Los Alamos
NATIONAL LABORATORY

Los Alamos National Laboratory
Los Alamos, New Mexico 87545

Date: January 26, 2000
In Reply Refer To: ESH-18/WQ&H:00-0029
Mail Stop: K497
Telephone: (505) 665-1859

LANL (General) (Groundwater Discharge Plan, NPDES outfalls)

Ms. Phyllis Bustamante
Ground Water Pollution Prevention Section
Ground Water Quality Bureau
New Mexico Environment Department
P.O. Box 26110
Santa Fe, New Mexico 87502

SUBJECT: LOS ALAMOS NATIONAL LABORATORY, GROUND WATER DISCHARGE PLAN ANNUAL REPORT FOR 1999, SANITARY WASTEWATER SYSTEMS (SWS) FACILITY (DP-857)

LANL / Non-HSWA Regulatory

Dear Ms. Bustamante:

The enclosed report and attachments are Los Alamos National Laboratory's Annual Report for the Sanitary Wastewater Systems (SWS) Facility's Ground Water Discharge Plan (DP-857) for 1999. In addition to satisfying the annual reporting requirements under DP-857, the enclosed report also contains the quarterly monitoring data required by DP-857.

If you have any questions regarding this Ground Water Discharge Plan Annual Report for 1999 please call Bob Beers of my staff at (505) 667-7969.

Sincerely,

Steven Rae
Water Quality and Hydrology Group

SR:RB/rm

Enclosures: a/s

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Cy: J. Davis, NMED/SQWB, Santa Fe, New Mexico, w/enc.
B. Hoditschek, NMED/SWQB, Santa Fe, New Mexico, w/enc.
J. Parker, NMED DOE/OB, Santa Fe, New Mexico, w/enc.
J. Vozella, DOE/LAAO, w/enc., MS A316
M. Johansen, DOE/LAAO, w/enc., MS A316
T. Gunderson, DLDOPS, w/enc., MS A100
E. Hoth, FWO-UI, w/enc., MS K718
M. Saladen, ESH-18, w/enc., MS K497
B. Beers, ESH-18, w/enc., MS K497
WQ&H File, w/enc., MS K497
CIC-10, w/enc., MS A150

13332

GROUND WATER DISCHARGE PLAN (DP-857) ANNUAL REPORT, 1999

for the

SANITARY WASTEWATER SYSTEMS (SWS) FACILITY

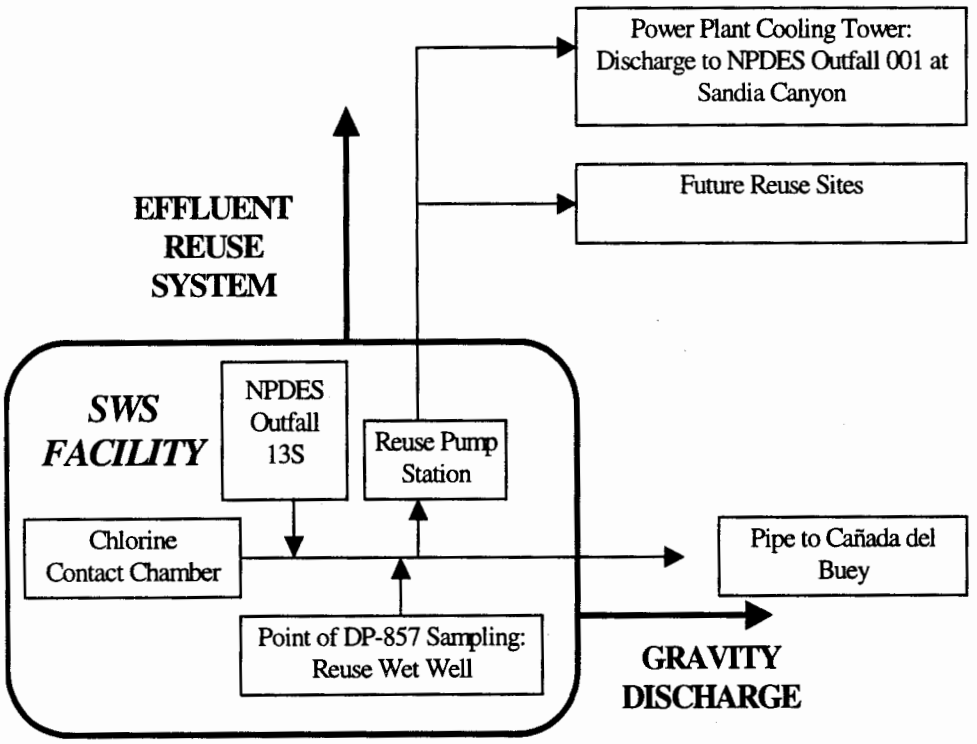
LOS ALAMOS
NATIONAL LABORATORY

January 31, 2000

INTRODUCTION

Sanitary wastewater generated at Los Alamos National Laboratory (Laboratory) is treated at the TA-46 Sanitary Wastewater Systems (SWS) Facility [formerly the TA-46 Sanitary Wastewater Systems Consolidation (SWSC) Plant]. Effluent from the SWS Facility may be discharged through NPDES Outfall 13S by gravity to Cañada del Buey or pumped via an effluent reuse system up to TA-3 to supply make-up water for the Laboratory's power plant cooling towers (See **Figure 1**.). To date, all SWS Facility effluent has been pumped to the effluent reuse system, none has been discharged to Cañada del Buey. Prior to July 30, 1998, that portion of the effluent which was not needed for reuse was discharged to Sandia Canyon via the discharge pipe previously permitted as NPDES Outfall 01S (old 01S outfall). On July 30, 1998, the old 01S outfall was eliminated as a discharge point for SWS Facility reuse water. Under current operations, all SWS Facility effluent not reused by the power plant is being discharged with the power plant's effluent at NPDES Outfall 001.

Figure 1. Effluent Reuse System Schematic



SWS FACILITY DISCHARGES TO CAÑADA DEL BUEY

During 1999, no effluent discharges were made by the SWS Facility into Cañada del Buey. Except for SWS Facility irrigation water used on site at TA-46, all treated effluent was delivered by a force main to TA-3 for cooling tower reuse or discharge to Sandia Canyon.

EFFLUENT IRRIGATION AT THE SWS FACILITY

During the months of April through October 1999, effluent from the SWS Facility was re-used to irrigate approximately 1/3 acre of turf grass on the facility's grounds. Distribution of the reuse water is controlled though an automatic sprinkler system.

4th QUARTER 1999 MONITORING: REUSE WET WELL, OUTFALL 001, CDBO-6

Attachment 1.0, **Table 1.0**, presents the analytical results from the 4th quarter monitoring at the SWS Facility's reuse wet well (Note: water in the reuse wet well is representative of reuse pond water), the power plant's NPDES Outfall 001, and Cañada del Buey alluvial monitoring well CDBO-6. All sample results in Table 1.0 are less than New Mexico Water Quality Control Commission (NM WQCC) Regulation 3103 Ground Water Standards. The complete analytical reports for the data in Table 1.0 are in Appendix A.

Attachment 2.0, **Table 2.0**, presents the water level in Cañada del Buey monitoring well during the fourth quarter of 1999.

Attachment 2.0, **Table 3.0**, presents the discharge volumes from the SWS Facility's force main and the power plant's NPDES Outfall 001 for the 4th quarter of 1999.

1999 ANNUAL MONITORING: REUSE WET WELL, CDBO-6

Attachment 3.0, **Table 4.0**, presents the analytical results from the annual monitoring of the SWS Facility's reuse water (sampling point: SWS Facility reuse wet well) and Cañada del Buey monitoring well, CDBO-6. The SWS Facility reuse wet well sample was collected on January 5, 2000, not in CY1999 as required by discharge plan DP-857 due to a scheduling error by the Laboratory. The NMED GWQB was notified via telephone of this error on January 11, 2000.

All sample results for inorganics, metals, and radiological constituents were less than NM WQCC Regulation 3103 Ground Water Standards. The complete analytical report for the SWS Facility's reuse water data is in Appendix A. The analytical report for the CDBO-6 annual data is available upon request.

1999 ANNUAL MONITORING: REUSE WET WELL, CDBO-6 (con't)

Attachment 4.0, **Table 5.0**, presents a list of the volatile organic (VOC) and semivolatile organic (SVOC) compounds detected in the SWS Facility's reuse water and at CDBO-6 during 1999. A complete list of VOC and SVOC compounds analyzed for in 1999 are presented in Appendix A.

Five VOCs were detected in the SWS Facility's reuse water in 1999. Four of these compounds, bromodichloromethane (19 µg/L), chlorodibromomethane (15 µg/L), chloroform (11 µg/L), and bromoform (2.5 µg/L), are all common disinfection by-products called trihalomethanes (THMs). The current Safe Drinking Water Act (SDWA) Maximum Contaminant Level (MCL) for total THMs in drinking water is 80 µg/L. The fifth VOC detected was toluene (1.7 µg/L). In order to confirm the detection of toluene, a repeat sample will be collected in February, 1999, and the results will be reported in the April, 2000, DP-857 quarterly report.

One VOC was detected in a CDBO-6 ground water sample in 1999: bis(2-ethylhexyl)phthalate (2.9 µg/L). Bis(2-ethylhexyl)phthalate is a common ingredient in plastics. Its presence in this sample is suspected to be a result of contamination by the analytical laboratory or the sampler. No bis(2-ethylhexyl)phthalate was detected in CDBO-6 in 1998.

OPERATIONAL EFFLUENT MONITORING: TOTAL NITROGEN

Attachment 5.0, **Table 6.0**, presents the TKN, Ammonia (NH3-N), Nitrate+Nitrite-N, and Total Nitrogen data for SWS Facility effluent for 1999.

In 1999, the total nitrogen concentration (as N) in the SWS Facility's effluent was consistently below10 mg/L. The average total nitrogen concentration (as N) in the SWS Facility's effluent during 1999 was 4.38 mg/L.

Table 1.0 Water Quality Data for SWS Facility Reuse Water, Power Plant NPDES Outfall 001, and CDBO-6, 4th Quarter 1999.

Sampling Location	Sample Date	Sample ID No.	TDS (mg/L)	Chloride (mg/L)	NO3-N (mg/L)	TKN (mg/L)	NH3-N (mg/L)
SWSC Plant Monitoring							
SWSC Plant Reuse Wet Well*	11/22/99	REUSE.112299	396	73.8	4.0	0.5	<0.2
Sandia Canyon Monitoring							
Power Plant NPDES Outfall 001	11/22/99	001.112299	875	194	6.1	2.3	0.2
Canada del Buey Ground Water Monitoring							
CDBO-6	11/23/99	CDBO6.112399	154	17.7	<0.1	<0.2	<0.2
NM WQCC Regulation 3103 Ground Water Standards (mg/L)			*1000*	*250*	*10*		

Notes:
*Water in the reuse wet well is representative of water in the reuse pond.

Table 2.0. Water Level in Cañada del Buey Observation Well (CDBO)-6, 4th Quarter 1999.

Location	Date	Water Level† (ft)
CDBO-6	11/23/99	36.60

† Measured in feet from the top of the well casing to the surface of the water.

Table 3.0. Discharge Volumes at SWS Facility Force Main and Power Plant NPDES Outfall 001, 4th Quarter 1999 (in millions of gallons).

Month/Year	SWS Facility Force Main	Power Plant 001 Outfall
October, 1999	7.669	4.298
November, 1999	8.101	4.535
December, 1999	6.810	5.174

Table 4.0 Annual Water Quality Data: Inorganics, Metals, and Radiological Results for SWS Facility Reuse Pond and CDBO-6, 1999.

Sampling Location	Sample Date	As (mg/L)	Ba (mg/L)	Cd (mg/L)	Cr (mg/L)	CN (mg/L)	Cu (mg/L)	F (mg/L)	Fe (mg/L)	Hg (ug/L)	Pb (mg/L)	Mn (mg/L)	Se (mg/L)	SO_4 (mg/L)	Ag (mg/L)	Zn (mg/L)	Gross Alpha (pCi/L)	Ra-226 (pCi/L)	Ra-228 (pCi/L)
SWS Reuse Wet Well[1,5]	1/5/00[6]	<0.06	<0.01	<0.006	<0.01	<0.01	0.01	<0.5	0.08	<0.2	<0.06	<0.01	<0.05	11.8	<0.01	0.13	0.07 (1.15)[4]	3.19 (0.85)[4]	3.99 (0.8
CDBO-6[2]	6/30/99	0.002	0.077	<0.007	<0.007	<0.01[1]	<0.01	0.18	<0.04	<0.2[1]	<0.003	<0.002	<0.002	9.04[1]	<0.01	<0.05	14.6 (5.79)[1,4]	NA	NA
NMWQCC 3103 Ground Water Standards (mg/L)		*0.1*	*1*	*0.01*	*0.05*	*0.2*	*1*	*1.6*	*1*	*2 ug/L*	*0.05*	*0.2*	*0.05*	*600*	*0.05*	*10*		*30*[3]	*30*[3]

Notes

[1] Nonfiltered sample.

[2] Filtered sample with the exception of CN, Hg, S04, and Gross Alpha.

[3] The standard applies to the combined Radium 226 & Radium 228.

[4] Analytical uncertainty.

[5] Water in the reuse wet well is representative of water in the reuse pond.

[6] CY99 sample collected in CY00 due to scheduling error.

NA means that no results are available for this analyte.

Table 5.0. Annual VOC and SVOC Detections for SWS Facility Reuse Water and CDBO-6, 1999.

Sampling Location/Type	Sample Date	VOC and SVOC Detections at Concentrations Greater than the Analytical Laboratory's Detection Limts	Results (ug/L)
SWS Reuse Water			
VOC	1/5/00	Bromodichloromethane[1]	19
		Chlorodibromomethane[1]	15
		Chloform[1]	11
		Bromoform[1]	2.5
		Toluene	1.7
CDBO-6			
VOC	6/30/99	Bis(2-ethylhexyl)phthalate	2.9

Notes:
[1]By-products from the disinfection of SWS Facility effluent.

Table 6.0 SWS Facility Effluent Nitrogen Data for 1999.

Sample Date	TKN (mg/L)	NH3-N (mg/L)	Nitrate+Nitrite-N (mg/L)	Total Nitrogen[1] (mg/L)
1/6/99	0.49	0.01	2.24	2.73
1/12/99	0.29	0.01	4.55	4.84
1/20/99	0.22	0.01	5.55	5.77
2/3/99	0.48	0.03	4.82	5.3
2/9/99	0.22	0.01	4.07	4.29
2/17/99	0.48	0.01	3.68	4.16
3/3/99	1.09	0.01	3.21	4.3
3/11/99	0.7	0.01	6.55	7.25
3/17/99	0.92	0.28	4.52	5.44
4/7/99	0.3	0.04	5.62	5.92
4/13/99	0.37	0.01	4.52	4.89
4/21/99	0.63	0.01	2.73	3.36
5/6/99	NT	NT	4.62	4.62
5/11/99	0.76	0.01	1.31	2.07
5/19/99	0.78	0.01	1.86	2.64
6/3/99	0.25	0.01	3.92	4.17
6/9/99	0.5	0.01	5.61	6.11
6/15/99	0.53	0.01	5.51	6.04
7/8/99	0.92	0.01	2.87	3.79
7/14/99	1.76	0.01	3.12	4.88
7/20/99	0.82	0.11	1.5	2.32
8/5/99	1.08	0.01	5.79	6.87
8/11/99	0.84	0.01	2.7	3.54
9/2/99	0.47	0.01	4.91	5.38
9/15/99	0.74	0.01	3.61	4.35
10/5/99	0.72	0.01	1.77	2.49
10/14/99	0.63	0.01	1.63	2.26
10/20/99	0.24	0.01	5.94	6.18
11/3/99	0.73	0.01	1.44	2.17
11/10/99	0.6	0.01	1.69	2.29
11/18/99	0.83	0.01	4.45	5.28
12/2/99	0.5	0.17	4.09	4.59
12/9/99	1.08	0.32	5.14	6.22
12/15/99	0.85	0.01	1.68	2.53
Annual Averages	**0.66**	**0.04**	**3.74**	**4.38**

Notes:

[1]Total nitrogen is the sum of TKN and Nitrate+Nitrite.
NT means that no test was conducted on this sample.

APPENDIX A

Table of Contents

1) Assaigai Analytical Laboratories Report:
-4th Quarter 1999 Monitoring: CDBO-6
-4th Quarter 1999 Monitoring: Reuse Pond Water
-4th Quarter 1999 Monitoring: Power Plant Outfall 001

2) Assaigai Analytical Laboratories Report:
-Annual Monitoring: Reuse Pond Water

3) LANL 1999 Environmental Surveillance Program Monitoring Results:
-CDBO-6: PCB, VOC and SVOC

ASSAIGAI
ANALYTICAL
LABORATORIES, INC.
7300 Jefferson, NE • Albuquerque, New Mexico 87109 • (505) 345-8964 • FAX (505) 345-7259
3332 Wedgewood Dr., Suite N • El Paso, Texas 79925 • (915) 593-6000 • FAX (915) 593-7820
127 Eastgate Drive, 212-C • Los Alamos, New Mexico 87544 • (505) 662-2558

Explanation of codes	
B	analyte detected in Method Blank
E	result is estimated
H	analyzed out of hold time
N	tentatively identified compound
S	subcontracted
1-9	see footnote

LOS ALAMOS NATIONAL LABS
attn: **BOB BEERS**
PO BOX 1663-MSK497
LOS ALAMOS, NM 87545

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **LOS ALAMOS NATIONAL LABS**
Project: **9911245 SWS GWDP 7C18WE3A00000000**

William P. Biava: President of Assaigai Analytical Laboratories, Inc.

Client Sample ID ***REUSE.112299*** Sample Matrix ***H2O*** Sample Collected ***11/22/99 14:30:00***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Run Date
9911245-01A		**EPA 300.0**							
W99281	MW.1999.1447-26		Nitrate, as N	4.0	mg / L	1	0.1		12/01/99
9911245-01A		**SM 4500-N & NH3B,C**							
W99280	MW.1999.1441-29		Kjeldahl Nitrogen, Total	0.5	mg / L	1	0.2		11/30/99
9911245-01A		**SM 4500-NH3B,C**							
W99282	MW.1999.1446-20	7664-41-7	Ammonia, as N	ND	mg / L	1	0.2		12/01/99
9911245-01B		**EPA 160.1**							
TD9936	MT.1999.3010-3		Total Dissolved Solids	396	mg / L	1	10		11/29/99
9911245-01B		**EPA 300.0**							
W99281	MW.1999.1457-7		Chloride	73.8	mg / L	5	0.5		12/02/99

Client Sample ID ***001.112299*** Sample Matrix ***H2O*** Sample Collected ***11/22/99 15:00:00***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Run Date
9911245-02A		**EPA 300.0**							
W99281	MW.1999.1447-28		Nitrate, as N	6.1	mg / L	1	0.1		12/01/99

Member:
American Council of
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Certificate of Analysis

Client: **LOS ALAMOS NATIONAL LABS**

Project: **9911245 SWS GWDP 7C18WE3A00000000**

9911245-02A		**SM 4500-N & NH3B,C**							
W99280	MW.1999.1441-27		Kjeldahl Nitrogen, Total	2.3	mg / L	1	0.2		11/30/99
9911245-02A		**SM 4500-NH3B,C**							
W99282	MW.1999.1446-21	7664-41-7	Ammonia, as N	0.2	mg / L	1	0.2		12/01/99
9911245-02B		**EPA 160.1**							
TD9936	MT.1999.3010-4		Total Dissolved Solids	875	mg / L	1	10		11/29/99
9911245-02B		**EPA 300.0**							
W99281	MW.1999.1457-8		Chloride	194	mg / L	10	0.5		12/02/99

Client Sample ID ***CDB06.112399*** Sample Matrix ***H2O*** Sample Collected ***11/23/99 10:25:00***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Run Date
9911245-03A		**EPA 300.0**							
W99281	MW.1999.1447-31		Nitrate, as N	ND	mg / L	1	0.1		12/01/99
9911245-03A		**SM 4500-N & NH3B,C**							
W99280	MW.1999.1441-28		Kjeldahl Nitrogen, Total	ND	mg / L	1	0.2		11/30/99
9911245-03A		**SM 4500-NH3B,C**							
W99282	MW.1999.1446-7	7664-41-7	Ammonia, as N	ND	mg / L	1	0.2		12/01/99
9911245-03B		**EPA 160.1**							
TD9936	MT.1999.3010-2		Total Dissolved Solids	154	mg / L	1	10		11/29/99
9911245-03B		**EPA 300.0**							
W99281	MW.1999.1447-21		Chloride	17.7	mg / L	1	0.5		12/01/99

**** Sample specific Detection Limit is determined by multiplying the sample Dilution Factor by the listed Reporting Detection Limit. ****

**** ND = Not detected: less than the sample specific Detection Limit. Results relate only to the items tested. ****

Assaigai Analytical Laboratories, Inc.

Quality Control Summary

Client: **LOS ALAMOS NATIONAL LABS**

Project: **9911245** **SWS GWDP 7C18WE3A00000000**

Explanation of codes	
D	*Not applicable due to sample dilution*
L	*Not applicable due to MDL proximity*

QC Type **LCS: Lab Control Spike** QC Matrix **WATER**

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Run Date
TD9936-2986-2		**EPA 160.1**							
TD9936	MT.1999.2986-2		Total Dissolved Solids	96	% Recovery	1	NA		11/24/99
W99280-003		**SM 4500-N & NH3B,C**							
W99280	MW.1999.1441-4		Kjeldahl Nitrogen, Total	95	(%) Recov	1	NA		11/30/99
W99281-002		**EPA 300.0**							
W99281	MW.1999.1447-4		Chloride	97	% Recovery	1	NA		12/01/99
W99281	MW.1999.1447-4		Nitrate, as N	97	% Recovery	1	NA		12/01/99
W99282-003		**SM 4500-NH3B,C**							
W99282	MW.1999.1446-4	7664-41-7	Ammonia, as N	94	(%) Recov	1	NA		12/01/99

QC Type **LCSD: Lab Control Spike Duplicate Accuracy** QC Matrix **WATER**

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Run Date
TD9936-2986-3		**EPA 160.1**							
TD9936	MT.1999.2986-3		Total Dissolved Solids	97	% Recovery	1	NA		11/24/99
W99280-004		**SM 4500-N & NH3B,C**							
W99280	MW.1999.1441-5		Kjeldahl Nitrogen, Total	100	(%) Recov	1	NA		11/30/99
W99281-003		**EPA 300.0**							
W99281	MW.1999.1447-5		Chloride	97	% Recovery	1	NA		12/01/99
W99281	MW.1999.1447-5		Nitrate, as N	98	% Recovery	1	NA		12/01/99
W99282-004		**SM 4500-NH3B,C**							
W99282	MW.1999.1446-5	7664-41-7	Ammonia, as N	92	(%) Recov	1	NA		12/01/99

QC Type **LCSD: Lab Control Spike Duplicate Precision** QC Matrix **WATER**

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Run Date
TD9936-2986-3		**EPA 160.1**							
TD9936	MT.1999.2986-3		Total Dissolved Solids	< 1	PFA	1	NA		11/24/99
W99280-004		**SM 4500-N & NH3B,C**							
W99280	MW.1999.1441-5		Kjeldahl Nitrogen, Total	5	(%) RPD	1	NA		11/30/99
W99281-003		**EPA 300.0**							
W99281	MW.1999.1447-5		Chloride	< 1	RPD	1	NA		12/01/99
W99281	MW.1999.1447-5		Nitrate, as N	< 1	RPD	1	NA		12/01/99

Quality Control Summary

Client: **LOS ALAMOS NATIONAL LABS**

Project: **9911245** **SWS GWDP 7C18WE3A00000000**

Explanation of codes	
D	*Not applicable due to sample dilution*
L	*Not applicable due to MDL proximity*

W99282-004		**SM 4500-NH3B,C**							
W99282	MW.1999.1446-5	7664-41-7	Ammonia, as N	2	(%) RPD	1	NA		12/01/99

QC Type **MB: Method Blank** QC Matrix **WATER**

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Run Date
TD9936-2986-1		**EPA 160.1**							
TD9936	MT.1999.2986-1		Total Dissolved Solids	ND	mg / L	1	10		11/24/99
TD9936-3010-1		**EPA 160.1**							
TD9936	MT.1999.3010-1		Total Dissolved Solids	ND	mg / L	1	10		11/29/99
TD9936-3037-1		**EPA 160.1**							
TD9936	MT.1999.3037-1		Total Dissolved Solids	ND	mg / L	1	10		12/01/99
W99280-001		**SM 4500-N & NH3B,C**							
W99280	MW.1999.1441-2		Kjeldahl Nitrogen, Total	ND	mg / L	1	0.2		11/30/99
W99280-012		**SM 4500-N & NH3B,C**							
W99280	MW.1999.1441-14		Kjeldahl Nitrogen, Total	ND	mg / L	1	0.2		11/30/99
W99281-001		**EPA 300.0**							
W99281	MW.1999.1447-3		Chloride	ND	mg / L	1	0.5		12/01/99
W99281	MW.1999.1447-3		Nitrate, as N	ND	mg / L	1	0.1		12/01/99
W99281-024		**EPA 300.0**							
W99281	MW.1999.1457-3		Chloride	ND	mg / L	1	0.5		12/02/99
W99281	MW.1999.1457-3		Nitrate, as N	ND	mg / L	1	0.1		12/02/99
W99282-001		**SM 4500-NH3B,C**							
W99282	MW.1999.1446-2	7664-41-7	Ammonia, as N	ND	mg / L	1	0.2		12/01/99

QC Type **MD: Matrix Duplicate** QC Matrix **WATER**

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Run Date
TD9936-2986-6		**EPA 160.1**							
TD9936	MT.1999.2986-6		Total Dissolved Solids	1	PFA	1	NA		11/24/99

QC Type **MS: Matrix Spike** QC Matrix **WATER**

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Run Date
W99280-007		**SM 4500-N & NH3B,C**							
W99280	MW.1999.1441-8		Kjeldahl Nitrogen, Total	82	(%) Recov	1	NA		11/30/99
W99281-006		**EPA 300.0**							
W99281	MW.1999.1447-8		Chloride	103	% Recovery	10	NA		12/01/99

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Project: **9911245** **SWS GWDP 7C18WE3A00000000**

Explanation of codes	
D	*Not applicable due to sample dilution*
L	*Not applicable due to MDL proximity*

W99281	MW.1999.1447-8		Nitrate, as N	95	% Recovery	10	NA		12/01/99
W99282-007		**SM 4500-NH3B,C**							
W99282	MW.1999.1446-8	7664-41-7	Ammonia, as N	93	(%) Recov	1	NA		12/01/99

QC Type **MSD: Matrix Spike Duplicate Accuracy** QC Matrix **WATER**

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Run Date
W99280-008		**SM 4500-N & NH3B,C**							
W99280	MW.1999.1441-9		Kjeldahl Nitrogen, Total	83	(%) Recov	1	NA		11/30/99
W99281-007		**EPA 300.0**							
W99281	MW.1999.1447-9		Chloride	104	% Recovery	10	NA		12/01/99
W99281	MW.1999.1447-9		Nitrate, as N	95	% Recovery	10	NA		12/01/99
W99282-008		**SM 4500-NH3B,C**							
W99282	MW.1999.1446-9	7664-41-7	Ammonia, as N	93	(%) Recov	1	NA		12/01/99

QC Type **MSD: Matrix Spike Duplicate Precision** QC Matrix **WATER**

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Run Date
W99280-008		**SM 4500-N & NH3B,C**							
W99280	MW.1999.1441-9		Kjeldahl Nitrogen, Total	1	(%) RPD	1	NA		11/30/99
W99281-007		**EPA 300.0**							
W99281	MW.1999.1447-9		Chloride	< 1	RPD	10	NA		12/01/99
W99281	MW.1999.1447-9		Nitrate, as N	< 1	RPD	10	NA		12/01/99
W99282-008		**SM 4500-NH3B,C**							
W99282	MW.1999.1446-9	7664-41-7	Ammonia, as N	< 1	(%) RPD	1	NA		12/01/99

ASSAIGAI
ANALYTICAL
LABORATORIES, INC.
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3332 Wedgewood Dr., Suite N • El Paso, Texas 79925 • (915) 593-6000 • FAX (915) 593-7820
127 Eastgate Drive, 212-C • Los Alamos, New Mexico 87544 • (505) 662-2558

Explanation of codes	
B	analyte detected in Method Blank
E	result is estimated
H	analyzed out of hold time
N	tentatively identified compound
S	subcontracted
1-9	see footnote

LOS ALAMOS NATIONAL LABS
attn: **BOB BEERS**
PO BOX 1663-MSK497
LOS ALAMOS, NM 87545

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **LOS ALAMOS NATIONAL LABS**
Project: **0001071 SWSC 7C18WE3A00000000**

William P. Biava: President of Assaigai Analytical Laboratories, Inc.

Client Sample ID ***REUSE,010500*** Sample Matrix ***H2O*** Sample Collected ***01/05/00 14:30:00***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Run Date
0001071-01A		**EPA 245.1 CVAA**							
M0037	MT.2000.125-15	7439-97-6	Mercury	ND	mg / L	1	0.0002		01/13/00
0001071-01A		**EPA 4.1.3/200.7 ICP**							
M0046	MW.2000.66-25	7440-38-2	Arsenic	ND	mg / L	1	0.06		01/14/00
M0046	MW.2000.66-25	7440-39-3	Barium	ND	mg / L	1	0.01		01/14/00
M0046	MW.2000.66-25	7440-43-9	Cadmium	ND	mg / L	1	0.006		01/14/00
M0046	MW.2000.73-19	7440-47-3	Chromium	ND	mg / L	1	0.01		01/18/00
M0046	MW.2000.66-25	7440-50-8	Copper	0.01	mg / L	1	0.01		01/14/00
M0046	MW.2000.73-19	7439-89-6	Iron	0.08	mg / L	1	0.05		01/18/00
M0046	MW.2000.73-19	7439-92-1	Lead	ND	mg / L	1	0.06		01/18/00
M0046	MW.2000.66-25	7439-96-5	Manganese	ND	mg / L	1	0.01		01/14/00
M0046	MW.2000.66-25	7782-49-2	Selenium	ND	mg / L	1	0.05		01/14/00
M0046	MW.2000.66-25	7440-22-4	Silver	ND	mg / L	1	0.01		01/14/00
M0046	MW.2000.66-25	7440-66-6	Zinc	0.13	mg / L	1	0.02		01/14/00
0001071-01B		**EPA 335.2 / SM 4500 CN-C**							
W008	MW.2000.41-13		Cyanide, Total	ND	mg / L	1	0.01		01/11/00
0001071-01C		**EPA 300.0**							
W009	MW.2000.50-10		Fluoride	ND	mg / L	1	0.5		01/11/00
W009	MW.2000.50-10		Sulfate	11.8	mg / L	1	0.5		01/11/00

Member:
American Council of
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Project: **0001071 SWSC 7C18WE3A00000000**

0001071-01D		**EPA 900**							
ARS-00-55	MT.2000.248-1		Gross Alpha	0.07 +/- 1.15	pCi/L	1	3.58	S	01/20/00
0001071-01E		**EPA 903**							
ARS	MT.2000.250-1		Radium-226	3.19 +/- 0.85	pCi/L	1	1.22	S	01/20/00
0001071-01E		**EPA 904**							
ARS	MT.2000.251-1		Radium-228	3.99 +/- 0.84	pCi/L	1	1.76	S	01/20/00
0001071-01F		**SW846 8260A Purgeable VOCs by GC/MS**							
X003	XG.2000.49-2	75-34-3	1,1 Dichloroethane	ND	ug / L	1	1		01/12/00
X003	XG.2000.49-2	75-35-4	1,1 Dichloroethene	ND	ug / L	1	1		01/12/00
X003	XG.2000.49-2	71-55-6	1,1,1 Trichloroethane	ND	ug / L	1	1		01/12/00
X003	XG.2000.49-2	630-20-6	1,1,1,2 Tetrachloroethane	ND	ug / L	1	1		01/12/00
X003	XG.2000.49-2	79-00-5	1,1,2 Trichloroethane	ND	ug / L	1	1		01/12/00
X003	XG.2000.49-2	79-34-5	1,1,2,2 Tetrachloroethane	ND	ug / L	1	1		01/12/00
X003	XG.2000.49-2	106-93-4	1,2 Dibromoethane (EDB)	ND	ug / L	1	1		01/12/00
X003	XG.2000.49-2	95-50-1	1,2 Dichlorobenzene	ND	ug / L	1	1		01/12/00
X003	XG.2000.49-2	107-06-2	1,2 Dichloroethane	ND	ug / L	1	1		01/12/00
X003	XG.2000.49-2	78-87-5	1,2 Dichloropropane	ND	ug / L	1	1		01/12/00
X003	XG.2000.49-2	96-18-4	1,2,3 Trichloropropane	ND	ug / L	1	1		01/12/00
X003	XG.2000.49-2	95-63-6	1,2,4-Trimethylbenzene	ND	ug / L	1	1		01/12/00
X003	XG.2000.49-2	541-73-1	1,3 Dichlorobenzene	ND	ug / L	1	1		01/12/00
X003	XG.2000.49-2	108-67-8	1,3,5-Trimethylbenzene	ND	ug / L	1	1		01/12/00
X003	XG.2000.49-2	764-41-0	1,4 Dichloro-2-butene	ND	ug / L	1	10		01/12/00
X003	XG.2000.49-2	106-46-7	1,4 Dichlorobenzene	ND	ug / L	1	1		01/12/00
X003	XG.2000.49-2	78-93-3	2-Butanone (MEK)	ND	ug / L	1	5		01/12/00
X003	XG.2000.49-2	110-75-8	2-Chloroethylvinylether	ND	ug / L	1	5		01/12/00
X003	XG.2000.49-2	591-78-6	2-Hexanone (MBK)	ND	ug / L	1	5		01/12/00
X003	XG.2000.49-2	108-10-1	4-Methyl-2-pentanone (MIBK)	ND	ug / L	1	5		01/12/00
X003	XG.2000.49-2	67-64-1	Acetone	ND	ug / L	1	10		01/12/00
X003	XG.2000.49-2	107-02-8	Acrolein	ND	ug / L	1	20		01/12/00
X003	XG.2000.49-2	107-13-1	Acrylonitrile	ND	ug / L	1	20		01/12/00
X003	XG.2000.49-2	71-43-2	Benzene	ND	ug / L	1	1		01/12/00
X003	XG.2000.49-2	75-27-4	Bromodichloromethane	19	ug / L	1	1		01/12/00
X003	XG.2000.49-2	75-25-2	Bromoform	2.5	ug / L	1	1		01/12/00
X003	XG.2000.49-2	74-83-9	Bromomethane	ND	ug / L	1	5		01/12/00
X003	XG.2000.49-2	75-15-0	Carbon disulfide	ND	ug / L	1	5		01/12/00
X003	XG.2000.49-2	56-23-5	Carbon tetrachloride	ND	ug / L	1	1		01/12/00
X003	XG.2000.49-2	108-90-7	Chlorobenzene	ND	ug / L	1	1		01/12/00
X003	XG.2000.49-2	124-48-1	Chlorodibromomethane	15	ug / L	1	1		01/12/00
X003	XG.2000.49-2	75-00-3	Chloroethane	ND	ug / L	1	5		01/12/00
X003	XG.2000.49-2	67-66-3	Chloroform	11	ug / L	1	1		01/12/00
X003	XG.2000.49-2	74-87-3	Chloromethane	ND	ug / L	1	5		01/12/00
X003	XG.2000.49-2	156-59-2	cis-1,2 dichloroethene	ND	ug / L	1	1		01/12/00
X003	XG.2000.49-2	10061-01-5	cis-1,3 dichloropropene	ND	ug / L	1	1		01/12/00
X003	XG.2000.49-2	74-95-3	Dibromomethane	ND	ug / L	1	1		01/12/00
X003	XG.2000.49-2	97-63-2	Ethyl methacrylate	ND	ug / L	1	5		01/12/00

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Project: **0001071 SWSC 7C18WE3A00000000**

X003	XG.2000.49-2	100-41-4	Ethylbenzene	ND	ug / L	1	1		01/12/00
X003	XG.2000.49-2		Freon 113	ND	ug / L	1	5		01/12/00
X003	XG.2000.49-2	75-71-8	Freon 12	ND	ug / L	1	10		01/12/00
X003	XG.2000.49-2	74-88-4	Iodomethane	ND	ug / L	1	5		01/12/00
X003	XG.2000.49-2	1634-04-4	Methyl t-butyl ether (MTBE)	ND	ug / L	1	1		01/12/00
X003	XG.2000.49-2	75-09-2	Methylene chloride	ND	ug / L	1	10		01/12/00
X003	XG.2000.49-2		Naphthalene	ND	ug / L	1	5		01/12/00
X003	XG.2000.49-2	95-47-6	o-Xylene	ND	ug / L	1	1		01/12/00
X003	XG.2000.49-2		p/m Xylenes	ND	ug / L	1	2		01/12/00
X003	XG.2000.49-2	100-42-5	Styrene	ND	ug / L	1	1		01/12/00
X003	XG.2000.49-2	156-60-5	t-1,2 Dichloroethene	ND	ug / L	1	1		01/12/00
X003	XG.2000.49-2	10061-02-6	t-1,3 Dichloropropene	ND	ug / L	1	1		01/12/00
X003	XG.2000.49-2	127-18-4	Tetrachloroethene	ND	ug / L	1	1		01/12/00
X003	XG.2000.49-2	108-88-3	Toluene	1.7	ug / L	1	1		01/12/00
X003	XG.2000.49-2	79-01-6	Trichloroethene	ND	ug / L	1	1		01/12/00
X003	XG.2000.49-2	75-69-4	Trichlorofluoromethane	ND	ug / L	1	5		01/12/00
X003	XG.2000.49-2	108-05-4	Vinyl acetate	ND	ug / L	1	5		01/12/00
X003	XG.2000.49-2	75-01-4	Vinyl chloride	ND	ug / L	1	5		01/12/00

0001071-01G **SW846 3510B/8270B SVOCs by GC/MS**

X0011	XG.2000.41-6	120-82-1	1,2,4-Trichlorobenzene	ND	ug / L	1	1		01/13/00
X0011	XG.2000.41-6	95-50-1	1,2-Dichlorobenzene	ND	ug / L	1	1		01/13/00
X0011	XG.2000.41-6	541-73-1	1,3-Dichlorobenzene	ND	ug / L	1	1		01/13/00
X0011	XG.2000.41-6	106-46-7	1,4-Dichlorobenzene	ND	ug / L	1	1		01/13/00
X0011	XG.2000.41-6	90-12-0	1-Methylnaphthalene	ND	ug / L	1	1		01/13/00
X0011	XG.2000.41-6	58-90-2	2,3,4,6-Tetrachlorophenol	ND	ug / L	1	5		01/13/00
X0011	XG.2000.41-6	95-95-4	2,4,5-Trichlorophenol	ND	ug / L	1	5		01/13/00
X0011	XG.2000.41-6	88-06-2	2,4,6-Trichlorophenol	ND	ug / L	1	5		01/13/00
X0011	XG.2000.41-6	120-83-2	2,4-Dichlorophenol	ND	ug / L	1	5		01/13/00
X0011	XG.2000.41-6	105-67-9	2,4-Dimethylphenol	ND	ug / L	1	1		01/13/00
X0011	XG.2000.41-6	51-28-5	2,4-Dinitrophenol	ND	ug / L	1	10		01/13/00
X0011	XG.2000.41-6	121-14-2	2,4-Dinitrotoluene	ND	ug / L	1	5		01/13/00
X0011	XG.2000.41-6	606-20-2	2,6-Dinitrotoluene	ND	ug / L	1	5		01/13/00
X0011	XG.2000.41-6	91-58-7	2-Chloronaphthalene	ND	ug / L	1	1		01/13/00
X0011	XG.2000.41-6	95-57-8	2-Chlorophenol	ND	ug / L	1	1		01/13/00
X0011	XG.2000.41-6	91-57-6	2-Methylnaphthalene	ND	ug / L	1	1		01/13/00
X0011	XG.2000.41-6	95-48-7	2-Methylphenol	ND	ug / L	1	1		01/13/00
X0011	XG.2000.41-6	88-74-4	2-Nitroaniline	ND	ug / L	1	5		01/13/00
X0011	XG.2000.41-6	88-75-5	2-Nitrophenol	ND	ug / L	1	5		01/13/00
X0011	XG.2000.41-6		3+4 Methylphenol	ND	ug / L	1	1		01/13/00
X0011	XG.2000.41-6	91-94-1	3,3-Dichlorobenzidine	ND	ug / L	1	10		01/13/00
X0011	XG.2000.41-6	99-09-2	3-Nitroaniline	ND	ug / L	1	5		01/13/00
X0011	XG.2000.41-6	534-52-1	4,6-Dinitro-2-methylphenol	ND	ug / L	1	10		01/13/00
X0011	XG.2000.41-6	101-55-3	4-Bromophenyl-phenylether	ND	ug / L	1	1		01/13/00
X0011	XG.2000.41-6	59-50-7	4-Chloro-3-methylphenol	ND	ug / L	1	5		01/13/00
X0011	XG.2000.41-6	106-47-8	4-Chloroaniline	ND	ug / L	1	5		01/13/00
X0011	XG.2000.41-6	7005-72-3	4-Chlorophenyl-phenylether	ND	ug / L	1	1		01/13/00
X0011	XG.2000.41-6	100-01-6	4-Nitroaniline	ND	ug / L	1	5		01/13/00
X0011	XG.2000.41-6	100-02-7	4-Nitrophenol	ND	ug / L	1	10		01/13/00

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Client: **LOS ALAMOS NATIONAL LABS**

Project: **0001071 SWSC 7C18WE3A00000000**

X0011	XG.2000.41-6	83-32-9	Acenaphthene	ND	ug / L	1	1	01/13/00
X0011	XG.2000.41-6	208-96-8	Acenaphthylene	ND	ug / L	1	1	01/13/00
X0011	XG.2000.41-6	62-53-3	Aniline	ND	ug / L	1	10	01/13/00
X0011	XG.2000.41-6	120-12-7	Anthracene	ND	ug / L	1	1	01/13/00
X0011	XG.2000.41-6		Azobenzene&1,2-Diphenylhydrazine	ND	ug / L	1	1	01/13/00
X0011	XG.2000.41-6	56-55-3	Benzo (a) anthracene	ND	ug / L	1	1	01/13/00
X0011	XG.2000.41-6	50-32-8	Benzo(a)pyrene	ND	ug / L	1	1	01/13/00
X0011	XG.2000.41-6		Benzo(b & k)fluoranthene	ND	ug / L	1	1	01/13/00
X0011	XG.2000.41-6	191-24-2	Benzo(g,h,i)perylene	ND	ug / L	1	1	01/13/00
X0011	XG.2000.41-6	64-85-0	Benzoic acid	ND	ug / L	1	25	01/13/00
X0011	XG.2000.41-6	100-51-6	Benzyl alcohol	ND	ug / L	1	5	01/13/00
X0011	XG.2000.41-6	111-44-4	bis (2-Chloroethyl) ether	ND	ug / L	1	1	01/13/00
X0011	XG.2000.41-6	111-91-1	bis(2-Chloroethoxy)methane	ND	ug / L	1	1	01/13/00
X0011	XG.2000.41-6	108-60-1	bis(2-Chloroisopropyl)ether	ND	ug / L	1	1	01/13/00
X0011	XG.2000.41-6	117-81-7	bis(2-Ethylhexyl)phthalate	ND	ug / L	1	5	01/13/00
X0011	XG.2000.41-6	85-68-7	Butylbenzylphthalate	ND	ug / L	1	1	01/13/00
X0011	XG.2000.41-6	218-01-9	Chrysene	ND	ug / L	1	1	01/13/00
X0011	XG.2000.41-6	84-74-2	di-n-Butylphthalate	ND	ug / L	1	1	01/13/00
X0011	XG.2000.41-6	117-84-0	di-n-Octylpthalate	ND	ug / L	1	1	01/13/00
X0011	XG.2000.41-6	53-70-3	Dibenz(a,h)anthracene	ND	ug / L	1	1	01/13/00
X0011	XG.2000.41-6	132-64-9	Dibenzofuran	ND	ug / L	1	1	01/13/00
X0011	XG.2000.41-6	84-66-2	Diethylphthalate	ND	ug / L	1	1	01/13/00
X0011	XG.2000.41-6	131-11-3	Dimethylphthalate	ND	ug / L	1	1	01/13/00
X0011	XG.2000.41-6	206-44-0	Fluoranthene	ND	ug / L	1	1	01/13/00
X0011	XG.2000.41-6	86737	Fluorene	ND	ug / L	1	1	01/13/00
X0011	XG.2000.41-6	118-74-1	Hexachlorobenzene	ND	ug / L	1	10	01/13/00
X0011	XG.2000.41-6	87-68-3	Hexachlorobutadiene	ND	ug / L	1	10	01/13/00
X0011	XG.2000.41-6	77-47-4	Hexachlorocyclopentadiene	ND	ug / L	1	10	01/13/00
X0011	XG.2000.41-6	67-72-1	Hexachloroethane	ND	ug / L	1	5	01/13/00
X0011	XG.2000.41-6	193-39-5	Indeno(1,2,3-cd)pyrene	ND	ug / L	1	1	01/13/00
X0011	XG.2000.41-6	78-59-1	Isophorone	ND	ug / L	1	1	01/13/00
X0011	XG.2000.41-6	621-64-7	n-Nitroso-di-n-propylamine	ND	ug / L	1	1	01/13/00
X0011	XG.2000.41-6	62-75-9	n-Nitroso-dimethyl-amine	ND	ug / L	1	10	01/13/00
X0011	XG.2000.41-6	86-30-6	n-Nitrosodiphenylamine	ND	ug / L	1	1	01/13/00
X0011	XG.2000.41-6	91-20-3	Naphthalene	ND	ug / L	1	1	01/13/00
X0011	XG.2000.41-6	98-95-3	Nitrobenzene	ND	ug / L	1	1	01/13/00
X0011	XG.2000.41-6	87-86-5	Pentachlorophenol	ND	ug / L	1	10	01/13/00
X0011	XG.2000.41-6	85-01-8	Phenanthrene	ND	ug / L	1	1	01/13/00
X0011	XG.2000.41-6	108-95-2	Phenol	ND	ug / L	1	10	01/13/00
X0011	XG.2000.41-6	129-00-0	Pyrene	ND	ug / L	1	1	01/13/00
X0011	XG.2000.41-6	110-86-1	Pyridine	ND	ug / L	1	10	01/13/00

**** Sample specific Detection Limit is determined by multiplying the sample Dilution Factor by the listed Reporting Detection Limit. ****

**** ND = Not detected: less than the sample specific Detection Limit. Results relate only to the items tested. ****

Quality Control Summary

Explanation of codes	
D	*Not applicable due to sample dilution*
L	*Not applicable due to MDL proximity*

Client: **LOS ALAMOS NATIONAL LABS**

Project: **0001071** **SWSC 7C18WE3A00000000**

QC Type **LCS: Lab Control Spike** QC Matrix **WATER**

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Run Date
M0037-125-2		**EPA 245.1 CVAA**							
M0037	MT.2000.125-2	7439-97-6	Mercury	88	% Recovery	1	NA		01/13/00
M0046-002		**EPA 4.1.3/200.7 ICP**							
M0046	MW.2000.66-18	7440-38-2	Arsenic	100	(%) Recov	1	NA		01/14/00
M0046	MW.2000.66-18	7440-39-3	Barium	106	(%) Recov	1	NA		01/14/00
M0046	MW.2000.66-18	7440-43-9	Cadmium	97	(%) Recov	1	NA		01/14/00
M0046	MW.2000.66-18	7440-47-3	Chromium	95	(%) Recov	1	NA		01/14/00
M0046	MW.2000.66-18	7440-50-8	Copper	103	(%) Recov	1	NA		01/14/00
M0046	MW.2000.66-18	7439-89-6	Iron	102	(%) Recov	1	NA		01/14/00
M0046	MW.2000.66-18	7439-92-1	Lead	92	(%) Recov	1	NA		01/14/00
M0046	MW.2000.66-18	7439-96-5	Manganese	97	(%) Recov	1	NA		01/14/00
M0046	MW.2000.66-18	7782-49-2	Selenium	101	(%) Recov	1	NA		01/14/00
M0046	MW.2000.66-18	7440-22-4	Silver	90	(%) Recov	1	NA		01/14/00
M0046	MW.2000.66-18	7440-66-6	Zinc	96	(%) Recov	1	NA		01/14/00
W008-002		**EPA 335.2 / SM 4500 CN-C**							
W008	MW.2000.41-3		Cyanide, Total	96	(%) Recov	1	NA		01/11/00
W009-002		**EPA 300.0**							
W009	MW.2000.50-4		Fluoride	100	% Recovery	1	NA		01/11/00
W009	MW.2000.50-4		Sulfate	97	% Recovery	1	NA		01/11/00
X0011-002		**SW846 3510B/8270B SVOCs by GC/MS**							
X0011	XG.2000.41-2	120-82-1	1,2,4-Trichlorobenzene	75	% Recovery	1	NA		01/12/00
X0011	XG.2000.41-2	106-46-7	1,4-Dichlorobenzene	77	% Recovery	1	NA		01/12/00
X0011	XG.2000.41-2	121-14-2	2,4-Dinitrotoluene	92	% Recovery	1	NA		01/12/00
X0011	XG.2000.41-2	95-57-8	2-Chlorophenol	82	% Recovery	1	NA		01/12/00
X0011	XG.2000.41-2	59-50-7	4-Chloro-3-methylphenol	91	% Recovery	1	NA		01/12/00
X0011	XG.2000.41-2	100-02-7	4-Nitrophenol	40	% Recovery	1	NA		01/12/00
X0011	XG.2000.41-2	83-32-9	Acenaphthene	80	% Recovery	1	NA		01/12/00
X0011	XG.2000.41-2	621-64-7	n-Nitroso-di-n-propylamine	90	% Recovery	1	NA		01/12/00
X0011	XG.2000.41-2	87-86-5	Pentachlorophenol	82	% Recovery	1	NA		01/12/00
X0011	XG.2000.41-2	108-95-2	Phenol	38	% Recovery	1	NA		01/12/00
X0011	XG.2000.41-2	129-00-0	Pyrene	99	% Recovery	1	NA		01/12/00
X003-018		**SW846 8260A Purgeable VOCs by GC/MS**							
X003	XG.2000.20-13	75-35-4	1,1 Dichloroethene	110	% Recovery	1	NA		01/04/00
X003	XG.2000.20-13	71-43-2	Benzene	110	% Recovery	1	NA		01/04/00
X003	XG.2000.20-13	108-90-7	Chlorobenzene	106	% Recovery	1	NA		01/04/00
X003	XG.2000.20-13	108-88-3	Toluene	111	% Recovery	1	NA		01/04/00
X003	XG.2000.20-13	79-01-6	Trichloroethene	106	% Recovery	1	NA		01/04/00

Quality Control Summary

Client: **LOS ALAMOS NATIONAL LABS**

Project: **0001071** **SWSC 7C18WE3A00000000**

Explanation of codes	
D	*Not applicable due to sample dilution*
L	*Not applicable due to MDL proximity*

QC Type **LCSD: Lab Control Spike Duplicate Accuracy** QC Matrix **WATER**

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Run Date
M0037-125-3		**EPA 245.1 CVAA**							
M0037	MT.2000.125-3	7439-97-6	Mercury	88	% Recovery	1	NA		01/13/00
M0046-003		**EPA 4.1.3/200.7 ICP**							
M0046	MW.2000.66-19	7440-38-2	Arsenic	107	(%) Recov	1	NA		01/14/00
M0046	MW.2000.66-19	7440-39-3	Barium	110	(%) Recov	1	NA		01/14/00
M0046	MW.2000.66-19	7440-43-9	Cadmium	107	(%) Recov	1	NA		01/14/00
M0046	MW.2000.66-19	7440-47-3	Chromium	108	(%) Recov	1	NA		01/14/00
M0046	MW.2000.66-19	7440-50-8	Copper	109	(%) Recov	1	NA		01/14/00
M0046	MW.2000.66-19	7439-89-6	Iron	111	(%) Recov	1	NA		01/14/00
M0046	MW.2000.66-19	7439-92-1	Lead	112	(%) Recov	1	NA		01/14/00
M0046	MW.2000.66-19	7439-96-5	Manganese	107	(%) Recov	1	NA		01/14/00
M0046	MW.2000.66-19	7782-49-2	Selenium	105	(%) Recov	1	NA		01/14/00
M0046	MW.2000.66-19	7440-22-4	Silver	101	(%) Recov	1	NA		01/14/00
M0046	MW.2000.66-19	7440-66-6	Zinc	106	(%) Recov	1	NA		01/14/00
W008-003		**EPA 335.2 / SM 4500 CN-C**							
W008	MW.2000.41-4		Cyanide, Total	96	(%) Recov	1	NA		01/11/00
W009-003		**EPA 300.0**							
W009	MW.2000.50-5		Fluoride	100	% Recovery	1	NA		01/11/00
W009	MW.2000.50-5		Sulfate	97	% Recovery	1	NA		01/11/00
X0011-003		**SW846 3510B/8270B SVOCs by GC/MS**							
X0011	XG.2000.41-3	120-82-1	1,2,4-Trichlorobenzene	74	% Recovery	1	NA		01/12/00
X0011	XG.2000.41-3	106-46-7	1,4-Dichlorobenzene	78	% Recovery	1	NA		01/12/00
X0011	XG.2000.41-3	121-14-2	2,4-Dinitrotoluene	93	% Recovery	1	NA		01/12/00
X0011	XG.2000.41-3	95-57-8	2-Chlorophenol	84	% Recovery	1	NA		01/12/00
X0011	XG.2000.41-3	59-50-7	4-Chloro-3-methylphenol	91	% Recovery	1	NA		01/12/00
X0011	XG.2000.41-3	100-02-7	4-Nitrophenol	41	% Recovery	1	NA		01/12/00
X0011	XG.2000.41-3	83-32-9	Acenaphthene	81	% Recovery	1	NA		01/12/00
X0011	XG.2000.41-3	621-64-7	n-Nitroso-di-n-propylamine	90	% Recovery	1	NA		01/12/00
X0011	XG.2000.41-3	87-86-5	Pentachlorophenol	87	% Recovery	1	NA		01/12/00
X0011	XG.2000.41-3	108-95-2	Phenol	38	% Recovery	1	NA		01/12/00
X0011	XG.2000.41-3	129-00-0	Pyrene	100	% Recovery	1	NA		01/12/00
X003-019		**SW846 8260A Purgeable VOCs by GC/MS**							
X003	XG.2000.20-14	75-35-4	1,1 Dichloroethene	110	% Recovery	1	NA		01/04/00
X003	XG.2000.20-14	71-43-2	Benzene	110	% Recovery	1	NA		01/04/00
X003	XG.2000.20-14	108-90-7	Chlorobenzene	105	% Recovery	1	NA		01/04/00
X003	XG.2000.20-14	108-88-3	Toluene	109	% Recovery	1	NA		01/04/00
X003	XG.2000.20-14	79-01-6	Trichloroethene	106	% Recovery	1	NA		01/04/00

Quality Control Summary

Explanation of codes	
D	*Not applicable due to sample dilution*
L	*Not applicable due to MDL proximity*

Client: **LOS ALAMOS NATIONAL LABS**

Project: **0001071** **SWSC 7C18WE3A00000000**

QC Type **LCSD: Lab Control Spike Duplicate Precision** QC Matrix **WATER**

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Run Date
M0037-125-3		**EPA 245.1 CVAA**							
M0037	MT.2000.125-3	7439-97-6	Mercury	< 1	RPD	1	NA		01/13/00
M0046-003		**EPA 4.1.3/200.7 ICP**							
M0046	MW.2000.66-19	7440-38-2	Arsenic	7	(%) RPD	1	NA		01/14/00
M0046	MW.2000.66-19	7440-39-3	Barium	4	(%) RPD	1	NA		01/14/00
M0046	MW.2000.66-19	7440-43-9	Cadmium	10	(%) RPD	1	NA		01/14/00
M0046	MW.2000.66-19	7440-47-3	Chromium	12	(%) RPD	1	NA		01/14/00
M0046	MW.2000.66-19	7440-50-8	Copper	6	(%) RPD	1	NA		01/14/00
M0046	MW.2000.66-19	7439-89-6	Iron	9	(%) RPD	1	NA		01/14/00
M0046	MW.2000.66-19	7439-92-1	Lead	19	(%) RPD	1	NA		01/14/00
M0046	MW.2000.66-19	7439-96-5	Manganese	10	(%) RPD	1	NA		01/14/00
M0046	MW.2000.66-19	7782-49-2	Selenium	4	(%) RPD	1	NA		01/14/00
M0046	MW.2000.66-19	7440-22-4	Silver	10	(%) RPD	1	NA		01/14/00
M0046	MW.2000.66-19	7440-66-6	Zinc	9	(%) RPD	1	NA		01/14/00
W008-003		**EPA 335.2 / SM 4500 CN-C**							
W008	MW.2000.41-4		Cyanide, Total	< 1	(%) RPD	1	NA		01/11/00
W009-003		**EPA 300.0**							
W009	MW.2000.50-5		Fluoride	< 1	RPD	1	NA		01/11/00
W009	MW.2000.50-5		Sulfate	< 1	RPD	1	NA		01/11/00
X0011-003		**SW846 3510B/8270B SVOCs by GC/MS**							
X0011	XG.2000.41-3	120-82-1	1,2,4-Trichlorobenzene	1	RPD	1	NA		01/12/00
X0011	XG.2000.41-3	106-46-7	1,4-Dichlorobenzene	< 1	RPD	1	NA		01/12/00
X0011	XG.2000.41-3	121-14-2	2,4-Dinitrotoluene	1	RPD	1	NA		01/12/00
X0011	XG.2000.41-3	95-57-8	2-Chlorophenol	2	RPD	1	NA		01/12/00
X0011	XG.2000.41-3	59-50-7	4-Chloro-3-methylphenol	< 1	RPD	1	NA		01/12/00
X0011	XG.2000.41-3	100-02-7	4-Nitrophenol	4	RPD	1	NA		01/12/00
X0011	XG.2000.41-3	83-32-9	Acenaphthene	2	RPD	1	NA		01/12/00
X0011	XG.2000.41-3	621-64-7	n-Nitroso-di-n-propylamine	< 1	RPD	1	NA		01/12/00
X0011	XG.2000.41-3	87-86-5	Pentachlorophenol	5	RPD	1	NA		01/12/00
X0011	XG.2000.41-3	108-95-2	Phenol	< 1	RPD	1	NA		01/12/00
X0011	XG.2000.41-3	129-00-0	Pyrene	1	RPD	1	NA		01/12/00
X003-019		**SW846 8260A Purgeable VOCs by GC/MS**							
X003	XG.2000.20-14	75-35-4	1,1 Dichloroethene	< 1	RPD	1	NA		01/04/00
X003	XG.2000.20-14	71-43-2	Benzene	< 1	RPD	1	NA		01/04/00
X003	XG.2000.20-14	108-90-7	Chlorobenzene	1	RPD	1	NA		01/04/00
X003	XG.2000.20-14	108-88-3	Toluene	2	RPD	1	NA		01/04/00
X003	XG.2000.20-14	79-01-6	Trichloroethene	< 1	RPD	1	NA		01/04/00

Quality Control Summary

Client: **LOS ALAMOS NATIONAL LABS**

Project: **0001071** **SWSC 7C18WE3A00000000**

Explanation of codes	
D	*Not applicable due to sample dilution*
L	*Not applicable due to MDL proximity*

QC Type **MB: Method Blank** QC Matrix **WATER**

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Run Date
M0037-125-1		**EPA 245.1 CVAA**							
M0037	MT.2000.125-1	7439-97-6	Mercury	ND	mg / L	1	0.0002		01/13/00
M0046-001		**EPA 4.1.3/200.7 ICP**							
M0046	MW.2000.66-17	7440-38-2	Arsenic	ND	mg / L	1	0.06		01/14/00
M0046	MW.2000.66-17	7440-39-3	Barium	ND	mg / L	1	0.01		01/14/00
M0046	MW.2000.66-17	7440-43-9	Cadmium	ND	mg / L	1	0.006		01/14/00
M0046	MW.2000.66-17	7440-47-3	Chromium	0.02	mg / L	1	0.01		01/14/00
M0046	MW.2000.73-17	7440-47-3	Chromium	ND	mg / L	1	0.01		01/18/00
M0046	MW.2000.66-17	7440-50-8	Copper	ND	mg / L	1	0.01		01/14/00
M0046	MW.2000.66-17	7439-89-6	Iron	0.06	mg / L	1	0.05		01/14/00
M0046	MW.2000.73-17	7439-89-6	Iron	ND	mg / L	1	0.05		01/18/00
M0046	MW.2000.66-17	7439-92-1	Lead	0.16	mg / L	1	0.06		01/14/00
M0046	MW.2000.73-17	7439-92-1	Lead	ND	mg / L	1	0.06		01/18/00
M0046	MW.2000.66-17	7439-96-5	Manganese	ND	mg / L	1	0.01		01/14/00
M0046	MW.2000.66-17	7782-49-2	Selenium	ND	mg / L	1	0.05		01/14/00
M0046	MW.2000.66-17	7440-22-4	Silver	ND	mg / L	1	0.01		01/14/00
M0046	MW.2000.66-17	7440-66-6	Zinc	ND	mg / L	1	0.02		01/14/00
W008-001		**EPA 335.2 / SM 4500 CN-C**							
W008	MW.2000.41-2		Cyanide, Total	ND	mg / L	1	0.01		01/11/00
W008-012		**EPA 335.2 / SM 4500 CN-C**							
W008	MW.2000.81-2		Cyanide, Total	ND	mg / L	1	0.01		01/20/00
W009-001		**EPA 300.0**							
W009	MW.2000.50-3		Fluoride	ND	mg / L	1	0.5		01/11/00
W009	MW.2000.50-3		Sulfate	ND	mg / L	1	0.5		01/11/00
W009-019		**EPA 300.0**							
W009	MW.2000.56-3		Fluoride	ND	mg / L	1	0.5		01/12/00
W009	MW.2000.63-25		Fluoride	ND	mg / L	1	0.5		01/13/00
W009	MW.2000.65-3		Fluoride	ND	mg / L	1	0.5		01/14/00
W009	MW.2000.56-3		Sulfate	ND	mg / L	1	0.5		01/12/00
W009	MW.2000.63-25		Sulfate	ND	mg / L	1	0.5		01/13/00
W009	MW.2000.65-3		Sulfate	ND	mg / L	1	0.5		01/14/00
X0011-001		**SW846 3510B/8270B SVOCs by GC/MS**							
X0011	XG.2000.41-1	120-82-1	1,2,4-Trichlorobenzene	ND	ug / L	1	1		01/12/00
X0011	XG.2000.41-1	95-50-1	1,2-Dichlorobenzene	ND	ug / L	1	1		01/12/00
X0011	XG.2000.41-1	541-73-1	1,3-Dichlorobenzene	ND	ug / L	1	1		01/12/00
X0011	XG.2000.41-1	106-46-7	1,4-Dichlorobenzene	ND	ug / L	1	1		01/12/00
X0011	XG.2000.41-1	90-12-0	1-Methylnaphthalene	ND	ug / L	1	1		01/12/00
X0011	XG.2000.41-1	58-90-2	2,3,4,6-Tetrachlorophenol	ND	ug / L	1	5		01/12/00
X0011	XG.2000.41-1	95-95-4	2,4,5-Trichlorophenol	ND	ug / L	1	5		01/12/00
X0011	XG.2000.41-1	88-06-2	2,4,6-Trichlorophenol	ND	ug / L	1	5		01/12/00
X0011	XG.2000.41-1	120-83-2	2,4-Dichlorophenol	ND	ug / L	1	5		01/12/00

Quality Control Summary

Client: **LOS ALAMOS NATIONAL LABS**

Project: **0001071** **SWSC 7C18WE3A00000000**

Explanation of codes	
D	*Not applicable due to sample dilution*
L	*Not applicable due to MDL proximity*

X0011	XG.2000.41-1	105-67-9	2,4-Dimethylphenol	ND	ug / L	1	1		01/12/00
X0011	XG.2000.41-1	51-28-5	2,4-Dinitrophenol	ND	ug / L	1	10		01/12/00
X0011	XG.2000.41-1	121-14-2	2,4-Dinitrotoluene	ND	ug / L	1	5		01/12/00
X0011	XG.2000.41-1	606-20-2	2,6-Dinitrotoluene	ND	ug / L	1	5		01/12/00
X0011	XG.2000.41-1	91-58-7	2-Chloronaphthalene	ND	ug / L	1	1		01/12/00
X0011	XG.2000.41-1	95-57-8	2-Chlorophenol	ND	ug / L	1	1		01/12/00
X0011	XG.2000.41-1	91-57-6	2-Methylnaphthalene	ND	ug / L	1	1		01/12/00
X0011	XG.2000.41-1	95-48-7	2-Methylphenol	ND	ug / L	1	1		01/12/00
X0011	XG.2000.41-1	88-74-4	2-Nitroaniline	ND	ug / L	1	5		01/12/00
X0011	XG.2000.41-1	88-75-5	2-Nitrophenol	ND	ug / L	1	5		01/12/00
X0011	XG.2000.41-1		3+4 Methylphenol	ND	ug / L	1	1		01/12/00
X0011	XG.2000.41-1	91-94-1	3,3-Dichlorobenzidine	ND	ug / L	1	10		01/12/00
X0011	XG.2000.41-1	99-09-2	3-Nitroaniline	ND	ug / L	1	5		01/12/00
X0011	XG.2000.41-1	534-52-1	4,6-Dinitro-2-methylphenol	ND	ug / L	1	10		01/12/00
X0011	XG.2000.41-1	101-55-3	4-Bromophenyl-phenylether	ND	ug / L	1	1		01/12/00
X0011	XG.2000.41-1	59-50-7	4-Chloro-3-methylphenol	ND	ug / L	1	5		01/12/00
X0011	XG.2000.41-1	106-47-8	4-Chloroaniline	ND	ug / L	1	5		01/12/00
X0011	XG.2000.41-1	7005-72-3	4-Chlorophenyl-phenylether	ND	ug / L	1	1		01/12/00
X0011	XG.2000.41-1	100-01-6	4-Nitroaniline	ND	ug / L	1	5		01/12/00
X0011	XG.2000.41-1	100-02-7	4-Nitrophenol	ND	ug / L	1	10		01/12/00
X0011	XG.2000.41-1	83-32-9	Acenaphthene	ND	ug / L	1	1		01/12/00
X0011	XG.2000.41-1	208-96-8	Acenaphthylene	ND	ug / L	1	1		01/12/00
X0011	XG.2000.41-1	62-53-3	Aniline	ND	ug / L	1	10		01/12/00
X0011	XG.2000.41-1	120-12-7	Anthracene	ND	ug / L	1	1		01/12/00
X0011	XG.2000.41-1		Azobenzene&1,2-Diphenylhydrazine	ND	ug / L	1	1		01/12/00
X0011	XG.2000.41-1	56-55-3	Benzo (a) anthracene	ND	ug / L	1	1		01/12/00
X0011	XG.2000.41-1	50-32-8	Benzo(a)pyrene	ND	ug / L	1	1		01/12/00
X0011	XG.2000.41-1		Benzo(b & k)fluoranthene	ND	ug / L	1	1		01/12/00
X0011	XG.2000.41-1	191-24-2	Benzo(g,h,i)perylene	ND	ug / L	1	1		01/12/00
X0011	XG.2000.41-1	64-85-0	Benzoic acid	ND	ug / L	1	25		01/12/00
X0011	XG.2000.41-1	100-51-6	Benzyl alcohol	ND	ug / L	1	5		01/12/00
X0011	XG.2000.41-1	111-44-4	bis (2-Chloroethyl) ether	ND	ug / L	1	1		01/12/00
X0011	XG.2000.41-1	111-91-1	bis(2-Chloroethoxy)methane	ND	ug / L	1	1		01/12/00
X0011	XG.2000.41-1	108-60-1	bis(2-Chloroisopropyl)ether	ND	ug / L	1	1		01/12/00
X0011	XG.2000.41-1	117-81-7	bis(2-Ethylhexyl)phthalate	ND	ug / L	1	5		01/12/00
X0011	XG.2000.41-1	85-68-7	Butylbenzylphthalate	ND	ug / L	1	1		01/12/00
X0011	XG.2000.41-1	218-01-9	Chrysene	ND	ug / L	1	1		01/12/00
X0011	XG.2000.41-1	84-74-2	di-n-Butylphthalate	ND	ug / L	1	1		01/12/00
X0011	XG.2000.41-1	117-84-0	di-n-Octylpthalate	ND	ug / L	1	1		01/12/00
X0011	XG.2000.41-1	53-70-3	Dibenz(a,h)anthracene	ND	ug / L	1	1		01/12/00
X0011	XG.2000.41-1	132-64-9	Dibenzofuran	ND	ug / L	1	1		01/12/00
X0011	XG.2000.41-1	84-66-2	Diethylphthalate	ND	ug / L	1	1		01/12/00
X0011	XG.2000.41-1	131-11-3	Dimethylphthalate	ND	ug / L	1	1		01/12/00
X0011	XG.2000.41-1	206-44-0	Fluoranthene	ND	ug / L	1	1		01/12/00
X0011	XG.2000.41-1	86737	Fluorene	ND	ug / L	1	1		01/12/00
X0011	XG.2000.41-1	118-74-1	Hexachlorobenzene	ND	ug / L	1	10		01/12/00
X0011	XG.2000.41-1	87-68-3	Hexachlorobutadiene	ND	ug / L	1	10		01/12/00
X0011	XG.2000.41-1	77-47-4	Hexachlorocyclopentadiene	ND	ug / L	1	10		01/12/00
X0011	XG.2000.41-1	67-72-1	Hexachloroethane	ND	ug / L	1	5		01/12/00
X0011	XG.2000.41-1	193-39-5	Indeno(1,2,3-cd)pyrene	ND	ug / L	1	1		01/12/00

Quality Control Summary

Explanation of codes	
D	*Not applicable due to sample dilution*
L	*Not applicable due to MDL proximity*

Client: **LOS ALAMOS NATIONAL LABS**

Project: **0001071** **SWSC 7C18WE3A00000000**

X0011	XG.2000.41-1	78-59-1	Isophorone	ND	ug / L	1	1		01/12/00
X0011	XG.2000.41-1	621-64-7	n-Nitroso-di-n-propylamine	ND	ug / L	1	1		01/12/00
X0011	XG.2000.41-1	62-75-9	n-Nitroso-dimethyl-amine	ND	ug / L	1	10		01/12/00
X0011	XG.2000.41-1	86-30-6	n-Nitrosodiphenylamine	ND	ug / L	1	1		01/12/00
X0011	XG.2000.41-1	91-20-3	Naphthalene	ND	ug / L	1	1		01/12/00
X0011	XG.2000.41-1	98-95-3	Nitrobenzene	ND	ug / L	1	1		01/12/00
X0011	XG.2000.41-1	87-86-5	Pentachlorophenol	ND	ug / L	1	10		01/12/00
X0011	XG.2000.41-1	85-01-8	Phenanthrene	ND	ug / L	1	1		01/12/00
X0011	XG.2000.41-1	108-95-2	Phenol	ND	ug / L	1	10		01/12/00
X0011	XG.2000.41-1	129-00-0	Pyrene	ND	ug / L	1	1		01/12/00
X0011	XG.2000.41-1	110-86-1	Pyridine	ND	ug / L	1	10		01/12/00
X003-001		**SW846 8260A Purgeable VOCs by GC/MS**							
X003	XG.2000.20-1	75-34-3	1,1 Dichloroethane	ND	ug / L	1	1		01/03/00
X003	XG.2000.20-1	75-35-4	1,1 Dichloroethene	ND	ug / L	1	1		01/03/00
X003	XG.2000.20-1	71-55-6	1,1,1 Trichloroethane	ND	ug / L	1	1		01/03/00
X003	XG.2000.20-1	630-20-6	1,1,1,2 Tetrachloroethane	ND	ug / L	1	1		01/03/00
X003	XG.2000.20-1	79-00-5	1,1,2 Trichloroethane	ND	ug / L	1	1		01/03/00
X003	XG.2000.20-1	79-34-5	1,1,2,2 Tetrachloroethane	ND	ug / L	1	1		01/03/00
X003	XG.2000.20-1	106-93-4	1,2 Dibromoethane (EDB)	ND	ug / L	1	1		01/03/00
X003	XG.2000.20-1	95-50-1	1,2 Dichlorobenzene	ND	ug / L	1	1		01/03/00
X003	XG.2000.20-1	107-06-2	1,2 Dichloroethane	ND	ug / L	1	1		01/03/00
X003	XG.2000.20-1	78-87-5	1,2 Dichloropropane	ND	ug / L	1	1		01/03/00
X003	XG.2000.20-1	96-18-4	1,2,3 Trichloropropane	ND	ug / L	1	1		01/03/00
X003	XG.2000.20-1	95-63-6	1,2,4-Trimethylbenzene	ND	ug / L	1	1		01/03/00
X003	XG.2000.20-1	541-73-1	1,3 Dichlorobenzene	ND	ug / L	1	1		01/03/00
X003	XG.2000.20-1	108-67-8	1,3,5-Trimethylbenzene	ND	ug / L	1	1		01/03/00
X003	XG.2000.20-1	764-41-0	1,4 Dichloro-2-butene	ND	ug / L	1	10		01/03/00
X003	XG.2000.20-1	106-46-7	1,4 Dichlorobenzene	ND	ug / L	1	1		01/03/00
X003	XG.2000.20-1	78-93-3	2-Butanone (MEK)	ND	ug / L	1	5		01/03/00
X003	XG.2000.20-1	110-75-8	2-Chloroethylvinylether	ND	ug / L	1	5		01/03/00
X003	XG.2000.20-1	591-78-6	2-Hexanone (MBK)	ND	ug / L	1	5		01/03/00
X003	XG.2000.20-1	108-10-1	4-Methyl-2-pentanone (MIBK)	ND	ug / L	1	5		01/03/00
X003	XG.2000.20-1	67-64-1	Acetone	ND	ug / L	1	10		01/03/00
X003	XG.2000.20-1	107-02-8	Acrolein	ND	ug / L	1	20		01/03/00
X003	XG.2000.20-1	107-13-1	Acrylonitrile	ND	ug / L	1	20		01/03/00
X003	XG.2000.20-1	71-43-2	Benzene	ND	ug / L	1	1		01/03/00
X003	XG.2000.20-1	75-27-4	Bromodichloromethane	ND	ug / L	1	1		01/03/00
X003	XG.2000.20-1	75-25-2	Bromoform	ND	ug / L	1	1		01/03/00
X003	XG.2000.20-1	74-83-9	Bromomethane	ND	ug / L	1	5		01/03/00
X003	XG.2000.20-1	75-15-0	Carbon disulfide	ND	ug / L	1	5		01/03/00
X003	XG.2000.20-1	56-23-5	Carbon tetrachloride	ND	ug / L	1	1		01/03/00
X003	XG.2000.20-1	108-90-7	Chlorobenzene	ND	ug / L	1	1		01/03/00
X003	XG.2000.20-1	124-48-1	Chlorodibromomethane	ND	ug / L	1	1		01/03/00
X003	XG.2000.20-1	75-00-3	Chloroethane	ND	ug / L	1	5		01/03/00
X003	XG.2000.20-1	67-66-3	Chloroform	ND	ug / L	1	1		01/03/00
X003	XG.2000.20-1	74-87-3	Chloromethane	ND	ug / L	1	5		01/03/00
X003	XG.2000.20-1	156-59-2	cis-1,2 dichloroethene	ND	ug / L	1	1		01/03/00
X003	XG.2000.20-1	10061-01-5	cis-1,3 dichloropropene	ND	ug / L	1	1		01/03/00
X003	XG.2000.20-1	74-95-3	Dibromomethane	ND	ug / L	1	1		01/03/00
X003	XG.2000.20-1	97-63-2	Ethyl methacrylate	ND	ug / L	1	5		01/03/00

Quality Control Summary

Client: **LOS ALAMOS NATIONAL LABS**

Project: **0001071** **SWSC 7C18WE3A00000000**

Explanation of codes	
D	*Not applicable due to sample dilution*
L	*Not applicable due to MDL proximity*

X003	XG.2000.20-1	100-41-4	Ethylbenzene	ND	ug / L	1	1		01/03/00
X003	XG.2000.20-1		Freon 113	ND	ug / L	1	5		01/03/00
X003	XG.2000.20-1	75-71-8	Freon 12	ND	ug / L	1	10		01/03/00
X003	XG.2000.20-1	74-88-4	Iodomethane	ND	ug / L	1	5		01/03/00
X003	XG.2000.20-1	1634-04-4	Methyl t-butyl ether (MTBE)	ND	ug / L	1	1		01/03/00
X003	XG.2000.20-1	75-09-2	Methylene chloride	ND	ug / L	1	10		01/03/00
X003	XG.2000.20-1		Naphthalene	ND	ug / L	1	5		01/03/00
X003	XG.2000.20-1	95-47-6	o-Xylene	ND	ug / L	1	1		01/03/00
X003	XG.2000.20-1		p/m Xylenes	ND	ug / L	1	2		01/03/00
X003	XG.2000.20-1	100-42-5	Styrene	ND	ug / L	1	1		01/03/00
X003	XG.2000.20-1	156-60-5	t-1,2 Dichloroethene	ND	ug / L	1	1		01/03/00
X003	XG.2000.20-1	10061-02-6	t-1,3 Dichloropropene	ND	ug / L	1	1		01/03/00
X003	XG.2000.20-1	127-18-4	Tetrachloroethene	ND	ug / L	1	1		01/03/00
X003	XG.2000.20-1	108-88-3	Toluene	ND	ug / L	1	1		01/03/00
X003	XG.2000.20-1	79-01-6	Trichloroethene	ND	ug / L	1	1		01/03/00
X003	XG.2000.20-1	75-69-4	Trichlorofluoromethane	ND	ug / L	1	5		01/03/00
X003	XG.2000.20-1	108-05-4	Vinyl acetate	ND	ug / L	1	5		01/03/00
X003	XG.2000.20-1	75-01-4	Vinyl chloride	ND	ug / L	1	5		01/03/00
X003-008		**SW846 8260A Purgeable VOCs by GC/MS**							
X003	XG.2000.20-5	75-34-3	1,1 Dichloroethane	ND	ug / L	1	1		01/04/00
X003	XG.2000.20-5	75-35-4	1,1 Dichloroethene	ND	ug / L	1	1		01/04/00
X003	XG.2000.20-5	71-55-6	1,1,1 Trichloroethane	ND	ug / L	1	1		01/04/00
X003	XG.2000.20-5	630-20-6	1,1,1,2 Tetrachloroethane	ND	ug / L	1	1		01/04/00
X003	XG.2000.20-5	79-00-5	1,1,2 Trichloroethane	ND	ug / L	1	1		01/04/00
X003	XG.2000.20-5	79-34-5	1,1,2,2 Tetrachloroethane	ND	ug / L	1	1		01/04/00
X003	XG.2000.20-5	106-93-4	1,2 Dibromoethane (EDB)	ND	ug / L	1	1		01/04/00
X003	XG.2000.20-5	95-50-1	1,2 Dichlorobenzene	ND	ug / L	1	1		01/04/00
X003	XG.2000.20-5	107-06-2	1,2 Dichloroethane	ND	ug / L	1	1		01/04/00
X003	XG.2000.20-5	78-87-5	1,2 Dichloropropane	ND	ug / L	1	1		01/04/00
X003	XG.2000.20-5	96-18-4	1,2,3 Trichloropropane	ND	ug / L	1	1		01/04/00
X003	XG.2000.20-5	95-63-6	1,2,4-Trimethylbenzene	ND	ug / L	1	1		01/04/00
X003	XG.2000.20-5	541-73-1	1,3 Dichlorobenzene	ND	ug / L	1	1		01/04/00
X003	XG.2000.20-5	108-67-8	1,3,5-Trimethylbenzene	ND	ug / L	1	1		01/04/00
X003	XG.2000.20-5	764-41-0	1,4 Dichloro-2-butene	ND	ug / L	1	10		01/04/00
X003	XG.2000.20-5	106-46-7	1,4 Dichlorobenzene	ND	ug / L	1	1		01/04/00
X003	XG.2000.20-5	78-93-3	2-Butanone (MEK)	ND	ug / L	1	5		01/04/00
X003	XG.2000.20-5	110-75-8	2-Chloroethylvinylether	ND	ug / L	1	5		01/04/00
X003	XG.2000.20-5	591-78-6	2-Hexanone (MBK)	ND	ug / L	1	5		01/04/00
X003	XG.2000.20-5	108-10-1	4-Methyl-2-pentanone (MIBK)	ND	ug / L	1	5		01/04/00
X003	XG.2000.20-5	67-64-1	Acetone	ND	ug / L	1	10		01/04/00
X003	XG.2000.20-5	107-02-8	Acrolein	ND	ug / L	1	20		01/04/00
X003	XG.2000.20-5	107-13-1	Acrylonitrile	ND	ug / L	1	20		01/04/00
X003	XG.2000.20-5	71-43-2	Benzene	ND	ug / L	1	1		01/04/00
X003	XG.2000.20-5	75-27-4	Bromodichloromethane	ND	ug / L	1	1		01/04/00
X003	XG.2000.20-5	75-25-2	Bromoform	ND	ug / L	1	1		01/04/00
X003	XG.2000.20-5	74-83-9	Bromomethane	ND	ug / L	1	5		01/04/00
X003	XG.2000.20-5	75-15-0	Carbon disulfide	ND	ug / L	1	5		01/04/00
X003	XG.2000.20-5	56-23-5	Carbon tetrachloride	ND	ug / L	1	1		01/04/00
X003	XG.2000.20-5	108-90-7	Chlorobenzene	ND	ug / L	1	1		01/04/00
X003	XG.2000.20-5	124-48-1	Chlorodibromomethane	ND	ug / L	1	1		01/04/00

Quality Control Summary

Client: **LOS ALAMOS NATIONAL LABS**

Project: **0001071** **SWSC 7C18WE3A00000000**

Explanation of codes	
D	*Not applicable due to sample dilution*
L	*Not applicable due to MDL proximity*

X003	XG.2000.20-5	75-00-3	Chloroethane	ND	ug / L	1	5		01/04/00
X003	XG.2000.20-5	67-66-3	Chloroform	ND	ug / L	1	1		01/04/00
X003	XG.2000.20-5	74-87-3	Chloromethane	ND	ug / L	1	5		01/04/00
X003	XG.2000.20-5	156-59-2	cis-1,2 dichloroethene	ND	ug / L	1	1		01/04/00
X003	XG.2000.20-5	10061-01-5	cis-1,3 dichloropropene	ND	ug / L	1	1		01/04/00
X003	XG.2000.20-5	74-95-3	Dibromomethane	ND	ug / L	1	1		01/04/00
X003	XG.2000.20-5	97-63-2	Ethyl methacrylate	ND	ug / L	1	5		01/04/00
X003	XG.2000.20-5	100-41-4	Ethylbenzene	ND	ug / L	1	1		01/04/00
X003	XG.2000.20-5		Freon 113	ND	ug / L	1	5		01/04/00
X003	XG.2000.20-5	75-71-8	Freon 12	ND	ug / L	1	10		01/04/00
X003	XG.2000.20-5	74-88-4	Iodomethane	ND	ug / L	1	5		01/04/00
X003	XG.2000.20-5	1634-04-4	Methyl t-butyl ether (MTBE)	ND	ug / L	1	1		01/04/00
X003	XG.2000.20-5	75-09-2	Methylene chloride	ND	ug / L	1	10		01/04/00
X003	XG.2000.20-5		Naphthalene	ND	ug / L	1	5		01/04/00
X003	XG.2000.20-5	95-47-6	o-Xylene	ND	ug / L	1	1		01/04/00
X003	XG.2000.20-5		p/m Xylenes	ND	ug / L	1	2		01/04/00
X003	XG.2000.20-5	100-42-5	Styrene	ND	ug / L	1	1		01/04/00
X003	XG.2000.20-5	156-60-5	t-1,2 Dichloroethene	ND	ug / L	1	1		01/04/00
X003	XG.2000.20-5	10061-02-6	t-1,3 Dichloropropene	ND	ug / L	1	1		01/04/00
X003	XG.2000.20-5	127-18-4	Tetrachloroethene	ND	ug / L	1	1		01/04/00
X003	XG.2000.20-5	108-88-3	Toluene	ND	ug / L	1	1		01/04/00
X003	XG.2000.20-5	79-01-6	Trichloroethene	ND	ug / L	1	1		01/04/00
X003	XG.2000.20-5	75-69-4	Trichlorofluoromethane	ND	ug / L	1	5		01/04/00
X003	XG.2000.20-5	108-05-4	Vinyl acetate	ND	ug / L	1	5		01/04/00
X003	XG.2000.20-5	75-01-4	Vinyl chloride	ND	ug / L	1	5		01/04/00
X003-026		**SW846 8260A Purgeable VOCs by GC/MS**							
X003	XG.2000.49-1	75-34-3	1,1 Dichloroethane	ND	ug / L	1	1		01/12/00
X003	XG.2000.49-1	75-35-4	1,1 Dichloroethene	ND	ug / L	1	1		01/12/00
X003	XG.2000.49-1	71-55-6	1,1,1 Trichloroethane	ND	ug / L	1	1		01/12/00
X003	XG.2000.49-1	630-20-6	1,1,1,2 Tetrachloroethane	ND	ug / L	1	1		01/12/00
X003	XG.2000.49-1	79-00-5	1,1,2 Trichloroethane	ND	ug / L	1	1		01/12/00
X003	XG.2000.49-1	79-34-5	1,1,2,2 Tetrachloroethane	ND	ug / L	1	1		01/12/00
X003	XG.2000.49-1	106-93-4	1,2 Dibromoethane (EDB)	ND	ug / L	1	1		01/12/00
X003	XG.2000.49-1	95-50-1	1,2 Dichlorobenzene	ND	ug / L	1	1		01/12/00
X003	XG.2000.49-1	107-06-2	1,2 Dichloroethane	ND	ug / L	1	1		01/12/00
X003	XG.2000.49-1	78-87-5	1,2 Dichloropropane	ND	ug / L	1	1		01/12/00
X003	XG.2000.49-1	96-18-4	1,2,3 Trichloropropane	ND	ug / L	1	1		01/12/00
X003	XG.2000.49-1	95-63-6	1,2,4-Trimethylbenzene	ND	ug / L	1	1		01/12/00
X003	XG.2000.49-1	541-73-1	1,3 Dichlorobenzene	ND	ug / L	1	1		01/12/00
X003	XG.2000.49-1	108-67-8	1,3,5-Trimethylbenzene	ND	ug / L	1	1		01/12/00
X003	XG.2000.49-1	764-41-0	1,4 Dichloro-2-butene	ND	ug / L	1	10		01/12/00
X003	XG.2000.49-1	106-46-7	1,4 Dichlorobenzene	ND	ug / L	1	1		01/12/00
X003	XG.2000.49-1	78-93-3	2-Butanone (MEK)	ND	ug / L	1	5		01/12/00
X003	XG.2000.49-1	110-75-8	2-Chloroethylvinylether	ND	ug / L	1	5		01/12/00
X003	XG.2000.49-1	591-78-6	2-Hexanone (MBK)	ND	ug / L	1	5		01/12/00
X003	XG.2000.49-1	108-10-1	4-Methyl-2-pentanone (MIBK)	ND	ug / L	1	5		01/12/00
X003	XG.2000.49-1	67-64-1	Acetone	ND	ug / L	1	10		01/12/00
X003	XG.2000.49-1	107-02-8	Acrolein	ND	ug / L	1	20		01/12/00
X003	XG.2000.49-1	107-13-1	Acrylonitrile	ND	ug / L	1	20		01/12/00
X003	XG.2000.49-1	71-43-2	Benzene	ND	ug / L	1	1		01/12/00

Quality Control Summary

Client: **LOS ALAMOS NATIONAL LABS**

Project: **0001071** **SWSC 7C18WE3A00000000**

Explanation of codes	
D	*Not applicable due to sample dilution*
L	*Not applicable due to MDL proximity*

X003	XG.2000.49-1	75-27-4	Bromodichloromethane	ND	ug / L	1	1		01/12/00
X003	XG.2000.49-1	75-25-2	Bromoform	ND	ug / L	1	1		01/12/00
X003	XG.2000.49-1	74-83-9	Bromomethane	ND	ug / L	1	5		01/12/00
X003	XG.2000.49-1	75-15-0	Carbon disulfide	ND	ug / L	1	5		01/12/00
X003	XG.2000.49-1	56-23-5	Carbon tetrachloride	ND	ug / L	1	1		01/12/00
X003	XG.2000.49-1	108-90-7	Chlorobenzene	ND	ug / L	1	1		01/12/00
X003	XG.2000.49-1	124-48-1	Chlorodibromomethane	ND	ug / L	1	1		01/12/00
X003	XG.2000.49-1	75-00-3	Chloroethane	ND	ug / L	1	5		01/12/00
X003	XG.2000.49-1	67-66-3	Chloroform	ND	ug / L	1	1		01/12/00
X003	XG.2000.49-1	74-87-3	Chloromethane	ND	ug / L	1	5		01/12/00
X003	XG.2000.49-1	156-59-2	cis-1,2 dichloroethene	ND	ug / L	1	1		01/12/00
X003	XG.2000.49-1	10061-01-5	cis-1,3 dichloropropene	ND	ug / L	1	1		01/12/00
X003	XG.2000.49-1	74-95-3	Dibromomethane	ND	ug / L	1	1		01/12/00
X003	XG.2000.49-1	97-63-2	Ethyl methacrylate	ND	ug / L	1	5		01/12/00
X003	XG.2000.49-1	100-41-4	Ethylbenzene	ND	ug / L	1	1		01/12/00
X003	XG.2000.49-1		Freon 113	ND	ug / L	1	5		01/12/00
X003	XG.2000.49-1	75-71-8	Freon 12	ND	ug / L	1	10		01/12/00
X003	XG.2000.49-1	74-88-4	Iodomethane	ND	ug / L	1	5		01/12/00
X003	XG.2000.49-1	1634-04-4	Methyl t-butyl ether (MTBE)	ND	ug / L	1	1		01/12/00
X003	XG.2000.49-1	75-09-2	Methylene chloride	ND	ug / L	1	10		01/12/00
X003	XG.2000.49-1		Naphthalene	ND	ug / L	1	5		01/12/00
X003	XG.2000.49-1	95-47-6	o-Xylene	ND	ug / L	1	1		01/12/00
X003	XG.2000.49-1		p/m Xylenes	ND	ug / L	1	2		01/12/00
X003	XG.2000.49-1	100-42-5	Styrene	ND	ug / L	1	1		01/12/00
X003	XG.2000.49-1	156-60-5	t-1,2 Dichloroethene	ND	ug / L	1	1		01/12/00
X003	XG.2000.49-1	10061-02-6	t-1,3 Dichloropropene	ND	ug / L	1	1		01/12/00
X003	XG.2000.49-1	127-18-4	Tetrachloroethene	ND	ug / L	1	1		01/12/00
X003	XG.2000.49-1	108-88-3	Toluene	ND	ug / L	1	1		01/12/00
X003	XG.2000.49-1	79-01-6	Trichloroethene	ND	ug / L	1	1		01/12/00
X003	XG.2000.49-1	75-69-4	Trichlorofluoromethane	ND	ug / L	1	5		01/12/00
X003	XG.2000.49-1	108-05-4	Vinyl acetate	ND	ug / L	1	5		01/12/00
X003	XG.2000.49-1	75-01-4	Vinyl chloride	ND	ug / L	1	5		01/12/00

QC Type **MS: Matrix Spike** QC Matrix **WATER**

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Run Date
M0037-125-13		**EPA 245.1 CVAA**							
M0037	MT.2000.125-13	7439-97-6	Mercury	90	% Recovery	1	NA		01/13/00
M0046-005		**EPA 4.1.3/200.7 ICP**							
M0046	MW.2000.66-21	7440-38-2	Arsenic	96	(%) Recov	1	NA		01/14/00
M0046	MW.2000.66-21	7440-39-3	Barium	103	(%) Recov	1	NA		01/14/00
M0046	MW.2000.66-21	7440-43-9	Cadmium	94	(%) Recov	1	NA		01/14/00
M0046	MW.2000.66-21	7440-47-3	Chromium	94	(%) Recov	1	NA		01/14/00
M0046	MW.2000.66-21	7440-50-8	Copper	101	(%) Recov	1	NA		01/14/00
M0046	MW.2000.66-21	7439-89-6	Iron	124	(%) Recov	1	NA		01/14/00
M0046	MW.2000.66-21	7439-92-1	Lead	89	(%) Recov	1	NA		01/14/00
M0046	MW.2000.66-21	7439-96-5	Manganese	99	(%) Recov	1	NA		01/14/00

Quality Control Summary

Explanation of codes	
D	*Not applicable due to sample dilution*
L	*Not applicable due to MDL proximity*

Client: **LOS ALAMOS NATIONAL LABS**

Project: **0001071** **SWSC 7C18WE3A00000000**

M0046	MW.2000.66-21	7782-49-2	Selenium	100	(%) Recov	1	NA		01/14/00
M0046	MW.2000.66-21	7440-22-4	Silver	90	(%) Recov	1	NA		01/14/00
M0046	MW.2000.66-21	7440-66-6	Zinc	96	(%) Recov	1	NA		01/14/00
W008-007		**EPA 335.2 / SM 4500 CN-C**							
W008	MW.2000.41-9		Cyanide, Total	31	(%) Recov	1	NA		01/11/00
W009-006		**EPA 300.0**							
W009	MW.2000.50-8		Fluoride	100	% Recovery	20	NA		01/11/00
W009	MW.2000.50-8		Sulfate	100	% Recovery	20	NA		01/11/00
X0011-005		**SW846 3510B/8270B SVOCs by GC/MS**							
X0011	XG.2000.41-5	120-82-1	1,2,4-Trichlorobenzene	75	% Recovery	1	NA		01/13/00
X0011	XG.2000.41-5	106-46-7	1,4-Dichlorobenzene	80	% Recovery	1	NA		01/13/00
X0011	XG.2000.41-5	121-14-2	2,4-Dinitrotoluene	94	% Recovery	1	NA		01/13/00
X0011	XG.2000.41-5	95-57-8	2-Chlorophenol	86	% Recovery	1	NA		01/13/00
X0011	XG.2000.41-5	59-50-7	4-Chloro-3-methylphenol	94	% Recovery	1	NA		01/13/00
X0011	XG.2000.41-5	100-02-7	4-Nitrophenol	42	% Recovery	1	NA		01/13/00
X0011	XG.2000.41-5	83-32-9	Acenaphthene	83	% Recovery	1	NA		01/13/00
X0011	XG.2000.41-5	621-64-7	n-Nitroso-di-n-propylamine	95	% Recovery	1	NA		01/13/00
X0011	XG.2000.41-5	87-86-5	Pentachlorophenol	87	% Recovery	1	NA		01/13/00
X0011	XG.2000.41-5	108-95-2	Phenol	39	% Recovery	1	NA		01/13/00
X0011	XG.2000.41-5	129-00-0	Pyrene	101	% Recovery	1	NA		01/13/00
X0011-007		**SW846 3510B/8270B SVOCs by GC/MS**							
X0011	XG.2000.41-7	120-82-1	1,2,4-Trichlorobenzene	76	% Recovery	1	NA		01/13/00
X0011	XG.2000.41-7	106-46-7	1,4-Dichlorobenzene	79	% Recovery	1	NA		01/13/00
X0011	XG.2000.41-7	121-14-2	2,4-Dinitrotoluene	93	% Recovery	1	NA		01/13/00
X0011	XG.2000.41-7	95-57-8	2-Chlorophenol	86	% Recovery	1	NA		01/13/00
X0011	XG.2000.41-7	59-50-7	4-Chloro-3-methylphenol	96	% Recovery	1	NA		01/13/00
X0011	XG.2000.41-7	100-02-7	4-Nitrophenol	46	% Recovery	1	NA		01/13/00
X0011	XG.2000.41-7	83-32-9	Acenaphthene	82	% Recovery	1	NA		01/13/00
X0011	XG.2000.41-7	621-64-7	n-Nitroso-di-n-propylamine	89	% Recovery	1	NA		01/13/00
X0011	XG.2000.41-7	87-86-5	Pentachlorophenol	89	% Recovery	1	NA		01/13/00
X0011	XG.2000.41-7	108-95-2	Phenol	41	% Recovery	1	NA		01/13/00
X0011	XG.2000.41-7	129-00-0	Pyrene	101	% Recovery	1	NA		01/13/00
X003-020		**SW846 8260A Purgeable VOCs by GC/MS**							
X003	XG.2000.20-15	75-35-4	1,1 Dichloroethene	116	% Recovery	1	NA		01/04/00
X003	XG.2000.20-15	71-43-2	Benzene	113	% Recovery	1	NA		01/04/00
X003	XG.2000.20-15	108-90-7	Chlorobenzene	110	% Recovery	1	NA		01/04/00
X003	XG.2000.20-15	108-88-3	Toluene	113	% Recovery	1	NA		01/04/00
X003	XG.2000.20-15	79-01-6	Trichloroethene	111	% Recovery	1	NA		01/04/00

QC Type **MSD: Matrix Spike Duplicate Accuracy** QC Matrix **WATER**

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Run Date
M0037-125-14		**EPA 245.1 CVAA**							
M0037	MT.2000.125-14	7439-97-6	Mercury	86	% Recovery	1	NA		01/13/00

Quality Control Summary

Explanation of codes	
D	*Not applicable due to sample dilution*
L	*Not applicable due to MDL proximity*

Client: **LOS ALAMOS NATIONAL LABS**

Project: **0001071** **SWSC 7C18WE3A00000000**

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Run Date
M0046-006		**EPA 4.1.3/200.7 ICP**							
M0046	MW.2000.66-22	7440-38-2	Arsenic	91	(%) Recov	1	NA		01/14/00
M0046	MW.2000.66-22	7440-39-3	Barium	98	(%) Recov	1	NA		01/14/00
M0046	MW.2000.66-22	7440-43-9	Cadmium	91	(%) Recov	1	NA		01/14/00
M0046	MW.2000.66-22	7440-47-3	Chromium	90	(%) Recov	1	NA		01/14/00
M0046	MW.2000.66-22	7440-50-8	Copper	97	(%) Recov	1	NA		01/14/00
M0046	MW.2000.66-22	7439-89-6	Iron	125	(%) Recov	1	NA		01/14/00
M0046	MW.2000.66-22	7439-92-1	Lead	81	(%) Recov	1	NA		01/14/00
M0046	MW.2000.66-22	7439-96-5	Manganese	95	(%) Recov	1	NA		01/14/00
M0046	MW.2000.66-22	7782-49-2	Selenium	100	(%) Recov	1	NA		01/14/00
M0046	MW.2000.66-22	7440-22-4	Silver	87	(%) Recov	1	NA		01/14/00
M0046	MW.2000.66-22	7440-66-6	Zinc	90	(%) Recov	1	NA		01/14/00
W008-008		**EPA 335.2 / SM 4500 CN-C**							
W008	MW.2000.41-10		Cyanide, Total	32	(%) Recov	1	NA		01/11/00
W009-007		**EPA 300.0**							
W009	MW.2000.50-9		Fluoride	101	% Recovery	20	NA		01/11/00
W009	MW.2000.50-9		Sulfate	100	% Recovery	20	NA		01/11/00
X003-021		**SW846 8260A Purgeable VOCs by GC/MS**							
X003	XG.2000.20-16	75-35-4	1,1 Dichloroethene	105	% Recovery	1	NA		01/04/00
X003	XG.2000.20-16	71-43-2	Benzene	103	% Recovery	1	NA		01/04/00
X003	XG.2000.20-16	108-90-7	Chlorobenzene	101	% Recovery	1	NA		01/04/00
X003	XG.2000.20-16	108-88-3	Toluene	104	% Recovery	1	NA		01/04/00
X003	XG.2000.20-16	79-01-6	Trichloroethene	100	% Recovery	1	NA		01/04/00

QC Type **MSD: Matrix Spike Duplicate Precision** QC Matrix **WATER**

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Run Date
M0037-125-14		**EPA 245.1 CVAA**							
M0037	MT.2000.125-14	7439-97-6	Mercury	4	RPD	1	NA		01/13/00
M0046-006		**EPA 4.1.3/200.7 ICP**							
M0046	MW.2000.66-22	7440-38-2	Arsenic	5	(%) RPD	1	NA		01/14/00
M0046	MW.2000.66-22	7440-39-3	Barium	4	(%) RPD	1	NA		01/14/00
M0046	MW.2000.66-22	7440-43-9	Cadmium	4	(%) RPD	1	NA		01/14/00
M0046	MW.2000.66-22	7440-47-3	Chromium	4	(%) RPD	1	NA		01/14/00
M0046	MW.2000.66-22	7440-50-8	Copper	4	(%) RPD	1	NA		01/14/00
M0046	MW.2000.66-22	7439-89-6	Iron	< 1	(%) RPD	1	NA		01/14/00
M0046	MW.2000.66-22	7439-92-1	Lead	10	(%) RPD	1	NA		01/14/00
M0046	MW.2000.66-22	7439-96-5	Manganese	4	(%) RPD	1	NA		01/14/00
M0046	MW.2000.66-22	7782-49-2	Selenium	< 1	(%) RPD	1	NA		01/14/00
M0046	MW.2000.66-22	7440-22-4	Silver	3	(%) RPD	1	NA		01/14/00
M0046	MW.2000.66-22	7440-66-6	Zinc	6	(%) RPD	1	NA		01/14/00
W008-008		**EPA 335.2 / SM 4500 CN-C**							
W008	MW.2000.41-10		Cyanide, Total	2	(%) RPD	1	NA		01/11/00

Quality Control Summary

Client: **LOS ALAMOS NATIONAL LABS**

Project: **0001071** **SWSC 7C18WE3A00000000**

Explanation of codes	
D	*Not applicable due to sample dilution*
L	*Not applicable due to MDL proximity*

W009-007		**EPA 300.0**							
W009	MW.2000.50-9		Fluoride	< 1	RPD	20	NA		01/11/00
W009	MW.2000.50-9		Sulfate	< 1	RPD	20	NA		01/11/00
X003-021		**SW846 8260A Purgeable VOCs by GC/MS**							
X003	XG.2000.20-16	75-35-4	1,1 Dichloroethene	10	RPD	1	NA		01/04/00
X003	XG.2000.20-16	71-43-2	Benzene	10	RPD	1	NA		01/04/00
X003	XG.2000.20-16	108-90-7	Chlorobenzene	9	RPD	1	NA		01/04/00
X003	XG.2000.20-16	108-88-3	Toluene	8	RPD	1	NA		01/04/00
X003	XG.2000.20-16	79-01-6	Trichloroethene	10	RPD	1	NA		01/04/00

Surrogate Summary: QC

Client: **LOS ALAMOS NATIONAL LABS**

Project: **0001071** **SWSC 7C18WE3A00000000**

QC Type **LCS** QC Matrix **WATER**

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Run Date
X0011-002		**8270**							
X0011	XG.2000.41-2	NA	*2,4,6-TRIBROMOPHENOL	99	% Recovery	1	NA		01/12/00
X0011	XG.2000.41-2	NA	*2-FLUOROBIPHENYL	94	% Recovery	1	NA		01/12/00
X0011	XG.2000.41-2	NA	*2-FLUOROPHENOL	59	% Recovery	1	NA		01/12/00
X0011	XG.2000.41-2	NA	*NITROBENZENE-D5	98	% Recovery	1	NA		01/12/00
X0011	XG.2000.41-2	NA	*PHENOL-D6	39	% Recovery	1	NA		01/12/00
X0011	XG.2000.41-2	NA	*TERPHENYL-D14	98	% Recovery	1	NA		01/12/00
X003-018		**8260**							
X003	XG.2000.20-13	NA	1,2 Dichloroethane-D4 (SS)	93	% Recovery	1	NA		01/04/00
X003	XG.2000.20-13	NA	4-Bromofluorobenzene (SS)	101	% Recovery	1	NA		01/04/00
X003	XG.2000.20-13	NA	Dibromofluoromethane (SS)	98	% Recovery	1	NA		01/04/00
X003	XG.2000.20-13	NA	Toluene-D8 (SS)	101	% Recovery	1	NA		01/04/00

QC Type **LCSD** QC Matrix **WATER**

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Run Date
X0011-003		**8270**							
X0011	XG.2000.41-3	NA	*2,4,6-TRIBROMOPHENOL	98	% Recovery	1	NA		01/12/00
X0011	XG.2000.41-3	NA	*2-FLUOROBIPHENYL	95	% Recovery	1	NA		01/12/00
X0011	XG.2000.41-3	NA	*2-FLUOROPHENOL	61	% Recovery	1	NA		01/12/00
X0011	XG.2000.41-3	NA	*NITROBENZENE-D5	97	% Recovery	1	NA		01/12/00
X0011	XG.2000.41-3	NA	*PHENOL-D6	39	% Recovery	1	NA		01/12/00
X0011	XG.2000.41-3	NA	*TERPHENYL-D14	97	% Recovery	1	NA		01/12/00
X003-019		**8260**							
X003	XG.2000.20-14	NA	1,2 Dichloroethane-D4 (SS)	92	% Recovery	1	NA		01/04/00
X003	XG.2000.20-14	NA	4-Bromofluorobenzene (SS)	98	% Recovery	1	NA		01/04/00
X003	XG.2000.20-14	NA	Dibromofluoromethane (SS)	97	% Recovery	1	NA		01/04/00
X003	XG.2000.20-14	NA	Toluene-D8 (SS)	101	% Recovery	1	NA		01/04/00

QC Type **MB** QC Matrix **WATER**

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Run Date
X0011-001		**8270**							
X0011	XG.2000.41-1	NA	*2,4,6-TRIBROMOPHENOL	91	% Recovery	1	NA		01/12/00
X0011	XG.2000.41-1	NA	*2-FLUOROBIPHENYL	92	% Recovery	1	NA		01/12/00
X0011	XG.2000.41-1	NA	*2-FLUOROPHENOL	59	% Recovery	1	NA		01/12/00
X0011	XG.2000.41-1	NA	*NITROBENZENE-D5	92	% Recovery	1	NA		01/12/00

Surrogate Summary: QC

Client: **LOS ALAMOS NATIONAL LABS**

Project: **0001071** **SWSC 7C18WE3A00000000**

X0011	XG.2000.41-1	NA	*PHENOL-D6	37	% Recovery	1	NA		01/12/00
X0011	XG.2000.41-1	NA	*TERPHENYL-D14	97	% Recovery	1	NA		01/12/00
X003-001		**8260**							
X003	XG.2000.20-1	NA	1,2 Dichloroethane-D4 (SS)	99	% Recovery	1	NA		01/03/00
X003	XG.2000.20-1	NA	4-Bromofluorobenzene (SS)	105	% Recovery	1	NA		01/03/00
X003	XG.2000.20-1	NA	Dibromofluoromethane (SS)	103	% Recovery	1	NA		01/03/00
X003	XG.2000.20-1	NA	Toluene-D8 (SS)	101	% Recovery	1	NA		01/03/00
X003-008		**8260**							
X003	XG.2000.20-5	NA	1,2 Dichloroethane-D4 (SS)	92	% Recovery	1	NA		01/04/00
X003	XG.2000.20-5	NA	4-Bromofluorobenzene (SS)	102	% Recovery	1	NA		01/04/00
X003	XG.2000.20-5	NA	Dibromofluoromethane (SS)	100	% Recovery	1	NA		01/04/00
X003	XG.2000.20-5	NA	Toluene-D8 (SS)	101	% Recovery	1	NA		01/04/00
X003-026		**8260**							
X003	XG.2000.49-1	NA	1,2 Dichloroethane-D4 (SS)	90	% Recovery	1	NA		01/12/00
X003	XG.2000.49-1	NA	4-Bromofluorobenzene (SS)	102	% Recovery	1	NA		01/12/00
X003	XG.2000.49-1	NA	Dibromofluoromethane (SS)	99	% Recovery	1	NA		01/12/00
X003	XG.2000.49-1	NA	Toluene-D8 (SS)	99	% Recovery	1	NA		01/12/00

QC Type **MS** QC Matrix **WATER**

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Run Date
X0011-005		**8270**							
X0011	XG.2000.41-5	NA	*2,4,6-TRIBROMOPHENOL	98	% Recovery	1	NA		01/13/00
X0011	XG.2000.41-5	NA	*2-FLUOROBIPHENYL	94	% Recovery	1	NA		01/13/00
X0011	XG.2000.41-5	NA	*2-FLUOROPHENOL	61	% Recovery	1	NA		01/13/00
X0011	XG.2000.41-5	NA	*NITROBENZENE-D5	99	% Recovery	1	NA		01/13/00
X0011	XG.2000.41-5	NA	*PHENOL-D6	40	% Recovery	1	NA		01/13/00
X0011	XG.2000.41-5	NA	*TERPHENYL-D14	99	% Recovery	1	NA		01/13/00
X0011-007		**8270**							
X0011	XG.2000.41-7	NA	*2,4,6-TRIBROMOPHENOL	100	% Recovery	1	NA		01/13/00
X0011	XG.2000.41-7	NA	*2-FLUOROBIPHENYL	94	% Recovery	1	NA		01/13/00
X0011	XG.2000.41-7	NA	*2-FLUOROPHENOL	62	% Recovery	1	NA		01/13/00
X0011	XG.2000.41-7	NA	*NITROBENZENE-D5	96	% Recovery	1	NA		01/13/00
X0011	XG.2000.41-7	NA	*PHENOL-D6	42	% Recovery	1	NA		01/13/00
X0011	XG.2000.41-7	NA	*TERPHENYL-D14	98	% Recovery	1	NA		01/13/00
X003-020		**8260**							
X003	XG.2000.20-15	NA	1,2 Dichloroethane-D4 (SS)	92	% Recovery	1	NA		01/04/00
X003	XG.2000.20-15	NA	4-Bromofluorobenzene (SS)	101	% Recovery	1	NA		01/04/00
X003	XG.2000.20-15	NA	Dibromofluoromethane (SS)	100	% Recovery	1	NA		01/04/00
X003	XG.2000.20-15	NA	Toluene-D8 (SS)	101	% Recovery	1	NA		01/04/00

Surrogate Summary: QC

Client: **LOS ALAMOS NATIONAL LABS**

Project: **0001071** **SWSC 7C18WE3A00000000**

QC Type **MSD** QC Matrix **WATER**

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Run Date
X003-021		**8260**							
X003	XG.2000.20-16	NA	1,2 Dichloroethane-D4 (SS)	91	% Recovery	1	NA		01/04/00
X003	XG.2000.20-16	NA	4-Bromofluorobenzene (SS)	101	% Recovery	1	NA		01/04/00
X003	XG.2000.20-16	NA	Dibromofluoromethane (SS)	99	% Recovery	1	NA		01/04/00
X003	XG.2000.20-16	NA	Toluene-D8 (SS)	100	% Recovery	1	NA		01/04/00

Surrogate Summary: Fraction

Client: **LOS ALAMOS NATIONAL LABS**

Project: **0001071** **SWSC 7C18WE3A00000000**

Client Sample ID **REUSE,010500** Sample Matrix **H2O**

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Run Date
0001071-01F		**8260**							**X003-027**
X003	XG.2000.49-2	NA	1,2 Dichloroethane-D4 (SS)	87	% Recovery	1	NA		01/12/00
X003	XG.2000.49-2	NA	4-Bromofluorobenzene (SS)	102	% Recovery	1	NA		01/12/00
X003	XG.2000.49-2	NA	Dibromofluoromethane (SS)	96	% Recovery	1	NA		01/12/00
X003	XG.2000.49-2	NA	Toluene-D8 (SS)	100	% Recovery	1	NA		01/12/00
0001071-01G		**8270**							**X0011-006**
X0011	XG.2000.41-6	NA	*2,4,6-TRIBROMOPHENOL	100	% Recovery	1	NA		01/13/00
X0011	XG.2000.41-6	NA	*2-FLUOROBIPHENYL	93	% Recovery	1	NA		01/13/00
X0011	XG.2000.41-6	NA	*2-FLUOROPHENOL	64	% Recovery	1	NA		01/13/00
X0011	XG.2000.41-6	NA	*NITROBENZENE-D5	97	% Recovery	1	NA		01/13/00
X0011	XG.2000.41-6	NA	*PHENOL-D6	42	% Recovery	1	NA		01/13/00
X0011	XG.2000.41-6	NA	*TERPHENYL-D14	97	% Recovery	1	NA		01/13/00

Table 6.0 Annual SVOA, PCB, and VOA Analytical Results for CDBO-6, 1999.

Station Name	Sample Date	Method	Analyte	Analytical Results	Units
CDBO-6	6/30/99	SVOA	Phenol	< 10	ug/L
CDBO-6	6/30/99	SVOA	bis(2-chloroethyl) ether	< 10	ug/L
CDBO-6	6/30/99	SVOA	Chlorophenol [o-]	< 10	ug/L
CDBO-6	6/30/99	SVOA	Dichlorobenzene (1,3) [m-]	< 10	ug/L
CDBO-6	6/30/99	SVOA	Dichlorobenzene (1,4) [p-]	< 10	ug/L
CDBO-6	6/30/99	SVOA	Benzyl alcohol	< 20	ug/L
CDBO-6	6/30/99	SVOA	Dichlorobenzene (1,2) [o-]	< 10	ug/L
CDBO-6	6/30/99	SVOA	Methylphenol [2-]	< 10	ug/L
CDBO-6	6/30/99	SVOA	Bis(2-chloroisopropyl)ether	< 10	ug/L
CDBO-6	6/30/99	SVOA	Nitrosodi-n-propylamine [N-]	< 10	ug/L
CDBO-6	6/30/99	SVOA	Hexachloroethane	< 10	ug/L
CDBO-6	6/30/99	SVOA	Nitrobenzene	< 10	ug/L
CDBO-6	6/30/99	SVOA	Isophorone	< 10	ug/L
CDBO-6	6/30/99	SVOA	Nitrophenol [2-]	< 10	ug/L
CDBO-6	6/30/99	SVOA	2,4-dimethyphenol	< 10	ug/L
CDBO-6	6/30/99	SVOA	Benzoic acid	< 50	ug/L
CDBO-6	6/30/99	SVOA	Bis(2-chloroethoxy)methane	< 10	ug/L
CDBO-6	6/30/99	SVOA	Dichlorophenol [2,4-]	< 10	ug/L
CDBO-6	6/30/99	SVOA	Trichlorobenzene [1,2,4-]	< 10	ug/L
CDBO-6	6/30/99	SVOA	Naphthalene	< 10	ug/L
CDBO-6	6/30/99	SVOA	Chloroaniline [4-]	< 20	ug/L
CDBO-6	6/30/99	SVOA	Hexachlorobutadiene	< 10	ug/L
CDBO-6	6/30/99	SVOA	Chloro-3-methylphenol [4-]	< 20	ug/L
CDBO-6	6/30/99	SVOA	Methylnaphthalene [2-]	< 10	ug/L
CDBO-6	6/30/99	SVOA	Hexachlorocyclopentadiene	< 10	ug/L
CDBO-6	6/30/99	SVOA	2,4,6-triclorophenol	< 10	ug/L
CDBO-6	6/30/99	SVOA	2,4,5-triclorophenol	< 50	ug/L
CDBO-6	6/30/99	SVOA	Chloronaphthalene [2-]	< 10	ug/L
CDBO-6	6/30/99	SVOA	Nitroaniline [2-]	< 50	ug/L
CDBO-6	6/30/99	SVOA	dimethylphthalate	< 10	ug/L
CDBO-6	6/30/99	SVOA	Acenaphthylene	< 10	ug/L
CDBO-6	6/30/99	SVOA	Dinitrotoluene [2,6-]	< 10	ug/L
CDBO-6	6/30/99	SVOA	Nitroaniline [3-]	< 50	ug/L
CDBO-6	6/30/99	SVOA	Acenaphthene	< 10	ug/L
CDBO-6	6/30/99	SVOA	Dinitrophenol [2,4-]	< 50	ug/L
CDBO-6	6/30/99	SVOA	Nitrophenol [4-]	< 50	ug/L
CDBO-6	6/30/99	SVOA	Dibenzofuran	< 10	ug/L
CDBO-6	6/30/99	SVOA	Dinitrotoluene [2,4-]	< 10	ug/L
CDBO-6	6/30/99	SVOA	Diethyl phthalate	< 10	ug/L
CDBO-6	6/30/99	SVOA	4-chlorophenyl-phenylether	< 10	ug/L
CDBO-6	6/30/99	SVOA	Fluorene	< 10	ug/L
CDBO-6	6/30/99	SVOA	Nitroaniline [4-]	< 20	ug/L
CDBO-6	6/30/99	SVOA	Methyl-4,6-dinitrophenol [2-]	< 50	ug/L
CDBO-6	6/30/99	SVOA	Nitrosodiphenylamine [N-]	< 10	ug/L
CDBO-6	6/30/99	SVOA	4-bromophenyl-phenylether	< 10	ug/L
CDBO-6	6/30/99	SVOA	Hexachlorobenzene	< 10	ug/L
CDBO-6	6/30/99	SVOA	Pentachlorophenol	< 50	ug/L
CDBO-6	6/30/99	SVOA	Phenanthrene	< 10	ug/L
CDBO-6	6/30/99	SVOA	Anthracene	< 10	ug/L

Station Name	Sample Date	Method	Analyte	Analytical Results	Units
CDBO-6	6/30/99	SVOA	Di-n-butyl phthalate	< 10	ug/L
CDBO-6	6/30/99	SVOA	Fluoranthene	< 10	ug/L
CDBO-6	6/30/99	SVOA	Pyrene	< 10	ug/L
CDBO-6	6/30/99	SVOA	Butyl benzyl phthalate	< 10	ug/L
CDBO-6	6/30/99	SVOA	Dichlorobenzidine [3,3'-]	< 20	ug/L
CDBO-6	6/30/99	SVOA	Benzo[a]anthracene	< 10	ug/L
CDBO-6	6/30/99	SVOA	Chrysene	< 10	ug/L
CDBO-6	**6/30/99**	**SVOA**	**Bis(2-ethylhexyl)phthalate**	**2.90**	**ug/L**
CDBO-6	6/30/99	SVOA	Di-n-octyl phthalate	< 10	ug/L
CDBO-6	6/30/99	SVOA	Benzo[b]fluoranthene	< 10	ug/L
CDBO-6	6/30/99	SVOA	Benzo[k]fluoranthene	< 10	ug/L
CDBO-6	6/30/99	SVOA	Benzo[a]pyrene	< 10	ug/L
CDBO-6	6/30/99	SVOA	Indeno[1,2,3-cd]pyrene	< 10	ug/L
CDBO-6	6/30/99	SVOA	Dibenzo[a,h]anthracene	< 10	ug/L
CDBO-6	6/30/99	SVOA	benzo(g,h,i)perylene	< 10	ug/L
CDBO-6	6/30/99	PCB	Aroclor 1242	< 1	ug/L
CDBO-6	6/30/99	PCB	Aroclor 1254	< 1	ug/L
CDBO-6	6/30/99	PCB	Aroclor 1260	< 1	ug/L
CDBO-6	6/30/99	PCB	Aroclor 1016	< 1	ug/L
CDBO-6	6/30/99	PCB	Aroclor 1221	< 2	ug/L
CDBO-6	6/30/99	PCB	Aroclor 1232	< 1	ug/L
CDBO-6	6/30/99	PCB	Aroclor 1248	< 1	ug/L
CDBO-6	6/30/99	VOA	Chloromethane	< 10	ug/L
CDBO-6	6/30/99	VOA	Bromomethane	< 10	ug/L
CDBO-6	6/30/99	VOA	Vinyl chloride	< 10	ug/L
CDBO-6	6/30/99	VOA	Chloroethane	< 10	ug/L
CDBO-6	6/30/99	VOA	Methylene chloride	< 5	ug/L
CDBO-6	6/30/99	VOA	Acetone	< 20	ug/L
CDBO-6	6/30/99	VOA	Carbon disulfide	< 5	ug/L
CDBO-6	6/30/99	VOA	Dichloroethene [1,1-]	< 5	ug/L
CDBO-6	6/30/99	VOA	Dichloroethane [1,1-]	< 5	ug/L
CDBO-6	6/30/99	VOA	1,2-dichloroethene(total)	< 5	ug/L
CDBO-6	6/30/99	VOA	Chloroform	< 5	ug/L
CDBO-6	6/30/99	VOA	Dichloroethane [1,2-]	< 5	ug/L
CDBO-6	6/30/99	VOA	Butanone [2-]	< 20	ug/L
CDBO-6	6/30/99	VOA	Trichloroethane [1,1,1-]	< 5	ug/L
CDBO-6	6/30/99	VOA	Carbon tetrachloride	< 5	ug/L
CDBO-6	6/30/99	VOA	Bromodichloromethane	< 5	ug/L
CDBO-6	6/30/99	VOA	Tetrachloroethane [1,1,2,2-]	< 5	ug/L
CDBO-6	6/30/99	VOA	Dichloropropane [1,2-]	< 5	ug/L
CDBO-6	6/30/99	VOA	Dichloropropene [trans-1,3-]	< 5	ug/L
CDBO-6	6/30/99	VOA	Trichloroethene	< 5	ug/L
CDBO-6	6/30/99	VOA	Chlorodibromomethane	< 5	ug/L
CDBO-6	6/30/99	VOA	Trichloroethane [1,1,2-]	< 5	ug/L
CDBO-6	6/30/99	VOA	Benzene	< 5	ug/L
CDBO-6	6/30/99	VOA	Dichloropropene [cis-1,3-]	< 5	ug/L
CDBO-6	6/30/99	VOA	Bromoform	< 5	ug/L
CDBO-6	6/30/99	VOA	Hexanone [2-]	< 20	ug/L
CDBO-6	6/30/99	VOA	Methyl-2-pentanone [4-]	< 20	ug/L
CDBO-6	6/30/99	VOA	Tetrachloroethylene	< 5	ug/L

Station Name	Sample Date	Method	Analyte	Analytical Results	Units
CDBO-6	6/30/99	VOA	Toluene	< 5	ug/L
CDBO-6	6/30/99	VOA	Chlorobenzene	< 5	ug/L
CDBO-6	6/30/99	VOA	Ethylbenzene	< 5	ug/L
CDBO-6	6/30/99	VOA	Styrene	< 5	ug/L
CDBO-6	6/30/99	VOA	xylenes(total)	< 5	ug/L
CDBO-6	6/30/99	VOA	Dichlorodifluoromethane	< 10	ug/L
CDBO-6	6/30/99	VOA	Trichlorofluoromethane	< 5	ug/L