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GROUNDWATER MONITORING
VALIDATED ANALYTICAL RESULTS FOR THE FOURTH QUARTER 1996
OB/OD GROUNDS, SENECA ARMY DEPOT

PREPARED FOR:
U.S. Army Corps of Engineers
Hunstville, Alabama

PREPARED BY:

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Boston, Massachusetts

February 1997

TABLES

TABLE 3

SENECA ARMY DEPOT ACTIVITY
OD GROUNDS FOURTH QUARTER 1996 MONITORING PROGRAM
INDICATOR ANALYSIS RESULTS

	MATRIX	WATER	WATER	WATER	WATER
	DATE SAMPLED	12/29/96	12/29/96	12/29/96	12/29/96
	ES ID	OB048	OB049	OB050	OB051
	WELL ID	**MW45-2A**	**MW45-2B**	**MW45-2C**	**MW45-2D**
	LAB ID	322953	322954	322955	322956
PARAMETER	**UNITS**				
pH	standard units	7.12	7.14	7.12	7.21
Conductivity	umhos/cm	1190	1250	1270	1300
Total Organic Carbon	mg/L	1.2	0.9	0.8	1
Total Organic Halides	mg/L	<0.02	<0.02	<0.02	<0.02

Table 4

OB/OD 1996 Fourth Quarter Groundwater Monitoring
Validated TAL Metals Analytical Results

WELL ID		MW12	MW13	MW14	MW27	MW14(DU)	MW14(R)	MW45-2	MW45-3	MW45-4
ES ID		OB065	OB061	OB056	OB069	OB057	0B047	OB048	OB052	OB043
SITE		OB	OB	OB	OB	OB	OB	OD	OD	OD
MATRIX		WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
DATA SAMPLED		12/30/96	12/30/96	12/29/96	12/30/96	12/29/96	12/28/96	12/29/96	12/29/96	12/29/96
LAB ID		322971	322963	322962	322967	322961	322957	322953	322949	322827
						Duplicate	Rinsate			
COMPOUND	UNITS									
Aluminimum	ug/l	133	11.8	226	13.5	171	19.8	45.9	45.9	10.3 U
Antimony	ug/l	5.1 U	5.1 U	5.1 U	5.1 U	5.1 U	5.1 U	2 U	2 U	2 U
Arsenic	ug/l	4.2 U	4.2 U	4.2 U	4.2 U	4.2 U	4.2 U	4.2 U	4.2 U	2.7 U
Barium	ug/l	92.4	81	45.8	86.7	44.5	2.3 U	18.4	18.4	22.4
Beryllium	ug/l	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	.3 U	.3 U	0.1 U
Cadmium	ug/l	.3 U	.3 U	.3 U	.3 U	.3 U	0.3 U	.4 U	.4 U	0.3 U
Calcium	ug/l	79500	154000	164000	104000	159000	92.8 U	196000	196000	113000
Chromium	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	.6 U	.6 U	1 U
Cobalt	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1.2 U	1.2 U	1.2 U
Copper	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1.2 U
Iron	ug/l	109	17.9	124	23.3	94.2	17.9 U	220	220	23.4 U
Lead	ug/l	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	1.5 U	1.5 U	1.7 U
Magnesium	ug/l	60300	29100	32200	51200	31300	68.7 U	75100	75100	24600
Manganese	ug/l	0.5	4.1	0.68	50	0.49	0.3	11.7	11.7	4.7
Mercury	ug/l	.1 U	.1 U	.1 U	.1 U	.1 U	0.1 U	.1 U	.1 U	0.1 U
Nickel	ug/l	2.1	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	4.1	4.1	1.6 U
Potassium	ug/l	8880	1630	1550	7570	1490	99.7 U	8100	8100	2380
Selenium	ug/l	2.7 U	3 U	2.7 U	2.7 U	2.7 U	2.7 U	3.6 U	3.6 U	2.4 U
Silver	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1.1 U	1.1 U	1.3 U
Sodium	ug/l	15000	15100	31200	16400	30100	282 U	17600	17600	10900
Thallium	ug/l	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.9 U	3.9 U	4.2 U
Vanadium	ug/l	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	.9 U	.9 U	1.2 U
Zinc	ug/l	12.3 J	8.5 J	5.7 J	5.9 J	9.4 J	6.3 J	8.6 J	8.6 J	6.7 J
Cyanide	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U

TABLE 5

SENECA ARMY DEPOT ACTIVITY
FOURTH QUARTER 1996 GROUNDWATER MONITORING PROGRAM
HISTORICAL SUMMARY OF OB GROUNDS INDICATOR PARAMETER DATA

Monitoring Well		Dec 1994	June 1995	January 1996	March 1996	June 1996	September 1996	December 1996
pH								
Upgradient Well:	MW-13	7.04	7.14	7.13	7.1	6.95	7	7.1
Downgradient Wells:	MW-12	7.37	7.4	7.18	7.39	7.33	7.4	7.5
	MW-14	7.11	7.18	6.75	7.19	7.1	7.2	7.2
	MW-27	7.34	7.4	7.26	7.32	7.28	7.2	7.4
Conductivity								
Upgradient Well:	MW-13	886	838	894	920	943	867	722
Downgradient Wells:	MW-12	911	892	869	844	854	879	850
	MW-14	1082	1090	1025	1047	1070	1070	929
	MW-27	953	912	944	889	877	877	812
Total Organic Carbon								
Upgradient Well:	MW-13	1.2	1.2	1.2	1.1	1.7	1.9	1.0
Downgradient Wells:	MW-12	1.2	1.3	1.1	1.1	1.3	1.6	1.4
	MW-14	1	1.1	1.0	0.95	1.6	2.1	0.8
	MW-27	1	1.1	0.8	0.95	1.3	1.1	1.1
Total Organic Halides								
Upgradient Well:	MW-13	0.03	0.02U	0.02U	<0.02	<0.02	<0.02	<0.02
Downgradient Wells:	MW-12	0.04	0.02U	0.02U	<0.02	<0.02	<0.02	<0.02
	MW-14	0.02U	0.02U	0.02U	<0.02	<0.02	<0.02	<0.02
	MW-27	0.03	0.02U	0.02U	<0.02	<0.02	<0.02	<0.02

TABLE 6

SENECA ARMY DEPOT ACTIVITY
FOURTH QUARTER 1996 GROUNDWATER MONITORING PROGRAM
HISTORICAL SUMMARY OF OD GROUNDS INDICATOR PARAMETER DATA

Monitoring Well		Dec 1994	June 1995	January 1996	March 1996	June 1996	September 1996	December 1996
pH								
Upgradient Well:	MW45-4	7.1	7.24	7.16	7.18	7.2	7.2	7.26
Downgradient Wells:	MW45-1	-	-	-	-	-	-	-
	MW45-2	-	-	-	-	-	-	7.15
	MW45-3	7.19	7.38	7.18	7.28	7.13	7.3	7.28
Conductivity								
Upgradient Well:	MW45-4	1030	829	891	836	793	892	679
Downgradient Wells:	MW45-1	-	-	-	-	-	-	-
	MW45-2	-	-	-	-	-	-	1253
	MW45-3	1430	1335	1325	1213	1350	1275	1275
Total Organic Carbon								
Upgradient Well:	MW45-4	1	0.9	1.1	0.58	0.925	1.2	1
Downgradient Wells:	MW45-1	-	-	-	-	-	-	-
	MW45-2	-	-	-	-	-	-	1.0
	MW45-3	0.8	0.9	0.65	0.78	1.1	1.3	1.3
Total Organic Halides								
Upgradient Well:	MW45-4	0.02U	0.02U	0.02U	<0.02	<0.02	<0.02	<0.02
Downgradient Wells:	MW45-1	-	-	-	-	-	-	-
	MW45-2	-	-	-	-	-	-	<0.02
	MW45-3	0.02U	0.02U	0.02U	<0.02	<0.02	<0.02	<0.02

Table 7

OB Grounds Fourth Quarter 1996 Monitoring Program
Students t-Test Statistical Analysis Results

Background Well MW-13	TOC	pH	Specific Cond.	TOX
Intital Mean =	1.19	7.02	909.50	0.01
Initial Variance =	0.14	0.00	704.53	0.00
Sample Size =	16.00	16.00	16.00	16.00

TOTAL ORGANIC CARBON (TOC)							
Compliance Well MW -12		Background Well MW -13		Compliance Well MW -14		Compliance Well MW -27	
t*=	4.04	t*=	-2.03	t*=	-3.78	t*=	-0.65
tc=	2.73	tc=	2.60	tc=	2.73	tc=	2.73
	Increase		**No Change**		**No Change**		**No Change**
pH							
Compliance Well MW -12		Background Well MW -13		Compliance Well MW -14		Compliance Well MW -27	
t*=	20.18	t*=	4.79	t*=	8.91	t*=	22.19
tc=	3.18	tc=	3.01	tc=	4.67	tc=	3.32
	Increase		**Increase**		**Increase**		**Increase**
SPECIFIC CONDUCTANCE							
Compliance Well MW -12		Background Well MW -13		Compliance Well MW -14		Compliance Well MW -27	
t*=	-3.80	t*=	-4.60	t*=	2.17	t*=	-4.41
tc=	3.21	tc=	4.03	tc=	3.48	tc=	4.37
	No Change		**No Change**		**No Change**		**No Change**
TOTAL ORGANIC HALIDES (TOX)							
Compliance Well MW -12		Background Well MW -13		Compliance Well MW -14		Compliance Well MW -27	
t*=	-1.00	t*=	-1.00	t*=	-1.00	t*=	-1.00
tc=	2.60	tc=	2.60	tc=	2.60	tc=	2.60
	No Change		**No Change**		**No Change**		**No Change**

key:
t*>= tc Indicates a statistically significant increase in the indicator parameter
t*<tc Indicates no statistically significant change in the indicator parameter

Table 7

OD GroundsSecond Quarter 1996 Monitoring Program
Students t-Test Statistical Analysis Results

Background Well MW45-4	TOC	pH	Spec Cond.	TOX
Intital Mean =	0.85	7.18	875.08	0.005
Initial Variance =	0.03	0.00	14375.90	0.000
Sample Size =	12.00	12.00	12.00	12

TOTAL ORGANIC CARBON (TOC)	Compliance Well MW 45-1	Compliance Well MW 45-2	Compliance Well MW 45-3	Background Well MW 45-4
t*=	0.00	1.26	3.49	3.00
tc=	0.00	4.08	4.23	2.72
	Dry	No Change	No Change	Increase

pH	Compliance Well MW 45-1	Compliance Well MW 45-2	Compliance Well MW 45-3	Background Well MW 45-4
t*=	0.00	-0.98	2.47	3.06
tc=	0.00	4.59	5.25	4.04
	Dry	No Change	No Change	No Change

SPECIFIC CONDUCTANCE	Compliance Well MW 45-1	Compliance Well MW 45-2	Compliance Well MW 45-3	Background Well MW 45-4
t*=	0.00	9.05	6.69	-4.50
tc=	0.00	3.28	3.93	3.39
	Dry	Increase	Increase	No Change

TOTAL ORGANIC HALIDES (TOX)	Compliance Well MW 45-1	Compliance Well MW 45-2	Compliance Well MW 45-3	Background Well MW 45-4
t*=	0.00	3.32	3.32	3.32
tc=	0.00	2.72	2.72	2.72
	Dry	Increase	Increase	Increase

key:

t*>= tc	Indicates a statistically significant increase in the indicator parameter
t*<tc	Indicates no statistically significant change in the indicator parameter

APPENDIX A

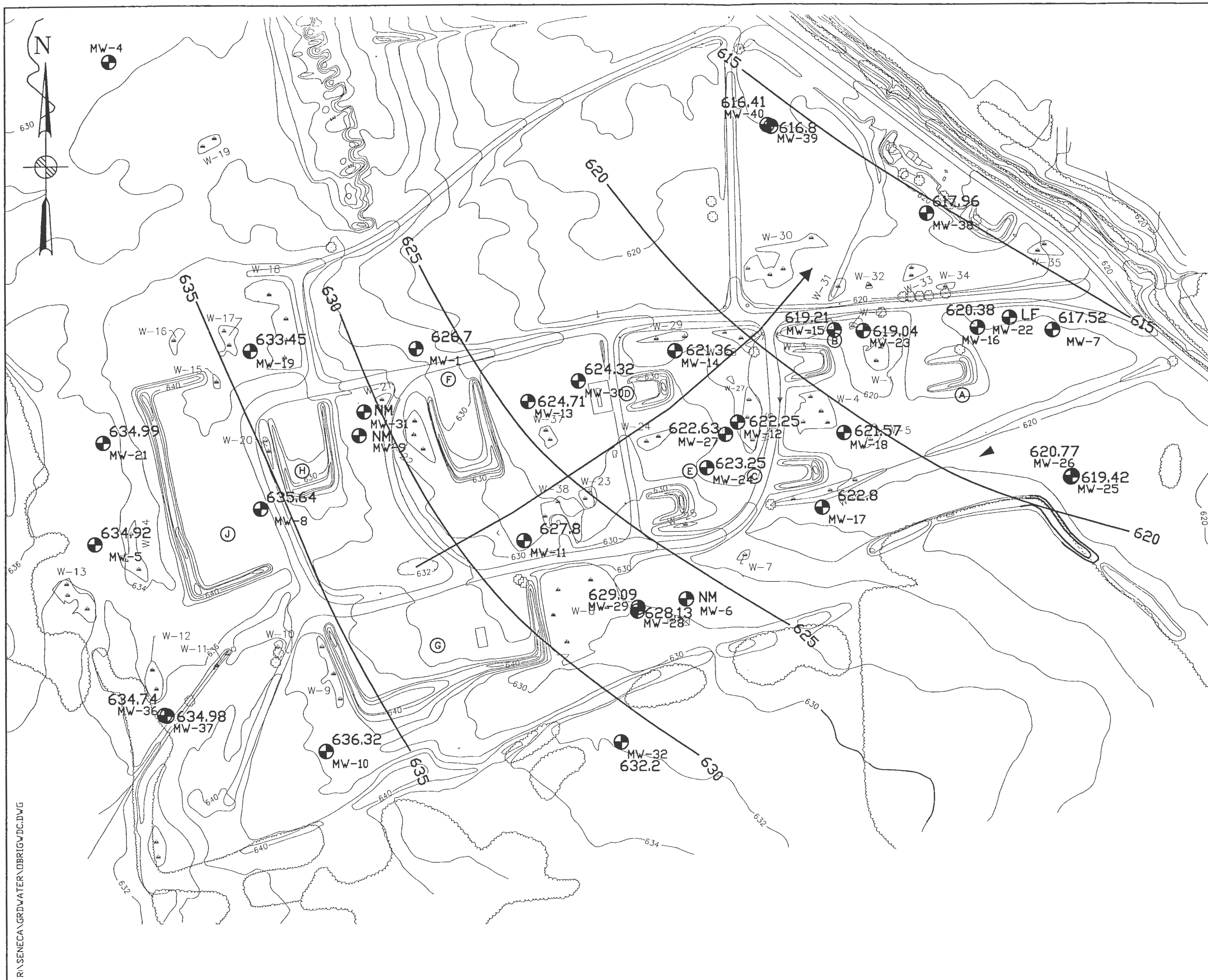
FIELD DATA

OB/OD Fourth Quarter 1996 Groundwater Monitoring Program

1. Groundwater Sampling Field Notes

2. Chain-of-Custody Forms

FIGURES



LEGEND:

- (G) BURNING PAD DESIGNATION
- PAD OR GRID BORING
- GROUND CONTOUR AND ELEVATION
- W-1 WETLAND & DESIGNATION
- UTILITY POLE
- TREE
- BRUSH
- MW-14 620.27 MONITORING WELL & DESIGNATION AND MSL ELEVATION DATUM
- 635 GROUNDWATER CONTOUR LINE (DASHED WHERE INFERRED) MSL DATUM
- ARROW INDICATES PREDOMINANT GROUNDWATER FLOW DIRECTION

100 0 100 200 (feet)

PARSONS

PARSONS ENGINEERING SCIENCE, INC.

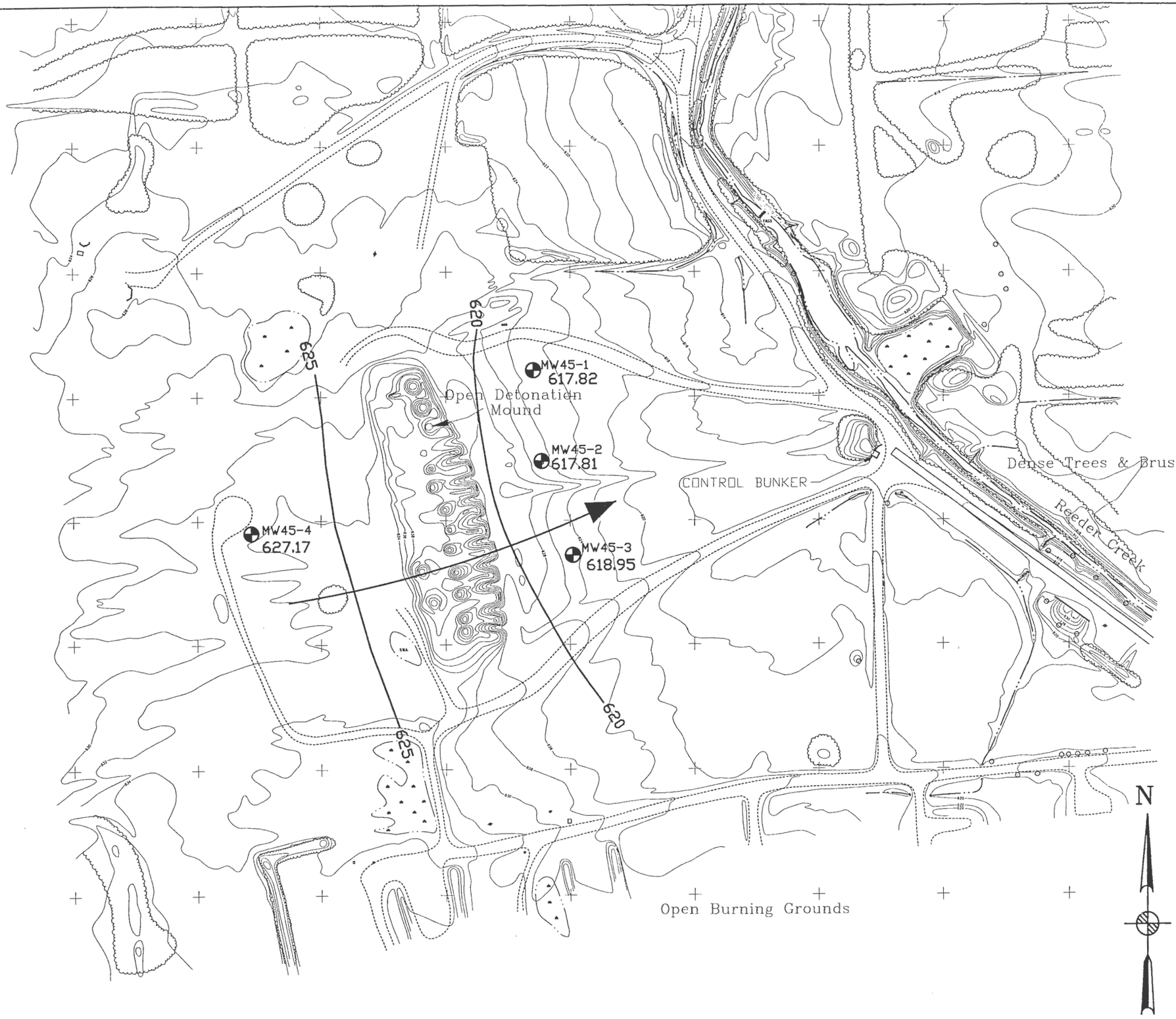
CLIENT/PROJECT TITLE

SENECA ARMY DEPOT ACTIVITY
OB GROUNDS
GROUNDWATER MONITORING PROGRAM

DEPT.	Dwg. No.
ENVIRONMENTAL ENGINEERING	730769-01001

FIGURE 1
GROUNDWATER ELEVATION PLAN
DECEMBER 28, 1996

SCALE	DATE	REV.
1" = 200'	MARCH 1997	A



LEGEND

- MINOR WATERWAY
- MAJOR WATERWAY
- FENCE
- UNPAVED ROAD
- BRUSH LINE
- LANDFILL EXTENTS
- RAILROAD
- 760 — GROUND SURFACE ELEVATION CONTOUR
- ROAD SIGN
- DECIDUOUS TREE
- GUIDE POST
- FIRE HYDRANT
- MANHOLE
- COORDINATE GRID (250' GRID)
- POLE
- UTILITY BOX
- MAILBOX/RR SIGNAL
- OVERHEAD UTILITY POLE
- SURVEY MONUMENT
- MW45-1 617.08 — MONITORING WELL & DESIGNATION AND MSL ELEVATION DATUM
- 625 — GROUNDWATER CONTOUR LINE (DASHED WHERE INFERRED)
- ARROW INDICATES PREDOMINANT GROUNDWATER FLOW DIRECTION

100 0 100 200
(feet)

PARSONS
PARSONS ENGINEERING SCIENCE, INC.

CLIENT/PROJECT TITLE
SENECA ARMY DEPOT ACTIVITY
OD GROUNDS
GROUNDWATER MONITORING PROGRAM

DEPT: ENVIRONMENTAL ENGINEERING
Dwg No: 730769-01001

FIGURE 2
GROUNDWATER ELEVATION PLAN
DECEMBER 28, 1997

SCALE: 1" = 200'
DATE: MARH 1997
REV: A

ACAD\SENECA\GRDWATER\SD45GWDC.DWG

1. Groundwater Sampling Field Data

4

12-28-96

0800	On Site				
	Calibration - Hydrolab Multi probe				
	Model H20 SN# 24085				
	Scout Display SN 30172				
Parameter	Standard Parameters	Reading	Set to	Reading	
pH	7.00	6.98	7.00	7.00	
	10.00	10.37	10.00	10.00	
Spec. Cond. (mS/cm)	1.015	1.118	1.015	1.014	
Turbidity (NTU's)	0.0	1.8	0.0	0.1	
	4.4	1.3	4.4	4.2	
	41.3	89.4	41.3	41.2	
Redox (mV)	pH 4 20°C/470	463	470	470	Quinhydrone in
	pH 7 20°C/295	295	—	—	pH Buffer
	Zobel/16.5°C	449	—	—	Zobel Solution
	Redox Probe has silver-silver chloride reference				
	(mv) electrode.				
DO mg/L	10.54 (13°C)	10.54	—	—	

802 655 - 1203

12-28-96

Water Levels - OB/OD (TOR)

1024	MW-16	2.22'	rusty lock
1026	MW-22	—	lock rusty cannot open
	Pad heaved .5' - radial cracks		
1029	MW-7	3.47'	Top of riser broken
	measure at top-most part, casing sunk		
1038	MW-18	2.38'	pad heaved .6'
			broken apart
1042	MW-17	1.73	OK
1045	MW-24	4.08	Pad heaved - .7'
			broken apart
1049	MW-27	3.31	OK
1051	MW-12	2.25	pad heaved .3'
1056	MW-32	2.61	OK
1100	MW-11	2.85	Heaved .2'
1106	MW-5	3.07	Protective casing settled
11.11	MW-	2.91'	(abandoned - inoperable
	not locked -		sealed with grout)
1112	MW-21	2.89	Pad broken apart
	protective casing heaved + loose		
1118	MW-19	2.89	Pad broken apart
			protective casing heaved
1124	MW-37	5.83'	OK

KKS 12-28-96

Water Levels OB/OD Cont'd

1125	MW-36	5.81	OK
1138	MW-13	2.38	Pad ~~heaved~~ settled - tipped
	TOR above Top of protective casing .1'		
1142	MW-14	3.15'	Pad + Riser badly
	heaved - no pressure cap TOR and		
	TOC same height.		
1147	MW-35	3.73	Pad broken in pieces
1152	MW-2	6.32	Ready to fill over
	4" dia. Riser broken just below G.S.		
	Protective casing very loose.		
1201	MW-38	2.91'	
1211	MW45-4	5.87'	OK
1213	MW-4	7.27'	Protective casing cover
	sunk. - .4'		
1217	Setup @ MW45-4		
	POW = 9.75' Static = 5.87'		
	Water column = 3.88' Volume = .63 gal.		
	Pump Intake @ 8.5'		
1245	Start Pump		
	Parameters on next page		

DO = 10%
Cond = 3%
pH ± .1
Eh = ± 10 mV

MW45-4 Parameters

Time	Rate	Volume Removed	Temp	Cond	DO	pH	Redox	Turbidity
1255	360	.5	7.92	.793	1.11	7.03	325	11.1
1258	360	1.25	8.10	.781	.66	7.02	327	6.0
1303	360	1.5	8.20	.772	.50	7.02	329	3.0
1306	360	1.75	8.22	.769	.45	7.02	330	2.4
1309	360	2.0	8.26	.767	.43	7.03	331	2.2
1312	360	2.3	8.27	.765	.41	7.02	331	1.7

1330 Sample MW45-4

Sample #'s	Metals/CN	TOX	TOC	pH + Cond
08043 MW45-4-1	X	X	X	X
08044 MW45-4-2		X	X	X
08045 MW45-4-3		X	X	X
08046 MW45-4-4		X	X	X

Return to trailer - pack samples

1530 Drive to Syracuse Fed Ex

1700 Leave Fed Ex

End of Day

12-28-96

45-1	8.63
45-2	12.42
45-3	14.09
MW 12	9.11
MW-13	10.4
MW-14	10.5
MW 27	15.16

12-29-96

windy - Showers

0730 On Site

Hydrolab H2O Calibration

Parameter	Standard	Reading	Set to	Reading
pH	7.00	7.10	7.00	7.00
	10.00	9.95	10.00	10.00
Cond. (mS/cm)	1015	1.034	1.015	1.014
Turbidity (NTU's)	0.10	0.0	0.10	0.1
	4.41	2.5	4.4	4.3
	41.3	77.6	41.3	
	4.41	4.5	–	–
Redox (mV)	pH 4 470/20°C	469	–	–
	pH 7 295/20°C	287	295	
DO mg/L	Air Calibration 18.25°C/9.42	9.42	–	–

0900 Rinsate Split MW-14 MW-14 MRD
Sample # 08047

0956 Set up @ MW45-1
Static = 7.26' POW = 8.63
1.37' Column 0.22 gal.

1003 0.1 gal. 7.45' 1045 7.38

Recovery rate too slow to sample - well was never developed

12-29-96

1010 Setup MW45-2 Static 18.95
POW = 12.42 Column = 3.47' Volume = 0.56gal
Pump Intake = 11.5'
1026 WL after Pump inserted 8.78'
340 ml/min - slight draw down

MW45-2 Parameters

Time	Rate	Volume Removed	Temp	Cond	DO	pH	Redox	Turb
1036	360 to 180	.55	9.28	1.462	8.76	6.86	306	0.0
1040	180	.75	9.22	1.464	8.66	6.84	307	0.0
043	180	.85	9.31	1.470	8.49	6.82	308	0.0
048	180	1.1	9.40	1.477	7.99	6.77	310	0.0
051	180	1.25	9.49	1.473	7.72	6.75	311	0.0
054	180	1.35	9.58	1.464	7.40	6.73	312	0.0

Temp is increasing due to a 50°F ambient air temp and low flow thru cell.

1100 Sample MW45-2
Sample # OB048 MW45-2-1
OB049 MW45-2-2
OB050 MW45-2-3
OB051 MW45-2-4

KKS 12-29-96

12-29-96

Setup @ MW45-3
Static = 7.50' POW = 14.09
6.59' Column Volume = 1 gallon
1134 Intake @ 12.0'
1134 W.L after setting pump 7.05'
1138 Start pump

MW45-3 Parameters

Time	Rate	Volume Removed	Temp	Cond	DO	pH	Redox	Turbidity
1144	220	.25	9.07	1.188	3.85	6.99	307	0.0
1147	300	.45	9.02	1.199	3.81	6.99	308	0.0
1150	300	.61	9.01	1.200	3.86	6.99	309	0.0
1153	320	.80	9.04	1.206	4.03	6.98	309	0.0
1156	320	1.20	8.95	1.222	4.27	6.98	309	0.0
1159	320	1.60	8.91	1.235	4.44	6.98	309	0.0
1202	320	2.0	8.88	1.245	4.54	6.98	309	0.0
1205	320	2.4	8.88	1.248	4.57	6.97	309	0.0
1208	320	2.8	8.93	1.248	4.60	6.97	309	0.0
1211	320	3.2	8.95	1.245	4.65	6.97	308	

1230 Sample MW45-3-1 OB052
-2 OB053
-3 OB054
-4 OB055

KKS 12-29-96

1338 Setup at MW-14 5' Screen

Static = 3.13' POW = 10.58

Column = 7.45 Volume 1.2

Pump Intake @ 8.0'

(TOC, TOX) Sample to be taken

MS/MSD MW-14-1 = OB056 split w/ MRD

MW-14-1-Dup = OB057 Metals + CN Only

MW-14-2 = OB058

MW-14-3 = OB059

MW-14-4 = OB060

Matrix Spike triplicate TOC + TOX

1400 Start Pump

Parameter for MW-14

Time	Rate	Cum Vol	Temp	Cond	DO	pH	Redox	Turbidity
1411	470	.75	6.31	1.007	1.47	6.84	310	125
416	500	1.3	6.66	1.008	1.15	6.83	310	66
21	600	2.25	6.79	1.008	1.13	6.84	309	36.7
1?6	600	2.80	6.87	1.007	1.07	6.83	309	22.6
133	600	3.60	6.90	1.007	.87	6.83	308	[illegible]
38	500	9.5	7.00	1.004	.82	6.83	309	8.7
141	500	4.75	6.92	1.006	.85	6.83	309	6.0

1445 Sample MW-14

1520 Return to MW 45-2

Continue sampling

2 TOX + rest of samples

1620 Leave OB/QD

1635 At Trailer

Check NTU Calibration

Std 4.4 = 3.5

Pack Samples on ice

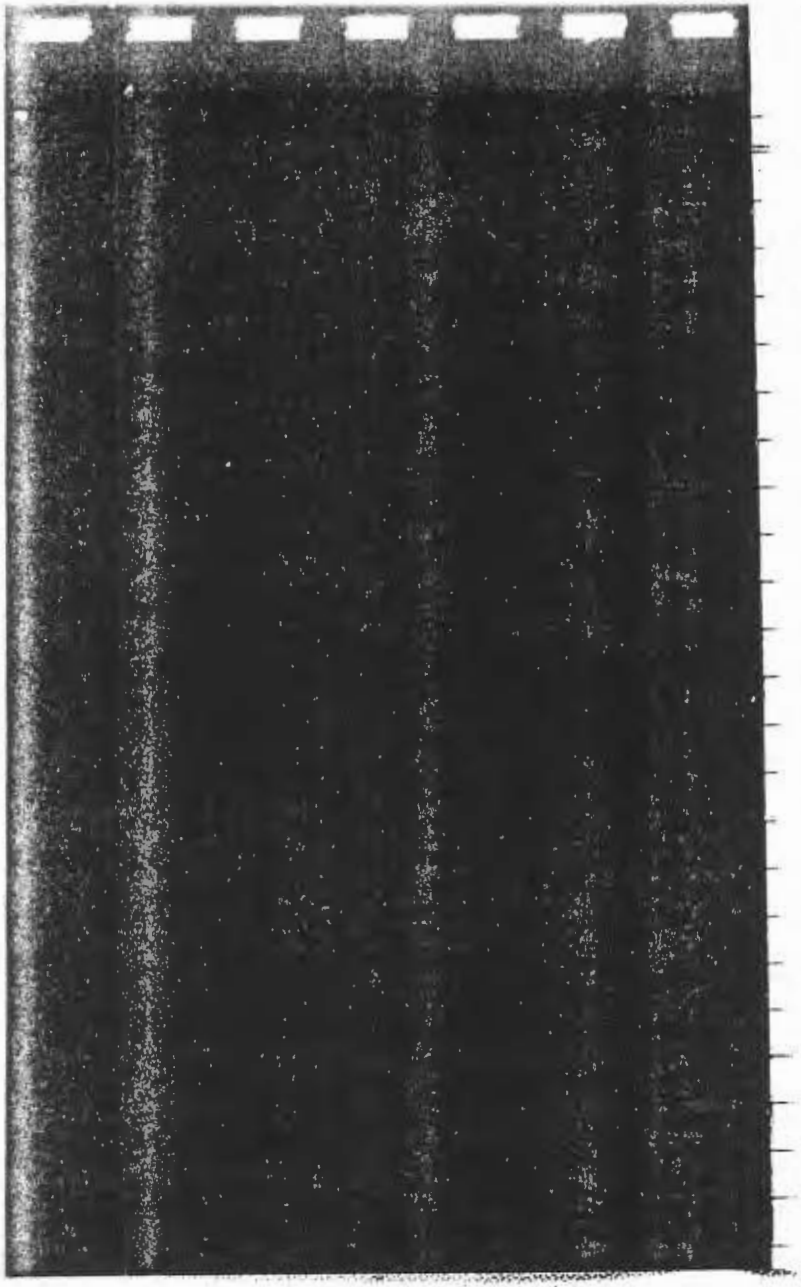
0630 Leave Site

Parameter	Standard	Reading	Set to	Reading
pH	7.00	7.06	7.00	7.00
	10.00	10.01	—	—
Cond. (mS/cm)	1.015	1.039	1.015	
Turbidity (NTU's)	0.16	0.0	0.1	0.1
	4.64	7.8	4.6	4.5
	40.5	28.0	40.5	40.5
Redox mV	25°C/pH 4 462	470	462	462
	25°C/pH 7 285	278	285	285
	Zobel/17°C 446	448	—	—
DO mg/l	16°C/9.87	9.84	9.87	9.87

12-30-96

0710 On Site

Hydro lab calibration



27 Dec 96

Quarterly 4th 1996 (CW)

Kenny Smith + Carl Wolff

0700 - 1400 - Drive to SEAD.

1430 - Arrive onsite. Visit Bldg 323. Drop Supplies at 1st trailer. Inspect Equipment. Call Rob K. to set sequence + LIMS No.

1500 - 1700

Mob for site work on Saturday. Prep Bottles: Check Inventory.

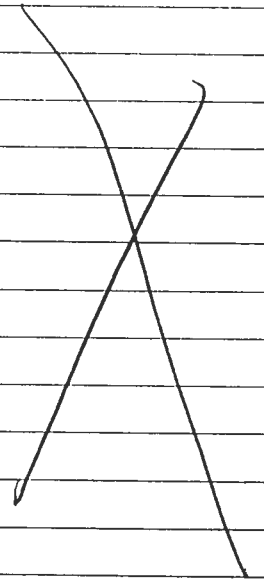
1700 - Prep Calibration Solutions + Standards

(1) Turbidity (from 4000 NTU stock)
40 = 41.3 NTU ✓
4 = 4.41 NTU ✓

27 Dec 96
CAW, KS

also prepped pH, cond standards.

1830 - Leave Site



28 Dec 96

→ 0800 - Enter Site
→ 0810 - Mob for field work.
→ 0815 - 0830
↳ Calibrate Hydrolabs (KS)
De-con Pumps + WL Probes (CAW)
Pack truck
930 - Enter Post 5
945 - Enter OB/OD. Do water levels

* MW-25	4.38'	
MW-26	3.54'	
MW-38	2.78'	
MW-23	3.83'	
MW-15	2.78'	Riser exposed.
MW-6	Could not access	Riser Blocked casing OK.
MW-28	3.77'	
MW-29	2.98'	
MW-9	2.83'	
MW-31	2.82'	No Lock

* all labels on bottom top of riser.

28 Dec 96

MW-1 7.52'
MW-8 3.14' — NO LOCK
MW-10 2.30'
MW-30 3.80' — LOCK DOES
MW-40 3.66' — NOT CLOSE

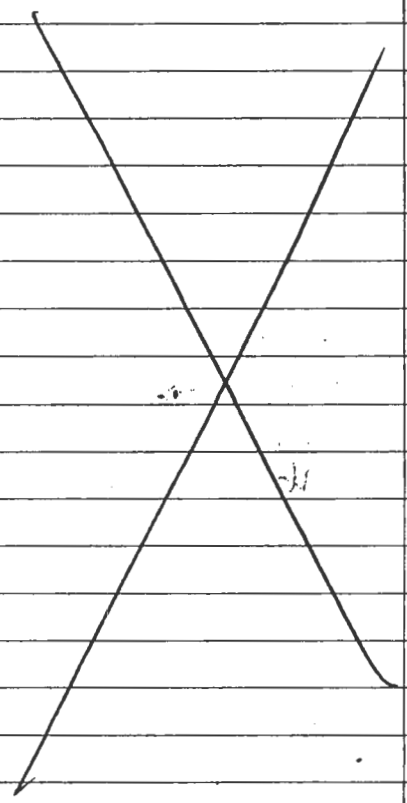
MW-45-1 7.36' —
MW-45-2 9.10'
MW-45-3 7.62'

12[15] - SAMPLE MW 45-4
13[30] . Fill MW 45-4
BOTTLES.
~~07~~
14[10] - LEAVE OB/OD.
14[20] - RTN TO TRAILER.
RECEIVE RKAMS MESSAGE

OB043 = MW 45-4
AL 040 = 1ST ASH SAMPLE

28 Dec 96

→ 14[20] - 15[30]
PACK SAMPLES / DECON EQUIP.
PREP FOR SUNDAY



29 Dec 96 Cloud, Min 40s

0730 – Enter Site. Go to Trailer.

0730 – 0900 – Prep for wells. Organize Bottles. Calibrate Hydro Lab.

0900 – Take Rinsate Sample MW-114R.

0930 – Enter Post 5

0940 – Enter [redacted] OB/OD. CW

0940 – [redacted] Sample
MW 45-1 – DRY
MW 45-2 – Sampled
MW 45-3 – Sampled
MW 14 – Sampled, QC
– see KS notes –

1600 – 1830 Pack Samples, Organize, Decon, C-O-C.

30 Dec 96 Cloudy, 30s

0715 – Arrive @ Trailer. Prep for sampling

0910 Setup @ MW-13 OB/OD
Static – 2.48 POW = 10.00
Column = 7.52' Volume = 1.2 gal
Pump Intake = 8'

0928 Start Pump 600 ml/min
Fast Recovering well – no drawdown
Parameters @ MW-13

Time	Rate	Vol	Temp	Cond	DO	pH	Redox	Turbidity
0938	600	1.2	7.02	.920	.72	6.62	315	3.5
0943	600	2.2	7.05	.920	.61	6.62	315	1.3
0948	500	2.9	7.16	.916	.43	6.61	319	0.9
0951	500	3.25	7.15	.917	.48	6.62	320	1.0
0954	500	3.7	7.15	.917	.45	6.61	320	0.9

Sample @ MW-13 1000
Sample #'s OB061
OB062
OB063
OB064

12-30-96

1025 Setup @ MW-12 OB
Static = 2.31' POW 9.17'
Column = 6.86' Vol = 1.1 gal
Intake = 7.0'

1049 START Pump
1055 Column @ 3.3'
1055-1100 Adjust Flow
end 500 ml/min.

Time	Rate	Vol	T	Cond	DO	pH	Redox	Turb.
1102	500	1.6	6.58	0.799	0.37	6.97	299	33.0
1107	500	2.5	6.65	0.799	0.34	6.97	299	25.6
1113	500	3.2	6.69	0.798	0.38	6.98	299	19.4
1119	500	4.2	6.70	0.799	0.34	6.98	298	13.2
1127	500	5.1	6.58	0.799	0.33	6.98	298	9.6

12-30-96

SAMPLES OB065
OB066
OB067
OB068
SAMPLE Time 1145

1200 Setup @ MW-27 OB
Static - 3.40' POW 15.40'
Column = 12.06' Vol. = 2 gal.
Pump Intake @ 13.0'

1200 - 1245 LUNCH
Setup
1250 ~~START~~ Pump
1256 START Pump
1256 - 105 Adjust Flow
105 - 340 ml/min.
Adjust to 500 ml/min

1313 DRAWDOWN to 4.08'
Remains Steady

12-30-96

Time	Rate	Vol	T	Cond	DO	pH	Redox	Turb
1308	500	0.5	8.38	0.806	0.71	6.86	302	2.2
1315	500	1.3	8.67	0.812	0.36	6.87	304	1.5
1320	500	2.0	8.80	0.818	0.22	6.89	304	1.4
1325	500	2.7	8.86	0.825	0.21	6.91	304	1.5
1330	500	3.3	8.81	0.831	0.16	6.92	304	1.6
1334	500	3.7	8.73	0.834	0.16	6.93	304	1.6
1337	500	4.0	8.81	0.834	0.17	6.94	304	1.6

1345 Sample MW-27 OB/OD
Sample #'s OB069
OB070
OB071
OB072

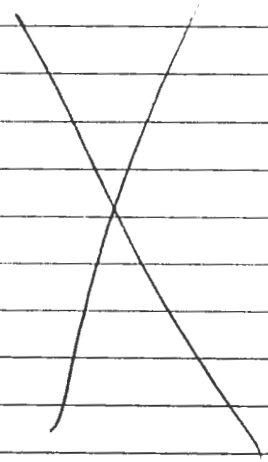
12-30-96

1400 Left OB/OD

1430 Left @ Post 5

1430-1830 C-O-C, Pack Samples For Shipment To ITS

1830-1930 Transport To FedEx Syracuse



12-31-96

07^{00} - 14^{00} Drive from Syracuse, NY to Boston, MA.

2. Chain-of-Custody Forms

CHAIN-OF-CUSTODY RECORD

PARSONS
ENGINEERING-SCIENCE, INC.
Prudential Center
Boston, MA 02199
Phone: 617-859-2000
Fax: 617-859-2043

JOB NO. 730769-01001
PROJECT SEAD 4th 1/4 '96 OB/OD
CONTACT Mike Duchesneau

LABORATORY ITS
ADDRESS Chris Ouellette
CONTACT Colchester, VT

SAMPLE NO.	LABORATORY SAMPLE NO.	SAMPLING DATE	SAMPLING TIME	SAMPLE DEPTH	SAMPLE MATRIX	VOA	SVOC	METALS	PEST/PCB	CN	HERB	TPH	TOC	TOX	pH + Spec. Cond.	NO. OF CONTAINERS	COMMENTS (Special instructions, cautions, etc.)
OB043		12-28-96	1330		water			X		X			X	X	X	6	
OB044		↓	↓		↓								X	X	X	4	
OB045													X	X	X	4	
OB046													X	X	X	4	

	VOA	SVOC	METALS	PEST/PCB	CN	HERB	TPH	TOC	TOX	pH + Spec. Cond.
VOA Vial								X		
Glass Bottle									X	
Plastic Bottle			X		X					X
Preservative			A D		A F			A E	A E	A
Container Volume			1 L		1 L			40 ml	250 ml	1L

Sampled and Relinquished by
Sign [signature]
Print Kerry Smith
Firm Parsons ES
Date 12-28-96 Time 1500

Received by
Sign
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Received by
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Evidence Samples tampered with? ☐ No ☐ Yes
If Yes, explain in remarks.

PRESERVATION KEY:
A - Ice
B - Filtered
C - Acidified with HCl
D - Acidified with HNO_3
E - Acidified with H_2SO_4
F - NaOH + Ascorbic
G - Other

REMARKS: (Sample storage, nonstandard sample bottles)
Keep Cooler

Cooler #:

PARSONS
ENGINEERING-SCIENCE, INC.
Prudential Center
Boston, MA 02199
Phone: 617-859-2000
Fax: 617-859-2043

CHAIN-OF-CUSTODY RECORD

JOB NO. 730769 - 01001
PROJECT SEAD 4th Quarterly Monitoring '96 - OB/OD
CONTACT M. Duchesneau

LABORATORY ITS
ADDRESS Colchester, VT
CONTACT Chris Oullette

SAMPLE NO.	LABORATORY SAMPLE NO.	SAMPLING DATE	SAMPLING TIME	SAMPLE DEPTH	SAMPLE MATRIX	VOA	SVOC	METALS	PEST/PCB	CN	HERB	TPH	TOC	TOX	pH and Spec. Cond.	NO. OF CONTAINERS	COMMENTS (Special instructions, cautions, etc.)
OB069		12-30-96	1345		water			X		X			X	X	X	6	
OB070		↓	↓		↓								X	X	X	4	
OB071													X	X	X	4	
OB072			↓										X	X	X	4	
OB065			1145					X		X			X	X	X	6	
OB066			↓								KRS		X	X	X	4	
OB067													X	X	X	4	
OB068		↓	↓		↓	KRS			KS				X	X	X	4	

KRS

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Date 12-30-96 Time 1600

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Evidence Samples tampered with? ☐ No ☐ Yes
If Yes, explain in remarks.

	VOA	SVOC	METALS	PEST/PCB	CN	HERB	TPH	TOC	TOX	pH and Spec. Cond.
VOA Vial								X		
Glass Bottle									X	
Plastic Bottle			X		X					X
Preservative			A D		A F			A E	A E	A
Container Volume			1 L		1 L			40 ml	250 ml	1 L

PRESERVATION KEY:
A - Ice
B - Filtered
C - Acidified with HCl
D - Acidified with HNO_3
E - Acidified with H_2SO_4
F - NaOH + Ascorbic
G - Other

REMARKS: (Sample storage, nonstandard sample bottles)
Keep Cooler
Sample #OB072 is the last sample in the OB/OD SDG. (Numerically)

Cooler #:

ESR - Form COC1 White - return with data Yellow - lab copy Pink - Sampler copy

CHAIN-OF-CUSTODY RECORD

PAGE 1 OF 2

PARSONS
ENGINEERING-SCIENCE, INC.
Prudential Center
Boston, MA 02199
Phone: 617-859-2000
Fax: 617-859-2043

JOB NO. 730769-01001
PROJECT SEAD 4th Quarterly Monitoring '96 - OB/OD
CONTACT Mike Dechesare

LABORATORY ITS
ADDRESS Colchester VT
CONTACT Chris Ouellette

SAMPLE NO.	LABORATORY SAMPLE NO.	SAMPLING DATE	SAMPLING TIME	SAMPLE DEPTH	SAMPLE MATRIX	ANALYSES: VOA	SVOC	METALS	PESTICIDES	CN	HERB	TPH	TOC	TOX	pH and Spec. Cond.	NO. OF CONTAINERS	COMMENTS (Special instructions, cautions, etc.)
OB056		12-29-96	1445		Water			X	4S	X		KTS	X	X	X	12	Matrix Spike
						KS											

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Date Time

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Date Time

Evidence Samples tampered with? ☐ No ☐ Yes
If Yes, explain in remarks.

	VOA Vial	Glass Bottle	Plastic Bottle	Preservative	Container Volume
VOA					
SVOC					
METALS			X	A D	1 L
PESTICIDES					
CN			X	A F	1 L
HERB					
TPH					
TOC	X			A E	40 ml
TOX		X		A E	250 ml
pH and Spec. Cond.			X	A	1 L

PRESERVATION KEY: A - Ice; B - Filtered; C - Acidified with HCl; D - Acidified with HNO_3; E - Acidified with H_2SO_4; F - NaOH + Ascorbic; G - Other

REMARKS: (Sample storage, nonstandard sample bottles)
Keep Cooler

Cooler #:

ESB - Form COC1 White - return with data Yellow - lab copy Pink - Sampler copy

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Fax: 617-859-2043

CHAIN-OF-CUSTODY RECORD

JOB NO. 730769-0100
PROJECT SEAD 4th Quarterly Monitoring '96 - 08/[illegible]
CONTACT Mike Duchesneau

LABORATORY ITS
ADDRESS Colchester, VT
CONTACT Chris Ouelette

SAMPLE NO.	LABORATORY SAMPLE NO.	SAMPLING DATE	SAMPLING TIME	SAMPLE DEPTH	SAMPLE MATRIX	VOA	SVOC	METALS	PEST/PCB	CN	HERB	TPH	TOC	TOX	pH and Specific Cond.	NO. OF CONTAINERS	COMMENTS (Special instructions, cautions, etc.)
OB061		12-30-96	1000		water			X		X			X	X	X	6	
OB062		↓	↓		↓								X	X	X	4	
OB063		↓	↓		↓								X	X	X	4	
OB064		↓	↓		↓								X	X	X	4	

	VOA	SVOC	METALS	PEST/PCB	CN	HERB	TPH	TOC	TOX	pH and Specific Cond.
VOA Vial								X		
Glass Bottle									X	
Plastic Bottle			X		X					X
Preservative			A		A			A E	A E	A
Container Volume			1 L		1 L			40 ml	250 ml	1 L

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Sign [signature]
Print Kerry Smith
Firm Parsons Engineering Science
Date 12-30-96 Time 1600

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Date Time

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Date Time

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Date Time

Evidence Samples tampered with? ☐ No ☐ Yes
If Yes, explain in remarks.

PRESERVATION KEY:
A - Ice
B - Filtered
C - Acidified with HCl
D - Acidified with HNO_3
E - Acidified with H_2SO_4
F - NaOH + Ascorbic
G - Other

REMARKS: (Sample storage, nonstandard sample bottles)
Keep the cooler

Cooler #:

CHAIN-OF-CUSTODY RECORD

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Fax: 617-859-2043

JOB NO. 730769-01001
PROJECT SEAD 4th Quarterly Monitoring 96 - OB/OD
CONTACT Mike Duchesneau

LABORATORY ITS
ADDRESS Colchester VT
CONTACT Chris Oullette

SAMPLE NO.	LABORATORY SAMPLE NO.	SAMPLING DATE	SAMPLING TIME	SAMPLE DEPTH	SAMPLE MATRIX	VOA	SVOC	METALS	PEST/PCB	CN	HERB	TPH	TOC	TOX	pH and Spec Cond	NO. OF CONTAINERS	COMMENTS (Special instructions, cautions, etc.)
OB047		6-29-96	0900		water			x		x			x	x	x	6	Rinsate
OB058		↓	1445		↓								x	x	x	4	
OB059		↓	↓		↓								x	x	x	4	
OB060		↓	↓		↓								x	x	x	4	
OB057		↓	↓		↓			x		x						2	

KKS KKS KKS KKS

	VOA	SVOC	METALS	PEST/PCB	CN	HERB	TPH	TOC	TOX	pH and Spec Cond
VOA Vial								X		
Glass Bottle									X	
Plastic Bottle			X		X					X
Preservative			A D		A F			A E	A E	A
Container Volume			1 L		1 L			40 ml	250 ml	1 L

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Date Time

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Date Time

Evidence Samples tampered with? ☐ No ☐ Yes
If Yes, explain in remarks.

PRESERVATION KEY:
A - Ice
B - Filtered
C - Acidified with HCl
D - Acidified with HNO_3
E - Acidified with H_2SO_4
F - NaOH + Ascorbic
G - Other

REMARKS: (Sample storage, nonstandard sample bottles)
Keep cooler

Cooler #:

CHAIN-OF-CUSTODY RECORD

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ENGINEERING-SCIENCE, INC.
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Fax: 617-859-2043

JOB NO. 730769-01001
PROJECT SEAD 4th Quarterly Monitoring
CONTACT Mike Duchesneau

LABORATORY ITS
ADDRESS Colchester, VT
CONTACT Chris Oullette

SAMPLE NO.	LABORATORY SAMPLE NO.	SAMPLING DATE	SAMPLING TIME	SAMPLE DEPTH	SAMPLE MATRIX	VOA	SVOC	METALS	PEST/PCB	CN	HERB	TPH	TOC	TOX	pH and Spec. Cond.	NO. OF CONTAINERS	COMMENTS (Special Instructions, cautions, etc.)
OB048		12-29-96	1100		Water			X		X			X	X	X	6	
OB049		↓	↓		↓								X	X	X	4	
OB050		↓	↓		↓								X	X	X	4	
OB051		↓	↓		↓								X	X	X	4	

KES

	VOA	SVOC	METALS	PEST/PCB	CN	HERB	TPH	TOC	TOX	pH and Spec. Cond.
VOA Vial								X		
Glass Bottle									X	
Plastic Bottle			X		X					X
Preservative			A D		A F			A E	A E	A
Container Volume			1 L		1 L			40 ml	250 ml	1 L

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Date Time

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Date Time

Evidence Samples tampered with? ☐ No ☐ Yes
If Yes, explain in remarks.

PRESERVATION KEY:
A - Ice
B - Filtered
C - Acidified with HCl
D - Acidified with HNO_3
E - Acidified with H_2SO_4
F - NaOH + Ascorbic
G - Other

REMARKS: (Sample storage, nonstandard sample bottles)
pH and Spec. Cond. Bottles filled 1/2 full - slow well
OB048 - 51
Keep Cooler

Cooler #:

CHAIN-OF-CUSTODY RECORD

PAGE 1 OF 1

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ENGINEERING-SCIENCE, INC.
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Boston, MA 02199
Phone: 617-859-2000
Fax: 617-859-2043

JOB NO. 730769-01001
PROJECT SEAD 4th Quarterly Monitoring '96 - OB/OD
CONTACT M. Duchesneau

LABORATORY MRD
ADDRESS Omaha, NB
CONTACT Sample Custodian

SAMPLE NO.	LABORATORY SAMPLE NO.	SAMPLING DATE	SAMPLING TIME	SAMPLE DEPTH	SAMPLE MATRIX	VOA	SVOC	METALS	PESTICIDES	CN	HERB	TPH	TOC	TOX	pH and Spec. Cond.	NO. OF CONTAINERS	COMMENTS (Special instructions, cautions, etc.)
03056		12-29-96	1445		water			X		X			X	X	X	6	sample split from MW-19
03047		12-29-96	0900		water			X		X			X	X	X	6	Rinsate

ANALYSES

VOA Vial									X			
Glass Bottle										X		
Plastic Bottle			X		X							X
Preservative			A D		A F				A E	A E		A
Container Volume			1 L		1 L				40 ml	40 ml		1 L

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Date Time

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Date Time

Received by
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Firm
Date Time

Evidence Samples tampered with? ☐ No ☐ Yes
If Yes, explain in remarks.

PRESERVATION KEY:
A - Ice
B - Filtered
C - Acidified with HCl
D - Acidified with HNO_3
E - Acidified with H_2SO_4
F - NaOH + Ascorbic
G - Other

REMARKS: (Sample storage, nonstandard sample bottles)
LIMS # 4363
Return cooler to:
ITS
55 South Park Drive
Colchester, VT 05446

Cooler #:

ESS Form COC1 White - return with data Yellow - lab copy Pink - Sampler copy

CHAIN-OF-CUSTODY RECORD

PAGE 1 OF 1

PARSONS
ENGINEERING-SCIENCE, INC.

Prudential Center
Boston, MA 02199
Phone: 617-859-2000
Fax: 617-859-2043

JOB NO. 730765-01001
PROJECT SEAD 4th Quarterly Monitoring '95 - OB/OD
CONTACT Mike Duchesneau

LABORATORY ITS
ADDRESS Colchester Vt
CONTACT Chris Ouellette

SAMPLE NO.	LABORATORY SAMPLE NO.	SAMPLING DATE	SAMPLING TIME	SAMPLE DEPTH	SAMPLE MATRIX	ANALYSES: VOA	SVOC	METALS	PESTPCB	CN	HERB	TPH	TOC	TOX	pH + Spec. Cond.	NO. OF CONTAINERS	COMMENTS (Special instructions, cautions, etc.)
KKS OB052		12-29-96	1230		water			X		X			X	X	X	6	
OB053		↓	↓		↓			KKS		KKS			X	X	X	4	
OB054								KKS		KKS			X	X	X	4	
OB055								KKS		KKS			X	X	X	4	
		KKS				KKS			KKS		KKS						

Sampled and Relinquished by
Sign
Print Kerry Smith
Firm Parsons ES
Date 1600 Time 12-30-96

Received by
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Date Time

Relinquished by
Sign
Print
Firm
Date Time

Received by
Sign
Print
Firm
Date Time

Evidence Samples tampered with? ☐ No ☐ Yes
If Yes, explain in remarks.

VOA Vial	
Glass Bottle	
Plastic Bottle	
Preservative	
Container Volume	

PRESERVATION KEY: A - Ice; B - Filtered; C - Acidified with HCl; D - Acidified with HNO_3; E - Acidified with H_2SO_4; F - NaOH + Ascorbic; G - Other

REMARKS: (Sample storage, nonstandard sample bottles)
pH/Conductivity bottles for OB052-55 filled 1/2 full - slow well

Keep Cooler

Cooler #:

ESB - Form COC1 White - return with data Yellow - lab copy Pink - Sampler copy

APPENDIX B

Laboratory Analytical Packages with QA/QC Data

1. **Sample Delivery Group No. 63260**

   A. **Indicator Analysis Results**
   B. **TAL Metals Analysis**

1. Sample Delivery Group No. 63260

SAMPLE DATA SUMMARY PACKAGE
LAB CODE: INCHVT
CONTRACT NO.: 93206
CASE NO.: OB13H
SDG NO.: 63260

Inchcape Testing Services

ITS Environmental Laboratories

55 South Park Drive
Colchester, VT 05446
Tel. 802-655-1203
Fax. 802-655-1248

January 30, 1997

Mr. Mike Duchesneau
Parsons Engineering Science
Prudential Center
Boston, MA 02199

Re: Laboratory Project No. 93206
Case No.93206; SDG 63260

Dear Mr. Duchesneau:

Enclosed are the analytical results of samples received intact by ITS Environmental Laboratories on December 30, 1996. Laboratory numbers and quality control samples have been assigned and designated as follows:

Lab ID	Client Sample ID	Sample Date	Sample Matrix
	Received: 12/30/96 ETR No: 63260		
322827	OB043	12/28/96	Water
322828	OB044	12/28/96	Water
322829	OB045	12/28/96	Water
322830	OB046	12/28/96	Water
	Received: 12/31/96 ETR No: 63272		
322949	OB052	12/29/96	Water
322950	OB053	12/29/96	Water
322951	OB054	12/29/96	Water
322952	OB055	12/29/96	Water
322953	OB048	12/29/96	Water
322954	OB049	12/29/96	Water
322955	OB050	12/29/96	Water
322956	OB051	12/29/96	Water

Lab ID	Client Sample ID	Sample Date	Sample Matrix
	Received: 12/31/96	ETR No: 63272 (continued)	
322957	OB047	12/29/96	Water
322958	OB058	12/29/96	Water
322959	OB059	12/29/96	Water
322960	OB060	12/29/96	Water
322961	OB057	12/29/96	Water
322962	OB056	12/29/96	Water
322962MS	OB056MS	12/29/96	Water
322962DP	OB056REP	12/29/96	Water
322963	OB061	12/30/96	Water
322964	OB062	12/30/96	Water
322965	OB063	12/30/96	Water
322966	OB064	12/30/96	Water
322967	OB069	12/30/96	Water
322968	OB070	12/30/96	Water
322969	OB071	12/30/96	Water
322970	OB072	12/30/96	Water
322971	OB065	12/30/96	Water
322972	OB066	12/30/96	Water
322973	OB067	12/30/96	Water
322974	OB068	12/30/96	Water

The metals analysis of sample labeled OB056 exhibited zinc matrix spike recoveries outside method advisory limits. All data has been flagged to contract specifications.

Please note that the metals initial calibration verification check standard was analyzed out of sequence during the metals analysis. As indicated on the analytical run sequence, this sample was not analyzed immediately following the calibration standards.

For the benefit of interested parties, documentation of sample handling and preparation is included at the end of the "Sample Data Package." Colored sheets of paper entitled "Sample Preparation" and "Sample Handling" have been used to explicitly mark the location of these documents.

If there are any questions regarding this submittal, please contact Christopher A. Ouellette at (802) 655-1203.

Sincerely,

Karen R. Chirgwin

Karen R. Chirgwin
Laboratory Operations Director

KRC/bss

ITS Environmental
Laboratories

55 South Park Drive
Colchester, VT 05446

Analytical Report

Parsons Engineering Science
Prudential Center
Boston, MA 02199

Attention : Mike Duchesneau

Date : 01/27/97
ETR Number : 63260
Project No.: 93206
No. Samples: 4
Arrived : 12/30/96
P.O. Number: *

Case:OBASH SDG:63260

Standard analyses were performed in accordance with Methods for Analysis of Water and Wastes, EPA-600/4/79-020, Test Methods for Evaluating Solid Waste, SW-846, or Standard Methods for the Examination of Water and Wastewater.
All results are in mg/l unless otherwise noted.

Lab No./ Method No.	Sample Description/ Parameter	Result
322827	OB043:12/28/96 @1330(Water)	
9050	Conductivity (umhos/cm)	604
9020	Total Organic Halides	<0.02
9040	pH (std. units)	7.27
9060	Total Organic Carbon	1.0
322828	OB044:12/28/96 @1330(Water)	
9050	Conductivity (umhos/cm)	681
9020	Total Organic Halides	<0.02
9040	pH (std. units)	7.25
9060	Total Organic Carbon	1.0
322829	OB045:12/28/96 @1330(Water)	
9050	Conductivity (umhos/cm)	716
9020	Total Organic Halides	<0.02
9040	pH (std. units)	7.27
9060	Total Organic Carbon	1.0
322830	OB046:12/28/96 @1330(Water)	
9050	Conductivity (umhos/cm)	716
9020	Total Organic Halides	<0.02
9040	pH (std. units)	7.26
9060	Total Organic Carbon	1.0

< Last Page > Submitted By : Aquatec Inc.

ITS Environmental
Laboratories

55 South Park Drive
Colchester, VT 05446

Analytical Report

Parsons Engineering Science
Prudential Center
Boston, MA 02199

Attention : Mike Duchesneau

Date : 01/27/97
ETR Number : 63272
Project No.: 93206
No. Samples: 29
Arrived : 12/31/96
P.O. Number: *

Case:OBASH SDG:63260

Standard analyses were performed in accordance with Methods for Analysis of Water and Wastes, EPA-600/4/79-020, Test Methods for Evaluating Solid Waste, SW-846, or Standard Methods for the Examination of Water and Wastewater.
All results are in mg/l unless otherwise noted.

Lab No./ Method No.	Sample Description/ Parameter	Result
322949	OB052:12/29/96 (Water)	
9050	Conductivity (umhos/cm)	1040
9020	Total Organic Halides	<0.02
9040	pH (std. units)	7.43
9060	Total Organic Carbon	0.9
322950	OB053:12/29/96 (Water)	
9050	Conductivity (umhos/cm)	1050
9020	Total Organic Halides	<0.02
9040	pH (std. units)	7.28
9060	Total Organic Carbon	0.9
322951	OB054:12/29/96 (Water)	
9050	Conductivity (umhos/cm)	1060
9020	Total Organic Halides	<0.02
9040	pH (std. units)	7.41
9060	Total Organic Carbon	0.9
322952	OB055:12/29/96 (Water)	
9050	Conductivity (umhos/cm)	1120
9020	Total Organic Halides	<0.02
9040	pH (std. units)	7.26
9060	Total Organic Carbon	0.8
322953	OB048:12/29/96 (Water)	
9050	Conductivity (umhos/cm)	1190
9020	Total Organic Halides	<0.02
9040	pH (std. units)	7.12
9060	Total Organic Carbon	1.2

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ITS Environmental
Laboratories

55 South Park Drive
Colchester, VT 05446

Analytical Report

Parsons Engineering Science
Prudential Center
Boston, MA 02199

Attention : Mike Duchesneau

Date : 01/27/97
ETR Number : 63272
Project No.: 93206
No. Samples: 29
Arrived : 12/31/96
P.O. Number: *

Case:OBASH SDG:63260

Standard analyses were performed in accordance with Methods for Analysis of Water and Wastes, EPA-600/4/79-020, Test Methods for Evaluating Solid Waste, SW-846, or Standard Methods for the Examination of Water and Wastewater.
All results are in mg/l unless otherwise noted.

Lab No./ Method No.	Sample Description/ Parameter	Result
322954	OB049:12/29/96 (Water)	
9050	Conductivity (umhos/cm)	1250
9020	Total Organic Halides	<0.02
9040	pH (std. units)	7.14
9060	Total Organic Carbon	0.9
322955	OB050:12/29/96 (Water)	
9050	Conductivity (umhos/cm)	1270
9020	Total Organic Halides	<0.02
9040	pH (std. units)	7.12
9060	Total Organic Carbon	0.8
322956	OB051:12/29/96 (Water)	
9050	Conductivity (umhos/cm)	1300
9020	Total Organic Halides	<0.02
9040	pH (std. units)	7.21
9060	Total Organic Carbon	1.0
322957	OB047:12/29/96 (Water)	
9050	Conductivity (umhos/cm)	1.6
9020	Total Organic Halides	<0.02
9040	pH (std. units)	6.03
9060	Total Organic Carbon	<0.5
322958	OB058:12/29/96 (Water)	
9050	Conductivity (umhos/cm)	946
9020	Total Organic Halides	<0.02
9040	pH (std. units)	7.19
9060	Total Organic Carbon	0.8

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ITS Environmental
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55 South Park Drive
Colchester, VT 05446

Analytical Report

Parsons Engineering Science
Prudential Center
Boston, MA 02199

Attention : Mike Duchesneau

Date : 01/27/97
ETR Number : 63272
Project No.: 93206
No. Samples: 29
Arrived : 12/31/96
P.O. Number: *

Case:OBASH SDG:63260

Standard analyses were performed in accordance with Methods for Analysis of Water and Wastes, EPA-600/4/79-020, Test Methods for Evaluating Solid Waste, SW-846, or Standard Methods for the Examination of Water and Wastewater.
All results are in mg/l unless otherwise noted.

Lab No./ Method No.	Sample Description/ Parameter	Result
322959	OB059:12/29/96 (Water)	
9050	Conductivity (umhos/cm)	922
9020	Total Organic Halides	<0.02
9040	pH (std. units)	7.28
9060	Total Organic Carbon	0.9
322960	OB060:12/29/96 (Water)	
9050	Conductivity (umhos/cm)	929
9020	Total Organic Halides	<0.02
9040	pH (std. units)	7.28
9060	Total Organic Carbon	0.8
322962	OB056:12/29/96 (Water)	
9050	Conductivity (umhos/cm)	919
9020	Total Organic Halides	<0.02
9040	pH (std. units)	7.23
9060	Total Organic Carbon	0.8
322962MS	OB056MS:[MS]12/29/96 (Water)	
9020	Total Organic Halides	0.10
9060	Total Organic Carbon	10.1
322962DP	OB056REP:[REP]12/29/96 (Water)	
9050	Conductivity (umhos/cm)	928
9020	Total Organic Halides	<0.02
9040	pH (std. units)	7.24
9060	Total Organic Carbon	0.8

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Colchester, VT 05446

Analytical Report

Parsons Engineering Science
Prudential Center
Boston, MA 02199

Attention : Mike Duchesneau

Date : 01/27/97
ETR Number : 63272
Project No.: 93206
No. Samples: 29
Arrived : 12/31/96
P.O. Number: *

Case:OBASH SDG:63260

Standard analyses were performed in accordance with Methods for Analysis of Water and Wastes, EPA-600/4/79-020, Test Methods for Evaluating Solid Waste, SW-846, or Standard Methods for the Examination of Water and Wastewater.
All results are in mg/l unless otherwise noted.

Lab No./ Method No.	Sample Description/ Parameter	Result
322963	OB061:12/30/96 (Water)	
9050	Conductivity (umhos/cm)	870
9020	Total Organic Halides	<0.02
9040	pH (std. units)	7.11
9060	Total Organic Carbon	1.0
322964	OB062:12/30/96 (Water)	
9050	Conductivity (umhos/cm)	861
9020	Total Organic Halides	<0.02
9040	pH (std. units)	7.10
9060	Total Organic Carbon	1.0
322965	OB063:12/30/96 (Water)	
9050	Conductivity (umhos/cm)	850
9020	Total Organic Halides	<0.02
9040	pH (std. units)	7.10
9060	Total Organic Carbon	1.0
322966	OB064:12/30/96 (Water)	
9050	Conductivity (umhos/cm)	819
9020	Total Organic Halides	<0.02
9040	pH (std. units)	7.09
9060	Total Organic Carbon	1.0
322967	OB069:12/30/96 (Water)	
9050	Conductivity (umhos/cm)	844
9020	Total Organic Halides	<0.02
9040	pH (std. units)	7.41
9060	Total Organic Carbon	1.2

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ITS Environmental
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55 South Park Drive
Colchester, VT 05446

Analytical Report

Parsons Engineering Science
Prudential Center
Boston, MA 02199

Attention : Mike Duchesneau

Date : 01/27/97
ETR Number : 63272
Project No.: 93206
No. Samples: 29
Arrived : 12/31/96
P.O. Number: *

Case:OBASH SDG:63260

Standard analyses were performed in accordance with Methods for Analysis of Water and Wastes, EPA-600/4/79-020, Test Methods for Evaluating Solid Waste, SW-846, or Standard Methods for the Examination of Water and Wastewater.
All results are in mg/l unless otherwise noted.

Lab No./ Method No.	Sample Description/ Parameter	Result
322968	OB070:12/30/96 (Water)	
9050	Conductivity (umhos/cm)	841
9020	Total Organic Halides	<0.02
9040	pH (std. units)	7.39
9060	Total Organic Carbon	1.1
322969	OB071:12/30/96 (Water)	
9050	Conductivity (umhos/cm)	753
9020	Total Organic Halides	<0.02
9040	pH (std. units)	7.41
9060	Total Organic Carbon	1.1
322970	OB072:12/30/96 (Water)	
9050	Conductivity (umhos/cm)	809
9020	Total Organic Halides	<0.02
9040	pH (std. units)	7.42
9060	Total Organic Carbon	1.1
322971	OB065:12/30/96 (Water)	
9050	Conductivity (umhos/cm)	725
9020	Total Organic Halides	<0.02
9040	pH (std. units)	7.52
9060	Total Organic Carbon	1.4
322972	OB066:12/30/96 (Water)	
9050	Conductivity (umhos/cm)	747
9020	Total Organic Halides	<0.02
9040	pH (std. units)	7.45
9060	Total Organic Carbon	1.4

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Laboratories

55 South Park Drive
Colchester, VT 05446

Analytical Report

Parsons Engineering Science
Prudential Center
Boston, MA 02199

Attention : Mike Duchesneau

Date : 01/27/97
ETR Number : 63272
Project No.: 93206
No. Samples: 29
Arrived : 12/31/96
P.O. Number: *

Case:OBASH SDG:63260

Standard analyses were performed in accordance with Methods for Analysis of Water and Wastes, EPA-600/4/79-020, Test Methods for Evaluating Solid Waste, SW-846, or Standard Methods for the Examination of Water and Wastewater.
All results are in mg/l unless otherwise noted.

Lab No./ Method No.	Sample Description/ Parameter	Result
322973	OB067:12/30/96 (Water)	
9050	Conductivity (umhos/cm)	688
9020	Total Organic Halides	<0.02
9040	pH (std. units)	7.48
9060	Total Organic Carbon	1.3
322974	OB068:12/30/96 (Water)	
9050	Conductivity (umhos/cm)	729
9020	Total Organic Halides	<0.02
9040	pH (std. units)	7.49
9060	Total Organic Carbon	1.3

< Last Page > Submitted By : Aquatec Inc.

Inchcape Testing Services
Environmental Laboratories

Quality Control Summary

Project No: 93206
SDG No: 63260
Units: mg/L

Parameter	Date Analyzed	Method Preparation Blank	Laboratory Control Sample		
			Reported Value	True Value	Percent Recovery
Conductivity (umhos/cm)	12/30/96	NA	1314	1413	93.0
Conductivity (umhos/cm)	01/22/97	NA	1323	1413	93.6
pH (Std Units)	12/30/96	NA	6.00	6.00	100.0
pH (Std Units)	12/31/96	NA	6.04	6.00	100.7
Total Organic Carbon	01/14/97	< 0.5	56.7	58.4	97.1
Total Organic Carbon	01/22/97	< 0.5	55.5	58.4	95.0
Total Organic Carbon	01/22/97	< 0.5	55.2	58.4	94.5
Total Organic Halides	01/22/97	< 0.02	0.106	0.100	106.0
Total Organic Halides	01/23/97	< 0.02	0.106	0.100	106.0

Reviewed By: DEK
Date: 1/28/97

Inchcape Testing Service
Environmental Laboratories

Quality Control Summary

Project No: 93206
SDG No: 63260
Sample No: 322962
Units: mg/L

Parameter	Date Analyzed	Sample Result	Duplicate Sample Result	Relative Percent Difference	Spiked Sample Result	Spike Added	Perce Spik Recov
Conductivity (umhos/cm)	01/22/97	919	928	1.0	NA	NA	NA
pH (Std Units)	12/31/96	7.23	7.24	0.1	NA	NA	NA
Total Organic Carbon	01/14/97	0.8	0.8	0.0	10.1	10.0	93.0
Total Organic Halides	01/23/97	< 0.02	< 0.02	NA	0.10	0.10	100.(

Rev'd By: DEK
Date: 1/28/97

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COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: ITS_ENVIRONMENTAL_____ Contract: 93206_____

Lab Code: INCHVT Case No.: OBASH SAS No.: _____ SDG No.:63260_

OW No.: ILM02.1

EPA Sample No.	Lab Sample ID
_OB043_____	_322827_____
_OB047_____	_322957_____
_OB048_____	_322953_____
_OB052_____	_322949_____
_OB056_____	_322962_____
_OB056D_____	_322962DP_____
_OB056S_____	_322962MS_____
_OB057_____	_322961_____
_OB061_____	_322963_____
_OB065_____	_322971_____
_OB069_____	_322967_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

ere ICP interelement corrections applied ? Yes/No YES

Were ICP background corrections applied ? Yes/No YES
If yes - were raw data generated before application of background corrections ? Yes/No NO_

Comments:

_____

_____

_____

_____

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for ther than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the anager's designee, as verified by the following signature.

Signature: _____ Name: _____

ate: _____ Title: _____

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

OB043

Lab Name: ITS_ENVIRONMENTAL_____ Contract: 93206_____

Lab Code: INCHVT Case No.: OBASH_ SAS No.: _____ SDG No.: 63260_

Matrix (soil/water): WATER Lab Sample ID: 322827

Level (low/med): LOW__ Date Received: 12/30/96

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	130	B		P_
7440-36-0	Antimony_	5.1	U		P_
7440-38-2	Arsenic__	4.2	U		P_
7440-39-3	Barium___	27.4	B		P_
7440-41-7	Beryllium	0.20	U		P_
7440-43-9	Cadmium__	0.30	U		P_
7440-70-2	Calcium__	120000			P_
7440-47-3	Chromium_	1.0	U		P_
7440-48-4	Cobalt___	1.0	U		P_
7440-50-8	Copper___	1.0	U		P_
7439-89-6	Iron_____	124			P_
7439-92-1	Lead_____	2.2	U		P_
7439-95-4	Magnesium	26000			P_
7439-96-5	Manganese	5.7	B		P_
7439-97-6	Mercury__	0.10	U		CV
7440-02-0	Nickel___	2.1	U		P_
7440-09-7	Potassium	2440	B		P_
7782-49-2	Selenium_	4.1	B		P_
7440-22-4	Silver___	1.0	U		P_
7440-23-5	Sodium___	11100			P_
7440-28-0	Thallium_	3.7	U		P_
7440-62-2	Vanadium_	1.6	U		P_
7440-66-6	Zinc_____	10.7	B	N	P_
_____	Cyanide__	5.0	U		AS
_____	_____	_____	_	_____	__

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

_____

_____

_____

_____

U.S. EPA - CLP

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

OB047

Lab Name: ITS_ENVIRONMENTAL_____ Contract: 93206_____

Lab Code: INCHVT Case No.: OBASH_ SAS No.: _____ SDG No.: 63260_

Matrix (soil/water): WATER Lab Sample ID: 322957

Level (low/med): LOW__ Date Received: 12/31/96

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	19.8	B		P
7440-36-0	Antimony	5.1	U		P
7440-38-2	Arsenic	4.2	U		P
7440-39-3	Barium	2.3	U		P
7440-41-7	Beryllium	0.20	U		P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	92.8	U		P
7440-47-3	Chromium	1.0	U		P
7440-48-4	Cobalt	1.0	U		P
7440-50-8	Copper	1.0	U		P
7439-89-6	Iron	17.9	U		P
7439-92-1	Lead	2.2	U		P
7439-95-4	Magnesium	68.7	U		P
7439-96-5	Manganese	0.30	U		P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	2.1	U		P
7440-09-7	Potassium	99.7	U		P
7782-49-2	Selenium	2.7	U		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	282	U		P
7440-28-0	Thallium	3.7	U		P
7440-62-2	Vanadium	1.6	U		P
7440-66-6	Zinc	6.3	B	N	P
	Cyanide	5.0	U		AS

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

OB048

Lab Name: ITS_ENVIRONMENTAL Contract: 93206

Lab Code: INCHVT Case No.: OBASH_ SAS No.: _____ SDG No.: 63260_

Matrix (soil/water): WATER Lab Sample ID: 322953

Level (low/med): LOW Date Received: 12/31/96

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	53.5	B		P
7440-36-0	Antimony	5.1	U		P
7440-38-2	Arsenic	4.2	U		P
7440-39-3	Barium	21.1	B		P
7440-41-7	Beryllium	0.20	U		P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	248000			P
7440-47-3	Chromium	1.0	U		P
7440-48-4	Cobalt	1.0	U		P
7440-50-8	Copper	1.0	U		P
7439-89-6	Iron	69.5	B		P
7439-92-1	Lead	2.2	U		P
7439-95-4	Magnesium	55400			P
7439-96-5	Manganese	2.1	B		P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	2.1	U		P
7440-09-7	Potassium	3670	B		P
7782-49-2	Selenium	2.7	U		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	37000			P
7440-28-0	Thallium	3.7	U		P
7440-62-2	Vanadium	1.6	U		P
7440-66-6	Zinc	20.1		N	P
	Cyanide	5.0	U		AS

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
OB052

Lab Name: ITS_ENVIRONMENTAL_____ Contract: 93206_____

Lab Code: INCHVT Case No.: OBASH_ SAS No.: _____ SDG No.: 63260_

Matrix (soil/water): WATER Lab Sample ID: 322949

Level (low/med): LOW__ Date Received: 12/31/96

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	34.7	B		P_
7440-36-0	Antimony_	5.1	U		P_
7440-38-2	Arsenic__	4.2	U		P_
7440-39-3	Barium___	17.3	B		P_
7440-41-7	Beryllium	0.20	U		P_
7440-43-9	Cadmium__	0.30	U		P_
7440-70-2	Calcium__	180000			P_
7440-47-3	Chromium_	1.0	U		P_
7440-48-4	Cobalt___	1.0	U		P_
7440-50-8	Copper___	1.0	U		P_
7439-89-6	Iron_____	44.7	B		P_
7439-92-1	Lead_____	2.2	U		P_
7439-95-4	Magnesium	64200			P_
7439-96-5	Manganese	8.8	B		P_
7439-97-6	Mercury__	0.10	U		CV
7440-02-0	Nickel___	2.9	B		P_
7440-09-7	Potassium	7430			P_
7782-49-2	Selenium_	2.7	U		P_
7440-22-4	Silver___	1.0	U		P_
7440-23-5	Sodium___	16700			P_
7440-28-0	Thallium_	3.7	U		P_
7440-62-2	Vanadium_	1.6	U		P_
7440-66-6	Zinc_____	6.2	B	N	P_
_____	Cyanide__	5.0	U		AS
_____	_____	_____			

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

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U.S. EPA - CLP

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

OB056

Lab Name: ITS_ENVIRONMENTAL_____ Contract: 93206_____

Lab Code: INCHVT Case No.: OBASH_ SAS No.: _____ SDG No.: 63260_

Matrix (soil/water): WATER Lab Sample ID: 322962

Level (low/med): LOW__ Date Received: 12/31/96

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	226			P
7440-36-0	Antimony	5.1	U		P
7440-38-2	Arsenic	4.2	U		P
7440-39-3	Barium	45.8	B		P
7440-41-7	Beryllium	0.20	U		P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	164000			P
7440-47-3	Chromium	1.0	U		P
7440-48-4	Cobalt	1.0	U		P
7440-50-8	Copper	1.0	U		P
7439-89-6	Iron	124			P
7439-92-1	Lead	2.2	U		P
7439-95-4	Magnesium	32200			P
7439-96-5	Manganese	0.68	B		P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	2.1	U		P
7440-09-7	Potassium	1550	B		P
7782-49-2	Selenium	2.7	U		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	31200			P
7440-28-0	Thallium	3.7	U		P
7440-62-2	Vanadium	1.6	U		P
7440-66-6	Zinc	5.7	B	N	P
	Cyanide	5.0	U		AS

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

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U.S. EPA - CLP

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
OB057

Lab Name: ITS_ENVIRONMENTAL_____ Contract: 93206_____

Lab Code: INCHVT Case No.: OBASH_ SAS No.: _____ SDG No.: 63260_

Matrix (soil/water): WATER Lab Sample ID: 322961

Level (low/med): LOW__ Date Received: 12/31/96

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	171	B		P
7440-36-0	Antimony	5.1	U		P
7440-38-2	Arsenic	4.2	U		P
7440-39-3	Barium	44.5	B		P
7440-41-7	Beryllium	0.20	U		P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	159000			P
7440-47-3	Chromium	1.0	U		P
7440-48-4	Cobalt	1.0	U		P
7440-50-8	Copper	1.0	U		P
7439-89-6	Iron	94.2	B		P
7439-92-1	Lead	2.2	U		P
7439-95-4	Magnesium	31300			P
7439-96-5	Manganese	0.49	B		P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	2.1	U		P
7440-09-7	Potassium	1490	B		P
7782-49-2	Selenium	2.7	U		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	30100			P
7440-28-0	Thallium	3.7	U		P
7440-62-2	Vanadium	1.6	U		P
7440-66-6	Zinc	9.4	B	N	P
	Cyanide	5.0	U		AS

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

OB061

Lab Name: ITS_ENVIRONMENTAL_____ Contract: 93206_____

Lab Code: INCHVT Case No.: OBASH_ SAS No.: _____ SDG No.: 63260_

Matrix (soil/water): WATER Lab Sample ID: 322963

Level (low/med): LOW__ Date Received: 12/31/96

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	11.8	B		P
7440-36-0	Antimony	5.1	U		P
7440-38-2	Arsenic	4.2	U		P
7440-39-3	Barium	81.0	B		P
7440-41-7	Beryllium	0.20	U		P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	154000			P
7440-47-3	Chromium	1.0	U		P
7440-48-4	Cobalt	1.0	U		P
7440-50-8	Copper	1.0	U		P
7439-89-6	Iron	17.9	U		P
7439-92-1	Lead	2.2	U		P
7439-95-4	Magnesium	29100			P
7439-96-5	Manganese	4.1	B		P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	2.1	U		P
7440-09-7	Potassium	1630	B		P
7782-49-2	Selenium	3.0	B		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	15100			P
7440-28-0	Thallium	3.7	U		P
7440-62-2	Vanadium	1.6	U		P
7440-66-6	Zinc	8.5	B	N	P
	Cyanide	5.0	U		AS

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

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U.S. EPA - CLP

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

OB065

Lab Name: ITS_ENVIRONMENTAL_____ Contract: 93206_____

Lab Code: INCHVT Case No.: OBASH_ SAS No.: _____ SDG No.: 63260_

Matrix (soil/water): WATER Lab Sample ID: 322971

Level (low/med): LOW__ Date Received: 12/31/96

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	133	B		P_
7440-36-0	Antimony_	5.1	U		P_
7440-38-2	Arsenic__	4.2	U		P_
7440-39-3	Barium___	92.4	B		P_
7440-41-7	Beryllium	0.20	U		P_
7440-43-9	Cadmium__	0.30	U		P_
7440-70-2	Calcium__	79500			P_
7440-47-3	Chromium_	1.0	U		P_
7440-48-4	Cobalt___	1.0	U		P_
7440-50-8	Copper___	1.0	U		P_
7439-89-6	Iron_____	109			P_
7439-92-1	Lead_____	2.2	U		P_
7439-95-4	Magnesium	60300			P_
7439-96-5	Manganese	0.50	B		P_
7439-97-6	Mercury__	0.10	U		CV
7440-02-0	Nickel___	2.1	U		P_
7440-09-7	Potassium	8880			P_
7782-49-2	Selenium_	2.7	U		P_
7440-22-4	Silver___	1.0	U		P_
7440-23-5	Sodium___	15000			P_
7440-28-0	Thallium_	3.7	U		P_
7440-62-2	Vanadium_	1.6	U		P_
7440-66-6	Zinc_____	12.3	B	N	P_
_____	Cyanide__	5.0	U		AS
_____	_____	_____			

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

OB069

Lab Name: ITS_ENVIRONMENTAL_____ Contract: 93206_____

Lab Code: INCHVT Case No.: OBASH_ SAS No.: _____ SDG No.: 63260_

Matrix (soil/water): WATER Lab Sample ID: 322967

Level (low/med): LOW__ Date Received: 12/31/96

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	13.5	B		P_
7440-36-0	Antimony_	5.1	U		P_
7440-38-2	Arsenic__	4.2	U		P_
7440-39-3	Barium___	86.7	B		P_
7440-41-7	Beryllium	0.20	U		P_
7440-43-9	Cadmium__	0.30	U		P_
7440-70-2	Calcium__	104000			P_
7440-47-3	Chromium_	1.0	U		P_
7440-48-4	Cobalt___	1.0	U		P_
7440-50-8	Copper___	1.0	B		P_
7439-89-6	Iron_____	23.3	B		P_
7439-92-1	Lead_____	2.2	U		P_
7439-95-4	Magnesium	51200			P_
7439-96-5	Manganese	50.0			P_
7439-97-6	Mercury__	0.10	U		CV
7440-02-0	Nickel___	2.1	U		P_
7440-09-7	Potassium	7570			P_
7782-49-2	Selenium_	2.7	U		P_
7440-22-4	Silver___	1.0	U		P_
7440-23-5	Sodium___	16400			P_
7440-28-0	Thallium_	3.7	U		P_
7440-62-2	Vanadium_	1.6	U		P_
7440-66-6	Zinc_____	5.9	B	N	P_
_____	Cyanide__	5.0	U		AS
_____	_____				

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

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2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ITS_ENVIRONMENTAL_____ Contract: 93206_____

Lab Code: INCHVT Case No.: OBASH_ SAS No.: _____ SDG No.: 63260

Initial Calibration Source: VENTURES____

Continuing Calibration Source: SPEX_____

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Aluminum	26000.0	25920.00	99.7	30200.0	30070.00	99.6	29530.00	97.8	P
Antimony	250.0	248.00	99.2	300.0	295.20	98.4	292.90	97.6	P
Arsenic	250.0	249.60	99.8	100.0	98.40	98.4	97.06	97.1	P
Barium	500.0	499.70	99.9	200.0	194.70	97.4	192.60	96.3	P
Beryllium	500.0	504.60	100.9	100.0	95.57	95.6	94.08	94.1	P
Cadmium	500.0	493.00	98.6	100.0	94.05	94.0	92.43	92.4	P
Calcium	25000.0	24780.00	99.1	30200.0	29780.00	98.6	29310.00	97.1	P
Chromium	500.0	504.70	100.9	200.0	191.50	95.8	188.30	94.2	P
Cobalt	500.0	492.70	98.5	200.0	188.70	94.4	184.70	92.4	P
Copper	500.0	516.90	103.4	200.0	196.20	98.1	194.40	97.2	P
Iron	25500.0	25390.00	99.6	30200.0	29830.00	98.8	29320.00	97.1	P
Lead	1000.0	1033.00	103.3	400.0	396.40	99.1	389.10	97.3	P
Magnesium	25000.0	24580.00	98.3	30200.0	29660.00	98.2	29060.00	96.2	P
Manganese	500.0	499.60	99.9	200.0	191.50	95.8	187.80	93.9	P
Mercury	1.8	2.04	113.3	5.0	5.01	100.2	4.89	97.8	CV
Nickel	500.0	498.10	99.6	200.0	185.30	92.6	181.90	91.0	P
Potassium	25000.0	26250.00	105.0	30200.0	31410.00	104.0	31160.00	103.2	P
Selenium	250.0	239.90	96.0	100.0	100.20	100.2	98.66	98.7	P
Silver	500.0	508.30	101.7	100.0	99.25	99.2	98.60	98.6	P
Sodium	25000.0	24460.00	97.8	30200.0	29680.00	98.3	29550.00	97.8	P
Thallium	250.0	235.80	94.3	100.0	96.70	96.7	96.71	96.7	P
Vanadium	500.0	508.50	101.7	200.0	191.30	95.6	189.60	94.8	P
Zinc	500.0	510.40	102.1	200.0	198.70	99.4	196.10	98.0	P
Cyanide	40.0	35.20	88.0	150.0	129.00	86.0	130.00	86.7	AS

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ITS_ENVIRONMENTAL_____ Contract: 93206_____

Lab Code: INCHVT Case No.: OBASH_ SAS No.: _____ SDG No.: 63260

Initial Calibration Source: VENTURES____

Continuing Calibration Source: SPEX_____

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum				30200.0	30570.00	101.2	31170.00	103.2	P
Antimony				300.0	301.60	100.5	307.80	102.6	P
Arsenic				100.0	99.65	99.6	101.40	101.4	P
Barium				200.0	197.40	98.7	199.70	99.8	P
Beryllium				100.0	95.61	95.6	96.39	96.4	P
Cadmium				100.0	92.25	92.2	92.08	92.1	P
Calcium				30200.0	29600.00	98.0	30060.00	99.5	P
Chromium				200.0	191.40	95.7	193.10	96.6	P
Cobalt				200.0	187.90	94.0	190.50	95.2	P
Copper				200.0	203.80	101.9	207.90	104.0	P
Iron				30200.0	30120.00	99.7	30670.00	101.6	P
Lead				400.0	400.50	100.1	406.90	101.7	P
Magnesium				30200.0	29400.00	97.4	29680.00	98.3	P
Manganese				200.0	189.10	94.6	190.40	95.2	P
Mercury				5.0	4.88	97.6			CV
Nickel				200.0	188.90	94.4	194.40	97.2	P
Potassium				30200.0	31970.00	105.9	32560.00	107.8	P
Selenium				100.0	101.90	101.9	103.00	103.0	P
Silver				100.0	100.30	100.3	101.10	101.1	P
Sodium				30200.0	30000.00	99.3	30440.00	100.8	P
Thallium				100.0	100.30	100.3	102.50	102.5	P
Vanadium				200.0	191.50	95.8	193.00	96.5	P
Zinc				200.0	202.80	101.4	206.40	103.2	P
Cyanide				150.0	130.00	86.7			AS

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

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2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ITS_ENVIRONMENTAL_____ Contract: 93206_____

Lab Code: iNCHVT Case No.: OBASH_ SAS No.: _____ SDG No.: 63260

Initial Calibration Source: VENTURES____

Continuing Calibration Source: SPEX_____

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide	120.0	109.00	90.8	150.0	134.00	89.3	133.00	88.7	AS

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

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2B
CRDL STANDARD FOR AA AND ICP

Lab Name: ITS_ENVIRONMENTAL_____ Contract: 93206_____

Lab Code: INCHVT Case No.: OBASH_ SAS No.: _____ SDG No.: 63260_

AA CRDL Standard Source: VENTURES____

ICP CRDL Standard Source: VENTURES____

Concentration Units: ug/L

	CRDL Standard for AA			CRDL Standard for ICP				
					Initial			Final
Analyte	True	Found	%R	True	Found	%R	Found	%R
Aluminum				400.0	474.10	118.5	491.80	123.0
Antimony				120.0	125.90	104.9	132.50	110.4
Arsenic				20.0	20.79	104.0	21.23	106.2
Barium				400.0	400.10	100.0	411.80	103.0
Beryllium				10.0	10.18	101.8	10.87	108.7
Cadmium				10.0	10.05	100.5	9.77	97.7
Calcium				10000.0	10300.00	103.0	10410.00	104.1
Chromium				20.0	20.15	100.8	20.31	101.6
Cobalt				100.0	99.86	99.9	100.60	100.6
Copper				50.0	51.83	103.7	56.71	113.4
Iron				200.0	224.10	112.0	234.80	117.4
Lead				6.0	6.58	109.7	6.54	109.0
Magnesium				10000.0	10180.00	101.8	10180.00	101.8
Manganese				30.0	30.52	101.7	30.37	101.2
Mercury	0.2	0.20	100.0					
Nickel				80.0	78.67	98.3	82.82	103.5
Potassium				10000.0	11070.00	110.7	11560.00	115.6
Selenium				10.0	12.17	121.7	12.89	128.9
Silver				20.0	19.70	98.5	19.76	98.8
Sodium				10000.0	9794.00	97.9	10030.00	100.3
Thallium				20.0	19.65	98.2	15.99	80.0
Vanadium				100.0	104.70	104.7	105.90	105.9
Zinc				40.0	41.62	104.0	43.26	108.2

3
BLANKS

Lab Name: ITS_ENVIRONMENTAL_____ Contract: 93206_____

Lab Code: INCHVT Case No.: OBASH_ SAS No.: _____ SDG No.: 63260_

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L_

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum	8.4	U	12.7	B	11.0	B	8.4	U	34.620	B	P
Antimony	5.1	U	5.1	U	5.1	U	5.1	U	5.100	U	P
Arsenic	4.2	U	4.2	U	4.2	U	4.2	U	4.200	U	P
Barium	2.3	U	2.3	U	2.3	U	2.3	U	2.300	U	P
Beryllium	0.2	U	0.2	U	0.2	U	0.5	B	0.200	U	P
Cadmium	0.3	U	0.3	U	0.3	U	0.3	U	0.300	U	P
Calcium	92.8	U	92.8	U	92.8	U	92.8	U	92.800	U	P
Chromium	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Cobalt	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Copper	1.0	U	1.0	U	1.0	U	1.2	B	1.000	U	P
Iron	17.9	U	17.9	U	17.9	U	17.9	U	17.900	U	P
Lead	2.2	U	2.2	U	2.2	U	2.2	U	2.200	U	P
Magnesium	68.7	U	68.7	U	68.7	U	68.7	U	68.700	U	P
Manganese	0.3	U	0.3	U	0.3	U	0.3	U	0.300	U	P
Mercury	0.1	U	0.1	U	0.1	U	0.1	U	0.100	U	CV
Nickel	2.1	U	2.1	U	2.1	U	2.1	U	2.100	U	P
Potassium	99.7	U	100.5	B	118.8	B	135.9	B	116.400	B	P
Selenium	2.7	U	3.3	B	2.7	U	3.1	B	2.700	U	P
Silver	1.0	U	1.0	U	1.0	U	-1.2	B	-1.301	B	P
Sodium	282.3	U	282.3	U	282.3	U	282.3	U	282.300	U	P
Thallium	3.7	U	3.7	U	3.7	U	3.7	U	3.700	U	P
Vanadium	1.6	U	1.6	U	1.6	U	1.6	U	1.600	U	P
Zinc	1.8	U	1.8	U	1.8	U	1.8	U	3.440	B	P
Cyanide	10.0	U	10.0	U	10.0	U	10.0	U	5.000	U	AS

3
BLANKS

Lab Name: ITS_ENVIRONMENTAL_____ Contract: 93206_____

Lab Code: INCHVT Case No.: OBASH_ SAS No.: _____ SDG No.: 63260_

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L_

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum			-10.2	B							P
Antimony			5.1	U							P
Arsenic			4.2	U							P
Barium			2.3	U							P
Beryllium			0.7	B							P
Cadmium			0.3	U							P
Calcium			92.8	U							P
Chromium			1.0	U							P
Cobalt			1.0	U							P
Copper			1.5	B							P
Iron			17.9	U							P
Lead			2.2	U							P
Magnesium			68.7	U							P
Manganese			0.3	U							P
Mercury											NR
Nickel			2.1	U							P
Potassium			226.6	B							P
Selenium			2.7	U							P
Silver			-1.3	B							P
Sodium			282.3	U							P
Thallium			3.7	U							P
Vanadium			1.6	U							P
Zinc			1.8	U							P
Cyanide	10.0	U	10.0	U	10.0	U			5.000	U	AS

4
ICP INTERFERENCE CHECK SAMPLE

Lab Name: ITS_ENVIRONMENTAL_____ Contract: 93206_____

Lab Code: INCHVT Case No.: OBASH_ SAS No: _____ SDG No.: 63260_

ICP ID Number: ICP4 TJA 61E ICS Source: VENTURES____

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R
Aluminum	500000	490660	501000	493900.0	100.7	514800	516100.0	105.2
Antimony	0	580	-1	609.1	105.0	-1	639.2	110.2
Arsenic	0	100	-2	100.1	100.1	3	106.4	106.4
Barium	0	510	1	508.1	99.6	1	525.8	103.1
Beryllium	0	485	0	481.7	99.3	1	484.9	100.0
Cadmium	0	941	6	934.8	99.3	8	921.0	97.9
Calcium	500000	499800	531100	526300.0	105.3	519100	528500.0	105.7
Chromium	0	489	4	485.2	99.2	4	491.2	100.4
Cobalt	0	461	0	462.2	100.3	0	468.6	101.6
Copper	0	544	3	531.9	97.8	5	563.6	103.6
Iron	200000	189560	192600	192200.0	101.4	193800	198000.0	104.5
Lead	0	49	-7	43.2	88.2	-6	45.7	93.3
Magnesium	500000	518980	538200	529700.0	102.1	527200	530900.0	102.3
Manganese	0	492	-1	482.8	98.1	-1	482.4	98.0
Mercury								
Nickel	0	947	1	930.2	98.2	2	973.9	102.8
Potassium	0	0	82	69.3		135	182.0	
Selenium	0	49	-2	48.3	98.6	-1	49.8	101.6
Silver	0	212	0	208.8	98.5	-1	216.2	102.0
Sodium	0	0	-36	-40.1		-155	-11.3	
Thallium	0	100	2	103.2	103.2	1	100.3	100.3
Vanadium	0	494	0	487.5	98.7	-1	494.4	100.1
Zinc	0	1031	19	1023.0	99.2	21	1069.0	103.7

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5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.
OB056S

Lab Name: ITS_ENVIRONMENTAL_____ Contract: 93206_____

Lab Code: INCHVT Case No.: OBASH_ SAS No.: _____ SDG No.: 63260_

Matrix (soil/water): WATER_ Level (low/med): LOW__

% Solids for Sample: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum	75-125	2257.0000		225.7000		2000.00	101.6		P
Antimony	75-125	507.1000		5.1000	U	500.00	101.4		P
Arsenic	75-125	42.6500		4.2000	U	40.00	106.6		P
Barium	75-125	2019.0000		45.7900	B	2000.00	98.7		P
Beryllium	75-125	48.2400		0.2000	U	50.00	96.5		P
Cadmium	75-125	47.3200		0.3000	U	50.00	94.6		P
Calcium									NR
Chromium	75-125	195.6000		1.0000	U	200.00	97.8		P
Cobalt	75-125	469.4000		1.0000	U	500.00	93.9		P
Copper	75-125	250.4000		1.0000	U	250.00	100.2		P
Iron	75-125	1142.0000		124.0000		1000.00	101.8		P
Lead	75-125	19.1300		2.2000	U	20.00	95.6		P
Magnesium									NR
Manganese	75-125	476.4000		0.6810	B	500.00	95.1		P
Mercury	75-125	0.9430		0.1000	U	1.00	94.3		CV
Nickel	75-125	452.1000		2.1000	U	500.00	90.4		P
Potassium									NR
Selenium	75-125	11.6000		2.7000	U	10.00	116.0		P
Silver	75-125	50.9600		1.0000	U	50.00	101.9		P
Sodium									NR
Thallium	75-125	45.8500		3.7000	U	50.00	91.7		P
Vanadium	75-125	478.8000		1.6000	U	500.00	95.8		P
Zinc	75-125	708.1000		5.7220	B	500.00	140.5	N	P
Cyanide	75-125	41.7500		5.0000	U	50.00	83.5		AS

Comments:

U.S. EPA - CLP

5B
POST DIGEST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.
OB056A

Lab Name: ITS_ENVIRONMENTAL_____ Contract: 93206_____

Lab Code: INCHVT Case No.: OBASH_ SAS No.: _____ SDG No.: 63260_

Matrix (soil/water) : WATER_ Level (low/med): LOW__

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Added (SA)	%R	Q	M
Aluminum		2365.00		225.70		2000.0	107.0		P
Antimony		519.40		5.10	U	500.0	103.9		P
Arsenic		41.00		4.20	U	40.0	102.5		P
Barium		2060.00		45.79	B	2000.0	100.7		P
Beryllium		49.53		0.20	U	50.0	99.1		P
Cadmium		48.86		0.30	U	50.0	97.7		P
Calcium									NR
Chromium		200.80		1.00	U	200.0	100.4		P
Cobalt		480.80		1.00	U	500.0	96.2		P
Copper		255.10		1.00	U	250.0	102.0		P
Iron		1174.00		124.00		1000.0	105.0		P
Lead		20.91		2.20	U	20.0	104.6		P
Magnesium									NR
Manganese		489.30		0.68	B	500.0	97.7		P
Mercury									NR
Nickel		462.40		2.10	U	500.0	92.5		P
Potassium									NR
Selenium		12.45		2.70	U	10.0	124.5		P
Silver									NR
Sodium									NR
Thallium		49.46		3.70	U	50.0	98.9		P
Vanadium		490.70		1.60	U	500.0	98.1		P
Zinc		493.90		5.72	B	500.0	97.6		P
Cyanide									NR

Comments:

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6
DUPLICATES

EPA SAMPLE NO.

OB056D

Lab Name: ITS_ENVIRONMENTAL_____ Contract: 93206_____

Lab Code: INCHVT Case No.: OBASH_ SAS No.: _____ SDG No.: 63260_

Matrix (soil/water): WATER Level (low/med): _LOW__

% Solids for Sample: __0.0 % Solids for Duplicate: ___0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum	200.0	225.7000		289.5000		24.8		P
Antimony		5.1000	U	5.1000	U			P
Arsenic		4.2000	U	4.2000	U			P
Barium		45.7900	B	46.0400	B	0.5		P
Beryllium		0.2000	U	0.2000	U			P
Cadmium		0.3000	U	0.3000	U			P
Calcium		163700.0000		162400.0000		0.8		P
Chromium		1.0000	U	1.0000	U			P
Cobalt		1.0000	U	1.0000	U			P
Copper		1.0000	U	1.0000	U			P
Iron	100.0	124.0000		155.3000		22.4		P
Lead		2.2000	U	2.2000	U			P
Magnesium		32220.0000		32010.0000		0.7		P
Manganese		0.6810	B	0.8560	B	22.8		P
Mercury		0.1000	U	0.1000	U			CV
Nickel		2.1000	U	2.1000	U			P
Potassium		1547.0000	B	1604.0000	B	3.6		P
Selenium		2.7000	U	3.0500	B	200.0		P
Silver		1.0000	U	1.0000	U			P
Sodium		31170.0000		31150.0000		0.1		P
Thallium		3.7000	U	3.7000	U			P
Vanadium		1.6000	U	1.6000	U			P
Zinc		5.7220	B	7.5200	B	27.2		P
Cyanide		5.0000	U	5.0000	U			AS

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7

LABORATORY CONTROL SAMPLE

Lab Name: ITS_ENVIRONMENTAL_____ Contract: 93206_____

Lab Code: INCHVT Case No.: OBASH_ SAS No.: _____ SDG No.: 63260_

Solid LCS Source: _____

Aqueous LCS Source: VENTURES____

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum	51000.0	51440.00	100.9						
Antimony	2000.0	2035.00	101.8						
Arsenic	1050.0	1065.00	101.4						
Barium	500.0	498.70	99.7						
Beryllium	500.0	499.00	99.8						
Cadmium	525.0	513.20	97.8						
Calcium	50000.0	49940.00	99.9						
Chromium	500.0	497.80	99.6						
Cobalt	500.0	482.90	96.6						
Copper	500.0	516.50	103.3						
Iron	50500.0	50200.00	99.4						
Lead	1015.0	1028.00	101.3						
Magnesium	50000.0	49560.00	99.1						
Manganese	500.0	493.70	98.7						
Mercury	1.0	0.95	94.9						
Nickel	500.0	485.30	97.1						
Potassium	50000.0	51200.00	102.4						
Selenium	525.0	520.40	99.1						
Silver	500.0	541.00	108.2						
Sodium	50000.0	51150.00	102.3						
Thallium	550.0	534.50	97.2						
Vanadium	500.0	498.80	99.8						
Zinc	500.0	508.70	101.7						
Cyanide									

8
STANDARD ADDITION RESULTS

Lab Name: ITS_ENVIRONMENTAL_____ Contract:93206_____

Lab Code: INCHVT Case No.: OBASH_ SAS No.:_____ SDG No.:63260_

Concentration Units: ug/L

EPA Sample No.	An	0 ADD ABS	1 ADD CON	1 ADD ABS	2 ADD CON	2 ADD ABS	3 ADD CON	3 ADD ABS	Final Conc.	r	Q

9

ICP SERIAL DILUTION

EPA SAMPLE NO.

OB056L

Lab Name: ITS_ENVIRONMENTAL_____ Contract: 93206_____

Lab Code: INCHVT Case No.: OBASH_ SAS No.: _____ SDG No.: 63260_

Matrix (soil/water): WATER Level (low/med): LOW__

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	225.70		323.70	B	43.4		P
Antimony	5.10	U	25.50	U			P
Arsenic	4.20	U	21.00	U			P
Barium	45.79	B	44.95	B	1.8		P
Beryllium	0.20	U	1.00	U			P
Cadmium	0.30	U	1.50	U			P
Calcium	163700.00		158100.00		3.4		P
Chromium	1.00	U	5.00	U			P
Cobalt	1.00	U	5.00	U			P
Copper	1.00	U	5.00	U			P
Iron	124.00		145.50	B	17.3		P
Lead	2.20	U	11.00	U			P
Magnesium	32220.00		31420.00		2.5		P
Manganese	0.68	B	1.50	U	100.0		P
Mercury							NR
Nickel	2.10	U	10.50	U			P
Potassium	1547.00	B	1980.00	B	28.0		P
Selenium	2.70	U	13.50	U			P
Silver	1.00	U	5.00	U			P
Sodium	31170.00		29820.00		4.3		P
Thallium	3.70	U	18.50	U			P
Vanadium	1.60	U	8.00	U			P
Zinc	5.72	B	9.93	B	73.6		P

10
Instrument Detection Limits (Quarterly)

Lab Name: ITS_ENVIRONMENTAL_____ Contract: 93206_____

Lab Code: INCHVT Case No.: OBASH_ SAS No.: _____ SDG No.: 63260_

ICP ID Number: ICP4_TJA_61E Date: 01/01/97

Flame AA ID Number : _____

Furnace AA ID Number : _____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum	308.22		200	8.4	P
Antimony	206.84		60	5.1	P
Arsenic	189.04		10	4.2	P
Barium	493.41		200	2.3	P
Beryllium	313.04		5	0.2	P
Cadmium	226.50		5	0.3	P
Calcium	317.93		5000	92.8	P
Chromium	267.72		10	1.0	P
Cobalt	228.62		50	1.0	P
Copper	324.75		25	1.0	P
Iron	271.44		100	17.9	P
Lead	220.35		3	2.2	P
Magnesium	279.08		5000	68.7	P
Manganese	257.61		15	0.3	P
Mercury			0.2		NR
Nickel	231.60		40	2.1	P
Potassium	766.49		5000	99.7	P
Selenium	196.03		5	2.7	P
Silver	328.07		10	1.0	P
Sodium	330.23		5000	282.3	P
Thallium	190.86		10	3.7	P
Vanadium	292.40		50	1.6	P
Zinc	213.86		20	1.8	P

Comments:

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10
Instrument Detection Limits (Quarterly)

ab Name: ITS_ENVIRONMENTAL_____ Contract: 93206_____

Lab Code: INCHVT Case No.: OBASH_ SAS No.: _____ SDG No.: 63260_

CP ID Number: _____ Date: 01/01/97

Flame AA ID Number : CV1_PS200II_

Furnace AA ID Number : _____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead			3		NR
Magnesium			5000		NR
Manganese			15		NR
Mercury	253.70		0.2	0.1	CV
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR

Comments:

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10
Instrument Detection Limits (Quarterly)

Lab Name: ITS_ENVIRONMENTAL_____ Contract: 93206_____

Lab Code: INCHVT Case No.: OBASH_ SAS No.: _____ SDG No.: 63260_

ICP ID Number: _____ Date: 01/01/97

Flame AA ID Number : PS1214_____

Furnace AA ID Number : _____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead			3		NR
Magnesium			5000		NR
Manganese			15		NR
Mercury			0.2		NR
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR

Comments:

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11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: ITS_ENVIRONMENTAL_____ Contract: 93206_____

Lab Code: INCHVT Case No.: OBASH_ SAS No.: _____ SDG No.: 63260_

ICP ID Number: ICP4 TJA 61E Date: 01/01/97

Analyte	Wave-length (nm)	Interelement Correction Factors for : Al	Ca	Fe	Mg	CO_
Aluminum_	308.22	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony_	206.84	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic__	189.04	0.0000000	0.0000000	-0.0000390	0.0000000	0.0000000
Barium___	493.41	0.0000000	0.0000000	0.0000400	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium__	226.50	0.0000000	0.0000000	0.0001035	0.0000000	0.0000000
Calcium__	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium_	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt___	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper___	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron_____	271.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead_____	220.35	-0.0000596	-0.0000184	0.0000823	0.0000111	-0.0048710
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury__						
Nickel___	231.60	0.0000000	0.0000000	0.0000000	0.0000000	-0.0011240
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium_	196.03	0.0000000	0.0000000	-0.0001999	0.0000000	-0.0000465
Silver___	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium___	330.23	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium_	190.86	-0.0000100	0.0000000	-0.0000800	0.0000000	0.0049700
Vanadium_	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc_____	213.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

12
ICP LINEAR RANGES (QUARTERLY)

Lab Name: ITS_ENVIRONMENTAL_____ Contract: 93206_____

Lab Code: INCHVT Case No.: OBASH_ SAS No.: _____ SDG No.: 63260_

ICP ID Number: ICP4 TJA 61E Date: 01/01/97

Analyte	Integ. Time (sec.)	Concentration (ug/L)	M
Aluminum	10.00	500000.0	P
Antimony	10.00	100000.0	P
Arsenic	10.00	20000.0	P
Barium	10.00	10000.0	P
Beryllium	10.00	10000.0	P
Cadmium	10.00	10000.0	P
Calcium	10.00	500000.0	P
Chromium	10.00	100000.0	P
Cobalt	10.00	50000.0	P
Copper	10.00	100000.0	P
Iron	10.00	500000.0	P
Lead	10.00	100000.0	P
Magnesium	10.00	500000.0	P
Manganese	10.00	10000.0	P
Mercury			NR
Nickel	10.00	50000.0	P
Potassium	10.00	100000.0	P
Selenium	10.00	4000.0	P
Silver	10.00	2000.0	P
Sodium	10.00	100000.0	P
Thallium	10.00	10000.0	P
Vanadium	10.00	100000.0	P
Zinc	10.00	4000.0	P

Comments:

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13
PREPARATION LOG

Lab Name: ITS_ENVIRONMENTAL_____ Contract: 93206_____

Lab Code: INCHVT Case No.:_OBASH_ SAS No.: _____ SDG No.:63260_

Method: P_

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSW	01/09/97		100
OB043	01/09/97		100
OB047	01/09/97		100
OB048	01/09/97		100
OB052	01/09/97		100
OB056	01/09/97		100
OB056D	01/09/97		100
OB056S	01/09/97		100
OB057	01/09/97		100
OB061	01/09/97		100
OB065	01/09/97		100
OB069	01/09/97		100
PBW	01/09/97		100

13
PREPARATION LOG

Lab Name: ITS_ENVIRONMENTAL_____ Contract: 93206_____

Lab Code: INCHVT Case No.:_OBASH_ SAS No.: _____ SDG No.:63260_

Method: CV

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSW	01/08/97		100
OB043	01/08/97		100
OB047	01/08/97		100
OB048	01/08/97		100
OB052	01/08/97		100
OB056	01/08/97		100
OB056D	01/08/97		100
OB056S	01/08/97		100
OB057	01/08/97		100
OB061	01/08/97		100
OB065	01/08/97		100
OB069	01/08/97		100
PBW	01/08/97		100

13
PREPARATION LOG

Lab Name: ITS_ENVIRONMENTAL_____ Contract: 93206_____

Lab Code: INCHVT Case No.:_OBASH_ SAS No.: _____ SDG No.:63260_

Method: AS

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
ICV	01/02/97		250
OB043	01/02/97		250
PBW	01/02/97		250

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PREPARATION LOG

Lab Name: ITS_ENVIRONMENTAL_____ Contract: 93206_____

Lab Code: INCHVT Case No.:_OBASH_ SAS No.: _____ SDG No.:63260_

Method: AS

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
ICV	01/10/97		250
OB047	01/10/97		250
OB048	01/10/97		250
OB052	01/10/97		250
OB056	01/10/97		250
OB056D	01/10/97		250
OB056S	01/10/97		250
OB057	01/10/97		250
OB061	01/10/97		250
OB065	01/10/97		250
OB069	01/10/97		250
PBW	01/10/97		250

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ANALYSIS RUN LOG

Lab Name: ITS_ENVIRONMENTAL_____ Contract: 93206_____

Lab Code: INCHVT Case No.: OBASH_ SAS No.: _____ SDG No.:63260_

Instrument ID Number: ICP4 TJA 61E_ Method: P_

Start Date: 01/11/97 End Date: 01/11/97

EPA Sample No.	D/F	Time	% R	Analytes																						
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	
S0	1.00	0841		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	
S	1.00	0846		_	_	_	X	X	X	_	X	X	X	_	_	_	X	_	X	_	_	X	_	_	X	
S	1.00	0850		X	_	_	_	_	_	X	_	_	_	X	_	X	_	_	_	X	_	_	X	_	_	
S	1.00	0854		_	X	X	_	_	_	_	_	_	_	_	X	_	_	_	_	_	X	_	_	X	_	
ICV	1.00	0859		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	
ICB	1.00	0904		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	
ICSA	1.00	0908		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	
ICSAB	1.00	0913		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	
CRI	1.00	0918		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	
CCV	1.00	0922		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	
CCB	1.00	0927		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	
PBW	1.00	0931		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	
LCSW	1.00	0936		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	
OB043	1.00	0940		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	
OB052	1.00	0945		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	
OB048	1.00	0949		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	
OB047	1.00	0954		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	
OB057	1.00	0958		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	
OB056	1.00	1003		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	
OB056L	5.00	1007		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	
OB056A	1.00	1012		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	
CCV	1.00	1016		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	
CCB	1.00	1021		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	
OB056S	1.00	1025		X	X	X	X	X	X	_	X	X	X	X	X	_	X	_	X	_	X	X	_	X	X	
OB056D	1.00	1030		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	
OB061	1.00	1034		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	
OB069	1.00	1039		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	
OB065	1.00	1043		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	
ZZZZZZ	1.00	1048		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	
ZZZZZZ	1.00	1052		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	
ZZZZZZ	1.00	1057		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	
ZZZZZZ	1.00	1101		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	
				_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	

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ANALYSIS RUN LOG

Lab Name: ITS_ENVIRONMENTAL________ Contract: 93206_____

Lab Code: INCHVT Case No.: OBASH_ SAS No.: ______ SDG No.:63260_

Instrument ID Number: ICP4 TJA 61E_ Method: P_

Start Date: 01/11/97 End Date: 01/11/97

EPA Sample No.	D/F	Time	% R	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN
ZZZZZZ	1.00	1106																								
CCV	1.00	1110		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X
CCB	1.00	1115		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X
ZZZZZZ	1.00	1120																								
ZZZZZZ	1.00	1124																								
ZZZZZZ	1.00	1129																								
ZZZZZZ	1.00	1133																								
ICSA	1.00	1138		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X
ICSAB	1.00	1142		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X
CRI	1.00	1147		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X
CCV	1.00	1151		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X
CCB	1.00	1156		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X

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ANALYSIS RUN LOG

Lab Name: ITS_ENVIRONMENTAL_____ Contract: 93206_____

ab Code: INCHVT Case No.: OBASH_ SAS No.: _____ SDG No.:63260_

Instrument ID Number: CV1 PS200II__ Method: CV

tart Date: 01/09/97 End Date: 01/09/97

EPA Sample No.	D/F	Time	% R	Analytes																						
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN
S0	1.00	0805																X								
S0.2	1.00	0808																X								
S0.5	1.00	0810																X								
S1	1.00	0813																X								
S5	1.00	0815																X								
S10	1.00	0817																X								
ICV	1.00	0820																X								
ICB	1.00	0822																X								
CRA	1.00	0825																X								
CCV	1.00	0827																X								
CCB	1.00	0829																X								
PBW	1.00	0831																X								
LCSW	1.00	0833																X								
ZZZZZZ	1.00	0836																								
ZZZZZZ	1.00	0838																								
ZZZZZZ	1.00	0840																								
ZZZZZZ	1.00	0842																								
OB043	1.00	0844																X								
OB052	1.00	0847																X								
OB048	1.00	0849																X								
CCV	1.00	0851																X								
CCB	1.00	0853																X								
OB047	1.00	0856																X								
OB057	1.00	0858																X								
OB056	1.00	0900																X								
OB056S	1.00	0902																X								
OB056D	1.00	0905																X								
OB061	1.00	0907																X								
OB069	1.00	0909																X								
OB065	1.00	0912																X								
ZZZZZZ	1.00	0914																								
CCV	1.00	0916																X								

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ANALYSIS RUN LOG

Lab Name: ITS_ENVIRONMENTAL_____ Contract: 93206_____

Lab Code: INCHVT Case No.: OBASH_ SAS No.: _____ SDG No.:63260_

Instrument ID Number: CV1 PS200II__ Method: CV

Start Date: 01/09/97 End Date: 01/09/97

EPA Sample No.	D/F	Time	% R	Analytes																						
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN
CCB	1.00	0918																X							

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ANALYSIS RUN LOG

Lab Name: ITS_ENVIRONMENTAL_____ Contract: 93206_____

Lab Code: INCHVT Case No.: OBASH_ SAS No.: _____ SDG No.:63260_

Instrument ID Number: PS1214_____ Method: AS

Start Date: 01/10/97 End Date: 01/10/97

EPA Sample No.	D/F	Time	% R	Analytes																						
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN
S0	1.00	2011																								
S10	1.00	2014																								
S50	1.00	2016																								
S100	1.00	2018																								
S200	1.00	2020																								
S300	1.00	2022																								
ZZZZZZ	1.00	2025																								
ICB	1.00	2027																								
CCV	1.00	2029																								
CCB	1.00	2031																								
ICV	1.00	2033																								
PBW	1.00	2035																								
ZZZZZZ	1.00	2037																								
ZZZZZZ	1.00	2039																								
ZZZZZZ	1.00	2042																								
ZZZZZZ	1.00	2044																								
ZZZZZZ	1.00	2046																								
ZZZZZZ	1.00	2048																								
ZZZZZZ	1.00	2050																								
ZZZZZZ	1.00	2052																								
CCV	1.00	2054																								
CCB	1.00	2056																								
OB052	1.00	2058																								
OB048	1.00	2100																								
OB047	1.00	2102																								
OB057	1.00	2104																								
OB056	1.00	2107																								
OB056D	1.00	2109																								
OB056S	1.00	2111																								
OB061	1.00	2113																								
OB069	1.00	2115																								
OB065	1.00	2117																								

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ANALYSIS RUN LOG

Lab Name: ITS_ENVIRONMENTAL_____ Contract: 93206_____

ab Code: INCHVT Case No.: OBASH_ SAS No.: _____ SDG No.:63260_

Instrument ID Number: PS1214_____ Method: AS

tart Date: 01/10/97 End Date: 01/10/97

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN
CCV	1.00	2119																								
CCB	1.00	2121																								

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ANALYSIS RUN LOG

Lab Name: ITS_ENVIRONMENTAL________ Contract: 93206_____

Lab Code: INCHVT Case No.: OBASH_ SAS No.: _______ SDG No.:63260_

Instrument ID Number: PS1214________ Method: AS

Start Date: 01/02/97 End Date: 01/02/97

EPA Sample No.	D/F	Time	% R	Analytes																						
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN
S0	1.00	1753																								
S10	1.00	1755																								
S50	1.00	1757																								
S100	1.00	1800																								
S200	1.00	1802																								
S300	1.00	1804																								
ICV	1.00	1806																								
ICB	1.00	1808																								
CCV	1.00	1811																								
CCB	1.00	1813																								
ZZZZZZ	1.00	1815																								
PBW	1.00	1817																								
ZZZZZZ	1.00	1819																								
ZZZZZZ	5.00	1821																								
ZZZZZZ	1.00	1823																								
OB043	1.00	1825																								
CCV	1.00	1827																								
CCB	1.00	1829																								