1.00	0.999	100	90 - 110	2003-06-13
Total Nickel		mg/L	1.00	0.979	98	90 - 110	2003-06-13
Total Lead		mg/L	1.00	1.03	103	90 - 110	2003-06-13
Total Selenium		mg/L	1.00	1.02	102	90 - 110	2003-06-13
Total Uranium		mg/L	2.50	2.48	99	90 - 110	2003-06-13
Total Vanadium		mg/L	1.00	0.997	100	90 - 110	2003-06-13
Total Zinc		mg/L	1.00	1.06	106	90 - 110	2003-06-13

Standard (ICV-1) QC Batch: 2244

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/L	0.00100	0.00100	100	80 - 120	2003-06-13

Standard (CCV-1) QC Batch: 2244

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/L	0.00100	0.000840	84	80 - 120	2003-06-13

Standard (ICV-1) QC Batch: 2284

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Hydroxide Alkalinity		mg/L as CaCo3	0.00	<1.00		0 - 200	2003-06-18
Carbonate Alkalinity		mg/L as CaCo3	0.00	224		0 - 200	2003-06-18
Bicarbonate Alkalinity		mg/L as CaCo3	0.00	24.0		0 - 200	2003-06-18
Total Alkalinity		mg/L as CaCo3	250	248	99	90 - 110	2003-06-18

Standard (CCV-1) QC Batch: 2284

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Hydroxide Alkalinity		mg/L as CaCo3	0.00	<1.00		0 - 200	2003-06-18
Carbonate Alkalinity		mg/L as CaCo3	0.00	220		0 - 200	2003-06-18
Bicarbonate Alkalinity		mg/L as CaCo3	0.00	24.0		0 - 200	2003-06-18
Total Alkalinity		mg/L as CaCo3	250	244	98	90 - 110	2003-06-18

Standard (CCV-1) QC Batch: 2372

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Dissolved Calcium		mg/L	25.0	24.7	99	90 - 110	2003-06-18
Dissolved Potassium		mg/L	25.0	24.9	100	90 - 110	2003-06-18
Dissolved Magnesium		mg/L	25.0	23.8	95	90 - 110	2003-06-18
Dissolved Sodium		mg/L	25.0	24.9	100	90 - 110	2003-06-18

Standard (CCV-2) QC Batch: 2372

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Dissolved Calcium		mg/L	25.0	24.1	96	90 - 110	2003-06-18
Dissolved Potassium		mg/L	25.0	24.1	96	90 - 110	2003-06-18
Dissolved Magnesium		mg/L	25.0	22.7	91	90 - 110	2003-06-18
Dissolved Sodium		mg/L	25.0	23.8	95	90 - 110	2003-06-18

Summary Report

Darrell Moore
Navajo Refining
501 E. Main
Artesia, NM 88210

Report Date: Not Approved

Work Order: 3061106

Project Location: Artesia
Project Name: Reverse Osmosis Reject Water
Quarterly:

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
9457	RO Reject	water	2003-06-10	10:00	2003-06-11

Sample: 9457 - RO Reject

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1.00
Bicarbonate Alkalinity		602	mg/L as CaCo3	4.00
Total Alkalinity		602	mg/L as CaCo3	4.00
Dissolved Calcium		555	mg/L	0.500
Dissolved Potassium		4.59	mg/L	0.500
Dissolved Magnesium		176	mg/L	0.500
Dissolved Sodium		53.3	mg/L	0.500
Total Mercury		<0.000200	mg/L	0.000200
Chloride		45.0	mg/L	0.500
Fluoride		3.29	mg/L	0.200
Nitrate-N		2.44	mg/L	0.200
Sulfate		1480	mg/L	0.500
Total Silver		<0.0125	mg/L	0.0125
Total Aluminum		<0.100	mg/L	0.100
Total Arsenic		<0.0100	mg/L	0.0100
Total Boron		0.0970	mg/L	0.00500
Total Barium		0.0850	mg/L	0.0100
Total Beryllium		<0.00250	mg/L	0.00250
Total Cadmium		<0.00500	mg/L	0.00500
Total Cobalt		<0.0200	mg/L	0.0200
Total Chromium		<0.0100	mg/L	0.0100
Total Copper		<0.0250	mg/L	0.0250
Total Iron		0.0910	mg/L	0.0500
Total Manganese		<0.0250	mg/L	0.0250
Total Molybdenum		<0.0500	mg/L	0.0500
Total Nickel		<0.0250	mg/L	0.0250
Total Lead		0.483	mg/L	0.0100
Total Selenium		<0.0100	mg/L	0.0100
Total Uranium		0.0200	mg/L	0.0200
Total Vanadium		<0.0250	mg/L	0.0250

continued ...

sample 9457 continued ...

Param	Flag	Result	Units	RL
Total Zinc		<0.0250	mg/L	0.0250

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El Paso, Texas 79932
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

Company Name: Navajo Phone #: 505748-3311
Address: 501 E. Main Fax #: 505-746-5421

Contact Person: Darrell Moore

Invoice to: (If different from above)

Project #: RO REJECT
Project Name: RO REJECT

Project Location: Artesia
Sampler Signature: [Signature]

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX				PRESERVATIVE METHOD				SAMPLING			
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE	TIME
9457	RO REJECT	1	1 L	X						X				6/10/03	1000
	11 11	1	1 second	X				X						6/10/03	1000

Relinquished by: [Signature] Date: 6/10/03 Time: 1615
Received by: _____ Date: _____ Time: _____

Relinquished by: _____ Date: _____ Time: _____
Received by: _____ Date: _____ Time: _____

Relinquished by: _____ Date: _____ Time: _____
Received at Laboratory by: [Signature] Date: 6/11/03 Time: 9:57

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 3061106

ANALYSIS REQUEST

(Circle or Specify Method No.)

<input type="checkbox"/>	MTBE 8021B/602
<input type="checkbox"/>	BTEX 8021B/602
<input type="checkbox"/>	TPH 418, 1/TX1005
<input type="checkbox"/>	PAH 8270C
<input type="checkbox"/>	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/2007
<input type="checkbox"/>	TCLP Volatiles
<input type="checkbox"/>	TCLP Semi Volatiles
<input type="checkbox"/>	TCLP Pesticides
<input type="checkbox"/>	RCI
<input type="checkbox"/>	GC/MS Vol. 8260B/624
<input type="checkbox"/>	GC/MS Semi. Vol. 8270C/625
<input type="checkbox"/>	PCB's 8082/608
<input type="checkbox"/>	Pesticides 8081A/608
<input type="checkbox"/>	BOD, TSS, pH

Turn Around Time if different from standard _____

See List

REMARKS:

LAB USE ONLY
Intact Y N
Headspace Y N
Temp Y N
Log Review Y N

Check if Special Reporting Limits Are Needed

RT 6/24/03

Carrier # Feed # 7914-0656-4545

Submital of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

ORIGINAL COPY



e-Lab, Inc.

10450 Stancliff Rd, Suite 210 Houston, Texas 77099-4338 281-530-5656 Fax 281-530-51

July 17, 2003

Jeff Byrd
Navajo Refining Company
P.O. Box 159
Artesia, New Mexico 88211

Tel: (505) 746-5468
Fax: (505) 746-5421

Re: Ponds

Work Order : **0306262**

Dear Jeff Byrd,

e-Lab, Inc. received 4 samples on 6/26/2003 8:30:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by e-Lab, Inc. and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by e-Lab Inc. The total number of pages in this report is 34.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Lora Terrill

Electronically approved by: Lora Terrill

Lora Terrill
VP Lab Operations

CLIENT: Navajo Refining Company
Project: Ponds
Work Order: 0306262

Work Order Sample Summary

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
0306262-01	MW-1	Water		6/25/2003 11:30	6/26/2003 08:30	<input type="checkbox"/>
0306262-02	MW-3	Water		6/25/2003 09:45	6/26/2003 08:30	<input type="checkbox"/>
0306262-03	MW-5	Water		6/25/2003 10:15	6/26/2003 08:30	<input type="checkbox"/>
0306262-04	MW-7	Water		6/25/2003 10:45	6/26/2003 08:30	<input type="checkbox"/>

CLIENT: Navajo Refining Company
 Work Order: 0306262
 Project: Ponds
 Lab ID: 0306262-01

Client Sample ID: MW-1
 Collection Date: 6/25/2003 11:30:00 AM
 Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL						
				SW7470	Prep Date: 7/1/2003	Analyst: JCJ
Mercury	ND	0.000200		mg/L	1	7/2/2003 2:56:21 PM
ICP METALS, TOTAL						
				SW6020	Prep Date: 7/7/2003	Analyst: ALR
Aluminum	0.211	0.0200		mg/L	2	7/12/2003 1:10:00 AM
Arsenic	0.00584	0.00500		mg/L	1	7/10/2003 7:17:00 PM
Barium	0.0178	0.00500		mg/L	1	7/8/2003 10:58:00 PM
Beryllium	ND	0.00200		mg/L	1	7/12/2003 1:19:00 AM
Boron	0.369	0.0400		mg/L	2	7/12/2003 1:10:00 AM
Cadmium	ND	0.00100		mg/L	1	7/8/2003 10:58:00 PM
Calcium	719	50.0		mg/L	100	7/12/2003 7:15:00 PM
Chromium	0.195	0.00400		mg/L	2	7/12/2003 1:10:00 AM
Cobalt	0.00348	0.00200		mg/L	1	7/8/2003 10:58:00 PM
Copper	0.0129	0.00200		mg/L	1	7/8/2003 10:58:00 PM
Iron	7.52	0.200		mg/L	1	7/12/2003 1:19:00 AM
Lead	ND	0.00500		mg/L	1	7/8/2003 10:58:00 PM
Magnesium	363	4.00		mg/L	20	7/12/2003 7:24:00 PM
Manganese	2.75	0.100		mg/L	20	7/11/2003 11:08:00 PM
Nickel	0.0583	0.00500		mg/L	1	7/12/2003 1:19:00 AM
Potassium	4.40	0.200		mg/L	1	7/12/2003 1:19:00 AM
Selenium	ND	0.00500		mg/L	1	7/8/2003 10:58:00 PM
Silver	ND	0.00500		mg/L	1	7/8/2003 10:58:00 PM
Sodium	1,450	20.0		mg/L	100	7/14/2003 12:13:00 PM
Vanadium	ND	0.00500		mg/L	1	7/8/2003 10:58:00 PM
Zinc	0.0211	0.00500		mg/L	1	7/8/2003 10:58:00 PM
SEMIVOLATILE ORGANICS BY GC/MS						
				SW8270	Prep Date: 6/26/2003	Analyst: HV
1,2,4-Trichlorobenzene	ND	10		µg/L	1	7/2/2003 1:49:00 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	7/2/2003 1:49:00 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	7/2/2003 1:49:00 PM
2-Methylnaphthalene	ND	10		µg/L	1	7/2/2003 1:49:00 PM
2-Methylphenol	ND	10		µg/L	1	7/2/2003 1:49:00 PM
2-Nitroaniline	ND	10		µg/L	1	7/2/2003 1:49:00 PM
2-Nitrophenol	ND	10		µg/L	1	7/2/2003 1:49:00 PM
3-Nitroaniline	ND	10		µg/L	1	7/2/2003 1:49:00 PM
4-Methylphenol	ND	10		µg/L	1	7/2/2003 1:49:00 PM
4-Nitroaniline	ND	10		µg/L	1	7/2/2003 1:49:00 PM
4-Nitrophenol	ND	10		µg/L	1	7/2/2003 1:49:00 PM
Acenaphthene	ND	10		µg/L	1	7/2/2003 1:49:00 PM
Acenaphthylene	ND	10		µg/L	1	7/2/2003 1:49:00 PM
Aniline	ND	10		µg/L	1	7/2/2003 1:49:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits
 J - Analyte detected below quantitation limits P - Dual Column results percent difference > 40%
 B - Analyte detected in the associated Method Blank E - Value above quantitation range
 * - Value exceeds Maximum Contaminant Level H - Analyzed outside of Hold Time

CLIENT: Navajo Refining Company
 Work Order: 0306262
 Project: Ponds
 Lab ID: 0306262-01

Client Sample ID: MW-1
 Collection Date: 6/25/2003 11:30:00 AM
 Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Anthracene	ND	10		µg/L	1	7/2/2003 1:49:00 PM
Benz(a)anthracene	ND	10		µg/L	1	7/2/2003 1:49:00 PM
Benzidine	ND	10		µg/L	1	7/2/2003 1:49:00 PM
Hexachloroethane	ND	10		µg/L	1	7/2/2003 1:49:00 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	7/2/2003 1:49:00 PM
Isophorone	ND	10		µg/L	1	7/2/2003 1:49:00 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	7/2/2003 1:49:00 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	7/2/2003 1:49:00 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	7/2/2003 1:49:00 PM
Naphthalene	ND	10		µg/L	1	7/2/2003 1:49:00 PM
Nitrobenzene	ND	10		µg/L	1	7/2/2003 1:49:00 PM
Pentachlorophenol	ND	10		µg/L	1	7/2/2003 1:49:00 PM
Phenanthrene	ND	10		µg/L	1	7/2/2003 1:49:00 PM
Phenol	ND	10		µg/L	1	7/2/2003 1:49:00 PM
Pyrene	ND	10		µg/L	1	7/2/2003 1:49:00 PM
Surr: 2,4,6-Tribromophenol	109	10-123		%REC	1	7/2/2003 1:49:00 PM
Surr: 2-Fluorobiphenyl	96.6	43-116		%REC	1	7/2/2003 1:49:00 PM
Surr: 2-Fluorophenol	45.1	21-100		%REC	1	7/2/2003 1:49:00 PM
Surr: 4-Terphenyl-d14	121	33-141		%REC	1	7/2/2003 1:49:00 PM
Surr: Nitrobenzene-d5	53.1	35-114		%REC	1	7/2/2003 1:49:00 PM
Surr: Phenol-d6	27.3	10-94		%REC	1	7/2/2003 1:49:00 PM
VOLATILES BY GC/MS		SW8260			Analyst: PC	
Benzene	ND	5.0		µg/L	1	7/2/2003 9:19:00 PM
Ethylbenzene	ND	5.0		µg/L	1	7/2/2003 9:19:00 PM
Methyl tert-butyl ether	ND	5.0		µg/L	1	7/2/2003 9:19:00 PM
Toluene	ND	5.0		µg/L	1	7/2/2003 9:19:00 PM
Xylenes, Total	ND	15		µg/L	1	7/2/2003 9:19:00 PM
Surr: 1,2-Dichloroethane-d4	98.2	70-130		%REC	1	7/2/2003 9:19:00 PM
Surr: 4-Bromofluorobenzene	105	70-130		%REC	1	7/2/2003 9:19:00 PM
Surr: Dibromofluoromethane	101	70-130		%REC	1	7/2/2003 9:19:00 PM
Surr: Toluene-d8	99.8	70-130		%REC	1	7/2/2003 9:19:00 PM
ANIONS BY ION CHROMATOGRAPHY		E300			Analyst: MG	
Chloride	2,040	50.0		mg/L	100	7/4/2003 6:08:00 AM
Fluoride	1.22	0.200		mg/L	2	7/4/2003 5:36:00 AM
Sulfate	2,750	100		mg/L	100	7/4/2003 6:08:00 AM
Surr: Dichloroacetic acid (surr)	114	80-120		%REC	2	7/4/2003 5:36:00 AM
Surr: Dichloroacetic acid (surr)	114	80-120		%REC	100	7/4/2003 6:08:00 AM
ALKALINITY		E310.1			Analyst: LMD	
Alkalinity, Bicarbonate (As CaCO3)	280	5.00		mg/L	1	7/5/2003

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits
 J - Analyte detected below quantitation limits P - Dual Column results percent difference > 40%
 B - Analyte detected in the associated Method Blank E - Value above quantitation range
 * - Value exceeds Maximum Contaminant Level H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: July 14, 2003

CLIENT: Navajo Refining Company
Work Order: 0306262
Project: Ponds
Lab ID: 0306262-01

Client Sample ID: MW-1
Collection Date: 6/25/2003 11:30:00 AM
Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Alkalinity, Carbonate (As CaCO3)	ND	5.00		mg/L	1	7/5/2003
Alkalinity, Hydroxide (As CaCO3)	ND	5.00		mg/L	1	7/5/2003
Alkalinity, Total (As CaCO3)	280	5.00		mg/L	1	7/5/2003
CYANIDE, TOTAL			E335.3			Analyst: LMD
Cyanide	ND	0.0200		mg/L	1	6/28/2003

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

CLIENT: Navajo Refining Company
 Work Order: 0306262
 Project: Ponds
 Lab ID: 0306262-02

Client Sample ID: MW-3
 Collection Date: 6/25/2003 9:45:00 AM
 Matrix: WATER

Analyses	Result	Report Limit	Qual Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL					
			SW7470	Prep Date: 7/1/2003	Analyst: JCJ
Mercury	ND	0.000200	mg/L	1	7/2/2003 2:57:52 PM
ICP METALS, TOTAL					
			SW6020	Prep Date: 7/7/2003	Analyst: ALR
Aluminum	0.0527	0.0100	mg/L	1	7/13/2003 12:58:00 AM
Arsenic	0.0535	0.00500	mg/L	1	7/8/2003 11:26:00 PM
Barium	0.0145	0.00500	mg/L	1	7/8/2003 11:26:00 PM
Beryllium	ND	0.00200	mg/L	1	7/13/2003 12:58:00 AM
Boron	0.710	0.100	mg/L	5	7/11/2003 11:47:00 PM
Cadmium	ND	0.00100	mg/L	1	7/8/2003 11:26:00 PM
Calcium	479	25.0	mg/L	50	7/11/2003 11:16:00 PM
Chromium	0.00237	0.00200	mg/L	1	7/8/2003 11:26:00 PM
Cobalt	0.00344	0.00200	mg/L	1	7/8/2003 11:26:00 PM
Copper	0.00580	0.00200	mg/L	1	7/8/2003 11:26:00 PM
Iron	3.79	0.200	mg/L	1	7/8/2003 11:26:00 PM
Lead	ND	0.00500	mg/L	1	7/8/2003 11:26:00 PM
Magnesium	172	4.00	mg/L	20	7/12/2003 7:37:00 PM
Manganese	2.30	0.100	mg/L	20	7/11/2003 11:21:00 PM
Nickel	0.0147	0.00500	mg/L	1	7/13/2003 12:58:00 AM
Potassium	5.06	0.200	mg/L	1	7/13/2003 12:58:00 AM
Selenium	ND	0.00500	mg/L	1	7/8/2003 11:26:00 PM
Silver	ND	0.00500	mg/L	1	7/8/2003 11:26:00 PM
Sodium	938	20.0	mg/L	100	7/14/2003 12:22:00 PM
Vanadium	ND	0.00500	mg/L	1	7/8/2003 11:26:00 PM
Zinc	0.0118	0.00500	mg/L	1	7/8/2003 11:26:00 PM
SEMIVOLATILE ORGANICS BY GC/MS					
			SW8270	Prep Date: 6/26/2003	Analyst: HV
1,2,4-Trichlorobenzene	ND	10	µg/L	1	7/2/2003 2:17:00 PM
2,4,5-Trichlorophenol	ND	10	µg/L	1	7/2/2003 2:17:00 PM
2,4,6-Trichlorophenol	ND	10	µg/L	1	7/2/2003 2:17:00 PM
2-Methylnaphthalene	ND	10	µg/L	1	7/2/2003 2:17:00 PM
2-Methylphenol	ND	10	µg/L	1	7/2/2003 2:17:00 PM
2-Nitroaniline	ND	10	µg/L	1	7/2/2003 2:17:00 PM
2-Nitrophenol	ND	10	µg/L	1	7/2/2003 2:17:00 PM
3-Nitroaniline	ND	10	µg/L	1	7/2/2003 2:17:00 PM
4-Methylphenol	ND	10	µg/L	1	7/2/2003 2:17:00 PM
4-Nitroaniline	ND	10	µg/L	1	7/2/2003 2:17:00 PM
4-Nitrophenol	ND	10	µg/L	1	7/2/2003 2:17:00 PM
Acenaphthene	ND	10	µg/L	1	7/2/2003 2:17:00 PM
Acenaphthylene	ND	10	µg/L	1	7/2/2003 2:17:00 PM
Aniline	ND	10	µg/L	1	7/2/2003 2:17:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: July 14, 2003

CLIENT: Navajo Refining Company
Work Order: 0306262
Project: Ponds
Lab ID: 0306262-02

Client Sample ID: MW-3
Collection Date: 6/25/2003 9:45:00 AM
Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Anthracene	ND	10		µg/L	1	7/2/2003 2:17:00 PM
Benz(a)anthracene	ND	10		µg/L	1	7/2/2003 2:17:00 PM
Benzidine	ND	10		µg/L	1	7/2/2003 2:17:00 PM
Hexachloroethane	ND	10		µg/L	1	7/2/2003 2:17:00 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	7/2/2003 2:17:00 PM
Isophorone	ND	10		µg/L	1	7/2/2003 2:17:00 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	7/2/2003 2:17:00 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	7/2/2003 2:17:00 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	7/2/2003 2:17:00 PM
Naphthalene	ND	10		µg/L	1	7/2/2003 2:17:00 PM
Nitrobenzene	ND	10		µg/L	1	7/2/2003 2:17:00 PM
Pentachlorophenol	ND	10		µg/L	1	7/2/2003 2:17:00 PM
Phenanthrene	ND	10		µg/L	1	7/2/2003 2:17:00 PM
Phenol	ND	10		µg/L	1	7/2/2003 2:17:00 PM
Pyrene	ND	10		µg/L	1	7/2/2003 2:17:00 PM
Surr: 2,4,6-Tribromophenol	111	10-123		%REC	1	7/2/2003 2:17:00 PM
Surr: 2-Fluorobiphenyl	102	43-116		%REC	1	7/2/2003 2:17:00 PM
Surr: 2-Fluorophenol	46.0	21-100		%REC	1	7/2/2003 2:17:00 PM
Surr: 4-Terphenyl-d14	117	33-141		%REC	1	7/2/2003 2:17:00 PM
Surr: Nitrobenzene-d5	55.3	35-114		%REC	1	7/2/2003 2:17:00 PM
Surr: Phenol-d6	27.0	10-94		%REC	1	7/2/2003 2:17:00 PM
VOLATILES BY GC/MS		SW8260		Analyst: PC		
Benzene	ND	5.0		µg/L	1	7/2/2003 9:46:00 PM
Ethylbenzene	ND	5.0		µg/L	1	7/2/2003 9:46:00 PM
Methyl tert-butyl ether	ND	5.0		µg/L	1	7/2/2003 9:46:00 PM
Toluene	ND	5.0		µg/L	1	7/2/2003 9:46:00 PM
Xylenes, Total	ND	15		µg/L	1	7/2/2003 9:46:00 PM
Surr: 1,2-Dichloroethane-d4	96.3	70-130		%REC	1	7/2/2003 9:46:00 PM
Surr: 4-Bromofluorobenzene	99.1	70-130		%REC	1	7/2/2003 9:46:00 PM
Surr: Dibromofluoromethane	96.8	70-130		%REC	1	7/2/2003 9:46:00 PM
Surr: Toluene-d8	94.3	70-130		%REC	1	7/2/2003 9:46:00 PM
ANIONS BY ION CHROMATOGRAPHY		E300		Analyst: MG		
Chloride	1,020	50.0		mg/L	100	7/4/2003 7:13:00 AM
Fluoride	2.22	0.200		mg/L	2	7/4/2003 6:41:00 AM
Sulfate	1,990	100		mg/L	100	7/4/2003 7:13:00 AM
Surr: Dichloroacetic acid (surr)	106	80-120		%REC	2	7/4/2003 6:41:00 AM
Surr: Dichloroacetic acid (surr)	114	80-120		%REC	100	7/4/2003 7:13:00 AM
ALKALINITY		E310.1		Analyst: LMD		
Alkalinity, Bicarbonate (As CaCO3)	275	5.00		mg/L	1	7/5/2003

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: July 14, 2003

CLIENT: Navajo Refining Company
Work Order: 0306262
Project: Ponds
Lab ID: 0306262-02

Client Sample ID: MW-3
Collection Date: 6/25/2003 9:45:00 AM
Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Alkalinity, Carbonate (As CaCO3)	ND	5.00		mg/L	1	7/5/2003
Alkalinity, Hydroxide (As CaCO3)	ND	5.00		mg/L	1	7/5/2003
Alkalinity, Total (As CaCO3)	275	5.00		mg/L	1	7/5/2003
CYANIDE, TOTAL			E335.3			Analyst: LMD
Cyanide	ND	0.0200		mg/L	1	6/28/2003

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time

AR Page 6 of 12

CLIENT: Navajo Refining Company
 Work Order: 0306262
 Project: Ponds
 Lab ID: 0306262-03

Client Sample ID: MW-5
 Collection Date: 6/25/2003 10:15:00 AM
 Matrix: WATER

Analyses	Result	Report Limit	Qual Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL					
			SW7470	Prep Date: 7/1/2003	Analyst: JCJ
Mercury	ND	0.000200	mg/L	1	7/2/2003 2:59:24 PM
ICP METALS, TOTAL					
			SW6020	Prep Date: 7/7/2003	Analyst: ALR
Aluminum	0.716	0.0500	mg/L	5	7/12/2003 1:05:00 AM
Arsenic	0.0412	0.00500	mg/L	1	7/8/2003 11:31:00 PM
Barium	0.0158	0.00500	mg/L	1	7/8/2003 11:31:00 PM
Beryllium	ND	0.00200	mg/L	1	7/13/2003 1:03:00 AM
Boron	1.93	0.200	mg/L	10	7/11/2003 11:29:00 PM
Cadmium	ND	0.00100	mg/L	1	7/8/2003 11:31:00 PM
Calcium	508	25.0	mg/L	50	7/11/2003 11:25:00 PM
Chromium	0.0141	0.00200	mg/L	1	7/8/2003 11:31:00 PM
Cobalt	0.00211	0.00200	mg/L	1	7/8/2003 11:31:00 PM
Copper	0.0219	0.00200	mg/L	1	7/8/2003 11:31:00 PM
Iron	6.14	0.200	mg/L	1	7/8/2003 11:31:00 PM
Lead	ND	0.00500	mg/L	1	7/8/2003 11:31:00 PM
Magnesium	1,110	100	mg/L	500	7/12/2003 7:41:00 PM
Manganese	1.82	0.0500	mg/L	10	7/11/2003 11:29:00 PM
Nickel	0.0359	0.00500	mg/L	1	7/13/2003 1:03:00 AM
Potassium	4.61	0.200	mg/L	1	7/13/2003 1:03:00 AM
Selenium	ND	0.00500	mg/L	1	7/8/2003 11:31:00 PM
Silver	ND	0.00500	mg/L	1	7/8/2003 11:31:00 PM
Sodium	5,050	100	mg/L	500	7/14/2003 12:26:00 PM
Vanadium	ND	0.00500	mg/L	1	7/8/2003 11:31:00 PM
Zinc	0.0512	0.00500	mg/L	1	7/8/2003 11:31:00 PM
SEMIVOLATILE ORGANICS BY GC/MS					
			SW8270	Prep Date: 6/26/2003	Analyst: HV
1,2,4-Trichlorobenzene	ND	10	µg/L	1	7/2/2003 2:45:00 PM
2,4,5-Trichlorophenol	ND	10	µg/L	1	7/2/2003 2:45:00 PM
2,4,6-Trichlorophenol	ND	10	µg/L	1	7/2/2003 2:45:00 PM
2-Methylnaphthalene	ND	10	µg/L	1	7/2/2003 2:45:00 PM
2-Methylphenol	ND	10	µg/L	1	7/2/2003 2:45:00 PM
2-Nitroaniline	ND	10	µg/L	1	7/2/2003 2:45:00 PM
2-Nitrophenol	ND	10	µg/L	1	7/2/2003 2:45:00 PM
3-Nitroaniline	ND	10	µg/L	1	7/2/2003 2:45:00 PM
4-Methylphenol	ND	10	µg/L	1	7/2/2003 2:45:00 PM
4-Nitroaniline	ND	10	µg/L	1	7/2/2003 2:45:00 PM
4-Nitrophenol	ND	10	µg/L	1	7/2/2003 2:45:00 PM
Acenaphthene	ND	10	µg/L	1	7/2/2003 2:45:00 PM
Acenaphthylene	ND	10	µg/L	1	7/2/2003 2:45:00 PM
Aniline	ND	10	µg/L	1	7/2/2003 2:45:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time

CLIENT: Navajo Refining Company
 Work Order: 0306262
 Project: Ponds
 Lab ID: 0306262-03

Client Sample ID: MW-5
 Collection Date: 6/25/2003 10:15:00 AM
 Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Anthracene	ND	10		µg/L	1	7/2/2003 2:45:00 PM
Benz(a)anthracene	ND	10		µg/L	1	7/2/2003 2:45:00 PM
Benzidine	ND	10		µg/L	1	7/2/2003 2:45:00 PM
Hexachloroethane	ND	10		µg/L	1	7/2/2003 2:45:00 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	7/2/2003 2:45:00 PM
Isophorone	ND	10		µg/L	1	7/2/2003 2:45:00 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	7/2/2003 2:45:00 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	7/2/2003 2:45:00 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	7/2/2003 2:45:00 PM
Naphthalene	ND	10		µg/L	1	7/2/2003 2:45:00 PM
Nitrobenzene	ND	10		µg/L	1	7/2/2003 2:45:00 PM
Pentachlorophenol	ND	10		µg/L	1	7/2/2003 2:45:00 PM
Phenanthrene	ND	10		µg/L	1	7/2/2003 2:45:00 PM
Phenol	ND	10		µg/L	1	7/2/2003 2:45:00 PM
Pyrene	ND	10		µg/L	1	7/2/2003 2:45:00 PM
Surr: 2,4,6-Tribromophenol	111	10-123		%REC	1	7/2/2003 2:45:00 PM
Surr: 2-Fluorobiphenyl	95.5	43-116		%REC	1	7/2/2003 2:45:00 PM
Surr: 2-Fluorophenol	45.0	21-100		%REC	1	7/2/2003 2:45:00 PM
Surr: 4-Terphenyl-d14	111	33-141		%REC	1	7/2/2003 2:45:00 PM
Surr: Nitrobenzene-d5	51.2	35-114		%REC	1	7/2/2003 2:45:00 PM
Surr: Phenol-d6	27.9	10-94		%REC	1	7/2/2003 2:45:00 PM
VOLATILES BY GC/MS						
SW8260						Analyst: PC
Benzene	ND	5.0		µg/L	1	7/2/2003 10:13:00 PM
Ethylbenzene	ND	5.0		µg/L	1	7/2/2003 10:13:00 PM
Methyl tert-butyl ether	ND	5.0		µg/L	1	7/2/2003 10:13:00 PM
Toluene	ND	5.0		µg/L	1	7/2/2003 10:13:00 PM
Xylenes, Total	ND	15		µg/L	1	7/2/2003 10:13:00 PM
Surr: 1,2-Dichloroethane-d4	89.7	70-130		%REC	1	7/2/2003 10:13:00 PM
Surr: 4-Bromofluorobenzene	85.6	70-130		%REC	1	7/2/2003 10:13:00 PM
Surr: Dibromofluoromethane	90.9	70-130		%REC	1	7/2/2003 10:13:00 PM
Surr: Toluene-d8	94.6	70-130		%REC	1	7/2/2003 10:13:00 PM
ANIONS BY ION CHROMATOGRAPHY						
E300						Analyst: MG
Chloride	4,780	125		mg/L	250	7/4/2003 8:51:00 AM
Fluoride	5.00	1.00		mg/L	10	7/2/2003 8:32:00 PM
Sulfate	8,980	250		mg/L	250	7/4/2003 8:51:00 AM
Surr: Dichloroacetic acid (surr)	117	80-120		%REC	10	7/2/2003 8:32:00 PM
Surr: Dichloroacetic acid (surr)	116	80-120		%REC	250	7/4/2003 8:51:00 AM
ALKALINITY						
E310.1						Analyst: LMD
Alkalinity, Bicarbonate (As CaCO3)	418	5.00		mg/L	1	7/5/2003

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits
 J - Analyte detected below quantitation limits P - Dual Column results percent difference > 40%
 B - Analyte detected in the associated Method Blank E - Value above quantitation range
 * - Value exceeds Maximum Contaminant Level H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: July 14, 2003

CLIENT: Navajo Refining Company
Work Order: 0306262
Project: Ponds
Lab ID: 0306262-03

Client Sample ID: MW-5
Collection Date: 6/25/2003 10:15:00 AM
Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Alkalinity, Carbonate (As CaCO3)	ND	5.00		mg/L	1	7/5/2003
Alkalinity, Hydroxide (As CaCO3)	ND	5.00		mg/L	1	7/5/2003
Alkalinity, Total (As CaCO3)	418	5.00		mg/L	1	7/5/2003
CYANIDE, TOTAL			E335.3			Analyst: LMD
Cyanide	ND	0.0200		mg/L	1	6/28/2003

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level
 S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time

CLIENT: Navajo Refining Company
 Work Order: 0306262
 Project: Ponds
 Lab ID: 0306262-04

Client Sample ID: MW-7
 Collection Date: 6/25/2003 10:45:00 AM
 Matrix: WATER

Analyses	Result	Report Limit	Qual Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL		SW7470		Prep Date: 7/1/2003	Analyst: JCJ
Mercury	ND	0.000200	mg/L	1	7/2/2003 3:00:56 PM
ICP METALS, TOTAL		SW6020		Prep Date: 7/7/2003	Analyst: ALR
Aluminum	0.0446	0.0100	mg/L	1	7/13/2003 1:08:00 AM
Arsenic	0.0329	0.00500	mg/L	1	7/8/2003 11:36:00 PM
Barium	0.0151	0.00500	mg/L	1	7/8/2003 11:36:00 PM
Beryllium	ND	0.00200	mg/L	1	7/13/2003 1:08:00 AM
Boron	1.01	0.200	mg/L	10	7/11/2003 11:43:00 PM
Cadmium	ND	0.00100	mg/L	1	7/8/2003 11:36:00 PM
Calcium	383	25.0	mg/L	50	7/11/2003 11:34:00 PM
Chromium	0.0137	0.00200	mg/L	1	7/8/2003 11:36:00 PM
Cobalt	0.00239	0.00200	mg/L	1	7/8/2003 11:36:00 PM
Copper	0.00940	0.00200	mg/L	1	7/8/2003 11:36:00 PM
Iron	8.60	0.200	mg/L	1	7/8/2003 11:36:00 PM
Lead	ND	0.00500	mg/L	1	7/8/2003 11:36:00 PM
Magnesium	328	4.00	mg/L	20	7/12/2003 7:54:00 PM
Manganese	0.502	0.0500	mg/L	10	7/11/2003 11:43:00 PM
Nickel	0.0158	0.00500	mg/L	1	7/13/2003 1:08:00 AM
Potassium	4.06	0.200	mg/L	1	7/13/2003 1:08:00 AM
Selenium	ND	0.00500	mg/L	1	7/8/2003 11:36:00 PM
Silver	ND	0.00500	mg/L	1	7/8/2003 11:36:00 PM
Sodium	2,510	40.0	mg/L	200	7/14/2003 12:30:00 PM
Vanadium	ND	0.00500	mg/L	1	7/8/2003 11:36:00 PM
Zinc	0.0212	0.00500	mg/L	1	7/8/2003 11:36:00 PM
SEMIVOLATILE ORGANICS BY GC/MS		SW8270		Prep Date: 6/26/2003	Analyst: HV
1,2,4-Trichlorobenzene	ND	10	µg/L	1	7/2/2003 3:13:00 PM
2,4,5-Trichlorophenol	ND	10	µg/L	1	7/2/2003 3:13:00 PM
2,4,6-Trichlorophenol	ND	10	µg/L	1	7/2/2003 3:13:00 PM
2-Methylnaphthalene	ND	10	µg/L	1	7/2/2003 3:13:00 PM
2-Methylphenol	ND	10	µg/L	1	7/2/2003 3:13:00 PM
2-Nitroaniline	ND	10	µg/L	1	7/2/2003 3:13:00 PM
2-Nitrophenol	ND	10	µg/L	1	7/2/2003 3:13:00 PM
3-Nitroaniline	ND	10	µg/L	1	7/2/2003 3:13:00 PM
4-Methylphenol	ND	10	µg/L	1	7/2/2003 3:13:00 PM
4-Nitroaniline	ND	10	µg/L	1	7/2/2003 3:13:00 PM
4-Nitrophenol	ND	10	µg/L	1	7/2/2003 3:13:00 PM
Acenaphthene	ND	10	µg/L	1	7/2/2003 3:13:00 PM
Acenaphthylene	ND	10	µg/L	1	7/2/2003 3:13:00 PM
Aniline	ND	10	µg/L	1	7/2/2003 3:13:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time

CLIENT: Navajo Refining Company
 Work Order: 0306262
 Project: Ponds
 Lab ID: 0306262-04

Client Sample ID: MW-7
 Collection Date: 6/25/2003 10:45:00 AM
 Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Anthracene	ND	10		µg/L	1	7/2/2003 3:13:00 PM
Benz(a)anthracene	ND	10		µg/L	1	7/2/2003 3:13:00 PM
Benzidine	ND	10		µg/L	1	7/2/2003 3:13:00 PM
Hexachloroethane	ND	10		µg/L	1	7/2/2003 3:13:00 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	7/2/2003 3:13:00 PM
Isophorone	ND	10		µg/L	1	7/2/2003 3:13:00 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	7/2/2003 3:13:00 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	7/2/2003 3:13:00 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	7/2/2003 3:13:00 PM
Naphthalene	ND	10		µg/L	1	7/2/2003 3:13:00 PM
Nitrobenzene	ND	10		µg/L	1	7/2/2003 3:13:00 PM
Pentachlorophenol	ND	10		µg/L	1	7/2/2003 3:13:00 PM
Phenanthrene	ND	10		µg/L	1	7/2/2003 3:13:00 PM
Phenol	ND	10		µg/L	1	7/2/2003 3:13:00 PM
Pyrene	ND	10		µg/L	1	7/2/2003 3:13:00 PM
Surr: 2,4,6-Tribromophenol	115	10-123		%REC	1	7/2/2003 3:13:00 PM
Surr: 2-Fluorobiphenyl	103	43-116		%REC	1	7/2/2003 3:13:00 PM
Surr: 2-Fluorophenol	50.5	21-100		%REC	1	7/2/2003 3:13:00 PM
Surr: 4-Terphenyl-d14	123	33-141		%REC	1	7/2/2003 3:13:00 PM
Surr: Nitrobenzene-d5	57.6	35-114		%REC	1	7/2/2003 3:13:00 PM
Surr: Phenol-d6	30.8	10-94		%REC	1	7/2/2003 3:13:00 PM
VOLATILES BY GC/MS		SW8260			Analyst: PC	
Benzene	ND	5.0		µg/L	1	7/2/2003 10:40:00 PM
Ethylbenzene	ND	5.0		µg/L	1	7/2/2003 10:40:00 PM
Methyl tert-butyl ether	ND	5.0		µg/L	1	7/2/2003 10:40:00 PM
Toluene	ND	5.0		µg/L	1	7/2/2003 10:40:00 PM
Xylenes, Total	ND	15		µg/L	1	7/2/2003 10:40:00 PM
Surr: 1,2-Dichloroethane-d4	88.5	70-130		%REC	1	7/2/2003 10:40:00 PM
Surr: 4-Bromofluorobenzene	97.3	70-130		%REC	1	7/2/2003 10:40:00 PM
Surr: Dibromofluoromethane	89.9	70-130		%REC	1	7/2/2003 10:40:00 PM
Surr: Toluene-d8	93.7	70-130		%REC	1	7/2/2003 10:40:00 PM
ANIONS BY ION CHROMATOGRAPHY		E300			Analyst: MG	
Chloride	2,490	50.0		mg/L	100	7/4/2003 11:01:00 AM
Fluoride	1.70	1.00		mg/L	10	7/2/2003 9:37:00 PM
Sulfate	3,210	100		mg/L	100	7/4/2003 11:01:00 AM
Surr: Dichloroacetic acid (surr)	115	80-120		%REC	10	7/2/2003 9:37:00 PM
Surr: Dichloroacetic acid (surr)	117	80-120		%REC	100	7/4/2003 11:01:00 AM
ALKALINITY		E310.1			Analyst: LMD	
Alkalinity, Bicarbonate (As CaCO3)	270	5.00		mg/L	1	7/5/2003

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: July 14, 2003

CLIENT: Navajo Refining Company
Work Order: 0306262
Project: Ponds
Lab ID: 0306262-04

Client Sample ID: MW-7
Collection Date: 6/25/2003 10:45:00 AM
Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Alkalinity, Carbonate (As CaCO3)	ND	5.00		mg/L	1	7/5/2003
Alkalinity, Hydroxide (As CaCO3)	ND	5.00		mg/L	1	7/5/2003
Alkalinity, Total (As CaCO3)	270	5.00		mg/L	1	7/5/2003
CYANIDE, TOTAL			E335.3			Analyst: LMD
Cyanide	ND	0.0200		mg/L	1	6/28/2003

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time

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e-Lab, Inc.

CLIENT: Navajo Refining Company
 Work Order: 0306262
 Project: Ponds

QC BATCH REPORT

Batch ID: 6042 InstrumentID: Mercury

MBLK	Sample ID	GBLKW1-070103		Test Code:	SW7470	Units:	mg/L	Analysis Date	07/02/03 14:28	
Client ID:	Run ID:	MERCURY_030702A		SeqNo:	340291	Prep Date	7/1/2003	DF:	1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.00020								

LCS	Sample ID	GLCSW1-070103		Test Code:	SW7470	Units:	mg/L	Analysis Date	07/02/03 14:34	
Client ID:	Run ID:	MERCURY_030702A		SeqNo:	340292	Prep Date	7/1/2003	DF:	1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00487	0.00020	0.005	0	97.4	80-120		0		

MS	Sample ID	0306213-17CMS		Test Code:	SW7470	Units:	mg/L	Analysis Date	07/02/03 14:42	
Client ID:	Run ID:	MERCURY_030702A		SeqNo:	340295	Prep Date	7/1/2003	DF:	1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00494	0.00020	0.005	0.000055	97.7	80-120		0		

MSD	Sample ID	0306213-17CMSD		Test Code:	SW7470	Units:	mg/L	Analysis Date	07/02/03 14:44	
Client ID:	Run ID:	MERCURY_030702A		SeqNo:	340296	Prep Date	7/1/2003	DF:	1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00506	0.00020	0.005	0.000055	100	80-120	0.00494	2.4	20	

DUP	Sample ID	0306213-17CDUP		Test Code:	SW7470	Units:	mg/L	Analysis Date	07/02/03 14:41	
Client ID:	Run ID:	MERCURY_030702A		SeqNo:	340294	Prep Date	7/1/2003	DF:	1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.000055	0.00020	0	0	0	0-0	0.000055	0	20	J

The following samples were analyzed in this batch:

0306262-01B	0306262-02B	0306262-03B
0306262-04B		

ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 O - Referenced analyte value is > 4 times amount spiked
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 B - Analyte detected in assoc. Method Blank
 U - Analyzed for but not detected
 E - Value above quantitation range

QC Page: 1 of 17

CLIENT: Navajo Refining Company
 Work Order: 0306262
 Project: Ponds

QC BATCH REPORT

Batch ID: 6066 InstrumentID: 6020

MBLK Sample ID MBLKW1-070703 Test Code: SW6020 Units: mg/L Analysis Date 07/07/03 10:12
 Client ID: Run ID: 6020_030707A SeqNo: 341965 Prep Date 7/7/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.0050								
Barium	ND	0.0050								
Beryllium	ND	0.0020								
Boron	ND	0.020								
Cadmium	ND	0.0010								
Calcium	0.1097	0.50								J
Chromium	ND	0.0020								
Cobalt	ND	0.0020								
Copper	ND	0.0020								
Iron	ND	0.20								
Lead	ND	0.0050								
Manganese	ND	0.0050								
Nickel	0.0007048	0.0050								J
Potassium	ND	0.20								
Selenium	ND	0.0050								
Silver	ND	0.0050								
Vanadium	ND	0.0050								
Zinc	ND	0.0050								

MBLK Sample ID MBLKW1-070703 Test Code: SW6020 Units: mg/L Analysis Date 07/08/03 1:40
 Client ID: Run ID: 6020_030707B SeqNo: 342319 Prep Date 7/7/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.003502	0.010								J
Magnesium	ND	0.20								
Sodium	ND	0.20								

ND - Not Detected at the Reporting Limit
 - Analyte detected below quantitation limits
 O - Referenced analyte value is > 4 times amount spiked
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 B - Analyte detected in assoc. Method Blank
 U - Analyzed for but not detected
 E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0306262
 Project: Ponds

QC BATCH REPORT

Batch ID: 6066 InstrumentID: 6020

LCS		Sample ID	MLCSW1-070703			Test Code:	SW6020	Units:	mg/L	Analysis Date			07/07/03 10:25
Client ID:		Run ID:	6020_030707A			SeqNo:	341968	Prep Date	7/7/2003	DF:			1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			
Arsenic	0.1042	0.0050	0.1	0	104	80-120	0						
Barium	0.09836	0.0050	0.1	0	98.4	80-120	0						
Beryllium	0.1029	0.0020	0.1	0	103	80-120	0						
Boron	0.5045	0.020	0.5	0	101	80-120	0						
Cadmium	0.1007	0.0010	0.1	0	101	80-120	0						
Calcium	10.66	0.50	10	0	107	80-120	0						
Chromium	0.1021	0.0020	0.1	0	102	80-120	0						
Cobalt	0.1038	0.0020	0.1	0	104	80-120	0						
Copper	0.1047	0.0020	0.1	0	105	80-120	0						
Iron	10.22	0.20	10	0	102	80-120	0						
Lead	0.1022	0.0050	0.1	0	102	80-120	0						
Manganese	0.1005	0.0050	0.1	0	100	80-120	0						
Nickel	0.1037	0.0050	0.1	0	104	80-120	0						
Potassium	10.87	0.20	10	0	109	80-120	0						
Selenium	0.1052	0.0050	0.1	0	105	80-120	0						
Silver	0.1041	0.0050	0.1	0	104	80-120	0						
Vanadium	0.1023	0.0050	0.1	0	102	80-120	0						
Zinc	0.1062	0.0050	0.1	0	106	80-120	0						

LCS		Sample ID	MLCSW1-070703			Test Code:	SW6020	Units:	mg/L	Analysis Date			07/08/03 1:44
Client ID:		Run ID:	6020_030707B			SeqNo:	342320	Prep Date	7/7/2003	DF:			1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			
Aluminum	0.1083	0.010	0.1	0	108	80-120	0						
Magnesium	10.82	0.20	10	0	108	80-120	0						
Sodium	10.4	0.20	10	0	104	80-120	0						

ND - Not Detected at the Reporting Limit
 - Analyte detected below quantitation limits
 O - Referenced analyte value is > 4 times amount spiked
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 B - Analyte detected in assoc. Method Blank
 U - Analyzed for but not detected
 E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0306262
 Project: Ponds

QC BATCH REPORT

Batch ID: 6066 InstrumentID: 6020

MS		Sample ID	0306262-01BMS			Test Code:	SW6020		Units:	mg/L		Analysis Date	07/08/03 23:07	
Client ID:		MW-1	Run ID:	6020_030708A		SeqNo:	342972		Prep Date	7/7/2003		DF:	1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				
Barium	0.1214	0.0050	0.1	0.01784	104	75-125	0							
Cadmium	0.07659	0.0010	0.1	0.00006537	76.5	75-125	0							
Chromium	0.2817	0.0020	0.1	0.194	87.7	75-125	0							
Cobalt	0.09333	0.0020	0.1	0.00348	89.8	75-125	0							
Copper	0.09267	0.0020	0.1	0.01294	79.7	75-125	0							
Iron	14.2	0.20	10	5.388	88.1	75-125	0							
Lead	0.1116	0.0050	0.1	0.001949	110	75-125	0							
Manganese	2.109	0.0050	0.1	2.095	14	75-125	0				SEO			
Selenium	0.08344	0.0050	0.1	0.004318	79.1	75-125	0							
Silver	0.07715	0.0050	0.1	0.00004076	77.1	75-125	0							
Vanadium	0.1073	0.0050	0.1	0.001671	106	75-125	0							
Zinc	0.085	0.0050	0.1	0.02113	63.9	75-125	0				S			

MS		Sample ID	0306262-01BMS			Test Code:	SW6020		Units:	mg/L		Analysis Date	07/10/03 19:27	
Client ID:		MW-1	Run ID:	6020_030710A		SeqNo:	343827		Prep Date	7/7/2003		DF:	1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				
Arsenic	0.0913	0.0050	0.1	0.005839	85.5	75-125	0							

MS		Sample ID	0306262-01BMS			Test Code:	SW6020		Units:	mg/L		Analysis Date	07/15/03 1:07	
Client ID:		MW-1	Run ID:	6020_030714A		SeqNo:	345379		Prep Date	7/7/2003		DF:	100	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				
Calcium	665.7	50	10	769.7	-1040	75-125	0				SO			
Magnesium	308.5	20	10	363.2	-547	75-125	0				SO			
Sodium	1146	20	10	1394	-2480	75-125	0				SO			

MS		Sample ID	0306262-01BMS			Test Code:	SW6020		Units:	mg/L		Analysis Date	07/15/03 1:33	
Client ID:		MW-1	Run ID:	6020_030714A		SeqNo:	345385		Prep Date	7/7/2003		DF:	1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				
Aluminum	0.779	0.010	0.1	0.4673	312	75-125	0				SEO			
Nickel	0.1364	0.0050	0.1	0.05544	81	75-125	0							
Potassium	13.76	0.20	10	4.304	94.6	75-125	0							

MS		Sample ID	0306262-01BMS			Test Code:	SW6020		Units:	mg/L		Analysis Date	07/15/03 20:47	
Client ID:		MW-1	Run ID:	6020_030715A		SeqNo:	345617		Prep Date	7/7/2003		DF:	1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				
Beryllium	0.09386	0.0020	0.1	0	93.9	75-125	0							
Boron	0.8377	0.020	0.5	0.3303	101	75-125	0							

ND - Not Detected at the Reporting Limit
 - Analyte detected below quantitation limits
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 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 B - Analyte detected in assoc. Method Blank
 U - Analyzed for but not detected
 E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0306262
 Project: Ponds

QC BATCH REPORT

Batch ID: 6066 InstrumentID: 6020

MSD		Sample ID 0306262-01BMSD			Test Code: SW6020		Units: mg/L		Analysis Date 07/08/03 23:12		
Client ID: MW-1		Run ID: 6020_030708A			SeqNo: 342973		Prep Date 7/7/2003		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Barium	0.119	0.0050	0.1	0.01784	101	75-125	0.1214	2	25		
Cadmium	0.07486	0.0010	0.1	0.00006537	74.8	75-125	0.07659	2.28	25	S	
Chromium	0.2916	0.0020	0.1	0.194	97.6	75-125	0.2817	3.45	25		
Cobalt	0.09322	0.0020	0.1	0.00348	89.7	75-125	0.09333	0.118	25		
Copper	0.1012	0.0020	0.1	0.01294	88.3	75-125	0.09267	8.8	25		
Iron	14.61	0.20	10	5.388	92.2	75-125	14.2	2.85	25		
Lead	0.1103	0.0050	0.1	0.001949	108	75-125	0.1116	1.17	25		
Manganese	2.161	0.0050	0.1	2.095	66	75-125	2.109	2.44	25	SEO	
Selenium	0.07901	0.0050	0.1	0.004318	74.7	75-125	0.08344	5.45	25	S	
Silver	0.07557	0.0050	0.1	0.00004076	75.5	75-125	0.07715	2.07	25		
Vanadium	0.108	0.0050	0.1	0.001671	106	75-125	0.1073	0.65	25		
Zinc	0.08545	0.0050	0.1	0.02113	64.3	75-125	0.085	0.528	25	S	

MSD		Sample ID 0306262-01BMSD			Test Code: SW6020		Units: mg/L		Analysis Date 07/10/03 19:32		
Client ID: MW-1		Run ID: 6020_030710A			SeqNo: 343828		Prep Date 7/7/2003		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	0.08755	0.0050	0.1	0.005839	81.7	75-125	0.0913	4.19	25		

MSD		Sample ID 0306262-01BMSD			Test Code: SW6020		Units: mg/L		Analysis Date 07/15/03 1:11		
Client ID: MW-1		Run ID: 6020_030714A			SeqNo: 345380		Prep Date 7/7/2003		DF: 100		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Calcium	645.3	50	10	769.7	-1240	75-125	665.7	3.11	25	SO	
Magnesium	303.9	20	10	363.2	-593	75-125	308.5	1.5	25	SO	
Sodium	1176	20	10	1394	-2180	75-125	1146	2.58	25	SO	

MSD		Sample ID 0306262-01BMSD			Test Code: SW6020		Units: mg/L		Analysis Date 07/15/03 1:38		
Client ID: MW-1		Run ID: 6020_030714A			SeqNo: 345386		Prep Date 7/7/2003		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Aluminum	0.8511	0.010	0.1	0.4673	384	75-125	0.779	8.85	25	SEO	
Nickel	0.1395	0.0050	0.1	0.05544	84.1	75-125	0.1364	2.25	25		
Potassium	13.88	0.20	10	4.304	95.8	75-125	13.76	0.868	25		

MSD		Sample ID 0306262-01BMSD			Test Code: SW6020		Units: mg/L		Analysis Date 07/15/03 20:51		
Client ID: MW-1		Run ID: 6020_030715A			SeqNo: 345618		Prep Date 7/7/2003		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Beryllium	0.09324	0.0020	0.1	0	93.2	75-125	0.09386	0.663	25		
Boron	0.8401	0.020	0.5	0.3303	102	75-125	0.8377	0.286	25		

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 P - Dual Column results percent difference > 40%
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 U - Analyzed for but not detected
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CLIENT: Navajo Refining Company
 Work Order: 0306262
 Project: Ponds

QC BATCH REPORT

Batch ID: 6066 InstrumentID: 6020

DUP Sample ID 0306262-01BDUP Test Code: SW6020 Units: mg/L Analysis Date 07/08/03 23:03
 Client ID: MW-1 Run ID: 6020_030708A SeqNo: 342971 Prep Date 7/7/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Barium	0.01748	0.0050	0	0	0	0-0	0.01784	2.04	25	
Cadmium	ND	0.0010	0	0	0	0-0	0.00006537	0	25	
Cobalt	0.003438	0.0020	0	0	0	0-0	0.00348	1.21	25	
Copper	0.01316	0.0020	0	0	0	0-0	0.01294	1.69	25	
Lead	0.001857	0.0050	0	0	0	0-0	0.001949	0	25	J
Selenium	0.005208	0.0050	0	0	0	0-0	0.004318	18.7	25	
Silver	ND	0.0050	0	0	0	0-0	0.00004076	0	25	
Vanadium	0.002062	0.0050	0	0	0	0-0	0.001671	0	25	J
Zinc	0.02204	0.0050	0	0	0	0-0	0.02113	4.22	25	

DUP Sample ID 0306262-01BDUP Test Code: SW6020 Units: mg/L Analysis Date 07/10/03 19:22
 Client ID: MW-1 Run ID: 6020_030710A SeqNo: 343826 Prep Date 7/7/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.005297	0.0050	0	0	0	0-0	0.005839	9.73	25	

DUP Sample ID 0306262-01BDUP Test Code: SW6020 Units: mg/L Analysis Date 07/11/03 23:12
 Client ID: MW-1 Run ID: 6020_030711A SeqNo: 344423 Prep Date 7/7/2003 DF: 20

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Manganese	2.577	0.10	0	0	0	0-0	2.754	6.64	25	

DUP Sample ID 0306262-01BDUP Test Code: SW6020 Units: mg/L Analysis Date 07/12/03 1:14
 Client ID: MW-1 Run ID: 6020_030711A SeqNo: 344443 Prep Date 7/7/2003 DF: 2

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.2139	0.020	0	0	0	0-0	0.2106	1.55	25	
Boron	0.3578	0.040	0	0	0	0-0	0.3689	3.05	25	
Chromium	0.1983	0.0040	0	0	0	0-0	0.1952	1.58	25	

DUP Sample ID 0306262-01BDUP Test Code: SW6020 Units: mg/L Analysis Date 07/12/03 1:24
 Client ID: MW-1 Run ID: 6020_030711A SeqNo: 344445 Prep Date 7/7/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Beryllium	ND	0.0020	0	0	0	0-0	0.00006611	0	25	
Iron	7.832	0.20	0	0	0	0-0	7.523	4.02	25	
Nickel	0.0587	0.0050	0	0	0	0-0	0.05831	0.667	25	
Potassium	4.477	0.20	0	0	0	0-0	4.403	1.67	25	

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CLIENT: Navajo Refining Company
 Work Order: 0306262
 Project: Ponds

QC BATCH REPORT

Batch ID: 6066 InstrumentID: 6020

DUP		Sample ID	0306262-01BDUP			Test Code:	SW6020		Units:	mg/L		Analysis Date	07/12/03 19:19	
Client ID:	MW-1	Run ID:	6020_030712A			SeqNo:	344572		Prep Date	7/7/2003		DF:	100	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				
Calcium	725.7	50	0	0	0	0-0	719	0.928	25					

DUP		Sample ID	0306262-01BDUP			Test Code:	SW6020		Units:	mg/L		Analysis Date	07/12/03 19:28	
Client ID:	MW-1	Run ID:	6020_030712A			SeqNo:	344574		Prep Date	7/7/2003		DF:	20	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				
Magnesium	340.7	4.0	0	0	0	0-0	363.2	6.39	25					

DUP		Sample ID	0306262-01BDUP			Test Code:	SW6020		Units:	mg/L		Analysis Date	07/14/03 12:17	
Client ID:	MW-1	Run ID:	6020_030714A			SeqNo:	344954		Prep Date	7/7/2003		DF:	100	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				
Sodium	1494	20	0	0	0	0-0	1453	2.78	25					

The following samples were analyzed in this batch:

0306262-01B	0306262-02B	0306262-03B
0306262-04B		

ND - Not Detected at the Reporting Limit
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 E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0306262
 Project: Ponds

QC BATCH REPORT

Batch ID: 5998 InstrumentID: SV-2

MBLK Sample ID SBLKW1-030626 Test Code: SW8270 Units: µg/L Analysis Date 07/10/03 15:41
 Client ID: Run ID: SV-2_030627A SeqNo: 344194 Prep Date 6/26/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	ND	10								
2,4,5-Trichlorophenol	ND	10								
2,4,6-Trichlorophenol	ND	10								
2-Methylnaphthalene	ND	10								
2-Methylphenol	ND	10								
2-Nitroaniline	ND	10								
2-Nitrophenol	ND	10								
3-Nitroaniline	ND	10								
4-Methylphenol	ND	10								
4-Nitroaniline	ND	10								
4-Nitrophenol	ND	10								
Acenaphthene	ND	10								
Acenaphthylene	ND	10								
Aniline	ND	10								
Anthracene	ND	10								
Benz(a)anthracene	ND	10								
Benzidine	ND	10								
Hexachloroethane	ND	10								
Indeno(1,2,3-cd)pyrene	ND	10								
Isophorone	ND	10								
N-Nitrosodi-n-propylamine	ND	10								
N-Nitrosodimethylamine	ND	10								
N-Nitrosodiphenylamine	ND	10								
Naphthalene	ND	10								
Nitrobenzene	ND	10								
Pentachlorophenol	ND	10								
Phenanthrene	ND	10								
Phenol	ND	10								
Pyrene	ND	10								
1,4-Dichlorobenzene-d4	40	0								
Acenaphthene-d10	40	0								
Chrysene-d12	40	0								
Naphthalene-d8	40	0								
Perylene-d12	40	0								
Phenanthrene-d10	40	0								
Surr: 2,4,6-Tribromophenol	97.54	0	100	0	97.5	10-123		0		
Surr: 2-Fluorobiphenyl	91.43	0	100	0	91.4	43-116		0		
Surr: 2-Fluorophenol	73.4	0	100	0	73.4	21-100		0		
Surr: 4-Terphenyl-d14	109.2	0	100	0	109	33-141		0		
Surr: Nitrobenzene-d5	89.8	0	100	0	89.8	35-114		0		
Surr: Phenol-d6	53.85	0	100	0	53.8	10-94		0		

ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in assoc. Method Blank
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits U - Analyzed for but not detected
 O - Referenced analyte value is > 4 times amount spiked P - Dual Column results percent difference > 40% E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0306262
 Project: Ponds

QC BATCH REPORT

Batch ID: 5998 InstrumentID: SV-2

LCS Sample ID SLCSW1-030626 Test Code: SW8270 Units: µg/L Analysis Date 06/27/03 20:50

Client ID: Run ID: SV-2_030627A SeqNo: 339257 Prep Date 6/26/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	44.03	10	50	0	88.1	51-110	0			
2,4,5-Trichlorophenol	89.02	10	100	0	89	55-130	0			
2,4,6-Trichlorophenol	88.69	10	100	0	88.7	55-130	0			
2-Methylnaphthalene	42.66	10	50	0	85.3	50-125	0			
2-Methylphenol	71.1	10	100	0	71.1	45-120	0			
2-Nitroaniline	48.63	10	50	0	97.3	55-130	0			
2-Nitrophenol	89.08	10	100	0	89.1	55-125	0			
3-Nitroaniline	40.38	10	50	0	80.8	55-120	0			
4-Methylphenol	98.33	10	150	0	65.6	40-120	0			
4-Nitroaniline	43.68	10	50	0	87.4	60-130	0			
4-Nitrophenol	48.41	10	100	0	48.4	25-100	0			
Acenaphthene	45.91	10	50	0	91.8	50-120	0			
Acenaphthylene	45.28	10	50	0	90.6	55-130	0			
Anthracene	47.17	10	50	0	94.3	60-130	0			
Benz(a)anthracene	45.44	10	50	0	90.9	60-130	0			
Benzidine	12.41	10	50	0	24.8	10-85	0			
Hexachloroethane	43.55	10	50	0	87.1	40-120	0			
Indeno(1,2,3-cd)pyrene	44.24	10	50	0	88.5	60-130	0			
Isophorone	44.25	10	50	0	88.5	60-130	0			
N-Nitrosodi-n-propylamine	42.12	10	50	0	84.2	55-120	0			
N-Nitrosodimethylamine	26.27	10	50	0	52.5	35-110	0			
N-Nitrosodiphenylamine	53.55	10	50	0	107	60-130	0			
Naphthalene	43.9	10	50	0	87.8	55-130	0			
Nitrobenzene	43.86	10	50	0	87.7	60-130	0			
Pentachlorophenol	107.7	10	100	0	108	45-125	0			
Phenanthrene	45.6	10	50	0	91.2	60-130	0			
Phenol	39.1	10	100	0	39.1	20-100	0			
Pyrene	43.94	10	50	0	87.9	45-120	0			
Surr: 2,4,6-Tribromophenol	99.3	0	100	0	99.3	10-123	0			
Surr: 2-Fluorobiphenyl	89.68	0	100	0	89.7	43-116	0			
Surr: 2-Fluorophenol	59.58	0	100	0	59.6	21-100	0			
Surr: 4-Terphenyl-d14	93.01	0	100	0	93	33-141	0			
Surr: Nitrobenzene-d5	95.66	0	100	0	95.7	35-114	0			
Surr: Phenol-d6	39.52	0	100	0	39.5	10-94	0			

ND - Not Detected at the Reporting Limit

- Analyte detected below quantitation limits

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S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0306262
 Project: Ponds

QC BATCH REPORT

Batch ID: 5998 InstrumentID: SV-2

LCSD Sample ID SLCSDW1-030626 Test Code: SW8270 Units: µg/L Analysis Date 06/27/03 21:21
 Client ID: Run ID: SV-2_030627A SeqNo: 339258 Prep Date 6/26/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	39.25	10	50	0	78.5	51-110	44.03	11.5	30	
2,4,5-Trichlorophenol	91.29	10	100	0	91.3	55-130	89.02	2.52	30	
2,4,6-Trichlorophenol	90.85	10	100	0	90.8	55-130	88.69	2.4	30	
2-Methylnaphthalene	42.65	10	50	0	85.3	50-125	42.66	0.024	30	
2-Methylphenol	76.98	10	100	0	77	45-120	71.1	7.95	30	
2-Nitroaniline	48.97	10	50	0	97.9	55-130	48.63	0.691	30	
2-Nitrophenol	91.55	10	100	0	91.5	55-125	89.08	2.74	30	
3-Nitroaniline	39.93	10	50	0	79.9	55-120	40.38	1.1	30	
4-Methylphenol	110.1	10	150	0	73.4	40-120	98.33	11.3	30	
4-Nitroaniline	44.69	10	50	0	89.4	60-130	43.68	2.29	30	
4-Nitrophenol	53.16	10	100	0	53.2	25-100	48.41	9.36	30	
Acenaphthene	45.8	10	50	0	91.6	50-120	45.91	0.218	30	
Acenaphthylene	45.4	10	50	0	90.8	55-130	45.28	0.271	30	
Anthracene	47.54	10	50	0	95.1	60-130	47.17	0.789	30	
Benz(a)anthracene	45.27	10	50	0	90.5	60-130	45.44	0.378	30	
Benzidine	12.96	10	50	0	25.9	10-85	12.41	4.37	30	
Hexachloroethane	37.19	10	50	0	74.4	40-120	43.55	15.8	30	
Indeno(1,2,3-cd)pyrene	45.23	10	50	0	90.5	60-130	44.24	2.23	30	
Isophorone	45.79	10	50	0	91.6	60-130	44.25	3.42	30	
N-Nitrosodi-n-propylamine	43.77	10	50	0	87.5	55-120	42.12	3.84	30	
N-Nitrosodimethylamine	30.34	10	50	0	60.7	35-110	26.27	14.4	30	
N-Nitrosodiphenylamine	55.51	10	50	0	111	60-130	53.55	3.6	30	
Naphthalene	43.13	10	50	0	86.3	55-130	43.9	1.78	30	
Nitrobenzene	44.32	10	50	0	88.6	60-130	43.86	1.03	30	
Pentachlorophenol	108	10	100	0	108	45-125	107.7	0.309	30	
Phenanthrene	45.8	10	50	0	91.6	60-130	45.6	0.43	30	
Phenol	45.71	10	100	0	45.7	20-100	39.1	15.6	30	
Pyrene	44.38	10	50	0	88.8	45-120	43.94	0.994	30	
Surr: 2,4,6-Tribromophenol	99.25	0	100	0	99.2	10-123	99.3	0.0511	30	
Surr: 2-Fluorobiphenyl	90.51	0	100	0	90.5	43-116	89.68	0.92	30	
Surr: 2-Fluorophenol	65.73	0	100	0	65.7	21-100	59.58	9.82	30	
Surr: 4-Terphenyl-d14	94.88	0	100	0	94.9	33-141	93.01	1.98	30	
Surr: Nitrobenzene-d5	94.55	0	100	0	94.6	35-114	95.66	1.17	30	
Surr: Phenol-d6	46.18	0	100	0	46.2	10-94	39.52	15.5	30	

The following samples were analyzed in this batch: 0306262-01F 0306262-02F 0306262-03F
 0306262-04F

ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in assoc. Method Blank
 - Analyte detected below quantitation limits R - RPD outside accepted recovery limits U - Analyzed for but not detected
 O - Referenced analyte value is > 4 times amount spiked P - Dual Column results percent difference > 40% E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0306262
 Project: Ponds

QC BATCH REPORT

Batch ID: R14980 InstrumentID: VOA_I

MBLK	Sample ID	Test Code: SW8260				Units: µg/L	Analysis Date 07/02/03 14:06				
Client ID:	Run ID:	VOA_I_030702A	SeqNo:	340392	Prep Date	DF:	1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	ND	5.0									
Ethylbenzene	ND	5.0									
Methyl tert-butyl ether	ND	5.0									
Toluene	ND	5.0									
Xylenes, Total	ND	15									
Surr: 1,2-Dichloroethane-d4	46.5	5.0	50	0	93	70-130	0				
Surr: 4-Bromofluorobenzene	44.04	5.0	50	0	88.1	70-130	0				
Surr: Dibromofluoromethane	48.23	5.0	50	0	96.5	70-130	0				
Surr: Toluene-d8	51.47	5.0	50	0	103	70-130	0				

LCS	Sample ID	Test Code: SW8260				Units: µg/L	Analysis Date 07/02/03 13:13				
Client ID:	Run ID:	VOA_I_030702A	SeqNo:	340390	Prep Date	DF:	1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	54.12	5.0	50	0	108	82-119	0				
Ethylbenzene	56.98	5.0	50	0	114	82-120	0				
Methyl tert-butyl ether	44.43	5.0	50	0	88.9	79-120	0				
Toluene	53.42	5.0	50	0	107	81-119	0				
Xylenes, Total	164.6	15	150	0	110	80-120	0				
Surr: 1,2-Dichloroethane-d4	46.44	5.0	50	0	92.9	70-130	0				
Surr: 4-Bromofluorobenzene	50.29	5.0	50	0	101	70-130	0				
Surr: Dibromofluoromethane	47.73	5.0	50	0	95.5	70-130	0				
Surr: Toluene-d8	53.46	5.0	50	0	107	70-130	0				

LCSD	Sample ID	Test Code: SW8260				Units: µg/L	Analysis Date 07/02/03 13:39				
Client ID:	Run ID:	VOA_I_030702A	SeqNo:	340391	Prep Date	DF:	1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	52.56	5.0	50	0	105	82-119	54.12	2.92	20		
Ethylbenzene	56.36	5.0	50	0	113	82-120	56.98	1.09	20		
Methyl tert-butyl ether	45.94	5.0	50	0	91.9	79-120	44.43	3.34	20		
Toluene	53.78	5.0	50	0	108	81-119	53.42	0.671	20		
Xylenes, Total	161.9	15	150	0	108	80-120	164.6	1.66	20		
Surr: 1,2-Dichloroethane-d4	45.9	5.0	50	0	91.8	70-130	46.44	1.18	20		
Surr: 4-Bromofluorobenzene	49.2	5.0	50	0	98.4	70-130	50.29	2.2	20		
Surr: Dibromofluoromethane	47.84	5.0	50	0	95.7	70-130	47.73	0.234	20		
Surr: Toluene-d8	53.44	5.0	50	0	107	70-130	53.46	0.0304	20		

ND - Not Detected at the Reporting Limit

- Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0306262
 Project: Ponds

QC BATCH REPORT

Batch ID: R14980 InstrumentID: VOA_I

MS		Sample ID	0306240-01AMS		Test Code:	SW8260	Units:	µg/L	Analysis Date	07/02/03 19:30	
Client ID:		Run ID:	VOA_I_030702A		SeqNo:	340898	Prep Date		DF:	1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	54.96	5.0	50	0	110	76-127		0			
Ethylbenzene	55.44	5.0	50	0	111	75-125		0			
Methyl tert-butyl ether	51.76	5.0	50	0	104	75-125		0			
Toluene	52.57	5.0	50	0	105	76-125		0			
Xylenes, Total	164.6	15	150	0	110	75-125		0			
Surr: 1,2-Dichloroethane-d4	48.46	5.0	50	0	96.9	70-130		0			
Surr: 4-Bromofluorobenzene	51.94	5.0	50	0	104	70-130		0			
Surr: Dibromofluoromethane	49.16	5.0	50	0	98.3	70-130		0			
Surr: Toluene-d8	51.7	5.0	50	0	103	70-130		0			

MSD		Sample ID	0306240-01AMSD		Test Code:	SW8260	Units:	µg/L	Analysis Date	07/02/03 19:57	
Client ID:		Run ID:	VOA_I_030702A		SeqNo:	340899	Prep Date		DF:	1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	61.84	5.0	50	0	124	76-127	54.96	11.8	20		
Ethylbenzene	63.52	5.0	50	0	127	75-125	55.44	13.6	20	S	
Methyl tert-butyl ether	53.85	5.0	50	0	108	75-125	51.76	3.96	20		
Toluene	58.87	5.0	50	0	118	76-125	52.57	11.3	20		
Xylenes, Total	179.8	15	150	0	120	75-125	164.6	8.81	20		
Surr: 1,2-Dichloroethane-d4	46.76	5.0	50	0	93.5	70-130	48.46	3.57	20		
Surr: 4-Bromofluorobenzene	50.45	5.0	50	0	101	70-130	51.94	2.91	20		
Surr: Dibromofluoromethane	48.57	5.0	50	0	97.1	70-130	49.16	1.21	20		
Surr: Toluene-d8	51.89	5.0	50	0	104	70-130	51.7	0.364	20		

The following samples were analyzed in this batch:

0306262-01A	0306262-02A	0306262-03A
0306262-04A		

ND - Not Detected at the Reporting Limit
 - Analyte detected below quantitation limits
 O - Referenced analyte value is > 4 times amount spiked
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 B - Analyte detected in assoc. Method Blank
 U - Analyzed for but not detected
 E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0306262
 Project: Ponds

QC BATCH REPORT

Batch ID: R14913 InstrumentID: UV-2101PC

MBLK	Sample ID	WMBW1-062803	Test Code:	E335.3	Units:	mg/L	Analysis Date	06/28/03 0:00		
Client ID:	Run ID:	UV-2101PC_030628A	SeqNo:	338730	Prep Date		DF:	1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide	ND	0.020								

LCS	Sample ID	WLCW1-062803	Test Code:	E335.3	Units:	mg/L	Analysis Date	06/28/03 0:00		
Client ID:	Run ID:	UV-2101PC_030628A	SeqNo:	338731	Prep Date		DF:	1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide	0.1835	0.020	0.2	0	91.8	80-120	0			

MS	Sample ID	0306268-03E MS	Test Code:	E335.3	Units:	mg/L	Analysis Date	06/28/03 0:00		
Client ID:	Run ID:	UV-2101PC_030628A	SeqNo:	338746	Prep Date		DF:	1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide	0.2101	0.020	0.2	-0.0006	105	75-125	0			

MSD	Sample ID	0306268-03E MSD	Test Code:	E335.3	Units:	mg/L	Analysis Date	06/28/03 0:00		
Client ID:	Run ID:	UV-2101PC_030628A	SeqNo:	338747	Prep Date		DF:	1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide	0.2017	0.020	0.2	-0.0006	101	75-125	0.2101	4.08	25	

DUP	Sample ID	0306268-03E DUP	Test Code:	E335.3	Units:	mg/L	Analysis Date	06/28/03 0:00		
Client ID:	Run ID:	UV-2101PC_030628A	SeqNo:	338745	Prep Date		DF:	1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide	ND	0.020	0	0	0	0-0	-0.0006	0	20	

The following samples were analyzed in this batch:

0306262-01E	0306262-02E	0306262-03E
0306262-04E		

ND - Not Detected at the Reporting Limit
 - Analyte detected below quantitation limits
 O - Referenced analyte value is > 4 times amount spiked
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 B - Analyte detected in assoc. Method Blank
 U - Analyzed for but not detected
 E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0306262
 Project: Ponds

QC BATCH REPORT

Batch ID: R15024 InstrumentID: Wet Chemistry

MBLK	Sample ID	WMBW1-070503	Test Code:	E310.1	Units:	mg/L	Analysis Date	07/05/03 0:00		
Client ID:	Run ID:	WET CHEMISTRY_0307	SeqNo:	341389	Prep Date	DF:	1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	ND	5.0								
Alkalinity, Carbonate (As CaCO3)	ND	5.0								
Alkalinity, Hydroxide (As CaCO3)	ND	5.0								
Alkalinity, Total (As CaCO3)	ND	5.0								

LCS	Sample ID	WLCSW1-070503	Test Code:	E310.1	Units:	mg/L	Analysis Date	07/05/03 0:00		
Client ID:	Run ID:	WET CHEMISTRY_0307	SeqNo:	341390	Prep Date	DF:	1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	1020	5.0	1000	0	102	80-120	0			

DUP	Sample ID	0306262-03C DUP	Test Code:	E310.1	Units:	mg/L	Analysis Date	07/05/03 0:00		
Client ID:	MW-5	Run ID:	WET CHEMISTRY_0307	SeqNo:	341399	Prep Date	DF:	1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	413.1	5.0	0	0	0	0-0	418.2	1.23	20	
Alkalinity, Carbonate (As CaCO3)	ND	5.0	0	0	0	0-0	0	0	20	
Alkalinity, Hydroxide (As CaCO3)	ND	5.0	0	0	0	0-0	0	0	20	
Alkalinity, Total (As CaCO3)	413.1	5.0	0	0	0	0-0	418.2	1.23	20	

The following samples were analyzed in this batch:

0306262-01C	0306262-02C	0306262-03C
0306262-04C		

ND - Not Detected at the Reporting Limit
 - Analyte detected below quantitation limits
 O - Referenced analyte value is > 4 times amount spiked
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 B - Analyte detected in assoc. Method Blank
 U - Analyzed for but not detected
 E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0306262
 Project: Ponds

QC BATCH REPORT

Batch ID: R15050 InstrumentID: IC201

MBLK Sample ID WBLKW1-070203 Test Code: E300 Units: mg/L Analysis Date 07/02/03 13:30

Client ID: Run ID: IC201_030702A SeqNo: 342085 Prep Date DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	ND	0.50								
Fluoride	ND	0.10								
Sulfate	ND	1.0								
Surr: Dichloroacetic acid (surr)	ND	0.10								

LCS Sample ID WLCSW1-070203 Test Code: E300 Units: mg/L Analysis Date 07/02/03 14:02

Client ID: Run ID: IC201_030702A SeqNo: 342086 Prep Date DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	10.19	0.50	10	0	102	80-120	0			
Fluoride	2.09	0.10	2	0	104	80-120	0			
Sulfate	11.04	1.0	10	0	110	80-120	0			
Surr: Dichloroacetic acid (surr)	1.68	0.10	2	0	84	80-120	0			

MS Sample ID 0307014-01CMS Test Code: E300 Units: mg/L Analysis Date 07/03/03 5:45

Client ID: Run ID: IC201_030702A SeqNo: 342105 Prep Date DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	24.54	0.50	10	14.05	105	75-125	0			
Fluoride	1.95	0.10	2	0	97.5	75-125	0			
Sulfate	13.87	1.0	10	4.04	98.3	75-125	0			
Surr: Dichloroacetic acid (surr)	5.74	0.10	5	0	115	80-120	0			

MSD Sample ID 0307014-01CMSD Test Code: E300 Units: mg/L Analysis Date 07/03/03 6:18

Client ID: Run ID: IC201_030702A SeqNo: 342106 Prep Date DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	25.01	0.50	10	14.05	110	75-125	24.54	1.9	20	
Fluoride	1.94	0.10	2	0	97	75-125	1.95	0.514	20	
Sulfate	13.78	1.0	10	4.04	97.4	75-125	13.87	0.651	20	
Surr: Dichloroacetic acid (surr)	5.79	0.10	5	0	116	80-120	5.74	0.867	20	

DUP Sample ID 0307014-01CDUP Test Code: E300 Units: mg/L Analysis Date 07/03/03 5:13

Client ID: Run ID: IC201_030702A SeqNo: 342104 Prep Date DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	14.02	0.50	0	0	0	0-0	14.05	0.214	20	
Fluoride	ND	0.10	0	0	0	0-0	0	0	20	
Sulfate	3.99	1.0	0	0	0	0-0	4.04	1.25	20	
Surr: Dichloroacetic acid (surr)	5.5	0.10	5	0	110	80-120	5.56	1.08	20	

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0306262
Project: Ponds

QC BATCH REPORT

Batch ID: R15050 InstrumentID: IC201

The following samples were analyzed in this batch: 0306262-03C 0306262-04C

ND - Not Detected at the Reporting Limit

- Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0306262
 Project: Ponds

QC BATCH REPORT

Batch ID: R15052 InstrumentID: IC201

MBLK		Sample ID	WBLKW1-070303			Test Code:	E300		Units:	mg/L		Analysis Date	07/03/03 22:33	
Client ID:		Run ID:	IC201_030703A			SeqNo:	342112		Prep Date			DF:	1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				
Chloride	ND	0.50												
Fluoride	ND	0.10												
Sulfate	ND	1.0												
Surr: Dichloroacetic acid (surr)	ND	0.10												

LCS		Sample ID	WLCSW1-070303			Test Code:	E300		Units:	mg/L		Analysis Date	07/03/03 23:05	
Client ID:		Run ID:	IC201_030703A			SeqNo:	342113		Prep Date			DF:	1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				
Chloride	10.25	0.50	10	0	102	80-120	0							
Fluoride	1.95	0.10	2	0	97.5	80-120	0							
Sulfate	11.19	1.0	10	0	112	80-120	0							
Surr: Dichloroacetic acid (surr)	1.88	0.10	2	0	94	80-120	0							

MS		Sample ID	0307017-02BMS			Test Code:	E300		Units:	mg/L		Analysis Date	07/04/03 0:43	
Client ID:		Run ID:	IC201_030703A			SeqNo:	342116		Prep Date			DF:	1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				
Chloride	9.71	0.50	10	0	97.1	75-125	0							
Fluoride	1.96	0.10	2	0	98	75-125	0							
Sulfate	10.62	1.0	10	0	106	75-125	0							
Surr: Dichloroacetic acid (surr)	5.15	0.10	5	0	103	80-120	0							

MSD		Sample ID	0307017-02BMSD			Test Code:	E300		Units:	mg/L		Analysis Date	07/04/03 1:15	
Client ID:		Run ID:	IC201_030703A			SeqNo:	342117		Prep Date			DF:	1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				
Chloride	9.69	0.50	10	0	96.9	75-125	9.71	0.206	20					
Fluoride	1.96	0.10	2	0	98	75-125	1.96	0	20					
Sulfate	10.61	1.0	10	0	106	75-125	10.62	0.0942	20					
Surr: Dichloroacetic acid (surr)	5.09	0.10	5	0	102	80-120	5.15	1.17	20					

DUP		Sample ID	0307017-02BDUP			Test Code:	E300		Units:	mg/L		Analysis Date	07/04/03 0:10	
Client ID:		Run ID:	IC201_030703A			SeqNo:	342115		Prep Date			DF:	1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				
Fluoride	ND	0.10	0	0	0	0-0	0	0	20					
Surr: Dichloroacetic acid (surr)	5.96	0.10	5	0	119	80-120	5.97	0.168	20					

The following samples were analyzed in this batch: 0306262-01C 0306262-02C 0306262-03C
 0306262-04C

ND - Not Detected at the Reporting Limit
 S - Spike Recovery outside accepted recovery limits
 B - Analyte detected in assoc. Method Blank
 - Analyte detected below quantitation limits
 R - RPD outside accepted recovery limits
 U - Analyzed for but not detected
 O - Referenced analyte value is > 4 times amount spiked
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range



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Chain of Custody Form

Page 1 of 1

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Customer Information				Project Information				e-Lab Project Manager: <u>0306737</u>											
Purchase Order:				Project Name:				Parameters/Method: <u>ReQuest for Analysis</u>											
Work Order:				Project Number:				A. BTEX & MTBE (8260)											
Company Name:				Bill To Company:				B. SVOCs (8270-please designate list)											
Send Report To:				Invoiced To:				C. WQCC Metals (6020-18 metals)											
Address:				Address:				D. WQCC Fluoride (300)											
P.O. Box 159				P.O. Box 159				E. WQCC Cyanide (335.3)											
City/State/Zip:				City/State/Zip:				F. Cations (Na,K,Ca, & Mg-6020)											
Phone:				Phone:				G. Anions (Fluoride, Chloride, Sulfate, Carbonate, & Bicarbonate)											
Fax:				Fax:				H. _____											
e-Mail Address:				Fax:				I. _____											
e-Mail Address:				Fax:				J. _____											
No.	Sample Description	Date	Time	Matrix	Pres	Temp	A	B	C	D	E	F	G	H	I	J	How		
1	MW-1	6/25/03	1130	L	Yes	8	X												
2	MW-3		0945				X												
3	MW-5		1015				X												
4	MW-7		1045				X												
5	OOD-1																		
6	OOD-3																		
7	OOD-5																		
8	OOD-7																		
9																			
10																			
Shipment Method: <u>FedEx</u> Required Turnaround Time (Check Box) <input type="checkbox"/> 5 Wk Days <input type="checkbox"/> 2 Wk Days <input type="checkbox"/> 1 Wk Days <input type="checkbox"/> Other _____ Resubmit Date Date: _____																			
Received by: <u>Byrd</u> Date: <u>6/25/03</u> Time: <u>1615</u> Received by: <u>2 Cookers</u> Date: _____ Time: _____																			
Registered by (Laboratory): <u>RICHARD SANCHEZ</u> 6-2603 (0830) Checked by (Laboratory): _____ e-Lab Cooler ID: _____ Cooler Temp: _____ QC Package: (Check Box) <input type="checkbox"/> Level II: Standard QC <input type="checkbox"/> Level III: Standard QC + Raw Data <input type="checkbox"/> Level IV: SW846 Methods/CLP <input type="checkbox"/> Other: _____																			
Registered by (Laboratory): _____ Checked by (Laboratory): _____ Preservative Key: 1- HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C Note: Any changes must be made in writing once samples are received. CCC Form have been submitted to e-Lab, Inc.																			

Sample Receipt Checklist

Client Name NAVAJO REFINING COMPAN

Date/Time Received: 6/26/2003 8:30:00 AM

Work Order Number 0306262

Received by: RSZ

Checklist completed by RICHARD SANCHEZ 6-26-03
Signature Date

Reviewed by LJ 6/27/03
Initials Date

Matrix: L

Carrier name FedEx

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No
- Temperature(s)/Thermometer(s): 2.8c 003
- Water - VOA vials have zero headspace? Yes No No VOA vials submitted
- Water - pH acceptable upon receipt? Yes No N/A

Adjusted? _____ Checked by _____

Login Notes:

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

0305262

NAVAJO REFINING COMPANY
507 E. MAIN STREET
ARTESIA NM 88210
5057483311

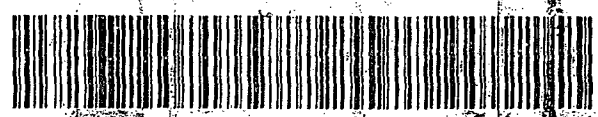
SHIP DATE: 25 JUN 2003
ACCOUNT #: 13684186
ACTUAL WGT: 56.00 LBS

AI # 156148-434 NRT 6:02



TO:
E-LAB
SAMPLE RECEIVING
10450 STANCLIFF ROAD STE 210
HOUSTON TX 77099

2815305656
BILL THIRD PARTY



Delivery Address Barcode

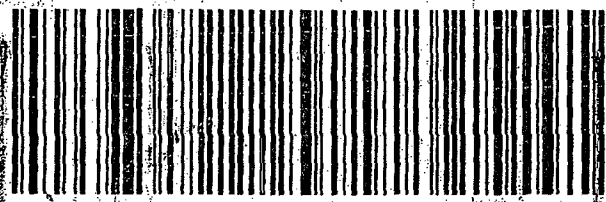
FedEx PRIORITY OVERNIGHT

THU

System # 2223500 25JUN2003
TRK# 7908 2208 7930 Form 0201

DELIVER BY:
26JUN2003
IAH A2

77099-TX-US A9 JGQA



OSUS v5.2.00 222300 2044 04/02

Invoice:	Track: 790822087030	Date: 06/25/2003	Shipping:	0.00
Customer: ELAB	Mode: FedEx Express Priority	Weight: 56.00	Special:	0.00
Dept: ENV		COB: 0.00	Handling:	0.00
		DV: 0.00	Total:	0.00



e-Lab, Inc.

10450 Stancliff Rd, Suite 210 Houston, Texas 77099-4338 281-530-5656 Fax 281-530-5

July 17, 2003

Jeff Byrd
Navajo Refining Company
P.O. Box 159
Artesia, New Mexico 88211

Tel: (505) 746-5468
Fax: (505) 746-5421

Re: Ponds

Work Order : **0306268**

Dear Jeff Byrd,

e-Lab, Inc. received 5 samples on 6/27/2003 9:00:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by e-Lab, Inc. and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by e-Lab Inc. The total number of pages in this report is 36.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Lora Terrill

Electronically approved by: Lora Terrill

Lora Terrill
VP Lab Operations

e-Lab, Inc.

Date: July 16, 2003

CLIENT: Navajo Refining Company
Project: Ponds
Work Order: 0306268

Work Order Sample Summary

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
0306268-01	OCD-1	Water		6/26/2003 09:30	6/27/2003 09:00	<input type="checkbox"/>
0306268-02	OCD-3	Water		6/26/2003 10:00	6/27/2003 09:00	<input type="checkbox"/>
0306268-03	OCD-5	Water		6/26/2003 10:30	6/27/2003 09:00	<input type="checkbox"/>
0306268-04	OCD-7	Water		6/26/2003 11:00	6/27/2003 09:00	<input type="checkbox"/>
0306268-05	Trip Blank	Water		6/26/2003	6/27/2003 09:00	<input type="checkbox"/>

e-Lab, Inc.

Date: July 16, 2003

CLIENT: Navajo Refining Company Client Sample ID: OCD-1
 Work Order: 0306268 Collection Date: 6/26/2003 9:30:00 AM
 Project: Ponds Matrix: WATER
 Lab ID: 0306268-01

Analyses	Result	MDL	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL		SW7470			Prep Date: 7/11/2003		Analyst: JCJ
Mercury	0.0000420	0.000042	0.000200	J	mg/L	1	7/2/2003
ICP METALS, TOTAL		SW6020			Prep Date: 7/9/2003		Analyst: ALR
Aluminum	0.703	0.0080	0.0500		mg/L	5	7/16/2003
Arsenic	0.112	0.0090	0.0250		mg/L	5	7/15/2003
Barium	0.0206	0.00060	0.00500		mg/L	1	7/14/2003
Beryllium	U	0.00030	0.00200		mg/L	1	7/14/2003
Boron	0.499	0.055	0.100		mg/L	5	7/15/2003
Cadmium	U	0.00015	0.00100		mg/L	1	7/14/2003
Calcium	617	4.0	25.0		mg/L	50	7/16/2003
Chromium	0.00166	0.00050	0.00200	J	mg/L	1	7/14/2003
Cobalt	0.00193	0.00010	0.00200	J	mg/L	1	7/14/2003
Copper	0.00460	0.00030	0.00200		mg/L	1	7/14/2003
Iron	13.3	0.12	1.00		mg/L	5	7/15/2003
Lead	0.00151	0.00020	0.00500	J	mg/L	1	7/14/2003
Magnesium	148	0.25	2.00		mg/L	10	7/15/2003
Manganese	2.88	0.020	0.100		mg/L	20	7/15/2003
Nickel	0.0172	0.00030	0.00500		mg/L	1	7/14/2003
Potassium	8.68	0.10	1.00		mg/L	5	7/15/2003
Selenium	0.0556	0.0085	0.0250		mg/L	5	7/15/2003
Silver	U	0.00020	0.00500		mg/L	1	7/14/2003
Sodium	2,580	3.2	20.0		mg/L	100	7/16/2003
Vanadium	0.00254	0.00040	0.00500	J	mg/L	1	7/14/2003
Zinc	0.0117	0.0015	0.00500		mg/L	1	7/14/2003
SEMIVOLATILE ORGANICS BY GC/MS		SW8270			Prep Date: 6/30/2003		Analyst: HV
1,2,4-Trichlorobenzene	U	0.83	10		µg/L	1	7/2/2003
2,4,5-Trichlorophenol	U	2.4	10		µg/L	1	7/2/2003
2,4,6-Trichlorophenol	U	2.7	10		µg/L	1	7/2/2003
2-Methylnaphthalene	U	0.86	10		µg/L	1	7/2/2003
2-Methylphenol	U	2.8	10		µg/L	1	7/2/2003
2-Nitroaniline	U	1.1	10		µg/L	1	7/2/2003
2-Nitrophenol	U	2.6	10		µg/L	1	7/2/2003
3-Nitroaniline	U	1.2	10		µg/L	1	7/2/2003
4-Methylphenol	U	4.6	10		µg/L	1	7/2/2003
4-Nitroaniline	U	0.95	10		µg/L	1	7/2/2003
4-Nitrophenol	U	2.7	10		µg/L	1	7/2/2003
Acenaphthene	U	1.1	10		µg/L	1	7/2/2003
Acenaphthylene	U	1.0	10		µg/L	1	7/2/2003
Aniline	U	10	10		µg/L	1	7/2/2003

Qualifiers U - Analyzed for but Not Detected S - Spike Recovery outside accepted recovery limits
 J - Analyte detected below quantitation limits P - Dual Column results percent difference > 40%
 B - Analyte detected in the associated Method Blank E - Value above quantitation range
 * - Value exceeds Maximum Contaminant Level H - Analyzed outside of Hold Time

CLIENT: Navajo Refining Company
 Work Order: 0306268
 Project: Ponds
 Lab ID: 0306268-01

Client Sample ID: OCD-1
 Collection Date: 6/26/2003 9:30:00 AM
 Matrix: WATER

Analyses	Result	MDL	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Anthracene	U	0.36	10		µg/L	1	7/2/2003
Benz(a)anthracene	U	0.77	10		µg/L	1	7/2/2003
Benzidine	U	0.34	10		µg/L	1	7/2/2003
Hexachloroethane	U	0.64	10		µg/L	1	7/2/2003
Indeno(1,2,3-cd)pyrene	U	0.77	10		µg/L	1	7/2/2003
Isophorone	U	1.2	10		µg/L	1	7/2/2003
N-Nitrosodi-n-propylamine	U	1.5	10		µg/L	1	7/2/2003
N-Nitrosodimethylamine	U	1.1	10		µg/L	1	7/2/2003
N-Nitrosodiphenylamine	U	1.3	10		µg/L	1	7/2/2003
Naphthalene	U	1.0	10		µg/L	1	7/2/2003
Nitrobenzene	U	1.7	10		µg/L	1	7/2/2003
Pentachlorophenol	U	1.5	10		µg/L	1	7/2/2003
Phenanthrene	U	1.2	10		µg/L	1	7/2/2003
Phenol	U	3.5	10		µg/L	1	7/2/2003
Pyrene	U	0.92	10		µg/L	1	7/2/2003
Surr: 2,4,6-Tribromophenol	119	0	10-123		%REC	1	7/2/2003
Surr: 2-Fluorobiphenyl	108	0	43-116		%REC	1	7/2/2003
Surr: 2-Fluorophenol	55.2	0	21-100		%REC	1	7/2/2003
Surr: 4-Terphenyl-d14	121	0	33-141		%REC	1	7/2/2003
Surr: Nitrobenzene-d5	63.2	0	35-114		%REC	1	7/2/2003
Surr: Phenol-d6	33.6	0	10-94		%REC	1	7/2/2003

VOLATILES BY GC/MS

SW8260

Prep Date:

Analyst: PC

Benzene	U	0.66	5.0		µg/L	1	7/4/2003
Ethylbenzene	U	0.77	5.0		µg/L	1	7/4/2003
Methyl tert-butyl ether	U	0.30	5.0		µg/L	1	7/4/2003
Toluene	U	0.69	5.0		µg/L	1	7/4/2003
Xylenes, Total	U	1.8	15		µg/L	1	7/4/2003
Surr: 1,2-Dichloroethane-d4	93.3	0	70-130		%REC	1	7/4/2003
Surr: 4-Bromofluorobenzene	99.1	0	70-130		%REC	1	7/4/2003
Surr: Dibromofluoromethane	93.8	0	70-130		%REC	1	7/4/2003
Surr: Toluene-d8	90.9	0	70-130		%REC	1	7/4/2003

ANIONS BY ION CHROMATOGRAPHY

E300

Prep Date:

Analyst: MG

Chloride	3,240	40.0	100		mg/L	200	7/4/2003
Fluoride	9.30	0.500	1.00		mg/L	10	7/2/2003
Sulfate	3,430	100	200		mg/L	200	7/4/2003
Surr: Dichloroacetic acid (surr)	118	0	80-120		%REC	10	7/2/2003
Surr: Dichloroacetic acid (surr)	115	0	80-120		%REC	200	7/4/2003

ALKALINITY

E310.1

Prep Date:

Analyst: LMD

Alkalinity, Bicarbonate (As CaCO3)	638	2.0	5.00		mg/L	1	7/7/2003
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Qualifiers

U - Analyzed for but Not Detected

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

P - Dual Column results percent difference > 40%

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

H - Analyzed outside of Hold Time

CLIENT: Navajo Refining Company
 Work Order: 0306268
 Project: Ponds
 Lab ID: 0306268-01

Client Sample ID: OCD-1
 Collection Date: 6/26/2003 9:30:00 AM
 Matrix: WATER

Analyses	Result	MDL	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Alkalinity, Carbonate (As CaCO3)	U	2.0	5.00		mg/L	1	7/7/2003
Alkalinity, Hydroxide (As CaCO3)	U	2.0	5.00		mg/L	1	7/7/2003
Alkalinity, Total (As CaCO3)	638	2.0	5.00		mg/L	1	7/7/2003
CYANIDE, TOTAL			E335.3				
Cyanide	U	0.0030	0.0200		mg/L	1	6/28/2003

Qualifiers

- U - Analyzed for but Not Detected
- J - Analyte detected below quantitation limits
- B - Analyte detected in the associated Method Blank
- * - Value exceeds Maximum Contaminant Level
- S - Spike Recovery outside accepted recovery limits
- P - Dual Column results percent difference > 40%
- E - Value above quantitation range
- H - Analyzed outside of Hold Time

CLIENT: Navajo Refining Company	Client Sample ID: OCD-3
Work Order: 0306268	Collection Date: 6/26/2003 10:00:00 AM
Project: Ponds	
Lab ID: 0306268-02	Matrix: WATER

Analyses	Result	MDL	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL		SW7470			Prep Date: 7/1/2003		Analyst: JCJ
Mercury	0.0000420	0.000042	0.000200	J	mg/L	1	7/2/2003
ICP METALS, TOTAL		SW6020			Prep Date: 7/9/2003		Analyst: ALR
Aluminum	0.0886	0.0016	0.0100		mg/L	1	7/14/2003
Arsenic	0.00352	0.0018	0.00500	J	mg/L	1	7/14/2003
Barium	0.0248	0.00060	0.00500		mg/L	1	7/14/2003
Beryllium	U	0.00030	0.00200		mg/L	1	7/14/2003
Boron	0.481	0.055	0.100		mg/L	5	7/15/2003
Cadmium	U	0.00015	0.00100		mg/L	1	7/14/2003
Calcium	440	4.0	25.0		mg/L	50	7/15/2003
Chromium	0.00108	0.00050	0.00200	J	mg/L	1	7/14/2003
Cobalt	0.000753	0.00010	0.00200	J	mg/L	1	7/14/2003
Copper	0.00410	0.00030	0.00200		mg/L	1	7/14/2003
Iron	4.30	0.12	1.00		mg/L	5	7/15/2003
Lead	0.000367	0.00020	0.00500	J	mg/L	1	7/14/2003
Magnesium	139	0.25	2.00		mg/L	10	7/15/2003
Manganese	0.242	0.0010	0.00500		mg/L	1	7/14/2003
Nickel	0.00851	0.00030	0.00500		mg/L	1	7/14/2003
Potassium	14.2	0.020	0.200		mg/L	1	7/14/2003
Selenium	0.0308	0.0085	0.0250		mg/L	5	7/15/2003
Silver	U	0.00020	0.00500		mg/L	1	7/14/2003
Sodium	500	1.6	10.0		mg/L	50	7/15/2003
Vanadium	0.000440	0.00040	0.00500	J	mg/L	1	7/14/2003
Zinc	0.0103	0.0015	0.00500		mg/L	1	7/14/2003
SEMIVOLATILE ORGANICS BY GC/MS		SW8270			Prep Date: 6/30/2003		Analyst: HV
1,2,4-Trichlorobenzene	U	0.83	10		µg/L	1	7/2/2003
2,4,5-Trichlorophenol	U	2.4	10		µg/L	1	7/2/2003
2,4,6-Trichlorophenol	U	2.7	10		µg/L	1	7/2/2003
2-Methylnaphthalene	U	0.86	10		µg/L	1	7/2/2003
2-Methylphenol	U	2.8	10		µg/L	1	7/2/2003
2-Nitroaniline	U	1.1	10		µg/L	1	7/2/2003
2-Nitrophenol	U	2.6	10		µg/L	1	7/2/2003
3-Nitroaniline	U	1.2	10		µg/L	1	7/2/2003
4-Methylphenol	U	4.6	10		µg/L	1	7/2/2003
4-Nitroaniline	U	0.95	10		µg/L	1	7/2/2003
4-Nitrophenol	U	2.7	10		µg/L	1	7/2/2003
Acenaphthene	U	1.1	10		µg/L	1	7/2/2003
Acenaphthylene	U	1.0	10		µg/L	1	7/2/2003
Aniline	U	10	10		µg/L	1	7/2/2003

Qualifiers	U - Analyzed for but Not Detected	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

CLIENT: Navajo Refining Company
 Work Order: 0306268
 Project: Ponds
 Lab ID: 0306268-02

Client Sample ID: OCD-3
 Collection Date: 6/26/2003 10:00:00 AM
 Matrix: WATER

Analyses	Result	MDL	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Anthracene	U	0.36	10		µg/L	1	7/2/2003
Benz(a)anthracene	U	0.77	10		µg/L	1	7/2/2003
Benzidine	U	0.34	10		µg/L	1	7/2/2003
Hexachloroethane	U	0.64	10		µg/L	1	7/2/2003
Indeno(1,2,3-cd)pyrene	U	0.77	10		µg/L	1	7/2/2003
Isophorone	U	1.2	10		µg/L	1	7/2/2003
N-Nitrosodi-n-propylamine	U	1.5	10		µg/L	1	7/2/2003
N-Nitrosodimethylamine	U	1.1	10		µg/L	1	7/2/2003
N-Nitrosodiphenylamine	U	1.3	10		µg/L	1	7/2/2003
Naphthalene	U	1.0	10		µg/L	1	7/2/2003
Nitrobenzene	U	1.7	10		µg/L	1	7/2/2003
Pentachlorophenol	U	1.5	10		µg/L	1	7/2/2003
Phenanthrene	U	1.2	10		µg/L	1	7/2/2003
Phenol	U	3.5	10		µg/L	1	7/2/2003
Pyrene	U	0.92	10		µg/L	1	7/2/2003
Surr: 2,4,6-Tribromophenol	113	0	10-123		%REC	1	7/2/2003
Surr: 2-Fluorobiphenyl	109	0	43-116		%REC	1	7/2/2003
Surr: 2-Fluorophenol	49.2	0	21-100		%REC	1	7/2/2003
Surr: 4-Terphenyl-d14	125	0	33-141		%REC	1	7/2/2003
Surr: Nitrobenzene-d5	62.2	0	35-114		%REC	1	7/2/2003
Surr: Phenol-d6	29.5	0	10-94		%REC	1	7/2/2003

VOLATILES BY GC/MS

SW8260

Prep Date:

Analyst: PC

Benzene	U	0.66	5.0		µg/L	1	7/4/2003
Ethylbenzene	U	0.77	5.0		µg/L	1	7/4/2003
Methyl tert-butyl ether	U	0.30	5.0		µg/L	1	7/4/2003
Toluene	U	0.69	5.0		µg/L	1	7/4/2003
Xylenes, Total	U	1.8	15		µg/L	1	7/4/2003
Surr: 1,2-Dichloroethane-d4	92.1	0	70-130		%REC	1	7/4/2003
Surr: 4-Bromofluorobenzene	99.6	0	70-130		%REC	1	7/4/2003
Surr: Dibromofluoromethane	93.6	0	70-130		%REC	1	7/4/2003
Surr: Toluene-d8	94.7	0	70-130		%REC	1	7/4/2003

ANIONS BY ION CHROMATOGRAPHY

E300

Prep Date:

Analyst: MG

Chloride	789	20.0	50.0		mg/L	100	7/4/2003
Fluoride	1.34	0.100	0.200		mg/L	2	7/4/2003
Sulfate	1,460	50.0	100		mg/L	100	7/4/2003
Surr: Dichloroacetic acid (surr)	116	0	80-120		%REC	2	7/4/2003
Surr: Dichloroacetic acid (surr)	114	0	80-120		%REC	100	7/4/2003

ALKALINITY

E310.1

Prep Date:

Analyst: LMD

Alkalinity, Bicarbonate (As CaCO3)	133	2.0	5.00		mg/L	1	7/7/2003
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Qualifiers

U - Analyzed for but Not Detected

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

P - Dual Column results percent difference > 40%

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: July 16, 2003

CLIENT: Navajo Refining Company
Work Order: 0306268
Project: Ponds
Lab ID: 0306268-02

Client Sample ID: OCD-3
Collection Date: 6/26/2003 10:00:00 AM
Matrix: WATER

Analyses	Result	MDL	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Alkalinity, Carbonate (As CaCO3)	U	2.0	5.00		mg/L	1	7/7/2003
Alkalinity, Hydroxide (As CaCO3)	U	2.0	5.00		mg/L	1	7/7/2003
Alkalinity, Total (As CaCO3)	133	2.0	5.00		mg/L	1	7/7/2003
CYANIDE, TOTAL			E335.3				
Cyanide	U	0.0030	0.0200		mg/L	1	6/28/2003
						Prep Date:	Analyst: LMD

Qualifiers

U - Analyzed for but Not Detected	S - Spike Recovery outside accepted recovery limits
J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
B - Analyte detected in the associated Method Blank	E - Value above quantitation range
* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: July 16, 2003

CLIENT: Navajo Refining Company
 Work Order: 0306268
 Project: Ponds
 Lab ID: 0306268-03

Client Sample ID: OCD-5
 Collection Date: 6/26/2003 10:30:00 AM
 Matrix: WATER

Analyses	Result	MDL	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL		SW7470			Prep Date: 7/1/2003		Analyst: JCJ
Mercury	0.0000440	0.000042	0.000200	J	mg/L	1	7/2/2003
ICP METALS, TOTAL		SW6020			Prep Date: 7/9/2003		Analyst: ALR
Aluminum	0.0123	0.0016	0.0100		mg/L	1	7/14/2003
Arsenic	0.00589	0.0018	0.00500		mg/L	1	7/14/2003
Barium	0.0247	0.00060	0.00500		mg/L	1	7/14/2003
Beryllium	U	0.00030	0.00200		mg/L	1	7/14/2003
Boron	1.30	0.055	0.100		mg/L	5	7/15/2003
Cadmium	U	0.00015	0.00100		mg/L	1	7/14/2003
Calcium	860	4.0	25.0		mg/L	50	7/15/2003
Chromium	0.000866	0.00050	0.00200	J	mg/L	1	7/14/2003
Cobalt	0.00135	0.00010	0.00200	J	mg/L	1	7/14/2003
Copper	0.00623	0.00030	0.00200		mg/L	1	7/14/2003
Iron	7.14	0.12	1.00		mg/L	5	7/15/2003
Lead	0.000273	0.00020	0.00500	J	mg/L	1	7/14/2003
Magnesium	281	1.2	10.0		mg/L	50	7/15/2003
Manganese	0.259	0.0010	0.00500		mg/L	1	7/14/2003
Nickel	0.0128	0.00030	0.00500		mg/L	1	7/14/2003
Potassium	33.0	0.020	0.200		mg/L	1	7/14/2003
Selenium	0.0360	0.0085	0.0250		mg/L	5	7/15/2003
Silver	U	0.00020	0.00500		mg/L	1	7/14/2003
Sodium	2,980	6.4	40.0		mg/L	200	7/16/2003
Vanadium	U	0.00040	0.00500		mg/L	1	7/14/2003
Zinc	0.0133	0.0015	0.00500		mg/L	1	7/14/2003
SEMIVOLATILE ORGANICS BY GC/MS		SW8270			Prep Date: 6/30/2003		Analyst: HV
1,2,4-Trichlorobenzene	U	0.83	10		µg/L	1	7/2/2003
2,4,5-Trichlorophenol	U	2.4	10		µg/L	1	7/2/2003
2,4,6-Trichlorophenol	U	2.7	10		µg/L	1	7/2/2003
2-Methylnaphthalene	U	0.86	10		µg/L	1	7/2/2003
2-Methylphenol	U	2.8	10		µg/L	1	7/2/2003
2-Nitroaniline	U	1.1	10		µg/L	1	7/2/2003
2-Nitrophenol	U	2.6	10		µg/L	1	7/2/2003
3-Nitroaniline	U	1.2	10		µg/L	1	7/2/2003
4-Methylphenol	U	4.6	10		µg/L	1	7/2/2003
4-Nitroaniline	U	0.95	10		µg/L	1	7/2/2003
4-Nitrophenol	U	2.7	10		µg/L	1	7/2/2003
Acenaphthene	U	1.1	10		µg/L	1	7/2/2003
Acenaphthylene	U	1.0	10		µg/L	1	7/2/2003
Aniline	U	10	10		µg/L	1	7/2/2003

Qualifiers

U - Analyzed for but Not Detected

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

P - Dual Column results percent difference > 40%

E - Value above quantitation range

H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: July 16, 2003

CLIENT: Navajo Refining Company
Work Order: 0306268
Project: Ponds
Lab ID: 0306268-03

Client Sample ID: OCD-5
Collection Date: 6/26/2003 10:30:00 AM
Matrix: WATER

Analyses	Result	MDL	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Anthracene	U	0.36	10		µg/L	1	7/2/2003
Benz(a)anthracene	U	0.77	10		µg/L	1	7/2/2003
Benzidine	U	0.34	10		µg/L	1	7/2/2003
Hexachloroethane	U	0.64	10		µg/L	1	7/2/2003
Indeno(1,2,3-cd)pyrene	U	0.77	10		µg/L	1	7/2/2003
Isophorone	U	1.2	10		µg/L	1	7/2/2003
N-Nitrosodi-n-propylamine	U	1.5	10		µg/L	1	7/2/2003
N-Nitrosodimethylamine	U	1.1	10		µg/L	1	7/2/2003
N-Nitrosodiphenylamine	U	1.3	10		µg/L	1	7/2/2003
Naphthalene	U	1.0	10		µg/L	1	7/2/2003
Nitrobenzene	U	1.7	10		µg/L	1	7/2/2003
Pentachlorophenol	U	1.5	10		µg/L	1	7/2/2003
Phenanthrene	U	1.2	10		µg/L	1	7/2/2003
Phenol	U	3.5	10		µg/L	1	7/2/2003
Pyrene	U	0.92	10		µg/L	1	7/2/2003
Surr: 2,4,6-Tribromophenol	114	0	10-123		%REC	1	7/2/2003
Surr: 2-Fluorobiphenyl	108	0	43-116		%REC	1	7/2/2003
Surr: 2-Fluorophenol	50.9	0	21-100		%REC	1	7/2/2003
Surr: 4-Terphenyl-d14	122	0	33-141		%REC	1	7/2/2003
Surr: Nitrobenzene-d5	64.0	0	35-114		%REC	1	7/2/2003
Surr: Phenol-d6	30.7	0	10-94		%REC	1	7/2/2003

VOLATILES BY GC/MS

SW8260

Prep Date:

Analyst: **PC**

Benzene	U	0.66	5.0		µg/L	1	7/7/2003
Ethylbenzene	U	0.77	5.0		µg/L	1	7/7/2003
Methyl tert-butyl ether	U	0.30	5.0		µg/L	1	7/7/2003
Toluene	U	0.69	5.0		µg/L	1	7/7/2003
Xylenes, Total	U	1.8	15		µg/L	1	7/7/2003
Surr: 1,2-Dichloroethane-d4	95.2	0	70-130		%REC	1	7/7/2003
Surr: 4-Bromofluorobenzene	105	0	70-130		%REC	1	7/7/2003
Surr: Dibromofluoromethane	93.4	0	70-130		%REC	1	7/7/2003
Surr: Toluene-d8	96.5	0	70-130		%REC	1	7/7/2003

ANIONS BY ION CHROMATOGRAPHY

E300

Prep Date:

Analyst: **MG**

Chloride	4,790	50.0	125		mg/L	250	7/4/2003
Fluoride	1.02	0.100	0.200		mg/L	2	7/4/2003
Sulfate	3,080	50.0	100		mg/L	100	7/4/2003
Surr: Dichloroacetic acid (surr)	106	0	80-120		%REC	2	7/4/2003
Surr: Dichloroacetic acid (surr)	115	0	80-120		%REC	100	7/4/2003
Surr: Dichloroacetic acid (surr)	116	0	80-120		%REC	250	7/4/2003

ALKALINITY

E310.1

Prep Date:

Analyst: **LMD**

Qualifiers U - Analyzed for but Not Detected S - Spike Recovery outside accepted recovery limits
 J - Analyte detected below quantitation limits P - Dual Column results percent difference > 40%
 B - Analyte detected in the associated Method Blank E - Value above quantitation range
 * - Value exceeds Maximum Contaminant Level H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: July 16, 2003

CLIENT: Navajo Refining Company
Work Order: 0306268
Project: Ponds
Lab ID: 0306268-03

Client Sample ID: OCD-5
Collection Date: 6/26/2003 10:30:00 AM
Matrix: WATER

Analyses	Result	MDL	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Alkalinity, Bicarbonate (As CaCO3)	209	2.0	5.00		mg/L	1	7/7/2003
Alkalinity, Carbonate (As CaCO3)	U	2.0	5.00		mg/L	1	7/7/2003
Alkalinity, Hydroxide (As CaCO3)	U	2.0	5.00		mg/L	1	7/7/2003
Alkalinity, Total (As CaCO3)	209	2.0	5.00		mg/L	1	7/7/2003
CYANIDE, TOTAL			E335.3				
Cyanide	U	0.0030	0.0200		mg/L	1	6/28/2003

Prep Date: Analyst: LMD

Qualifiers

U - Analyzed for but Not Detected

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

P - Dual Column results percent difference > 40%

E - Value above quantitation range

H - Analyzed outside of Hold Time

CLIENT: Navajo Refining Company	Client Sample ID: OCD-7
Work Order: 0306268	Collection Date: 6/26/2003 11:00:00 AM
Project: Ponds	
Lab ID: 0306268-04	Matrix: WATER

Analyses	Result	MDL	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL							
			SW7470			Prep Date: 7/1/2003	Analyst: JCJ
Mercury	0.0000430	0.000042	0.000200	J	mg/L	1	7/2/2003
ICP METALS, TOTAL							
			SW6020			Prep Date: 7/9/2003	Analyst: ALR
Aluminum	0.648	0.0080	0.0500		mg/L	5	7/16/2003
Arsenic	0.00436	0.0018	0.00500	J	mg/L	1	7/14/2003
Barium	0.0300	0.00060	0.00500		mg/L	1	7/14/2003
Beryllium	U	0.00030	0.00200		mg/L	1	7/14/2003
Boron	0.678	0.055	0.100		mg/L	5	7/15/2003
Cadmium	0.000914	0.00015	0.00100	J	mg/L	1	7/14/2003
Calcium	559	4.0	25.0		mg/L	50	7/15/2003
Chromium	0.00374	0.00050	0.00200		mg/L	1	7/14/2003
Cobalt	0.00157	0.00010	0.00200	J	mg/L	1	7/14/2003
Copper	0.00856	0.00030	0.00200		mg/L	1	7/14/2003
Iron	6.06	0.12	1.00		mg/L	5	7/15/2003
Lead	0.0162	0.00020	0.00500		mg/L	1	7/14/2003
Magnesium	134	0.25	2.00		mg/L	10	7/15/2003
Manganese	1.14	0.010	0.0500		mg/L	10	7/15/2003
Nickel	0.0118	0.00030	0.00500		mg/L	1	7/14/2003
Potassium	10.2	0.020	0.200		mg/L	1	7/14/2003
Selenium	0.0207	0.0085	0.0250	J	mg/L	5	7/15/2003
Silver	U	0.00020	0.00500		mg/L	1	7/14/2003
Sodium	757	1.6	10.0		mg/L	50	7/15/2003
Vanadium	0.00106	0.00040	0.00500	J	mg/L	1	7/14/2003
Zinc	0.0280	0.0015	0.00500		mg/L	1	7/14/2003
SEMIVOLATILE ORGANICS BY GC/MS							
			SW8270			Prep Date: 6/30/2003	Analyst: HV
1,2,4-Trichlorobenzene	U	0.83	10		µg/L	1	7/2/2003
2,4,5-Trichlorophenol	U	2.4	10		µg/L	1	7/2/2003
2,4,6-Trichlorophenol	U	2.7	10		µg/L	1	7/2/2003
2-Methylnaphthalene	U	0.86	10		µg/L	1	7/2/2003
2-Methylphenol	U	2.8	10		µg/L	1	7/2/2003
2-Nitroaniline	U	1.1	10		µg/L	1	7/2/2003
2-Nitrophenol	U	2.6	10		µg/L	1	7/2/2003
3-Nitroaniline	U	1.2	10		µg/L	1	7/2/2003
4-Methylphenol	U	4.6	10		µg/L	1	7/2/2003
4-Nitroaniline	U	0.95	10		µg/L	1	7/2/2003
4-Nitrophenol	U	2.7	10		µg/L	1	7/2/2003
Acenaphthene	U	1.1	10		µg/L	1	7/2/2003
Acenaphthylene	U	1.0	10		µg/L	1	7/2/2003
Aniline	U	10	10		µg/L	1	7/2/2003

Qualifiers	U - Analyzed for but Not Detected	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

CLIENT: Navajo Refining Company
 Work Order: 0306268
 Project: Ponds
 Lab ID: 0306268-04

Client Sample ID: OCD-7
 Collection Date: 6/26/2003 11:00:00 AM
 Matrix: WATER

Analyses	Result	MDL	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Anthracene	U	0.36	10		µg/L	1	7/2/2003
Benz(a)anthracene	U	0.77	10		µg/L	1	7/2/2003
Benzidine	U	0.34	10		µg/L	1	7/2/2003
Hexachloroethane	U	0.64	10		µg/L	1	7/2/2003
Indeno(1,2,3-cd)pyrene	U	0.77	10		µg/L	1	7/2/2003
Isophorone	U	1.2	10		µg/L	1	7/2/2003
N-Nitrosodi-n-propylamine	U	1.5	10		µg/L	1	7/2/2003
N-Nitrosodimethylamine	U	1.1	10		µg/L	1	7/2/2003
N-Nitrosodiphenylamine	U	1.3	10		µg/L	1	7/2/2003
Naphthalene	U	1.0	10		µg/L	1	7/2/2003
Nitrobenzene	U	1.7	10		µg/L	1	7/2/2003
Pentachlorophenol	U	1.5	10		µg/L	1	7/2/2003
Phenanthrene	U	1.2	10		µg/L	1	7/2/2003
Phenol	U	3.5	10		µg/L	1	7/2/2003
Pyrene	U	0.92	10		µg/L	1	7/2/2003
Surr: 2,4,6-Tribromophenol	113	0	10-123		%REC	1	7/2/2003
Surr: 2-Fluorobiphenyl	102	0	43-116		%REC	1	7/2/2003
Surr: 2-Fluorophenol	41.1	0	21-100		%REC	1	7/2/2003
Surr: 4-Terphenyl-d14	121	0	33-141		%REC	1	7/2/2003
Surr: Nitrobenzene-d5	55.6	0	35-114		%REC	1	7/2/2003
Surr: Phenol-d6	25.9	0	10-94		%REC	1	7/2/2003

VOLATILES BY GC/MS

SW8260

Prep Date:

Analyst: PC

Benzene	U	0.66	5.0		µg/L	1	7/7/2003
Ethylbenzene	U	0.77	5.0		µg/L	1	7/7/2003
Methyl tert-butyl ether	U	0.30	5.0		µg/L	1	7/7/2003
Toluene	U	0.69	5.0		µg/L	1	7/7/2003
Xylenes, Total	U	1.8	15		µg/L	1	7/7/2003
Surr: 1,2-Dichloroethane-d4	96.5	0	70-130		%REC	1	7/7/2003
Surr: 4-Bromofluorobenzene	98.8	0	70-130		%REC	1	7/7/2003
Surr: Dibromofluoromethane	95.2	0	70-130		%REC	1	7/7/2003
Surr: Toluene-d8	98.7	0	70-130		%REC	1	7/7/2003

ANIONS BY ION CHROMATOGRAPHY

E300

Prep Date:

Analyst: MG

Chloride	724	10.0	25.0		mg/L	50	7/4/2003
Fluoride	1.00	0.0500	0.100		mg/L	1	7/3/2003
Sulfate	2,540	50.0	100		mg/L	100	7/4/2003
Surr: Dichloroacetic acid (surr)	114	0	80-120		%REC	1	7/3/2003
Surr: Dichloroacetic acid (surr)	114	0	80-120		%REC	50	7/4/2003
Surr: Dichloroacetic acid (surr)	115	0	80-120		%REC	100	7/4/2003

ALKALINITY

E310.1

Prep Date:

Analyst: LMD

Qualifiers	U - Analyzed for but Not Detected	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: July 16, 2003

CLIENT: Navajo Refining Company
Work Order: 0306268
Project: Ponds
Lab ID: 0306268-04

Client Sample ID: OCD-7
Collection Date: 6/26/2003 11:00:00 AM
Matrix: WATER

Analyses	Result	MDL	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Alkalinity, Bicarbonate (As CaCO3)	158	2.0	5.00		mg/L	1	7/7/2003
Alkalinity, Carbonate (As CaCO3)	U	2.0	5.00		mg/L	1	7/7/2003
Alkalinity, Hydroxide (As CaCO3)	U	2.0	5.00		mg/L	1	7/7/2003
Alkalinity, Total (As CaCO3)	158	2.0	5.00		mg/L	1	7/7/2003
CYANIDE, TOTAL			E335.3				
Cyanide	0.00380	0.0030	0.0200	J	mg/L	1	6/28/2003

Prep Date:

Analyst: LMD
6/28/2003

Qualifiers

U - Analyzed for but Not Detected
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: Jul 16 2003

CLIENT: Navajo Refining Company
Work Order: 0306268
Project: Ponds

QC BATCH REPORT

Batch ID: 6042 InstrumentID: Mercury

MBLK	Sample ID: GBLKW1-070103	TestCode: SW7470	Units: mg/L	Analysis Date 07/02/03 14:28						
Client ID:	Run ID: MERCURY_030702A	SeqNo: 340291	Prep Date: 7/1/2003	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U	0.00020								

LCS	Sample ID: GLCSW1-070103	TestCode: SW7470	Units: mg/L	Analysis Date 07/02/03 14:34						
Client ID:	Run ID: MERCURY_030702A	SeqNo: 340292	Prep Date: 7/1/2003	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00487	0.00020	0.005	0	97.4	80-120	0			

MS	Sample ID: 0306213-17CMS	TestCode: SW7470	Units: mg/L	Analysis Date 07/02/03 14:42						
Client ID:	Run ID: MERCURY_030702A	SeqNo: 340295	Prep Date: 7/1/2003	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00494	0.00020	0.005	0.000055	97.7	80-120	0			

MSD	Sample ID: 0306213-17CMSD	TestCode: SW7470	Units: mg/L	Analysis Date 07/02/03 14:44						
Client ID:	Run ID: MERCURY_030702A	SeqNo: 340296	Prep Date: 7/1/2003	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00506	0.00020	0.005	0.000055	100	80-120	0.00494	2.4	20	

DUP	Sample ID: 0306213-17CDUP	TestCode: SW7470	Units: mg/L	Analysis Date 07/02/03 14:41						
Client ID:	Run ID: MERCURY_030702A	SeqNo: 340294	Prep Date: 7/1/2003	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.000055	0.00020	0	0	0	0-0	0.000055	0	20	J

The following samples were analyzed in this batch:

0306268-01B	0306268-02B	0306268-03B
0306268-04B		

ND - Not Detected at the Reporting Limit
 - Analyte detected below quantitation limits
 O - Referenced analyte value is > 4 times amount spiked
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 B - Analyte detected in assoc. Method Blank
 U - Analyzed for but not detected
 E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0306268
 Project: Ponds

QC BATCH REPORT

Batch ID: 6094 InstrumentID: 6020

MBLK	Sample ID: MBLKW1-070903	TestCode: SW6020	Units: mg/L	Analysis Date 07/10/03 16:30						
Client ID:	Run ID: 6020_030710A	SeqNo: 343790	Prep Date: 7/9/2003	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.003553	0.010								J
Arsenic	U	0.0050								
Barium	U	0.0050								
Beryllium	U	0.0020								
Boron	0.01989	0.020								J
Cadmium	U	0.0010								
Calcium	U	0.50								
Chromium	U	0.0020								
Cobalt	U	0.0020								
Copper	0.0003873	0.0020								J
Iron	U	0.20								
Lead	U	0.0050								
Manganese	U	0.0050								
Nickel	0.0003415	0.0050								J
Potassium	U	0.20								
Selenium	U	0.0050								
Silver	U	0.0050								
Sodium	U	0.20								
Vanadium	U	0.0050								
...	U	0.0050								

MBLK	Sample ID: MBLKW1-070903	TestCode: SW6020	Units: mg/L	Analysis Date 07/14/03 14:59						
Client ID:	Run ID: 6020_030714A	SeqNo: 345025	Prep Date: 7/9/2003	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Magnesium	U	0.20								

ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 O - Referenced analyte value is > 4 times amount spiked
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 B - Analyte detected in assoc. Method Blank
 U - Analyzed for but not detected
 E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0306268
 Project: Ponds

QC BATCH REPORT

Batch ID: 6094 InstrumentID: 6020

LCS		Sample ID: MLC SW1-070903			TestCode: SW6020		Units: mg/L		Analysis Date 07/10/03 16:52		
Client ID:		Run ID: 6020_030710A		SeqNo: 343794		Prep Date: 7/9/2003		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Aluminum	0.1067	0.010	0.1	0	107	80-120	0				
Arsenic	0.09846	0.0050	0.1	0	98.5	80-120	0				
Barium	0.09596	0.0050	0.1	0	96	80-120	0				
Beryllium	0.1022	0.0020	0.1	0	102	80-120	0				
Boron	0.4924	0.020	0.5	0	98.5	80-120	0				
Cadmium	0.0972	0.0010	0.1	0	97.2	80-120	0				
Calcium	10.19	0.50	10	0	102	80-120	0				
Chromium	0.09941	0.0020	0.1	0	99.4	80-120	0				
Cobalt	0.1008	0.0020	0.1	0	101	80-120	0				
Copper	0.0993	0.0020	0.1	0	99.3	80-120	0				
Iron	9.815	0.20	10	0	98.1	80-120	0				
Lead	0.09689	0.0050	0.1	0	96.9	80-120	0				
Manganese	0.09555	0.0050	0.1	0	95.6	80-120	0				
Nickel	0.1019	0.0050	0.1	0	102	80-120	0				
Potassium	10.19	0.20	10	0	102	80-120	0				
Selenium	0.09776	0.0050	0.1	0	97.8	80-120	0				
Silver	0.09937	0.0050	0.1	0	99.4	80-120	0				
Sodium	10.54	0.20	10	0	105	80-120	0				
Vanadium	0.09761	0.0050	0.1	0	97.6	80-120	0				
Zinc	0.09963	0.0050	0.1	0	99.6	80-120	0				

LCS		Sample ID: MLC SW1-070903			TestCode: SW6020		Units: mg/L		Analysis Date 07/14/03 15:03		
Client ID:		Run ID: 6020_030714A		SeqNo: 345026		Prep Date: 7/9/2003		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Magnesium	9.156	0.20	10	0	91.6	80-120	0				

ND - Not Detected at the Reporting Limit
 S - Spike Recovery outside accepted recovery limits
 B - Analyte detected in assoc. Method Blank
 - Analyte detected below quantitation limits
 R - RPD outside accepted recovery limits
 U - Analyzed for but not detected
 O - Referenced analyte value is > 4 times amount spiked
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0306268
 Project: Ponds

QC BATCH REPORT

Batch ID: 6094 InstrumentID: 6020

MS		Sample ID: 0306268-01BMS			TestCode: SW6020		Units: mg/L		Analysis Date 07/14/03 20:08		
Client ID: OCD-1		Run ID: 6020_030714A			SeqNo: 345209		Prep Date: 7/9/2003		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Aluminum	0.5911	0.010	0.1	0.5121	79	75-125	0			EO	
Arsenic	0.1691	0.0050	0.1	0.09406	75	75-125	0				
Barium	0.1276	0.0050	0.1	0.02056	107	75-125	0				
Beryllium	0.09274	0.0020	0.1	0.0001254	92.6	75-125	0				
Boron	0.8697	0.020	0.5	0.4321	87.5	75-125	0				
Cadmium	0.07096	0.0010	0.1	0.00006519	70.9	75-125	0			S	
Calcium	579.2	0.50	10	595.1	-159	75-125	0			SEO	
Chromium	0.08635	0.0020	0.1	0.001663	84.7	75-125	0				
Cobalt	0.08176	0.0020	0.1	0.001933	79.8	75-125	0				
Copper	0.07373	0.0020	0.1	0.004595	69.1	75-125	0			S	
Iron	18.34	0.20	10	10.63	77.1	75-125	0				
Lead	0.1129	0.0050	0.1	0.001507	111	75-125	0				
Magnesium	114.9	0.20	10	111	39	75-125	0			SEO	
Manganese	2.611	0.0050	0.1	2.591	20	75-125	0			SEO	
Nickel	0.08844	0.0050	0.1	0.01717	71.3	75-125	0			S	
Potassium	15.55	0.20	10	7.204	83.5	75-125	0				
Silver	0.06784	0.0050	0.1	2.931E-06	67.8	75-125	0			S	
Vanadium	0.09584	0.0050	0.1	0.002544	93.3	75-125	0				
Zinc	0.0664	0.0050	0.1	0.01174	54.7	75-125	0			S	

MS		Sample ID: 0306268-01BMS			TestCode: SW6020		Units: mg/L		Analysis Date 07/15/03 18:01		
Client ID: OCD-1		Run ID: 6020_030715A			SeqNo: 345604		Prep Date: 7/9/2003		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Selenium	0.1109	0.0050	0.1	0.02841	82.5	75-125	0				

MS		Sample ID: 0306268-01BMS			TestCode: SW6020		Units: mg/L		Analysis Date 07/16/03 14:48		
Client ID: OCD-1		Run ID: 6020_030716A			SeqNo: 345912		Prep Date: 7/9/2003		DF: 100		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Sodium	2719	20	10	2584	1350	75-125	0			SO	

ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 O - Referenced analyte value is > 4 times amount spiked
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 B - Analyte detected in assoc. Method Blank
 U - Analyzed for but not detected
 E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0306268
 Project: Ponds

QC BATCH REPORT

Batch ID: 6094 InstrumentID: 6020

MSD		Sample ID: 0306268-01BMSD			TestCode: SW6020		Units: mg/L		Analysis Date 07/14/03 20:13		
Client ID: OCD-1		Run ID: 6020_030714A		SeqNo: 345210		Prep Date: 7/9/2003		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Aluminum	0.8229	0.010	0.1	0.5121	311	75-125	0.5911	32.8	25	SREO	
Arsenic	0.1717	0.0050	0.1	0.09406	77.6	75-125	0.1691	1.53	25		
Barium	0.1294	0.0050	0.1	0.02056	109	75-125	0.1276	1.4	25		
Beryllium	0.09389	0.0020	0.1	0.0001254	93.8	75-125	0.09274	1.23	25		
Boron	0.8937	0.020	0.5	0.4321	92.3	75-125	0.8697	2.72	25		
Cadmium	0.07011	0.0010	0.1	0.00006519	70	75-125	0.07096	1.21	25	S	
Calcium	606.8	0.50	10	595.1	117	75-125	579.2	4.65	25	EO	
Chromium	0.08724	0.0020	0.1	0.001663	85.6	75-125	0.08635	1.03	25		
Cobalt	0.08254	0.0020	0.1	0.001933	80.6	75-125	0.08176	0.949	25		
Copper	0.07463	0.0020	0.1	0.004595	70	75-125	0.07373	1.21	25	S	
Iron	18.71	0.20	10	10.63	80.8	75-125	18.34	2	25		
Lead	0.1132	0.0050	0.1	0.001507	112	75-125	0.1129	0.265	25		
Magnesium	118.4	0.20	10	111	74	75-125	114.9	3	25	SEO	
Manganese	2.654	0.0050	0.1	2.591	63	75-125	2.611	1.63	25	SEO	
Nickel	0.08897	0.0050	0.1	0.01717	71.8	75-125	0.08844	0.597	25	S	
Potassium	15.84	0.20	10	7.204	86.4	75-125	15.55	1.85	25		
Silver	0.06858	0.0050	0.1	2.931E-06	68.6	75-125	0.06784	1.08	25	S	
Vanadium	0.09653	0.0050	0.1	0.002544	94	75-125	0.09584	0.717	25		
Zinc	0.06731	0.0050	0.1	0.01174	55.6	75-125	0.0664	1.36	25	S	

MSD		Sample ID: 0306268-01BMSD			TestCode: SW6020		Units: mg/L		Analysis Date 07/15/03 18:05		
Client ID: OCD-1		Run ID: 6020_030715A		SeqNo: 345605		Prep Date: 7/9/2003		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Selenium	0.09838	0.0050	0.1	0.02841	70	75-125	0.1109	12	25	S	

MSD		Sample ID: 0306268-01BMSD			TestCode: SW6020		Units: mg/L		Analysis Date 07/16/03 14:52		
Client ID: OCD-1		Run ID: 6020_030716A		SeqNo: 345913		Prep Date: 7/9/2003		DF: 100			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Sodium	2775	20	10	2584	1910	75-125	2719	2.04	25	SO	

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CLIENT: Navajo Refining Company
 Work Order: 0306268
 Project: Ponds

QC BATCH REPORT

Batch ID: 6094 InstrumentID: 6020

DUP		Sample ID: 0306268-01BDUP			TestCode: SW6020		Units: mg/L		Analysis Date 07/14/03 20:03		
Client ID: OCD-1		Run ID: 6020_030714A		SeqNo: 345208		Prep Date: 7/9/2003		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Barium	0.02087	0.0050	0	0	0	0-0	0.02056	1.5	25		
Beryllium	U	0.0020	0	0	0	0-0	0.0001254	0	25		
Cadmium	U	0.0010	0	0	0	0-0	0.00006519	0	25		
Chromium	0.001665	0.0020	0	0	0	0-0	0.001663	0	25	J	
Cobalt	0.001875	0.0020	0	0	0	0-0	0.001933	0	25	J	
Copper	0.004467	0.0020	0	0	0	0-0	0.004595	2.82	25		
Lead	0.001558	0.0050	0	0	0	0-0	0.001507	0	25	J	
Nickel	0.01707	0.0050	0	0	0	0-0	0.01717	0.584	25		
Silver	U	0.0050	0	0	0	0-0	2.931E-06	0	25		
Vanadium	0.002529	0.0050	0	0	0	0-0	0.002544	0	25	J	
Zinc	0.01151	0.0050	0	0	0	0-0	0.01174	1.98	25		

DUP		Sample ID: 0306268-01BDUP			TestCode: SW6020		Units: mg/L		Analysis Date 07/15/03 14:02		
Client ID: OCD-1		Run ID: 6020_030715A		SeqNo: 345469		Prep Date: 7/9/2003		DF: 20			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Manganese	2.89	0.10	0	0	0	0-0	2.881	0.312	25		

DUP		Sample ID: 0306268-01BDUP			TestCode: SW6020		Units: mg/L		Analysis Date 07/15/03 14:11		
Client ID: OCD-1		Run ID: 6020_030715A		SeqNo: 345471		Prep Date: 7/9/2003		DF: 10			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Magnesium	152.6	2.0	0	0	0	0-0	147.8	3.2	25		

DUP		Sample ID: 0306268-01BDUP			TestCode: SW6020		Units: mg/L		Analysis Date 07/15/03 17:13		
Client ID: OCD-1		Run ID: 6020_030715A		SeqNo: 345572		Prep Date: 7/9/2003		DF: 5			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	0.1158	0.025	0	0	0	0-0	0.1121	3.25	25		
Boron	0.513	0.10	0	0	0	0-0	0.4986	2.85	25		
Iron	13.6	1.0	0	0	0	0-0	13.33	2.01	25		
Potassium	8.944	1.0	0	0	0	0-0	8.677	3.03	25		
Selenium	0.06048	0.025	0	0	0	0-0	0.05565	8.32	25		

DUP		Sample ID: 0306268-01BDUP			TestCode: SW6020		Units: mg/L		Analysis Date 07/16/03 13:44		
Client ID: OCD-1		Run ID: 6020_030716A		SeqNo: 345905		Prep Date: 7/9/2003		DF: 50			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Calcium	613.6	25	0	0	0	0-0	616.7	0.504	25		

ND - Not Detected at the Reporting Limit

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R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0306268
Project: Ponds

QC BATCH REPORT

Batch ID: 6094 InstrumentID: 6020

DUP Sample ID: 0306268-01BDUP TestCode: SW6020 Units: mg/L Analysis Date 07/16/03 14:43
 Client ID: OCD-1 Run ID: 6020_030716A SeqNo: 345911 Prep Date: 7/9/2003 DF: 100

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium	2760	20	0	0	0	0-0	2584	6.59	25	

DUP Sample ID: 0306268-01BDUP TestCode: SW6020 Units: mg/L Analysis Date 07/16/03 15:14
 Client ID: OCD-1 Run ID: 6020_030716A SeqNo: 345918 Prep Date: 7/9/2003 DF: 5

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.6755	0.050	0	0	0	0-0	0.7026	3.93	25	

The following samples were analyzed in this batch:

0306268-01B	0306268-02B	0306268-03B
0306268-04B		

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CLIENT: Navajo Refining Company
 Work Order: 0306268
 Project: Ponds

QC BATCH REPORT

Batch ID: 6017 InstrumentID: SV-2

MBLK Sample ID: SBLKW1-030630 TestCode: SW8270 Units: µg/L Analysis Date 07/01/03 11:56
 Client ID: Run ID: SV-2_030701A SeqNo: 340373 Prep Date: 6/30/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	U	10								
2,4,5-Trichlorophenol	U	10								
2,4,6-Trichlorophenol	U	10								
2-Methylnaphthalene	U	10								
2-Methylphenol	U	10								
2-Nitroaniline	U	10								
2-Nitrophenol	U	10								
3-Nitroaniline	U	10								
4-Methylphenol	U	10								
4-Nitroaniline	U	10								
4-Nitrophenol	U	10								
Acenaphthene	U	10								
Acenaphthylene	U	10								
Aniline	U	10								
Anthracene	U	10								
Benz(a)anthracene	U	10								
Benzidine	U	10								
Hexachloroethane	U	10								
Indeno(1,2,3-cd)pyrene	U	10								
Isophorone	U	10								
N-Nitrosodi-n-propylamine	U	10								
N-Nitrosodimethylamine	U	10								
N-Nitrosodiphenylamine	U	10								
Naphthalene	U	10								
Nitrobenzene	U	10								
Pentachlorophenol	U	10								
Phenanthrene	U	10								
Phenol	U	10								
Pyrene	U	10								
1,4-Dichlorobenzene-d4	40	0								
Acenaphthene-d10	40	0								
Chrysene-d12	40	0								
Naphthalene-d8	40	0								
Perylene-d12	40	0								
Phenanthrene-d10	40	0								
Surr:2,4,6-Tribromophenol	104.2	0	100	0	104	10-123		0		
Surr:2-Fluorobiphenyl	108	0	100	0	108	43-116		0		
Surr:2-Fluorophenol	56.43	0	100	0	56.4	21-100		0		
Surr:4-Terphenyl-d14	123.1	0	100	0	123	33-141		0		
Surr:Nitrobenzene-d5	112.8	0	100	0	113	35-114		0		
Surr: Phenol-d6	33.48	0	100	0	33.5	10-94		0		

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 Analyte detected below quantitation limits
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 R - RPD outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 B - Analyte detected in assoc. Method Blank
 U - Analyzed for but not detected
 E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0306268
 Project: Ponds

QC BATCH REPORT

Batch ID: 6017 InstrumentID: SV-2

LCS Sample ID: SLCSW1-030630 Test Code: SW8270 Units: µg/L Analysis Date 07/01/03 12:27

Client ID: Run ID: SV-2_030701A SeqNo: 340374 Prep Date: 6/30/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	48.73	10	50	0	97.5	51-110	0			
2,4,5-Trichlorophenol	105.3	10	100	0	105	55-130	0			
2,4,6-Trichlorophenol	100.3	10	100	0	100	55-130	0			
2-Methylnaphthalene	47.28	10	50	0	94.6	50-125	0			
2-Methylphenol	77.25	10	100	0	77.2	45-120	0			
2-Nitroaniline	53.77	10	50	0	108	55-130	0			
2-Nitrophenol	103.5	10	100	0	104	55-125	0			
3-Nitroaniline	45.2	10	50	0	90.4	55-120	0			
4-Methylphenol	102.4	10	150	0	68.3	40-120	0			
4-Nitroaniline	48.11	10	50	0	96.2	60-130	0			
4-Nitrophenol	47.17	10	100	0	47.2	25-100	0			
Acenaphthene	50.6	10	50	0	101	50-120	0			
Acenaphthylene	50.99	10	50	0	102	55-130	0			
Anthracene	53.64	10	50	0	107	60-130	0			
Benz(a)anthracene	53.29	10	50	0	107	60-130	0			
Benzidine	3.904	10	50	0	7.81	10-85	0			JS
Hexachloroethane	47.6	10	50	0	95.2	40-120	0			
Indeno(1,2,3-cd)pyrene	46.91	10	50	0	93.8	60-130	0			
Isophorone	52.52	10	50	0	105	60-130	0			
N-Nitrosodi-n-propylamine	48.72	10	50	0	97.4	55-120	0			
N-Nitrosodimethylamine	29.84	10	50	0	59.7	35-110	0			
N-Nitrosodiphenylamine	57.97	10	50	0	116	60-130	0			
Naphthalene	49.68	10	50	0	99.4	55-130	0			
Nitrobenzene	52.69	10	50	0	105	60-130	0			
Pentachlorophenol	105.3	10	100	0	105	45-125	0			
Phenanthrene	51.95	10	50	0	104	60-130	0			
Phenol	35.22	10	100	0	35.2	20-100	0			
Pyrene	52.98	10	50	0	106	45-120	0			
Surr:2,4,6-Tribromophenol	110.2	0	100	0	110	10-123	0			
Surr:2-Fluorobiphenyl	104.4	0	100	0	104	43-116	0			
Surr:2-Fluorophenol	60.09	0	100	0	60.1	21-100	0			
Surr:4-Terphenyl-d14	114.2	0	100	0	114	33-141	0			
Surr:Nitrobenzene-d5	111.4	0	100	0	111	35-114	0			
Surr: Phenol-d6	37.31	0	100	0	37.3	10-94	0			

ND - Not Detected at the Reporting Limit

Analyte detected below quantitation limits

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R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0306268
 Project: Ponds

QC BATCH REPORT

Batch ID: 6017 InstrumentID: SV-2

LCSD Sample ID: SLCS DW1-030630 TestCode: SW8270 Units: µg/L Analysis Date 07/01/03 12:58
 Client ID: Run ID: SV-2_030701A SeqNo: 340375 Prep Date: 6/30/2003 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	51.03	10	50	0	102	51-110	48.73	4.61	30	
2,4,5-Trichlorophenol	106.7	10	100	0	107	55-130	105.3	1.35	30	
2,4,6-Trichlorophenol	105.4	10	100	0	105	55-130	100.3	4.98	30	
2-Methylnaphthalene	48.53	10	50	0	97.1	50-125	47.28	2.62	30	
2-Methylphenol	78.27	10	100	0	78.3	45-120	77.25	1.31	30	
2-Nitroaniline	54.58	10	50	0	109	55-130	53.77	1.51	30	
2-Nitrophenol	106.5	10	100	0	107	55-125	103.5	2.87	30	
3-Nitroaniline	48.7	10	50	0	97.4	55-120	45.2	7.47	30	
4-Methylphenol	103.6	10	150	0	69.1	40-120	102.4	1.19	30	
4-Nitroaniline	50.21	10	50	0	100	60-130	48.11	4.29	30	
4-Nitrophenol	46.31	10	100	0	46.3	25-100	47.17	1.85	30	
Acenaphthene	51.96	10	50	0	104	50-120	50.6	2.65	30	
Acenaphthylene	52.07	10	50	0	104	55-130	50.99	2.09	30	
Anthracene	54.95	10	50	0	110	60-130	53.64	2.42	30	
Benz(a)anthracene	55.41	10	50	0	111	60-130	53.29	3.89	30	
Benzidine	15.02	10	50	0	30	10-85	3.904	118	30	R
Hexachloroethane	46.38	10	50	0	96.8	40-120	47.6	1.63	30	
Indeno(1,2,3-cd)pyrene	49.45	10	50	0	98.9	60-130	46.91	5.28	30	
Isophorone	53.66	10	50	0	107	60-130	52.52	2.15	30	
N-Nitrosodi-n-propylamine	49.72	10	50	0	99.4	55-120	48.72	2.01	30	
N-Nitrosodimethylamine	29.45	10	50	0	58.9	35-110	29.84	1.32	30	
N-Nitrosodiphenylamine	58.49	10	50	0	117	60-130	57.97	0.9	30	
Naphthalene	51.55	10	50	0	103	55-130	49.68	3.7	30	
Nitrobenzene	53.67	10	50	0	107	60-130	52.69	1.83	30	
Pentachlorophenol	106.1	10	100	0	106	45-125	105.3	0.717	30	
Phenanthrene	52.84	10	50	0	106	60-130	51.95	1.69	30	
Phenol	34.27	10	100	0	34.3	20-100	35.22	2.74	30	
Pyrene	54.34	10	50	0	109	45-120	52.98	2.53	30	
Surr:2,4,6-Tribromophenol	111.5	0	100	0	112	10-123	110.2	1.14	30	
Surr:2-Fluorobiphenyl	105.4	0	100	0	105	43-116	104.4	0.974	30	
Surr:2-Fluorophenol	58.9	0	100	0	58.9	21-100	60.09	2	30	
Surr:4-Terphenyl-d14	116.5	0	100	0	116	33-141	114.2	1.96	30	
Surr:Nitrobenzene-d5	112.7	0	100	0	113	35-114	111.4	1.15	30	
Surr: Phenol-d6	36.13	0	100	0	36.1	10-94	37.31	3.2	30	

The following samples were reanalyzed in this batch:

0306268-01F	0306268-02F	0306268-03F
0306268-04F		

ND - Not Detected at the Reporting Limit

- Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0306268
 Project: Ponds

QC BATCH REPORT

Batch ID: R15039 InstrumentID: VOA_I

MBLK	Sample ID: VBLW-0703	TestCode: SW8260	Units: µg/L	Analysis Date 07/04/03 0:04						
Client ID:	Run ID: VOA_I_030703B	SeqNo: 341889	Prep Date:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	U	5.0								
Ethylbenzene	U	5.0								
Methyl tert-butyl ether	U	5.0								
Toluene	U	5.0								
Xylenes, Total	U	15								
Surr: 1,2-Dichloroethane-d4	44.33	5.0	50	0	88.7	70-130	0			
Surr: 4-Bromofluorobenzene	45.01	5.0	50	0	90	70-130	0			
Surr: Dibromofluoromethane	46.49	5.0	50	0	93	70-130	0			
Surr: Toluene-d8	49.24	5.0	50	0	98.5	70-130	0			

LCS	Sample ID: VLCSW-0703	TestCode: SW8260	Units: µg/L	Analysis Date 07/03/03 23:10						
Client ID:	Run ID: VOA_I_030703B	SeqNo: 341887	Prep Date:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	52	5.0	50	0	104	82-119	0			
Ethylbenzene	54.65	5.0	50	0	109	82-120	0			
Methyl tert-butyl ether	41.3	5.0	50	0	82.6	79-120	0			
Toluene	52.19	5.0	50	0	104	81-119	0			
Xylenes, Total	160.5	15	150	0	107	80-120	0			
Surr: 1,2-Dichloroethane-d4	45.36	5.0	50	0	90.7	70-130	0			
Surr: 4-Bromofluorobenzene	50.58	5.0	50	0	101	70-130	0			
Surr: Dibromofluoromethane	46.28	5.0	50	0	92.6	70-130	0			
Surr: Toluene-d8	52.17	5.0	50	0	104	70-130	0			

LCSD	Sample ID: VLCSWD-0703	TestCode: SW8260	Units: µg/L	Analysis Date 07/03/03 23:37						
Client ID:	Run ID: VOA_I_030703B	SeqNo: 341888	Prep Date:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	52.29	5.0	50	0	105	82-119	52	0.543	20	
Ethylbenzene	55.95	5.0	50	0	112	82-120	54.65	2.35	20	
Methyl tert-butyl ether	40.74	5.0	50	0	81.5	79-120	41.3	1.37	20	
Toluene	51.91	5.0	50	0	104	81-119	52.19	0.545	20	
Xylenes, Total	160	15	150	0	107	80-120	160.5	0.259	20	
Surr: 1,2-Dichloroethane-d4	43.89	5.0	50	0	87.8	70-130	45.36	3.29	20	
Surr: 4-Bromofluorobenzene	50.4	5.0	50	0	101	70-130	50.58	0.356	20	
Surr: Dibromofluoromethane	45.33	5.0	50	0	90.7	70-130	46.28	2.08	20	
Surr: Toluene-d8	52.14	5.0	50	0	104	70-130	52.17	0.0487	20	

ND - Not Detected at the Reporting Limit
 - Analyte detected below quantitation limits
 O - Referenced analyte value is > 4 times amount spiked
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 B - Analyte detected in assoc. Method Blank
 U - Analyzed for but not detected
 E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0306268
 Project: Ponds

QC BATCH REPORT

Batch ID: R15039 InstrumentID: VOA_I

MS Sample ID: 0306273-05AMS TestCode: SW8260 Units: µg/L Analysis Date 07/04/03 0:58
 Client ID: Run ID: VOA_I_030703B SeqNo: 341890 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	58.56	5.0	50	0	117	76-127	0			
Ethylbenzene	61.34	5.0	50	0	123	75-125	0			
Methyl tert-butyl ether	50.14	5.0	50	0	100	75-125	0			
Toluene	57.89	5.0	50	0	116	76-125	0			
Xylenes, Total	177.4	15	150	0	118	75-125	0			
Surr: 1,2-Dichloroethane-d4	46.53	5.0	50	0	93.1	70-130	0			
Surr: 4-Bromofluorobenzene	50.75	5.0	50	0	102	70-130	0			
Surr: Dibromofluoromethane	47.16	5.0	50	0	94.3	70-130	0			
Surr: Toluene-d8	51.73	5.0	50	0	103	70-130	0			

MSD Sample ID: 0306273-05AMSD TestCode: SW8260 Units: µg/L Analysis Date 07/04/03 1:25
 Client ID: Run ID: VOA_I_030703B SeqNo: 341891 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	58.08	5.0	50	0	116	76-127	58.56	0.821	20	
Ethylbenzene	61.38	5.0	50	0	123	75-125	61.34	0.0632	20	
Methyl tert-butyl ether	51.37	5.0	50	0	103	75-125	50.14	2.42	20	
Toluene	57.41	5.0	50	0	115	76-125	57.89	0.834	20	
Xylenes, Total	179.9	15	150	0	120	75-125	177.4	1.43	20	
Surr: 1,2-Dichloroethane-d4	44.45	5.0	50	0	88.9	70-130	46.53	4.58	20	
Surr: 4-Bromofluorobenzene	50.56	5.0	50	0	101	70-130	50.75	0.386	20	
Surr: Dibromofluoromethane	45.93	5.0	50	0	91.9	70-130	47.16	2.64	20	
Surr: Toluene-d8	50.75	5.0	50	0	101	70-130	51.73	1.92	20	

The following samples were analyzed in this batch: 0306268-01A 0306268-02A

ND - Not Detected at the Reporting Limit
 S - Spike Recovery outside accepted recovery limits
 B - Analyte detected in assoc. Method Blank
 - Analyte detected below quantitation limits
 R - RPD outside accepted recovery limits
 U - Analyzed for but not detected
 O - Referenced analyte value is > 4 times amount spiked
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0306268
 Project: Ponds

QC BATCH REPORT

Batch ID: R15049 InstrumentID: VOA_I

MBLK Sample ID: VBLW-0707 TestCode: SW8260 Units: µg/L Analysis Date 07/07/03 11:28
 Client ID: Run ID: VOA_I_030707A SeqNo: 342080 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	U	5.0								
Ethylbenzene	U	5.0								
Methyl tert-butyl ether	U	5.0								
Toluene	U	5.0								
Xylenes, Total	U	15								
Surr:1,2-Dichloroethane-d4	45.17	5.0	50	0	90.3	70-130	0			
Surr:4-Bromofluorobenzene	46.15	5.0	50	0	92.3	70-130	0			
Surr:Dibromofluoromethane	46.5	5.0	50	0	93	70-130	0			
Surr:Toluene-d8	47.52	5.0	50	0	95	70-130	0			

LCS Sample ID: VLCSW-0707 TestCode: SW8260 Units: µg/L Analysis Date 07/07/03 10:33
 Client ID: Run ID: VOA_I_030707A SeqNo: 342078 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	50.2	5.0	50	0	100	82-119	0			
Ethylbenzene	53.67	5.0	50	0	107	82-120	0			
Methyl tert-butyl ether	44.62	5.0	50	0	89.2	79-120	0			
Toluene	48.97	5.0	50	0	97.9	81-119	0			
Xylenes, Total	153.8	15	150	0	103	80-120	0			
Surr:1,2-Dichloroethane-d4	42.82	5.0	50	0	85.6	70-130	0			
Surr:4-Bromofluorobenzene	50.83	5.0	50	0	102	70-130	0			
Surr:Dibromofluoromethane	44.09	5.0	50	0	88.2	70-130	0			
Surr:Toluene-d8	48.65	5.0	50	0	97.3	70-130	0			

LCSD Sample ID: VLCSWD-0707 TestCode: SW8260 Units: µg/L Analysis Date 07/07/03 11:01
 Client ID: Run ID: VOA_I_030707A SeqNo: 342079 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	51.21	5.0	50	0	102	82-119	50.2	1.98	20	
Ethylbenzene	53.82	5.0	50	0	108	82-120	53.67	0.27	20	
Methyl tert-butyl ether	44.11	5.0	50	0	88.2	79-120	44.62	1.15	20	
Toluene	49.63	5.0	50	0	99.3	81-119	48.97	1.32	20	
Xylenes, Total	154.2	15	150	0	103	80-120	153.8	0.207	20	
Surr:1,2-Dichloroethane-d4	42.43	5.0	50	0	84.9	70-130	42.82	0.931	20	
Surr:4-Bromofluorobenzene	50.26	5.0	50	0	101	70-130	50.83	1.13	20	
Surr:Dibromofluoromethane	44.25	5.0	50	0	88.5	70-130	44.09	0.364	20	
Surr:Toluene-d8	48.77	5.0	50	0	97.5	70-130	48.65	0.245	20	

ND - Not Detected at the Reporting Limit

- Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0306268
 Project: Ponds

QC BATCH REPORT

Batch ID: R15049 InstrumentID: VOA_I

MS Sample ID: 0306271-01AMS TestCode: SW8260 Units: µg/L Analysis Date 07/07/03 16:00
 Client ID: Run ID: VOA_I_030707A SeqNo: 342234 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	59.74	5.0	50	0	119	76-127	0			
Ethylbenzene	57.6	5.0	50	0	115	75-125	0			
Methyl tert-butyl ether	55.9	5.0	50	0	112	75-125	0			
Toluene	53.81	5.0	50	0	108	76-125	0			
Xylenes, Total	171.5	15	150	0	114	75-125	0			
Surr: 1,2-Dichloroethane-d4	49.11	5.0	50	0	98.2	70-130	0			
Surr: 4-Bromofluorobenzene	54.02	5.0	50	0	108	70-130	0			
Surr: Dibromofluoromethane	51.59	5.0	50	0	103	70-130	0			
Surr: Toluene-d8	48.45	5.0	50	0	96.9	70-130	0			

MSD Sample ID: 0306271-01AMSD TestCode: SW8260 Units: µg/L Analysis Date 07/07/03 16:27
 Client ID: Run ID: VOA_I_030707A SeqNo: 342235 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	62.19	5.0	50	0	124	76-127	59.74	4.02	20	
Ethylbenzene	64.86	5.0	50	0	130	75-125	57.6	11.8	20	S
Methyl tert-butyl ether	58.55	5.0	50	0	117	75-125	55.9	4.63	20	
Toluene	59.39	5.0	50	0	119	76-125	53.81	9.85	20	
Xylenes, Total	186.8	15	150	0	125	75-125	171.5	8.55	20	
Surr: 1,2-Dichloroethane-d4	47.33	5.0	50	0	94.7	70-130	49.11	3.68	20	
Surr: 4-Bromofluorobenzene	53.15	5.0	50	0	106	70-130	54.02	1.61	20	
Surr: Dibromofluoromethane	49.69	5.0	50	0	99.4	70-130	51.59	3.75	20	
Surr: Toluene-d8	49.17	5.0	50	0	98.3	70-130	48.45	1.48	20	

The following samples were analyzed in this batch:

0306268-03A 0306268-04A

ND - Not Detected at the Reporting Limit

B - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0306268
 Project: Ponds

QC BATCH REPORT

Batch ID: R14913 InstrumentID: UV-2101PC

MBLK	Sample ID: WMBW1-062803	TestCode: E335.3	Units: mg/L	Analysis Date 06/28/03 0:00						
Client ID:	Run ID: UV-2101PC_030628A	SeqNo: 338730	Prep Date:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide	U	0.020								

LCS	Sample ID: WLCSW1-062803	TestCode: E335.3	Units: mg/L	Analysis Date 06/28/03 0:00						
Client ID:	Run ID: UV-2101PC_030628A	SeqNo: 338731	Prep Date:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide	0.1835	0.020	0.2	0	91.8	80-120	0			

MS	Sample ID: 0306268-03E MS	TestCode: E335.3	Units: mg/L	Analysis Date 06/28/03 0:00						
Client ID: OCD-5	Run ID: UV-2101PC_030628A	SeqNo: 338746	Prep Date:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide	0.2101	0.020	0.2	-0.0006	105	75-125	0			

MSD	Sample ID: 0306268-03E MSD	TestCode: E335.3	Units: mg/L	Analysis Date 06/28/03 0:00						
Client ID: OCD-5	Run ID: UV-2101PC_030628A	SeqNo: 338747	Prep Date:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide	0.2017	0.020	0.2	-0.0006	101	75-125	0.2101	4.08	25	

DUP	Sample ID: 0306268-03E DUP	TestCode: E335.3	Units: mg/L	Analysis Date 06/28/03 0:00						
Client ID: OCD-5	Run ID: UV-2101PC_030628A	SeqNo: 338745	Prep Date:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide	U	0.020	0	0	0	0-0	-0.0006	0	20	

The following samples were analyzed in this batch:

0306268-01E	0306268-02E	0306268-03E
0306268-04E		

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0306268
 Project: Ponds

QC BATCH REPORT

Batch ID: R15050 InstrumentID: IC201

MBLK	Sample ID: WBLKW1-070203	TestCode: E300	Units: mg/L	Analysis Date 07/02/03 13:30						
Client ID:	Run ID: IC201_030702A	SeqNo: 342085	Prep Date:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	U	0.50								
Fluoride	U	0.10								
Sulfate	U	1.0								
Surr: Dichloroacetic acid (surr)	U	0.10								

LCS	Sample ID: WLCSW1-070203	TestCode: E300	Units: mg/L	Analysis Date 07/02/03 14:02						
Client ID:	Run ID: IC201_030702A	SeqNo: 342086	Prep Date:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	10.19	0.50	10	0	102	80-120	0			
Fluoride	2.09	0.10	2	0	104	80-120	0			
Sulfate	11.04	1.0	10	0	110	80-120	0			
Surr: Dichloroacetic acid (surr)	1.68	0.10	2	0	84	80-120	0			

MS	Sample ID: 0307014-01CMS	TestCode: E300	Units: mg/L	Analysis Date 07/03/03 5:45						
Client ID:	Run ID: IC201_030702A	SeqNo: 342105	Prep Date:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	24.54	0.50	10	14.05	105	75-125	0			
Fluoride	1.95	0.10	2	0	97.5	75-125	0			
Sulfate	13.87	1.0	10	4.04	98.3	75-125	0			
Surr: Dichloroacetic acid (surr)	5.74	0.10	5	0	115	80-120	0			

MSD	Sample ID: 0307014-01CMSD	TestCode: E300	Units: mg/L	Analysis Date 07/03/03 6:18						
Client ID:	Run ID: IC201_030702A	SeqNo: 342106	Prep Date:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	25.01	0.50	10	14.05	110	75-125	24.54	1.9	20	
Fluoride	1.94	0.10	2	0	97	75-125	1.95	0.514	20	
Sulfate	13.78	1.0	10	4.04	97.4	75-125	13.87	0.651	20	
Surr: Dichloroacetic acid (surr)	5.79	0.10	5	0	116	80-120	5.74	0.867	20	

DUP	Sample ID: 0307014-01CDUP	TestCode: E300	Units: mg/L	Analysis Date 07/03/03 5:13						
Client ID:	Run ID: IC201_030702A	SeqNo: 342104	Prep Date:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	14.02	0.50	0	0	0	0-0	14.05	0.214	20	
Fluoride	U	0.10	0	0	0	0-0	0	0	20	
Sulfate	3.99	1.0	0	0	0	0-0	4.04	1.25	20	
Surr: Dichloroacetic acid (surr)	5.5	0.10	5	0	110	80-120	5.56	1.08	20	

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0306268
Project: Ponds

QC BATCH REPORT

Batch ID: R15050 InstrumentID: IC201

The following samples were analyzed in this batch:

0306268-01C	0306268-04C
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ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0306268
 Project: Ponds

QC BATCH REPORT

Batch ID: R15052 InstrumentID: IC201

MBLK	Sample ID: WBLKW1-070303	TestCode: E300	Units: mg/L	Analysis Date 07/03/03 22:33						
Client ID:	Run ID: IC201_030703A	SeqNo: 342112	Prep Date:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	U	0.50								
Fluoride	U	0.10								
Sulfate	U	1.0								
Surr: Dichloroacetic acid (surr)	U	0.10								

LCS	Sample ID: WLCSW1-070303	TestCode: E300	Units: mg/L	Analysis Date 07/03/03 23:05						
Client ID:	Run ID: IC201_030703A	SeqNo: 342113	Prep Date:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	10.25	0.50	10	0	102	80-120	0			
Fluoride	1.95	0.10	2	0	97.5	80-120	0			
Sulfate	11.19	1.0	10	0	112	80-120	0			
Surr: Dichloroacetic acid (surr)	1.88	0.10	2	0	94	80-120	0			

MS	Sample ID: 0307017-02BMS	TestCode: E300	Units: mg/L	Analysis Date 07/04/03 0:43						
Client ID:	Run ID: IC201_030703A	SeqNo: 342116	Prep Date:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	9.71	0.50	10	0	97.1	75-125	0			
Fluoride	1.96	0.10	2	0	98	75-125	0			
Sulfate	10.62	1.0	10	0	106	75-125	0			
Surr: Dichloroacetic acid (surr)	5.15	0.10	5	0	103	80-120	0			

MSD	Sample ID: 0307017-02BMSD	TestCode: E300	Units: mg/L	Analysis Date 07/04/03 1:15						
Client ID:	Run ID: IC201_030703A	SeqNo: 342117	Prep Date:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	9.69	0.50	10	0	96.9	75-125	9.71	0.206	20	
Fluoride	1.96	0.10	2	0	98	75-125	1.96	0	20	
Sulfate	10.61	1.0	10	0	106	75-125	10.62	0.0942	20	
Surr: Dichloroacetic acid (surr)	5.09	0.10	5	0	102	80-120	5.15	1.17	20	

DUP	Sample ID: 0307017-02BDUP	TestCode: E300	Units: mg/L	Analysis Date 07/04/03 0:10						
Client ID:	Run ID: IC201_030703A	SeqNo: 342115	Prep Date:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluoride	U	0.10	0	0	0	0-0	0	0	20	
Surr: Dichloroacetic acid (surr)	5.96	0.10	5	0	119	80-120	5.97	0.168	20	

The following samples were analyzed in this batch:

0306268-01C	0306268-02C	0306268-03C
0306268-04C		

- ND - Not Detected at the Reporting Limit
- J - Analyte detected below quantitation limits
- O - Referenced analyte value is > 4 times amount spiked
- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- P - Dual Column results percent difference > 40%
- B - Analyte detected in assoc. Method Blank
- U - Analyzed for but not detected
- E - Value above quantitation range

CLIENT: Navajo Refining Company
 Work Order: 0306268
 Project: Ponds

QC BATCH REPORT

Batch ID: R15057 InstrumentID: WetChemistry

MBLK	Sample ID: WMBW1-070703	TestCode: E310.1	Units: mg/L	Analysis Date 07/07/03 0:00						
Client ID:	Run ID: WET CHEMISTRY_0307	SeqNo: 342227	Prep Date:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	U	5.0								
Alkalinity, Carbonate (As CaCO3)	U	5.0								
Alkalinity, Hydroxide (As CaCO3)	U	5.0								
Alkalinity, Total (As CaCO3)	U	5.0								

LCS	Sample ID: WLCSW1-070703	TestCode: E310.1	Units: mg/L	Analysis Date 07/07/03 0:00						
Client ID:	Run ID: WET CHEMISTRY_0307	SeqNo: 342228	Prep Date:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	1071	5.0	1000	0	107	80-120	0	0		

DUP	Sample ID: 0306268-03C DUP	TestCode: E310.1	Units: mg/L	Analysis Date 07/07/03 0:00						
Client ID: OCD-5	Run ID: WET CHEMISTRY_0307	SeqNo: 342236	Prep Date:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	214.2	5.0	0	0	0	0-0	209.1	2.41	20	
Alkalinity, Carbonate (As CaCO3)	U	5.0	0	0	0	0-0	0	0	20	
Alkalinity, Hydroxide (As CaCO3)	U	5.0	0	0	0	0-0	0	0	20	
Alkalinity, Total (As CaCO3)	214.2	5.0	0	0	0	0-0	209.1	2.41	20	

The following samples were analyzed in this batch:

0306268-01C	0306268-02C	0306268-03C
0306268-04C		

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range



e-Lab, Inc.
10450 Shamrock Rd. #210
Houston, Texas 77099
(Tel) 281.530.5656
(Fax) 281.530.3887

Chain of Custody Form

Page 1 of 1

e-Lab, Inc.
3352 138th Avenue
Holland, Michigan 49424
(Tel) 616.399.6070
(Fax) 616.399.6185

Customer Information		Project Information		e-Lab Project Manager: <u>11001228</u>									
Purchase Order:	Project Name:	Ponds		A	B	C	D	E	F	G	H	I	J
Work Order:	Project Number:			Pairwise Methods: Request for Analysis									
Company Name:	Bill To Company:	Navajo Refining Company		BTEX & MTBE (8260)									
Serial Report To:	Invoiced To:	Jeff Byrd		SVOCs (8270-please designate list)									
Address:	Address:	P.O. Box 159		WQCC Metals (6020-18 metals)									
City/State/Zip:	City/State/Zip:	Artesia, New Mexico 88211		WQCC Fluoride (300)									
Phone:	Phone:	(505) 748-3311		WQCC Cyanide (335.3)									
Fax:	Fax:	(505) 748-5421		Cations (Na, K, Ca, & Mg-6020)									
e-Lab Address:	e-Lab Address:			Anions (Fluoride, Chloride, Sulfate, Carbonate, & Bicarbonate)									

No.	Sample Description	Date	Time	Volume	Pres.	1	2	3	4	5	6	7	8	9	10
1	MW-1														
2	MW-3														
3	MW-5														
4	MW-7														
5	QCD-1	6/26/03	0930	✓			X								
6	QCD-3		1030	✓			X								
7	QCD-5		1030	✓			X								
8	QCD-7		1100	✓			X								
9															
10															

Temperature: Please Print & Sign	Shipment Method:	Required Turnaround Time: (Check Box)	Res. Lab. Date:
Received by: <u>Byrd</u>		<input type="checkbox"/> STD: 10 Wk Days	
Date: <u>6/26</u>	Time: <u>1615</u>	<input type="checkbox"/> SVK Day	
Received by (Laboratory):	Lab Center:	<input type="checkbox"/> SWK Day	
Date: <u>6/26</u>	Time: <u>1615</u>	<input type="checkbox"/> On Hold	
Received by (Laboratory):	Lab Center:	<input type="checkbox"/> Other	
Date:	Time:	<input type="checkbox"/> SWK Day	
Received by (Laboratory):	Lab Center:	<input type="checkbox"/> SWK Day	
Date:	Time:	<input type="checkbox"/> On Hold	

Preparative Key: 1. HCl 2. HNO ₃ 3. H ₂ SO ₄ 4. NaOH 5. Na ₂ S ₂ O ₅ 6. NaHSO ₄ 7. Other 8. 4°C	QC Package: (Check Box(es))
	Level II: Standard QC
	Level III: Standard QC + Raw Data
	Level IV: SW846 Methods/CLP
	Others: _____
	X

Note: Any changes must be made in writing once samples and COC Form have been submitted to e-Lab, Inc.

Notes: 2 Cores

Sample Receipt Checklist

Client Name NAVAJO REFINING COMPAN

Date/Time Received: 6/27/2003 9:00:00 AM

Work Order Number 0306268

Received by: RSZ

Checklist completed by RICHARD SANCHEZ 6-27-03
Signature Date

Reviewed by RS 6/30/03
Initials Date

Matrix: W

Carrier name FedEx

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No
- Temperature(s)/Thermometer(s): 2.1c, 2.3c 003
- Water - VOA vials have zero headspace? Yes No No VOA vials submitted
- Water - pH acceptable upon receipt? Yes No N/A

Adjusted? _____ Checked by _____

Login Notes: Trip blank not on COC; logged in without analysis.

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

0306266

NAVAJO REFINING COMPANY
501 E. MAIN STREET
ARTESIA NM 88210
5057483311

SHIP DATE: 26JUN2003
ACCOUNT #: 113684186
ACTUAL WGT: 58.00 LBS

SHIP # 156148-494 NRI 602



TO:

E-LAB
SAMPLE RECEIVING
10450 STANCLIFF ROAD STE 210
HOUSTON TX 77099

2815305656
BILL RECIPIENT



Delivery Address Barcode

FedEx PRIORITY OVERNIGHT

FRI

System # 2223500 26JUN2003

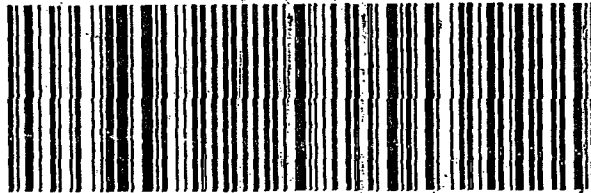
DELIVER BY:
27JUN2003

TRK# 7903 3179 4968 Form 0201

IAH A2

77099-TX-US

A9 JGQA



OSUS VR 12.00 2223500 2844 04/02

Track: 790331794968
Mode: FedEx Express Priority

Invoice:	Date: 06/26/2003	Shipping:	0.00
Customer: ELAB	Weight: 58.00	Special:	0.00
Dept: ENV	COD: 0.00	Handling:	0.00
	DV: 0.00	Total:	0.00