SDMS US EPA REGION V -1

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No 00008

141850

FINAL DRAFT
FEASIBILITY STUDY REPORT
FOR OPERABLE UNIT ONE
AUTO ION SITE
KALAMAZOO, MICHIGAN

JUNE 1989

VOLUME 2
APPENDICES

Prepared for:

Auto Ion Steering Committee

Prepared by:

Fred C. Hart Associates, Inc.
Pennsauken, New Jersey

(CL5203B/4)

APPENDIX A

BORING AND WELL LOGS

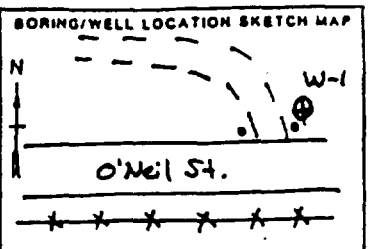
(CL5177B/6)

HART

FRED C. HART ASSOCIATES, INC.

TEST BORING LOG

BORING/WELL LOCATION SKETCH MAP

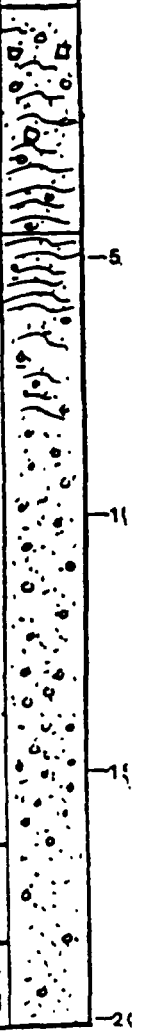


BORING NO.	W-1
PROJECT NO./NAME	Auto-Ion 00083-00 00001-01
LOCATION	Kalamazoo MI
DRILLING CONTRACTOR/DRILLER	Fox Drilling Co. / ~~Tom~~ Rob Crachy
HART GEOLOGIST/OFFICE	Harold Moritz / Meriden
DRILLING EQUIPMENT/METHOD	CME 75 3¾ x 7¾ HSA
SIZE/TYPE OF BIT	8" carbide fingers
SAMPLING METHOD	2' Split Spoon
START/FINISH DATE	10/7-10/7/87
WELL INSTALLED?	YES ☒ NO ☐
CASING MAT./DIA.	2" Stainless Steel
SCREEN:	TYPE Mill Slot MAT. St. Steel LENGTH 10.6' DIA. 2" SLOT SIZE 10
ELEVATION OF: (FT. ABOVE M.S.L.)	GROUND SURFACE / TOP OF WELL CASING / TOP & BOTTOM SCREEN / GW SURFACE / DATE
REMARKS:	

LOG OF TEST BORING

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	DESCRIPTION	REMARKS	WELL CONST.
	SS1	1.5	4/4 4/10	SAND f-m, trace silt, trace f gravel, trace brick frags, lt brown-black, damp		cement
	SS2	1.2	11/11 6/9	SAND f-c, little silt, trace f-m gravel, trace brick + coal frags, dk brown-black, damp	FILL	bentonite
				Top 0.6 SAND m-c, ~~some silt~~, tr. f gr., lt ~~yellow~~ brown		
5	SS3	1.1	6/4 7/9	Bot 0.6 SAND f, some silt, trace f gravel, light yellow brown, moist	Native SANDS	sand
					▽ 7.5 10/7/87	Screen and sand pack
10	SS4	0.8	6/29 54/60	SAND m-c, little f gravel, lt gray-brown c gravel lodged in nose, saturated	Running sand conditions	
15	SS5	2.0	7/6 4/5	SAND m-c, some f gravel, lt brown, saturated		
	SS6	0.5	39/43	SAND f-m, trace c sand to c gravel, lt brown, sat.	EOB 20'	sand + collapse

GRAPHIC LITHO LOG



Proportions Used: Trace = 0-10%, Little = 10-20%, Some = 20-35%, And = 35-50%

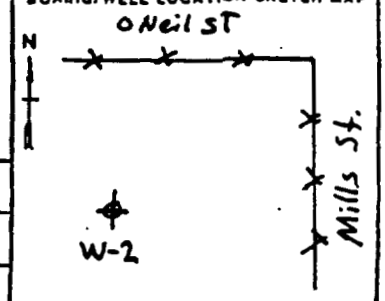
Sampling Abbreviations: SS = Split Spoon, ST = Shelby Tube, CSC = Continuous Soil Core

HART

FRED C. HART ASSOCIATES, INC.

TEST BORING LOG

BORING/WELL LOCATION SKETCH MAP



BORING NO.	W-2
PROJECT NO./NAME	Auto Ion 00083-00 00001-01
LOCATION	Kalamazoo MI
DRILLING CONTRACTOR/DRILLER	Fox Drilling Inc / Rob Crachy
HART GEOLOGIST/OFFICE	Harold Moritz / Meriden
DRILLING EQUIPMENT/METHOD	CME 75 3 3/4 x 7 3/4 HSA
SIZE/TYPE OF BIT	7 3/4" carbide fingers
SAMPLING METHOD	2' Split Spoon
START/FINISH DATE	10/22-10/22/97
WELL INSTALLED?	YES ☒ NO ☐
CASING MAT./DIA.	2" Stainless Steel
SCREEN:	TYPE Mill Slot MAT. St. Steel LENGTH 10.7' DIA. 2" SLOT SIZE 10
ELEVATION OF: (FT. ABOVE M.S.L.)	GROUND SURFACE / TOP OF WELL CASING / TOP & BOTTOM SCREEN / GW SURFACE / DATE
REMARKS:	

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	DESCRIPTION	REMARKS	WELL CONST.
	SS1	1.7	8/10 11/13	SAND f-c, some silt, trace f-m gravel, brick, cinder frags, dk brown-black, moist	FILL brick at 2-2.5'	cement
	SS2	0.9	8/6 7/9	SAND f, little silt, brown, moist	sand	bentonite
5	SS3	0.6	5/8 7/3	SAND f-m, trace silt, trace c sand to f gravel brown, damp		sand
10	SS4	1.8	12/32 50/50	SAND f-c, trace f gravel, trace silt, lt brown wet	running sand conditions	sand screen
15						
	SS5	0.3	50/16 20/27	SAND f-c, little f gravel, trace silt lt brown, saturated		

GRAPHIC LITHOLOG

Proportions Used: Trace = 0-10%, Little = 10-20%, Some = 20-35%, And = 35-50%

Sampling Abbreviations: SS = Split Spoon, ST = Shelby Tube, CSC = Continuous Soil Core

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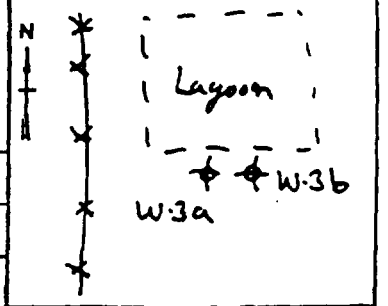
TEST BORING LOG

BORING/WELL LOCATION SKETCH MAP



BORING NO.	W-3a and b
PROJECT NO./NAME	Auto Tan 00083-00 00001-01
LOCATION	Kalamazoo, MI
DRILLING CONTRACTOR/DRILLER	Fox Drilling Inc / Bob Crachy
HART GEOLOGIST/OFFICE	Harold Moritz / Meriden
DRILLING EQUIPMENT/METHOD	CME 75 see remarks
SIZE/TYPE OF BIT	see remarks
SAMPLING METHOD	2' split spoon
START/FINISH DATE	10/21 - 10/27/87
WELL INSTALLED?	YES ☒ NO ☐
CASING MAT./DIA.	2" stainless steel
SCREEN:	TYPE Mill Slot MAT. St. Steel LENGTH 10.7' DIA. 2" SLOT SIZE 10
ELEVATION OF: (FT. ABOVE M.S.L.)	GROUND SURFACE / TOP OF WELL CASING / TOP & BOTTOM SCREEN / GW SURFACE / DATE

REMARKS: W-3a 0'-19' 4" water rotary casing / W-3b 8" casing 0'-8', 6" casing 0'-19.5', 4" casing 0'-50'

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	DESCRIPTION	REMARKS
	SS1	1.0	3/ 50-6"	SAND f-c, little silt, little f-c gravel, brick, coal cinder, wood frags, dk brown-black, moist	FILL
	SS2	1.0	6/8 12/12	same as SS1 moist-wet	
5	SS3	2.0	27/21 19/13	SAND f-m, little f-c gravel and artificial debris little silt, dk brown-black, moist, petroleum odor	
	SS4	0.9	13/30 50-6"	SAND f-c, trace f gravel, trace silt, black wet, petroleum odor	Sand ~8' W-3a
10					sand wash
15	SS5	2.0	12/18 30/50	SAND f-c, little f-m gravel, trace silt, dk brown-black, petroleum odor, saturated	
	SS6	0.7	12/40 40	SILT, some clay, trace f sand, gray, damp	Clayey SILT W-3a eob 19'

WELL CONST. (a, b): cement, cement, bentonite, sand, sand + screen, Volclay bentonite grout

GRAPHIC LITHO LOG

Proportions Used: Trace = 0-10%, Little = 10-20%, Some = 20-35%, And = 35-50%

Sampling Abbreviations: SS = Split Spoon, ST = Shelby Tube, CSC = Continuous Soil Core

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BORING NO. W-3a and W-3b

LOG OF TEST BORING

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	DESCRIPTION	REMARKS	WELL CONST.	GRAPHIC LITHO LOG
					clayey SILT	Volclay bentonite	
25	SS7	1.0	21/29 42	SAND f-m, trace silt, trace clay at top lt brown-gray, saturated		sand	
				sand wash			
30	SS8	0.8	37/ 100-7"	same as SS7 except no clay			
				sand, trace gravel wash			
35	SS9	0.7	31/ 100-7"	same as SS7 except no clay			
				sand wash			
40	SS10	0.9	29/ 100-7"	same as SS8		sand + screen	
				sand wash			
45	SS11	0.9	31/42 50	same as SS8			
				sand wash		collapse	
50	SS12	0.6	100-7"	same as SS8 eob W-3b 50.5 ft ↓			

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BORING NO. W-4

LOG OF TEST BORING

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	DESCRIPTION	REMARKS	WELL CONST.	GRAPHIC LITHO LOG
	SS6	1.1	5/6	Bot 0.2 SILT, tr f sand to f gravel, gray moist	SAND + GRAVEL some silt lenses	Screen	
	SS7	1.6	12/14 17/20	SAND f-c + GRAVEL f-c, some silt, gray-brown, sat.	running sand		
25				eob 24 ft			

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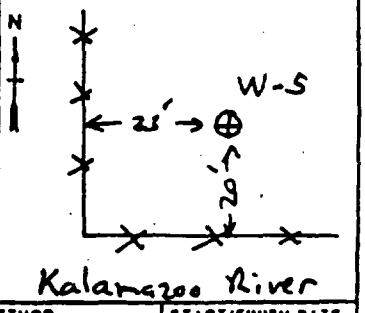
TEST BORING LOG

BORING/WELL LOCATION SKETCH MAP



BORING NO.	W-5
PROJECT NO./NAME	Auto Ion 00083-00 00001-01
LOCATION	Kalamazoo, MI
DRILLING CONTRACTOR/DRILLER	Fox Drilling Co. / Rob Crachy
HART GEOLOGIST/OFFICE	Harold Moritz / Meriden
DRILLING EQUIPMENT/METHOD	CME75 3¾x7¾ HSA
SIZE/TYPE OF BIT	7¾" carbide fingers
SAMPLING METHOD	2' split spoon
START/FINISH DATE	10/13 - 10/14/87
WELL INSTALLED?	YES ☒ NO ☐
CASING MAT./DIA.	2" Stainless Steel
SCREEN:	TYPE Mill Slot MAT. Stainless St. LENGTH 10.7 DIA. 2" SLOT SIZE 10
ELEVATION OF: (FT. ABOVE M.S.L.)	GROUND SURFACE / TOP OF WELL CASING / TOP & BOTTOM SCREEN / GW SURFACE / DATE
REMARKS:	

LOG OF TEST BORING

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	DESCRIPTION	REMARKS	WELL CONST.
	SS1	1.7	9/16 14/10	SAND f-c, little f-c gravel, brick frags, wood frags, little silt, dk brown, black tan, damp	FILL	cement
	SS2	0.8	9/6 10/30	same as SS1		
5	SS3	0	2/SS 4/2	no recovery, fill cuttings		bentonite
	SS4	0.7	2/4 8/12	SAND f-c, little f-m gravel, little silt black - lt brown, wet	perched water	
	SS5	1.3	2/2 3/3	SILT, some clay, trace peat, black moist	Clayey silt @ 9.5 b.g. 10/14	
10						sand
					SAND + GRAVEL	screen + sand
15	SS6	1.5	6/24 25/16	SAND f-c and GRAVEL f-c, + silt gray-brown, saturated		
					Running sand	

GRAPHIC LITHO LOG

Proportions Used: Trace = 0-10%, Little = 10-20%, Some = 20-35%, And = 35-50%

Sampling Abbreviations: SS = Split Spoon, ST = Shelby Tube, CSC = Continuous Soil Core

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BORING NO. W-5

LOG OF TEST BORING

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	DESCRIPTION	REMARKS	WELL CONST.	GRAPHIC LITHO LOG
					running sand	Screen + Sand	
25	SS7	0.8	50/100-3"	GRAVEL f, little f-c sand, gray brown saturated		Sand	
				eob 26 ft			
30							

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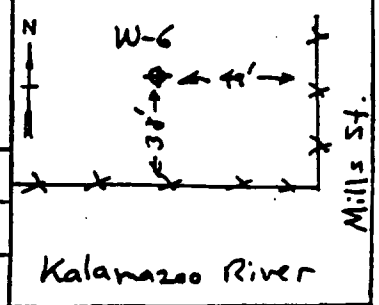
TEST BORING LOG

BORING/WELL LOCATION SKETCH MAP

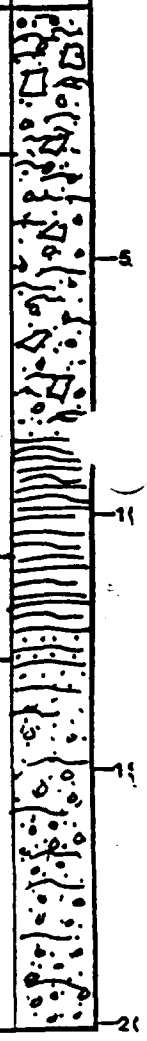


BORING NO.	W-6
PROJECT NO./NAME	Auto-Ion 00003-00 00001-01
LOCATION	Kalamazoo, MI
DRILLING CONTRACTOR/DRILLER	Fox Drilling Co. / Rob Cracky
HART GEOLOGIST/OFFICE	Harold Moritz / Meriden
DRILLING EQUIPMENT/METHOD	CME75 3¾"x7¾" HSA
SIZE/TYPE OF BIT	7¾" carbide fingers
SAMPLING METHOD	2' Split Spoon
START/FINISH DATE	10/14-10/14/17
WELL INSTALLED?	YES ☒ NO ☐
CASING MAT./DIA.	2" Stainless Steel
SCREEN:	TYPE Mill Slot MAT. Stainless St. LENGTH 10' DIA. 2" SLOT SIZE 10
ELEVATION OF: (FT. ABOVE M.S.L.)	GROUND SURFACE / TOP OF WELL CASING / TOP & BOTTOM SCREEN / GW SURFACE / DATE
REMARKS:	

LOG OF TEST BORING

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	DESCRIPTION	REMARKS	WELL CONST.
	SS1	0.6	9/8 14/23	SAND f-c, some f-c gravel, coal, brick frags cinders, little silt, black, dry	FILL	Cement
	SS2	1.8	12/12 9/8	Same as SS1 - damp		
5	SS3	0.9	6/5 1/1	Same as SS1 - moist		bentonite
	SS4	0.6	1/1 1/3	Same as SS1 - moist, wet at base	perched water	
10	SS5	1.2	4/4 4/3	SILT, some clay, trace muck + peat, black moist	Organic rich SILT	
	SS6	1.4	2/2 2/2	Top ~0.8 same as SS5 - grading into Bot ~0.6 SAND f, little silt, trace m-c sand, dk gray-brown, saturated		sand
15	SS7	1.5	11/8 10/17	SAND f-c and GRAVEL f-c, little silt, light gray-brown, saturated	SAND + GRAVEL	screen + sand
					Running sand	
	SS8	1.5	12/15	Same as SS7		

GRAPHIC LITHO LOG



Proportions Used: Trace = 0-10%, Little = 10-20%, Some = 20-35%, And = 35-50%

Sampling Abbreviations: SS = Split Spoon, ST = Shelby Tube, CSC = Continuous Soil Core

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BORING NO. W-6

LOG OF TEST BORING

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	DESCRIPTION	REMARKS	WELL CONST.	GRAPHIC LITHO LOG
	SS8	1.5	11/20	SAND f-c and GRAVEL f-c, little silt, light gray-brown, saturated	SAND + GRAVEL running sand	Screen	
25				eob 24 ft			

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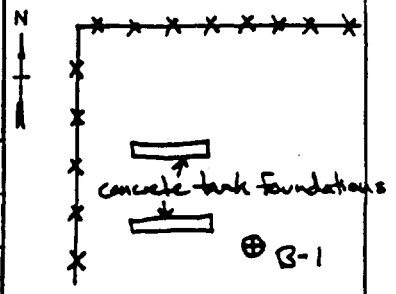
TEST BORING LOG

BORING/WELL LOCATION SKETCH MAP



BORING NO.	B-1
PROJECT NO./NAME	Auto-Tan 00083-00 00001-01
LOCATION	Kalamazoo, MI
DRILLING CONTRACTOR/DRILLER	Fox Drilling Co. / Rob Crachy
HART GEOLOGIST/OFFICE	Harold Moritz / Meriden
DRILLING EQUIPMENT/METHOD	CME 75 Mud Rotary
SIZE/TYPE OF BIT	4" roller bit
SAMPLING METHOD	2' Split Spoon
START/FINISH DATE	10/8-10/20/87
WELL INSTALLED? YES ☐ NO ☒	
CASING MAT./DIA.	
SCREEN: TYPE / MAT. / LENGTH / DIA. / SLOT SIZE	
ELEVATION OF: (FT. ABOVE M.S.L.) GROUND SURFACE / TOP OF WELL CASING / TOP & BOTTOM SCREEN / GW SURFACE / DATE	
REMARKS:	Pilothole w/ 3¼" OD solid auger to 8', 4" casing after to 8'

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	LOG OF TEST BORING — DESCRIPTION	REMARKS	WELL CONST.	GRAPHIC LITHO LOG
	SS1	2.0	14/43 50/60	SAND f-c, some silt, tr f-c gr., tr coal, brick, concrete, wood frags, black-dk brown	FILL		
	SS2	2.0	29/18 13/19	SAND f-m, tr silt, tr f-m gravel, brown, damp	Native SANDS		
5	SS3	0.6	13/15 16/20	SAND f-c, little silt, tr f-c gravel, brown damp			5
	SS4	0.5	14/17 18/22	SAND f-c, little silt, top ½ brown bot. ½ black wet	▽ ~8' sand & gravel wash		11
10							
	SS5	0.5	13/18 43	SAND f-c, little f-c gravel, tr silt, lt brown saturated			15
15					SILT + CLAY		
	SS6	1.3	13/39 46	SILT + CLAY, tr f sand to f gravel, gray damp			20

Proportions Used: Trace = 0-10%, Little = 10-20%, Some = 20-35%, And = 35-50%

Sampling Abbreviations: SS = Split Spoon, ST = Shelby Tube, CSC = Continuous Soil Core

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BORING NO. B-1

LOG OF TEST BORING

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	DESCRIPTION	REMARKS	WELL CONST.	GRAPHIC LITHO LOG
					SILT + CLAY		
25	SS7	1.5	22/25 23	SILT + CLAY tr f sand to f gravel gray, damp			
	SS8	1.0	20/40 48	Interlayered SAND f + SILT with CLAY + SILT both gray, moist + saturated			
					SAND		
30	SS9	1.1	22/23 23	SAND f-m, little silt, trace c sand to f gravel lt gray-brown, saturated			
35	SS10	1.5		SAND f-m, trace silt, trace c sand to f gravel gray-brown, saturated			
				sand, minor gravel wash			
40	SS11	1.1	29/42 41	same as SS10, several ~1cm thick silt lenses			
				sand, little gravel wash			
45	SS12	0.7	57/100-6"	same as SS10			
				sand, trace gravel wash			
50	SS13	1.0	42/100-6"	same as SS10			

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BORING NO. B-1

LOG OF TEST BORING

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	DESCRIPTION	REMARKS	WELL CONST.	GRAPHIC LITHO LOG
55				sand wash			
60	SS14	0.5	100-6"	SAND f-m, trace silt, lt gray-brown, sat.			
65				sand, trace gravel wash			
70	SS15	0.5	100-6"	same as SS14			
75				sand, trace f gravel wash			
80	SS16	0.9	60/100-4"	same as SS14			

HART

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BORING NO. B-1

LOG OF TEST BORING

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	DESCRIPTION	REMARKS	WELL CONST.	GRAPHIC LITHO LOG
				sand wash			
85							
	SS17	0.5	100-6"	SAND f-m, trace silt, lt gray-brown, sat.			
90							
				sand wash			
95							
					nose of spoon lost in hole		
	SS18	0	100-6"	no recovery			
100							
				sand, trace f-m gravel wash			
	SS19	0.2	100-6"	SAND f-m, little c sand to f gravel lt gray-brown, saturated			
105							
				sand, f-m gravel wash	rough drilling after 107', gray clay cuttings, oil on waste mud at 109'		
				CLAY, gray, dump, compact (weathered shale)	Bedrock-Shale		
110	SS20	0.7	100-7"				

EOB 110 ft

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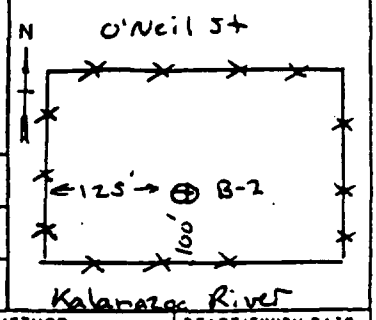
TEST BORING LOG

BORING/WELL LOCATION SKETCH MAP

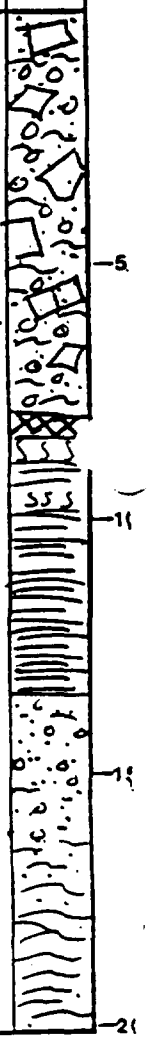


BORING NO.	B-2
PROJECT NO./NAME	Auto-Ion 00083-00 00001-01
LOCATION	Kalamazoo MI
DRILLING CONTRACTOR/DRILLER	Fox Drilling Co / Rob Crachy
HART GEOLOGIST/OFFICE	Harold Moritz / Meriden
DRILLING EQUIPMENT/METHOD	CME 75 Mud Rotary
SIZE/TYPE OF BIT	2 1/2" roller bit
SAMPLING METHOD	2' Split Spoon
START/FINISH DATE	10/12-10/13/87
WELL INSTALLED? YES ☐ NO ☒	
CASING MAT./DIA.	
SCREEN: TYPE / MAT. / LENGTH / DIA. / SLOT SIZE	
ELEVATION OF: (FT. ABOVE M.S.L.) GROUND SURFACE / TOP OF WELL CASING / TOP & BOTTOM SCREEN / GW SURFACE / DATE	

REMARKS: Pilot hole w/ 3 1/2" OD Augers to 14 ft, 3" casing to 14.5 ft after

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	DESCRIPTION	REMARKS	WELL CONST.
	SS1	1.5	22/25 56-3	SAND f-c, some silt, little f-c gravel and artificial debris, brown-black, moist to dry	Fill very rough drilling, brick and cinder block frags in cuttings	
5						
	SS2	0	100-3"	no recovery	breakthrough at 8 1/2 feet	
10	SS3	0.7	1/1 1/1	CLAY and MUCK, trace peat, black, moist	CLAY gray-black silty clay cuttings	
	SS4	0	1/2 1/2			
15	SS5	0.7	7/13 14/12	SAND f-c, little f-m gravel, trace silt, gray-brown, saturated	SAND	
	SS6	0.8	36/25 30	SILT, trace f sand, gray, saturated	SILT	

GRAPHIC LITHO LOG



Proportions Used: Trace = 0-10%, Little = 10-20%, Some = 20-35%, And = 35-50%

Sampling Abbreviations: SS = Split Spoon, ST = Shelby Tube, CSC = Continuous Soil Core

HART

FRED C. HART ASSOCIATES, INC.

BORING NO. B-2

LOG OF TEST BORING

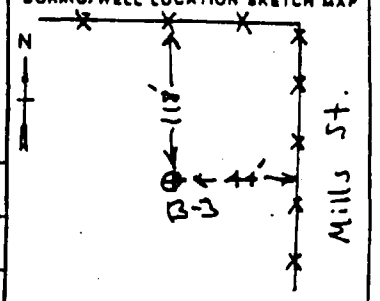
DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	DESCRIPTION	REMARKS	WELL CONST.	GRAPHIC LITHO LOG
					SILT		
25	557	0.9	21/29 30	SAND m-c, little f gravel, trace silt gray-brown, saturated	SAND		2
30	558	0.8	41/40 42	SAND f-c, little f-m gravel, trace silt, gray-brown, saturated			
				eob 30 ft			

HART

FRED C. HART ASSOCIATES, INC.

TEST BORING LOG

BORING/WELL LOCATION SKETCH MAP



BORING NO.	B-3
PROJECT NO./NAME	Auto-Ion 00083-00 00001-01
LOCATION	Kalamazoo, MI
DRILLING CONTRACTOR/DRILLER	Fox Drilling Co. / Rob Crachy
HART GEOLOGIST/OFFICE	Harold Moritz / Meriden
DRILLING EQUIPMENT/METHOD	CME75 Mud Rotary
SIZE/TYPE OF BIT	4" Roller bit
SAMPLING METHOD	2' Split Spoon
START/FINISH DATE	10/8 - 10/12/87
WELL INSTALLED?	YES ☐ NO ☒
CASING MAT./DIA.	
SCREEN: TYPE / MAT. / LENGTH / DIA. / SLOT SIZE	
ELEVATION OF: (FT. ABOVE M.S.L.) GROUND SURFACE / TOP OF WELL CASING / TOP & BOTTOM SCREEN / GW SURFACE / DATE	

REMARKS: Pilot hole w/ 3½" OD Solid Augers to 8', 4" casing after to 8½'

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	LOG OF TEST BORING — DESCRIPTION	REMARKS	WELL CONST.	GRAPHIC LITHO LOG
	SS1	1.6	15/40 42/32	SAND f-c, some silt, little f-c gravel, trace artificial debris, black, damp			
	SS2	0.7	12/12 20/24	Same as SS1			
5	SS3	0.9	12/19 20/29	Top 0.5 - same as SS1 Bot 0.4 SAND f-m, some silt, trace c sand to f gravel, brown, damp	Fill		5
	SS4	1.7	12/16 21/30	Top 0.4 SAND f-m, brown, moist Bot 1.3 CLAY and PEAT, little silt, trace f-c sand, black, rotten odor, damp			
10	SS5	1.2	14/19 18/22	Top 0.6 CLAY, some peat, trace silt, black moist, rotten odor Bot 0.6 SAND f-c, little silt, tr fin gravel, gray to brown, moist	Manure Layer Native sands		11
15	SS6	1.0	29/24 25	SAND f-m, trace c sand to m gravel, trace silt, saturated, light brown			15
				sand + gravel cuttings			
	SS7	0	20/27 27	gravel wash lodged in nose			20

Proportions Used: Trace = 0-10%, Little = 10-20%, Some = 20-35%, And = 35-50%

Sampling Abbreviations: SS = Split Spoon, ST = Shelby Tube, CSC = Continuous Soil Core

HART

FRED C. HART ASSOCIATES, INC.

BORING NO. B-3

LOG OF TEST BORING

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	DESCRIPTION	REMARKS	WELL CONST.	GRAPHIC LITHO LOG
				sand + gravel wash			
25	SS8	0.8	18/25 43	SAND m, tr f and c sand, tr. silt lt gray-brown, saturated			2
				sand + gravel wash			
30	SS9	1.5	35/50 73	SAND f-m, tr silt, lt gray-brown, sat.			3
				sandy minor gravel wash			
35	SS10	1.0	35/ 100-1"	same as SS9			3
				sand wash			
40	SS11	1.3	40/56 100	same as SS9			4
				sand wash			
45	SS12	1.2	36/42 51	same as SS9			
				sand wash			
50	SS13	1.5	35/50 65	SAND f-m, trace f gravel, 0.1 clay lens sat, lt gray-brown			

FRED C. HART ASSOCIATES, INC.

BORING NO. B-3

LOG OF TEST BORING

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	DESCRIPTION	REMARKS	WELL CONST.	GRAPHIC LITHO LOG
55				sand, trace gravel wash			
60	SS14	1.0	15/21 30	SAND f-m, trace silt, lt-gray-brown saturated			
65				sand wash			
70	SS15	1.5	52/80 100	same as SS14			
75				sand wash			
80	SS16	1.0	65/100	same as SS14			

HART

FRED C. HART ASSOCIATES, INC.

BORING NO. B-3

LOG OF TEST BORING

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	DESCRIPTION	REMARKS	WELL CONST.	GRAPHIC LITHO LOG
				sand, little gravel wash			
85					gravel lenses rough drilling 83-87		
	3517	0.5	150-6"	SAND f-m, trace silt, smear of gray clay at base, ltgray-brown, sat			
90							
				sand, gravel wash			
95							
					grey wcesh ~97 tough drilling		
	3518	0.7	130/150	CLAY, dk grey, dry, very compact almost shaly			
100					Shale Bedrock		
	3519	0.5	150-5"	SHALE, dk grey, hard, fissile			
105				eob 105 ft			

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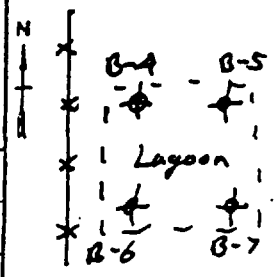
TEST BORING LOG

BORING/WELL LOCATION SKETCH MAP



BORING NO.	B-4
PROJECT NO./NAME	Auto-Ion 00083-00 00001-01
LOCATION	Kalamazoo, MI
DRILLING CONTRACTOR/DRILLER	Fox Drilling Inc. / Rob Crachy
HART GEOLOGIST/OFFICE	Harold Moritz / Meriden
DRILLING EQUIPMENT/METHOD	CME 75 w/ 4" OD Augers
SIZE/TYPE OF BIT	4" carbide fingers
SAMPLING METHOD	2' Split Spoon
START/FINISH DATE	10/15/87
WELL INSTALLED?	YES ☐ NO ☒
CASING MAT./DIA.	
SCREEN: TYPE / MAT. / LENGTH / DIA. / SLOT SIZE	
ELEVATION OF: (FT. ABOVE M.S.L.) GROUND SURFACE / TOP OF WELL CASING / TOP & BOTTOM SCREEN / GW SURFACE / DATE	
REMARKS:	

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	LOG OF TEST BORING: DESCRIPTION	REMARKS	WELL CONST.	GRAPHIC LITHO LOG
	SS1	1.0	5/4 4/2	SAND f-c, trace f-m gravel, trace silt brown, damp			
	SS2	1.1	3/3 2/2	same as SS1			
5	SS3	0.7	3/1 1/2	same as SS1 except little silt			
	SS4	1.1		same as SS2 except wet, compact and orange tan, to lt yellow brown mottled			
				eob 8 ft			
10							
15							

Proportions Used: Trace = 0-10%, Little = 10-20%, Some = 20-35%, And = 35-50%

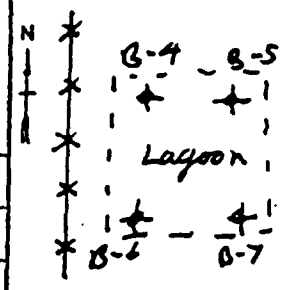
Sampling Abbreviations: SS = Split Spoon, ST = Shelby Tube, CSC = Continuous Soil Core

HART

FRED C. HART ASSOCIATES, INC.

TEST BORING LOG

BORING/WELL LOCATION SKETCH MAP



BORING NO.	B-5
PROJECT NO./NAME	Auto-Ion 00083-00 00001-01
LOCATION	Kalamazoo, MI
DRILLING CONTRACTOR/DRILLER	Fox Drilling Inc. / Rob Crachy
HART GEOLOGIST/OFFICE	Harold Moritz / Meriden
DRILLING EQUIPMENT/METHOD	CME 75 4" solid augers
SIZE/TYPE OF BIT	4" carbide fingers
SAMPLING METHOD	2' split spoon
START/FINISH DATE	10/15/87
WELL INSTALLED?	YES ☐ NO ☒
CASING MAT./DIA.	
SCREEN: TYPE / MAT. / LENGTH / DIA. / SLOT SIZE	
ELEVATION OF: (FT. ABOVE M.S.L.)	GROUND SURFACE / TOP OF WELL CASING / TOP & BOTTOM SCREEN / GW SURFACE / DATE
REMARKS:	

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	LOG OF TEST BORING — DESCRIPTION	REMARKS	WELL CONST.	GRAPHIC LITHO LOG
	SS1	1.2	4/9 13/20	Top 0.6 SAND f-c, little f-c gravel, tr silt, lt brown Bot 0.6 SAND f, some silt, tr m sand to f gravel dk brown, mottled, compact			
	SS2	1.3		SAND f, little silt, little m sand, brown, moist			
5	SS3	1.6		Top 1.0 SAND f-c, little f-m gravel, little silt, brown Bot 0.6 SAND f-m, trace silt, lt yellow brown			5
	SS4	0.9		SAND f-m, trace c sand to f gravel, trace silt, lt brown, moist			
				eob 8 ft			
10							11
15							15
							20

Proportions Used: Trace = 0-10%, Little = 10-20%, Some = 20-35%, And = 35-50%

Sampling Abbreviations: SS = Split Spoon, ST = Shelby Tube, CSC = Continuous Soil Core

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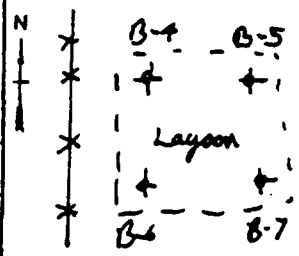
TEST BORING LOG

BORING/WELL LOCATION SKETCH MAP



BORING NO.	B-6
PROJECT NO./NAME	Auto-Ion 00085-00 00001-01
LOCATION	Kalamazoo, MI
DRILLING CONTRACTOR/DRILLER	Fox Drilling Inc / Rob Crachy
HART GEOLOGIST/OFFICE	Harold Moritz / Meriden
DRILLING EQUIPMENT/METHOD	CME75 4" solid augers
SIZE/TYPE OF BIT	4" carbide fingers
SAMPLING METHOD	2' split spoon
START/FINISH DATE	10/16/87
WELL INSTALLED?	YES ☐ NO ☒
CASING MAT./DIA.	
SCREEN: TYPE / MAT. / LENGTH / DIA. / SLOT SIZE	
ELEVATION OF: (FT. ABOVE M.S.L.) GROUND SURFACE / TOP OF WELL CASING / TOP & BOTTOM SCREEN / GW SURFACE / DATE	
REMARKS:	

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	LOG OF TEST BORING — DESCRIPTION	REMARKS	WELL CONST.	GRAPHIC LITHO LOG
	SS1	1.1		SAND f-c, some silt, little f-c gravel, brick cinder block, coal frags, dk brown-black tan, damp			
	SS2	1.2		Top 0.5 SAND f-m, trace cs and to f gravel, trace silt, lt yellow gray Bot. 0.7 SAND f-m, little silt, trace cs and to f gravel + coal frags, mottled red-brown, tan moist			
5	SS3	1.4		SAND f-c, little silt, trace f-m gravel, dk brown to black, moist, petroleum odor			
	SS4	1.8		same as SS3, dk grey-brown			
				eob 8 ft			
10							
15							

Proportions Used: Trace = 0-10%, Little = 10-20%, Some = 20-35%, And = 35-50%

Sampling Abbreviations: SS = Split Spoon, ST = Shelby Tube, CSC = Continuous Soil Core

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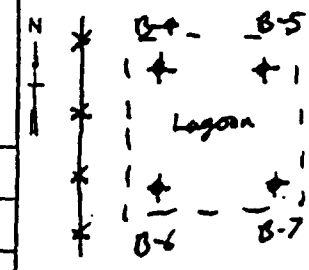
TEST BORING LOG

BORING/WELL LOCATION SKETCH MAP



BORING NO.	B-7
PROJECT NO./NAME	Auto Ion 00083-00 00001-01
LOCATION	Kalamazoo, MI
DRILLING CONTRACTOR/DRILLER	Fox Drilling Inc. / Rob Crachy
HART GEOLOGIST/OFFICE	Harold Morita / Meriden
DRILLING EQUIPMENT/METHOD	CME75 4" solid augers
SIZE/TYPE OF BIT	4" carbide fingers
SAMPLING METHOD	2' split spoon
START/FINISH DATE	10/15/87
WELL INSTALLED?	YES ☐ NO ☒
CASING MAT./DIA.	
SCREEN: TYPE / MAT. / LENGTH / DIA. / SLOT SIZE	
ELEVATION OF: (FT. ABOVE M.S.L.)	GROUND SURFACE / TOP OF WELL CASING / TOP & BOTTOM SCREEN / GW SURFACE / DATE
REMARKS:	

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	LOG OF TEST BORING — DESCRIPTION	REMARKS	WELL CONST.	GRAPHIC LITHO LOG
	SS1	1.1		SAND f-c, little f-m gravel, trace silt, trace coal frags., damp, brown			
	SS2	1.3		Same as SS1 but with trace blue-green colored gravel, moist to wet			
5	SS3	2.0		SAND f-m, little silt, trace c sand to f gravel, black moist, petroleum odor			
	SS4	1.7		same as SS3, wet			
				eob 8 ft			
10							
15							

Proportions Used: Trace = 0-10%, Little = 10-20%, Some = 20-35%, And = 35-50%

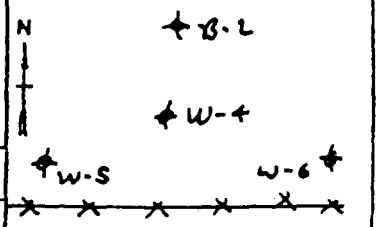
Sampling Abbreviations: SS = Split Spoon, ST = Shelby Tube, CSC = Continuous Soil Core

HART

FRED C. HART ASSOCIATES, INC.

TEST BORING LOG

BORING/WELL LOCATION SKETCH MAP



BORING NO.	W-4
PROJECT NO./NAME	Auto-Ion 00083-00 00001-01
LOCATION	Kalamazoo, MI
DRILLING CONTRACTOR/DRILLER	Fox Drilling Co. / Rob Cracky
HART GEOLOGIST/OFFICE	Harold Moritz / Meriden
DRILLING EQUIPMENT/METHOD	CME 75 3 3/4" x 7 3/4" HSA
SIZE/TYPE OF BIT	7 3/4" carbide fingers
SAMPLING METHOD	2' Split Spoon
START/FINISH DATE	10/15-10/15/87
WELL INSTALLED?	YES ☒ NO ☐
CASING MAT./DIA.	2" Stainless Steel
SCREEN:	TYPE Mill Slot MAT. Stain. Steel LENGTH 10.7' DIA. 2" SLOT SIZE 10
ELEVATION OF: (FT. ABOVE M.S.L.)	GROUND SURFACE / TOP OF WELL CASING / TOP & BOTTOM SCREEN / GW SURFACE / DATE
REMARKS:	

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	DESCRIPTION	REMARKS	WELL CONST.	GRAPHIC LITHOLOGY
	SS1	1.8	10/14 23/17	SAND f-c, some silt, trace to little f-c gravel, cinders, coal, brick frags, black	FILL	cement	
	SS2	1.7	12/14 15/8	same as SS1, damp - moist			
5	SS3	1.1	3/6 3/3	same as SS1, moist			5
						bentonite	
10	SS4	0.7	8/9 8/3	SAND f-m, little silt, trace black wood frags at base, sand is dk brown at top, green + dk blue at base, wet	perched water		
					Organic rich SILT	sand	
	SS5	2.0	1/1 1/3	SILT, some clay, trace peat + muck, black, moist grading into SAND f, some silt, black, wet			
15				gravel lenses	SAND + GRAVEL some silt layers running sand	sand + screen	1
	SS6	1.1	24/6	Top of SAND f-c + GRAVEL f-c, little silt, gray-brown, sat			

Proportions Used: Trace = 0-10%, Little = 10-20%, Some = 20-35%, And = 35-50%

Sampling Abbreviations: SS = Split Spoon, ST = Shelby Tube, CSC = Continuous Soil Core

APPENDIX B

GRAIN SIZE DISTRIBUTION ANALYSIS

LABORATORY TEST RESULTS

GRAIN SIZE ANALYSIS

AUTO ION PROJECT

PROJECT NUMBER 00083-00-00001-01

Prepared For:

Hart Environmental Management, Inc.
3000 Town Center, Suite 315
Southfield , Michigan

Performed By:

J&L Testing Company, Inc.
938 South Central Avenue
Canonsburg, Pennsylvania

February 5, 1988

ENGINEER Rob McLeod

DATE ASSIGNED

DATE DUE ASAP

JOB No. 88C235-01

JOB NAME Hart Environmental Management

Auto Ion Project

DATE REC. 1-27-88

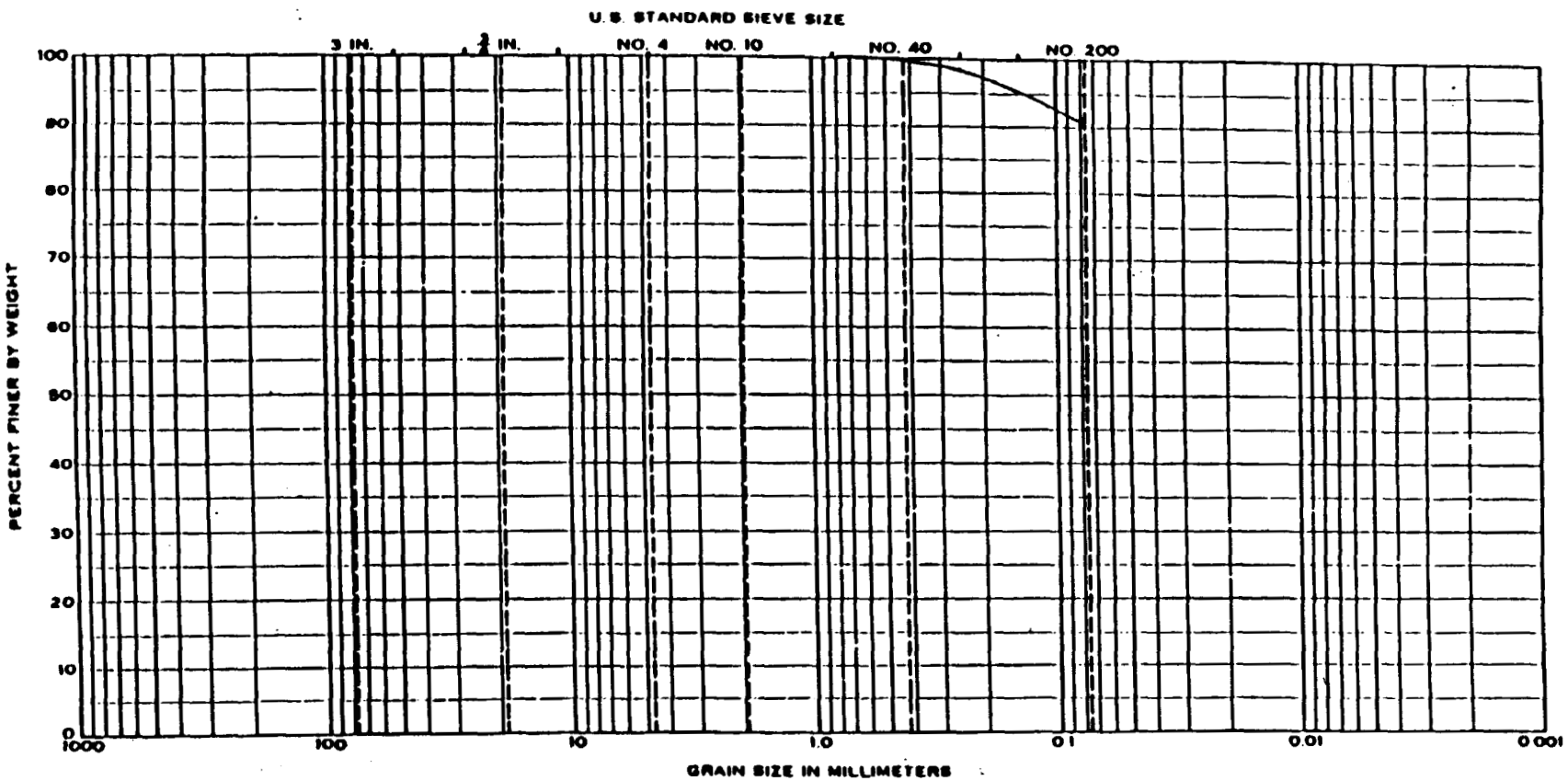
DATE CMP. 2-5-88

REC. BY RAL

Page No 1

SUMMARY OF LABORATORY TEST RESULTS

BORING and SAMPLE No	DEPTH (feet)	CLASSIFICATION	PERM k cm/sec	NATURAL WATER CONTENT (%)	ATTERBERG LIMITS		UNCON. COMPRESS		UNIT DRY WGT (pcf)	SPECIFIC GRAVITY	GRAIN SIZE		OPT MOIST	CONSOLID	TRIAXIAL			
					LIQUID LIMIT	PLASTIC LIMIT	STRESS (tsf)	STRAIN (%)			SIEVE	HYDR			UU	CIU	CELL PRESSURE (psi)	BACK PRESSURE (psi)
B-2 553	Unknown	Silt/Clay									*							
B-3 554	Unknown	Silty C-F SAND w/Gravel									*							
W-5 555	Unknown	Silt/Clay									*							
B-1 551	Unknown	C-F SAND AND GRAVEL									*							
W-2 551	Unknown	F-C Silty SAND									*							
B-3 551	Unknown	Silty C-F SAND w/Some F Gra									*							
B-1 552	Unknown	Silty C-F SAND w/Sm Gravel									*							
B-1 55[illegible]	Unknown	Sandy GRAVEL									*							
W-2 55[illegible]	Unknown	F-C SAND and GRAVEL									*							
B-1 556	Unknown	F-M Sandy SILT									*							
B-2 556	Unknown	Sandy SILT/CLAY									*							
B-1 55[illegible]	Unknwon	Sandy SILT/CLAY									*							
W3-B	5510	Fine SAND									*							
W3-B	5511	F-M SAND									*							
W3-B	5512	Fine SAND									*							



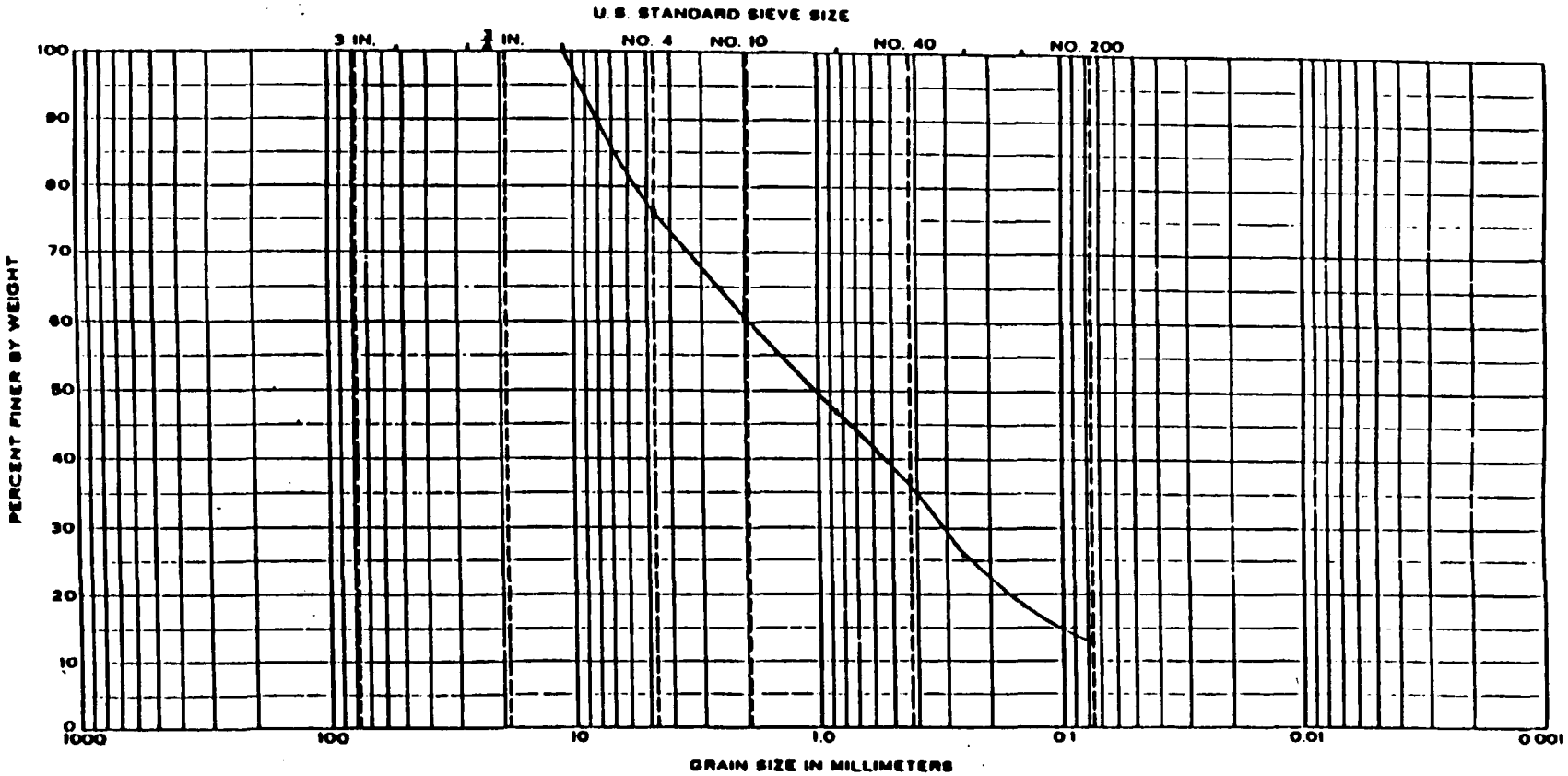
COBBLES	GRAVEL		SAND			SILT OR CLAY
	Coarse	Fine	Coarse	Medium	Fine	

Sample No.	Elev or Depth	Classification	Nat WC	LL	PL	PI
B-2 553	Unknown	Silt/Clay				

Project Hart Environmental Mgmt.
Auto Ion
Michigan
Project No: 00083-00-00001-01
Date 2-5-88 JOB No. 88C235-01

GRADATION CURVES

J & L TESTING COMPANY INC

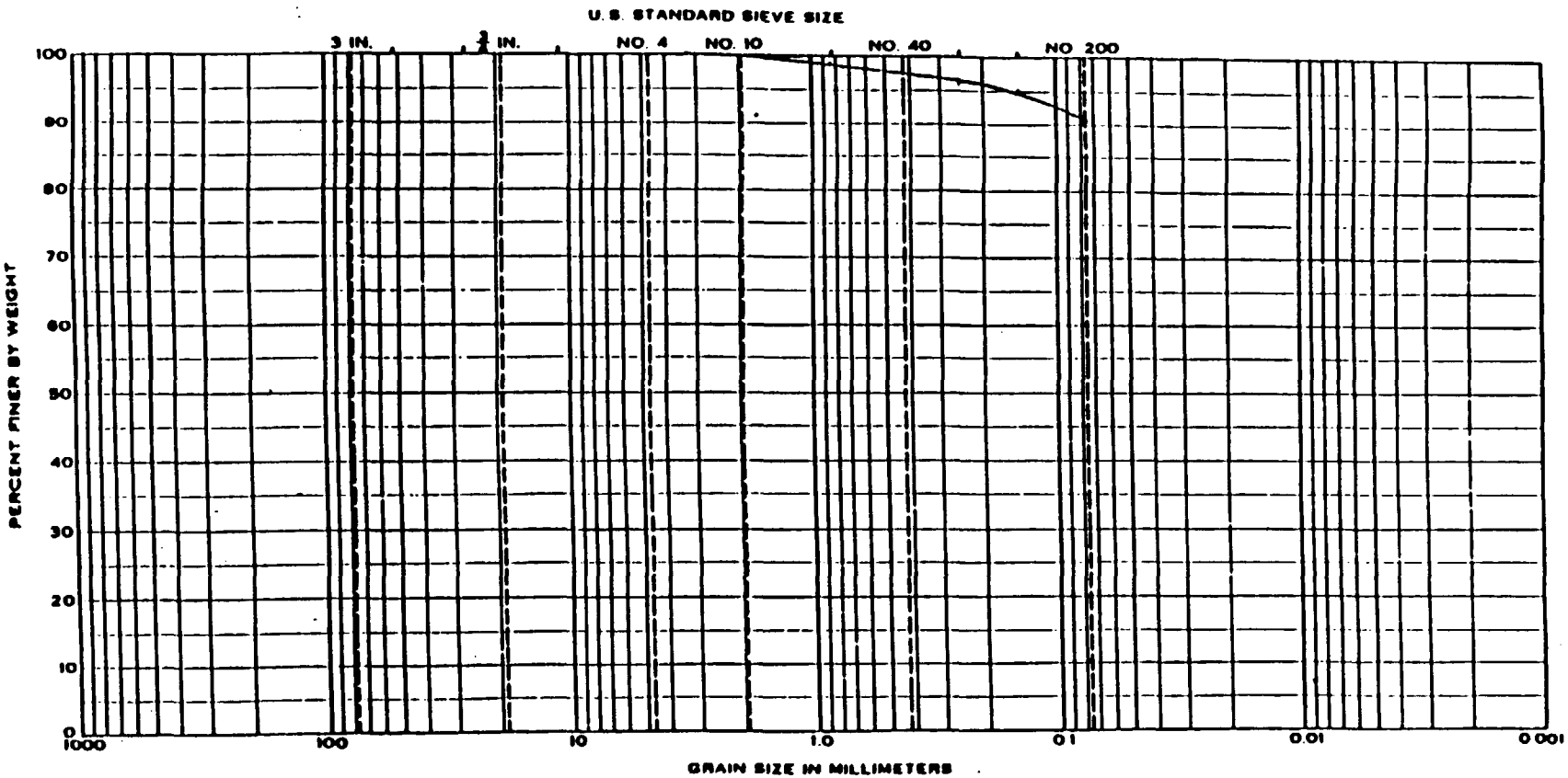


COBBLES	GRAVEL		SAND			SILT OR CLAY
	Coarse	Fine	Coarse	Medium	Fine	

Sample No.	Elev or Depth	Classification	Nat WC	LL	PL	PI
B-3 554	Unknown	Silty C-F SAND and GRAVEL				

Project: Hart Environmental Mgmt.
Auto Ion
Michigan
Project No: 00083-00-00001-01
Date 2-5-88 JOB No. 88C235-01

GRADATION CURVES



COBBLES	GRAVEL		SAND			SILT OR CLAY
	Coarse	Fine	Coarse	Medium	Fine	

Sample No.	Elev or Depth	Classification	NatWC	LL	PL	PI	
W-5 555	Unknown	Silt/Clay					

Project: Hart Environmental Mgmt.

Auto Ion

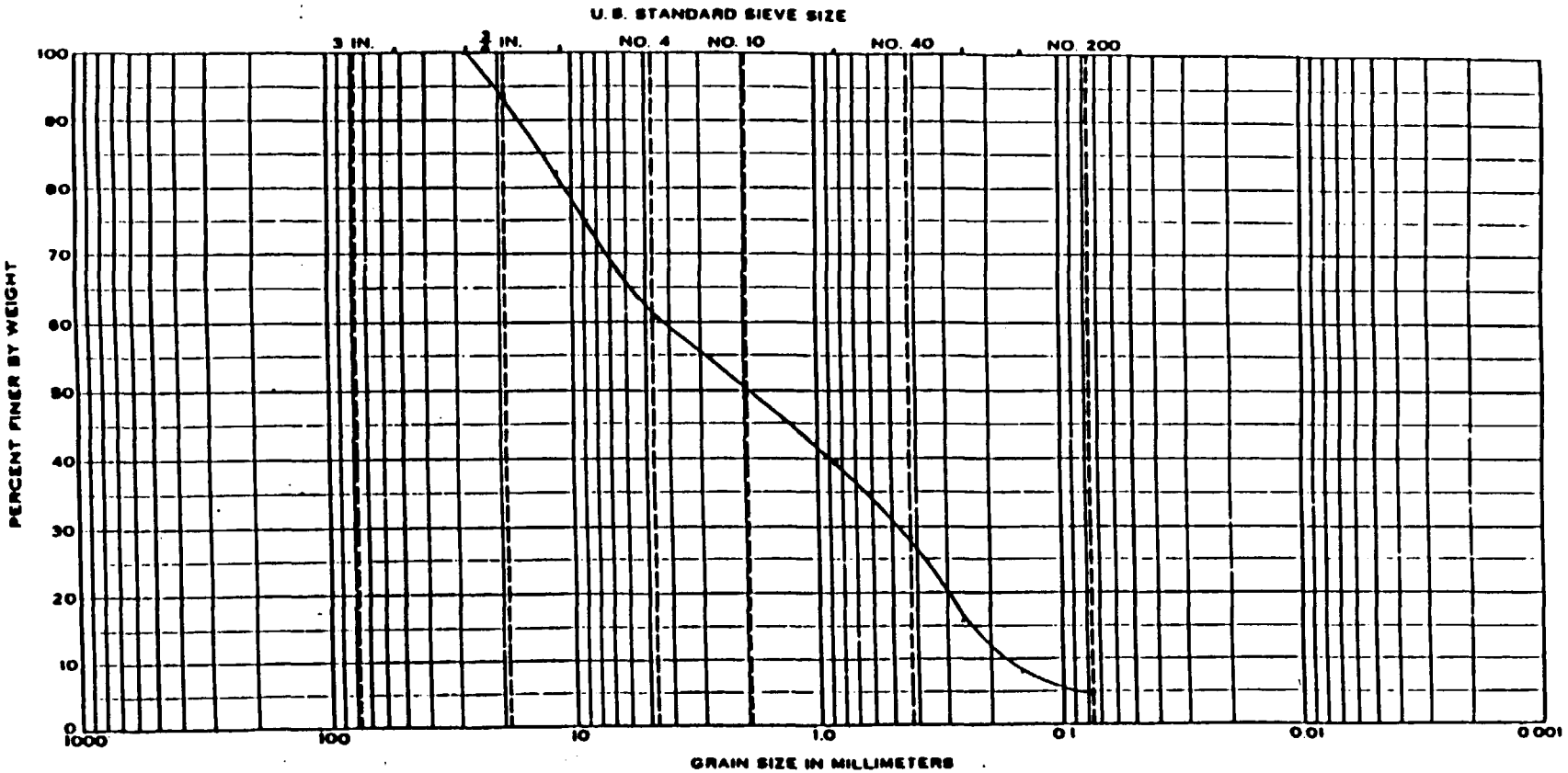
Michigan

Project No: 00083-00-00001-01

Date 2-5-88 Job No. 88C235-01

GRADATION CURVES

J & L TESTING COMPANY, INC.

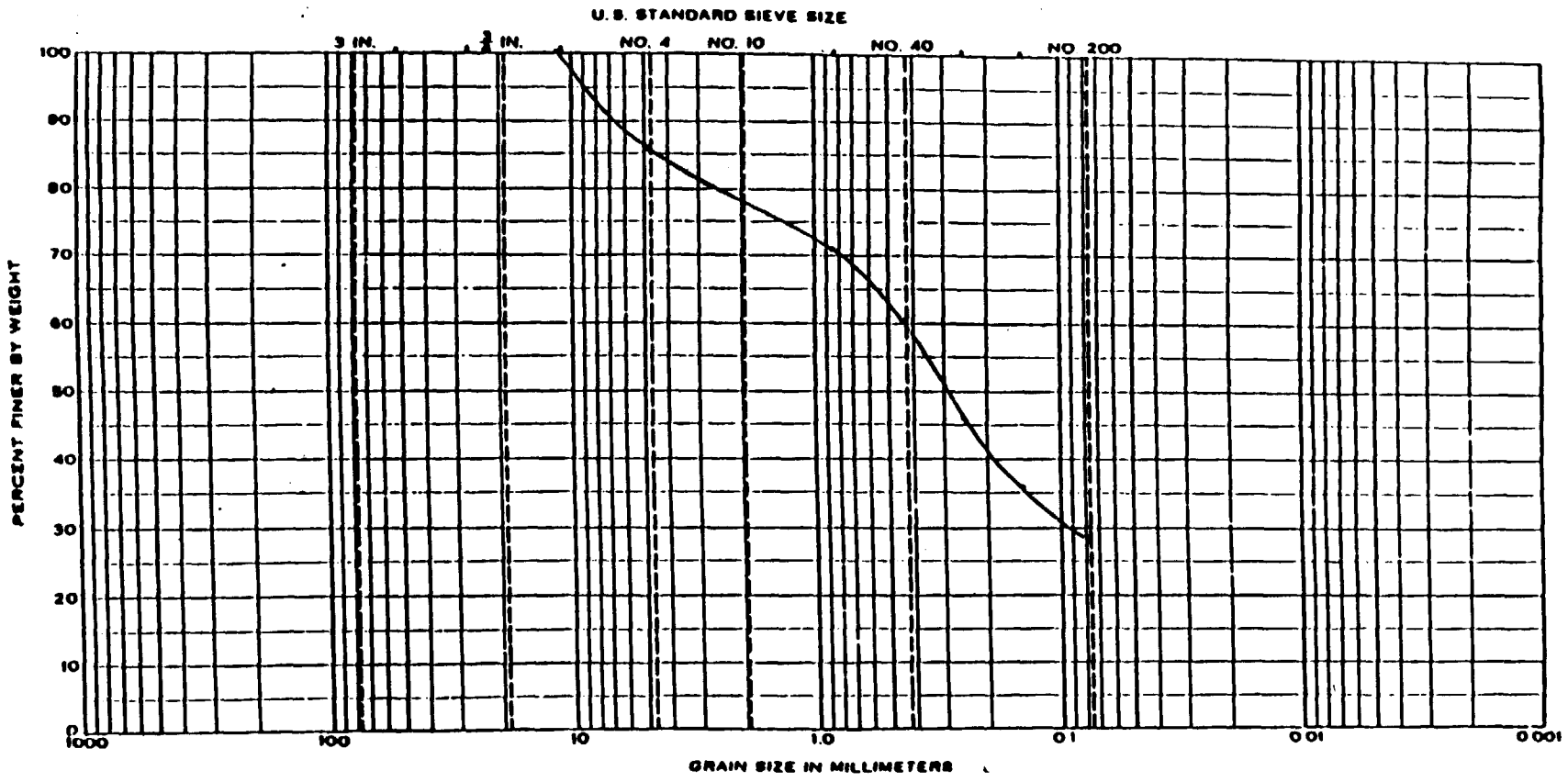


COBBLES	GRAVEL		SAND			SILT OR CLAY
	Coarse	Fine	Coarse	Medium	Fine	

Sample No.	Elev or Depth	Classification	Nat WC	LL	PL	PI
B-1 551	Unknown	C-F SAND & GRAVEL				

Project: Hart Environmental Mgmt.
Auto Ion
Michigan
Project No: 00083-00-00001-01
Date 2-5-88 JOB No. 88C235-01

GRADATION CURVES



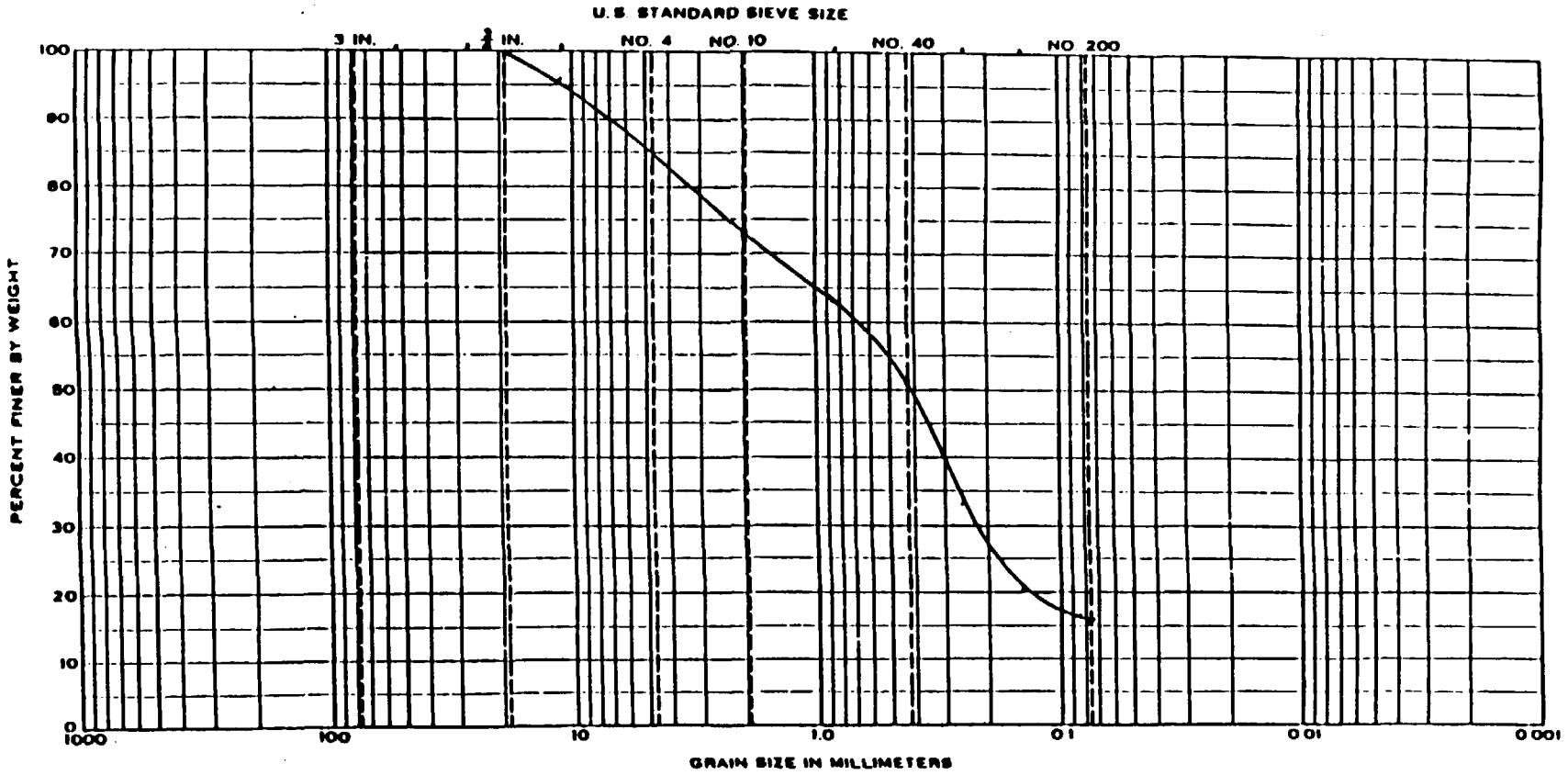
COBBLES	GRAVEL		SAND			SILT OR CLAY
	Coarse	Fine	Coarse	Medium	Fine	

Sample No.	Elev or Depth	Classification	Nat WC	LL	PL	PI
W-2 551	Unknown	F-C Silty SAND				

Project: Hart Environmental Mgmt.
Auto Ion
Michigan
Project No: 00083-00-00001-01
Date 2-5-88 JOB No. 88C235-01

GRADATION CURVES

J & L TESTING COMPANY INC



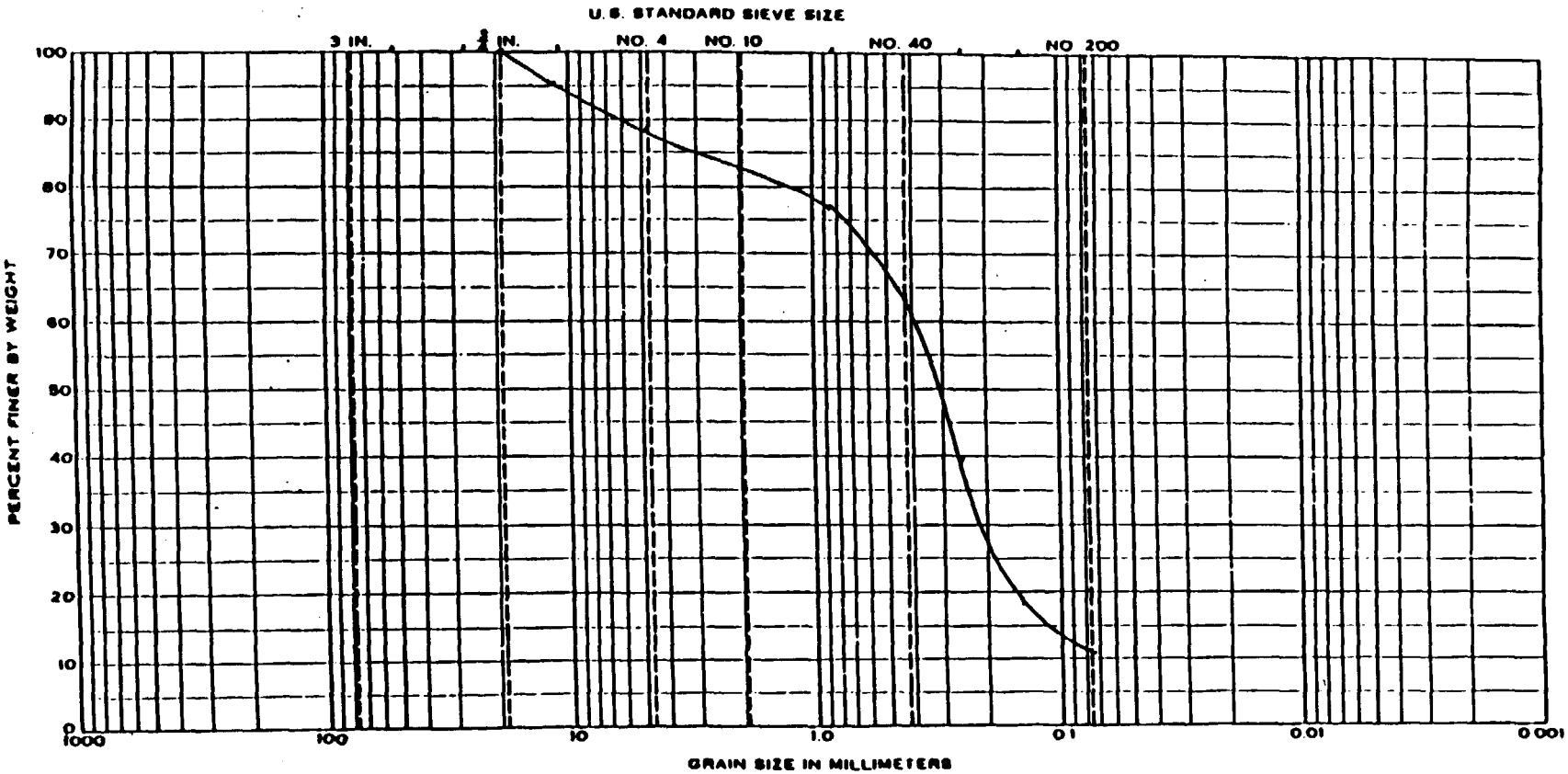
COBBLES	GRAVEL		SAND			SILT OR CLAY
	Coarse	Fine	Coarse	Medium	Fine	

Sample No.	Elev or Depth	Classification	Nat WC	LL	PL	PI
B-3 551	Unknown	Silty C-f SAND w/Tr F. Gravel				

Project: Hart Environmental Mgmt.
Auto Ion
Michigan
Project No: 00083-00-00001-01
Date: 2-5-88 JOB No. 88C235-01

GRADATION CURVES

J & L TESTING COMPANY, INC.



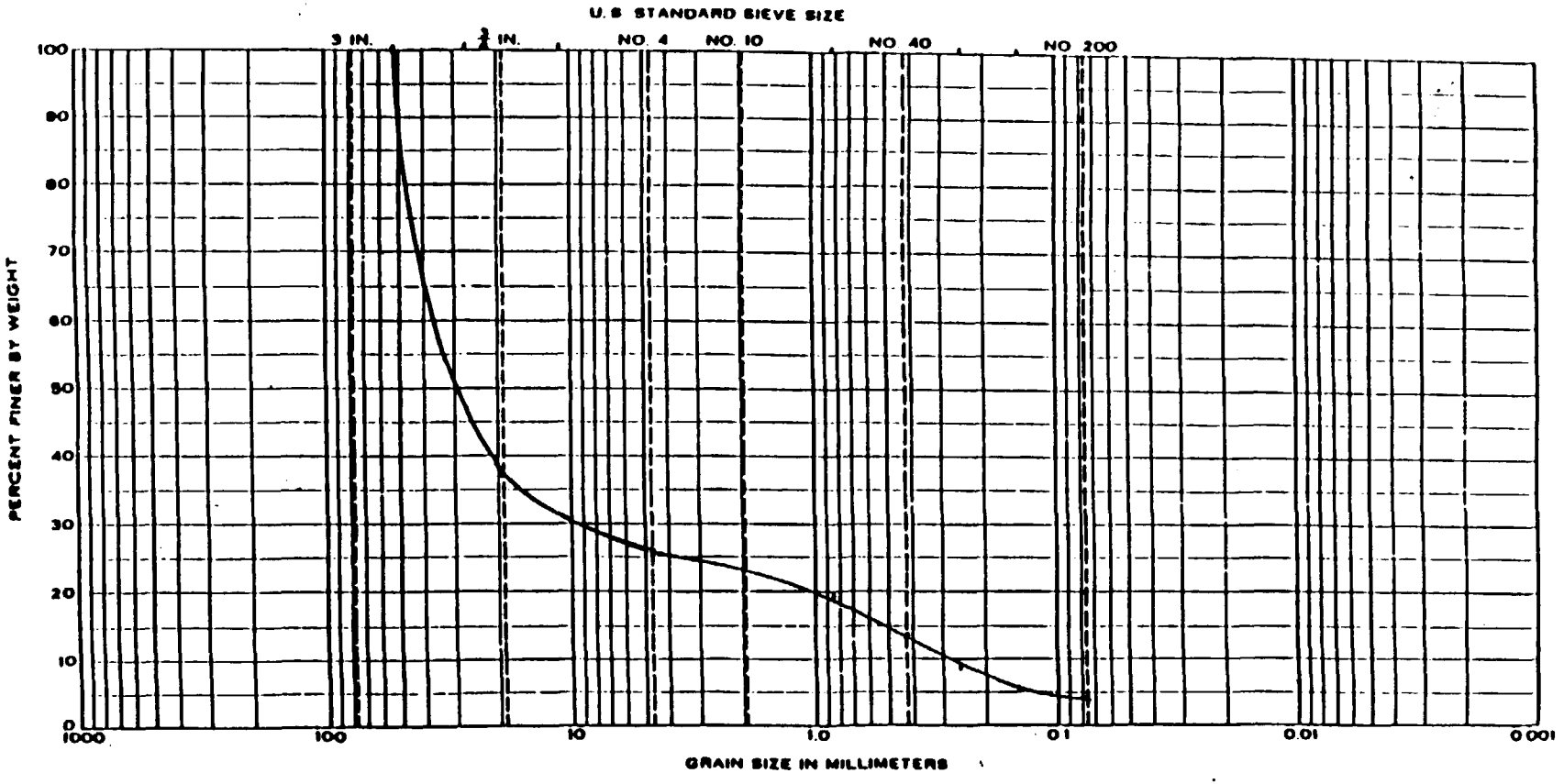
COBBLES	GRAVEL		SAND			SILT OR CLAY
	Coarse	Fine	Coarse	Medium	Fine	

Sample No.	Elev or Depth	Classification	Nat WC	LL	PL	PI
B-1 552	Unknown	Silty C-F SAND w/Some Gravel				

Project: Hart Environmental Mgmt.
Auto Ion
Michigan
Project No: 00083-00-00001-01
Date 2-5-88 JOB No. 88C235-01

GRADATION CURVES

J & L TESTING COMPANY, INC.

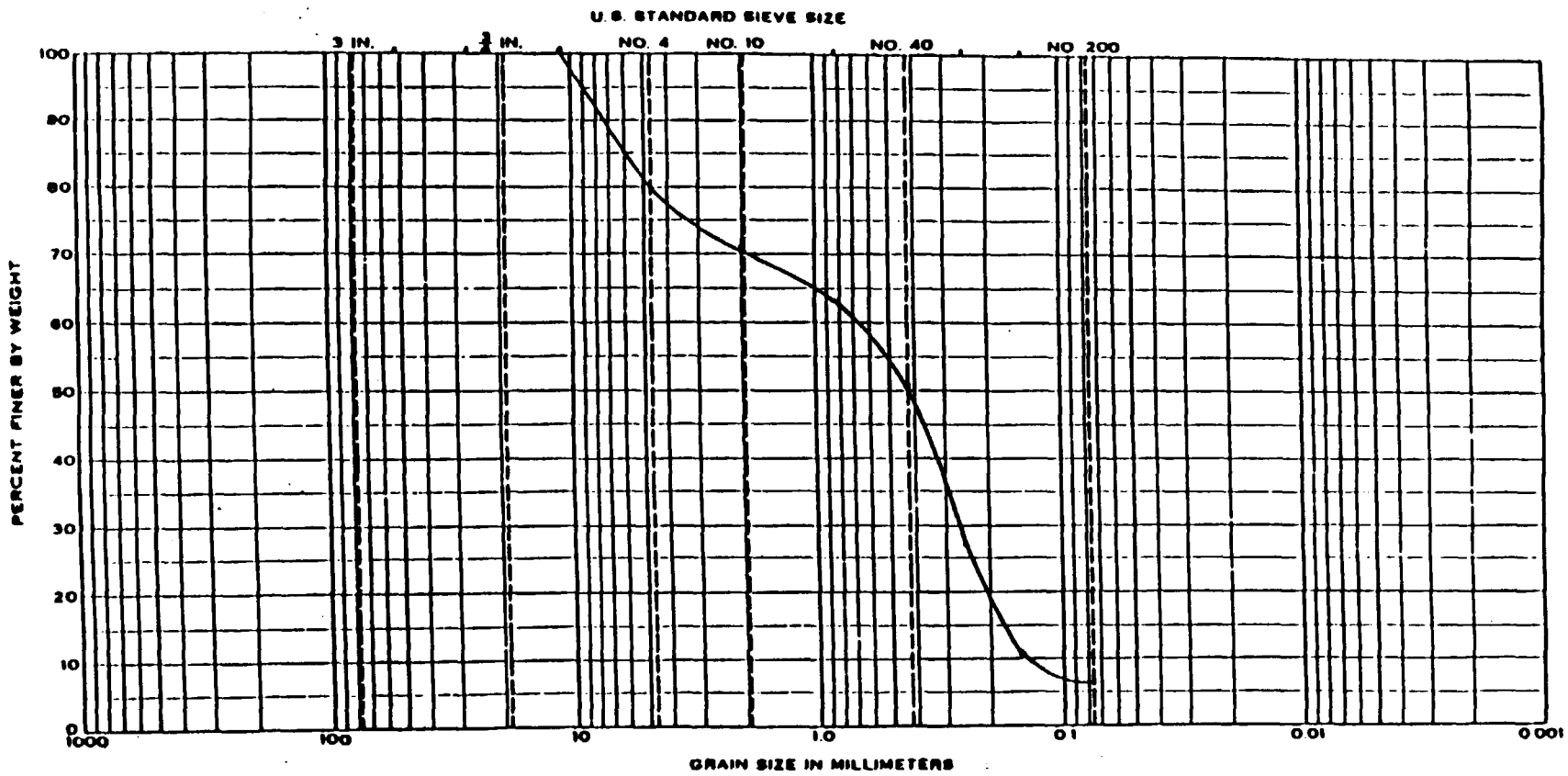


COBBLES	GRAVEL		SAND			SILT OR CLAY
	Coarse	Fine	Coarse	Medium	Fine	

Sample No.	Elev or Depth	Classification	Nat WC	LL	PL	PI
B-1 553	Unknown	Sandy GRAVEL				

Project: Hart Environmental Mgmt.
Auto Ion
Michigan
Project No: 00083-00-00001-01
Date 2-5-88 JOB No. 88C235-01

GRADATION CURVES



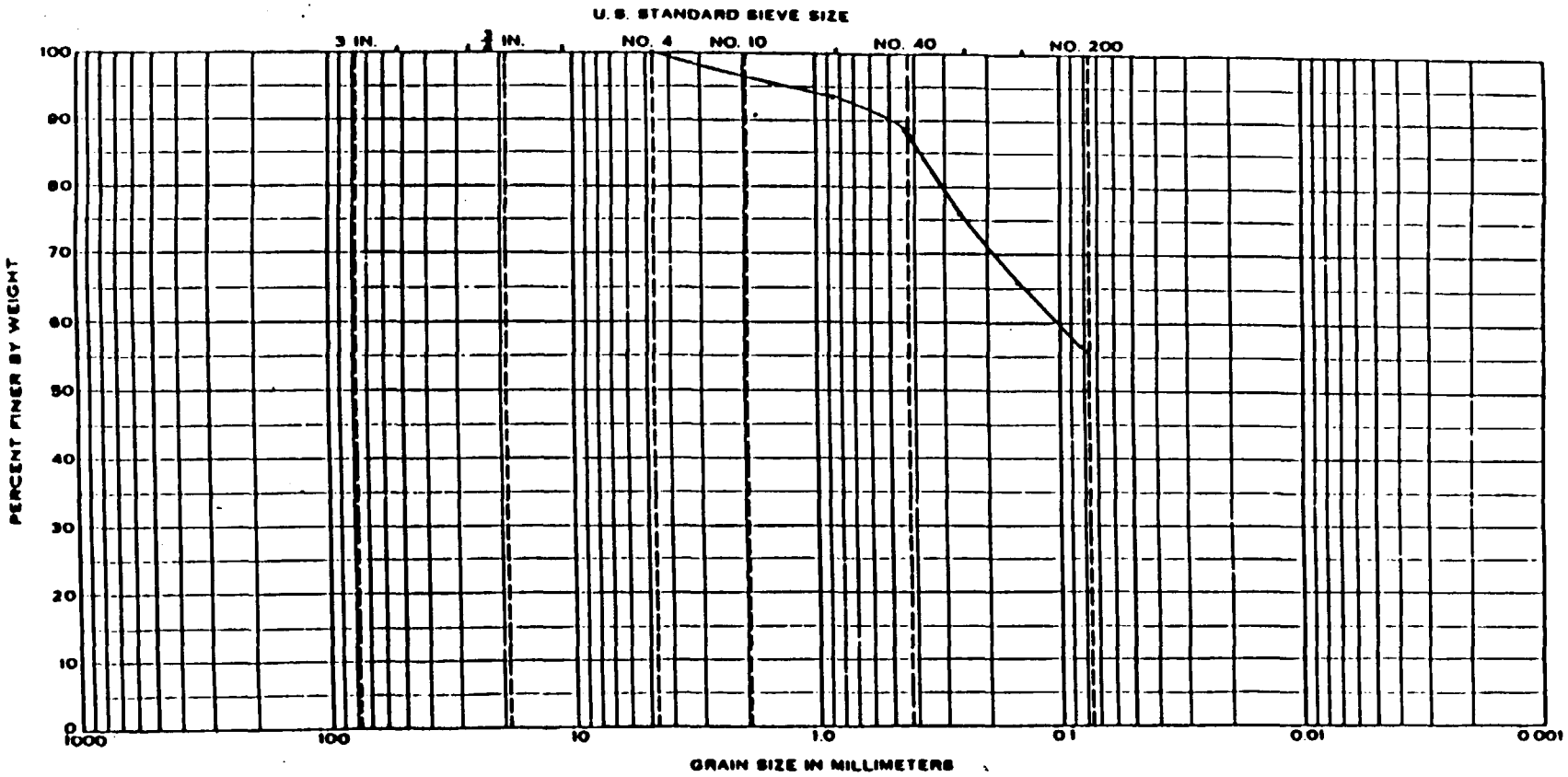
COBBLES	GRAVEL		SAND			SILT OR CLAY
	Coarse	Fine	Coarse	Medium	Fine	

Sample No.	Elev or Depth	Classification	Nat WC	LL	PL	PI
W-2 553	Unknown	F-C SAND w/Gravel				

Project: Hart Environmental Mgmt.
Auto Ion
Michigan
Project No: 00083-00-00001-01
Date 2-5-88 JOB No. 88C235-01

GRADATION CURVES

J & L TESTING COMPANY INC.



COBBLES	GRAVEL		SAND			SILT OR CLAY
	Coarse	Fine	Coarse	Medium	Fine	

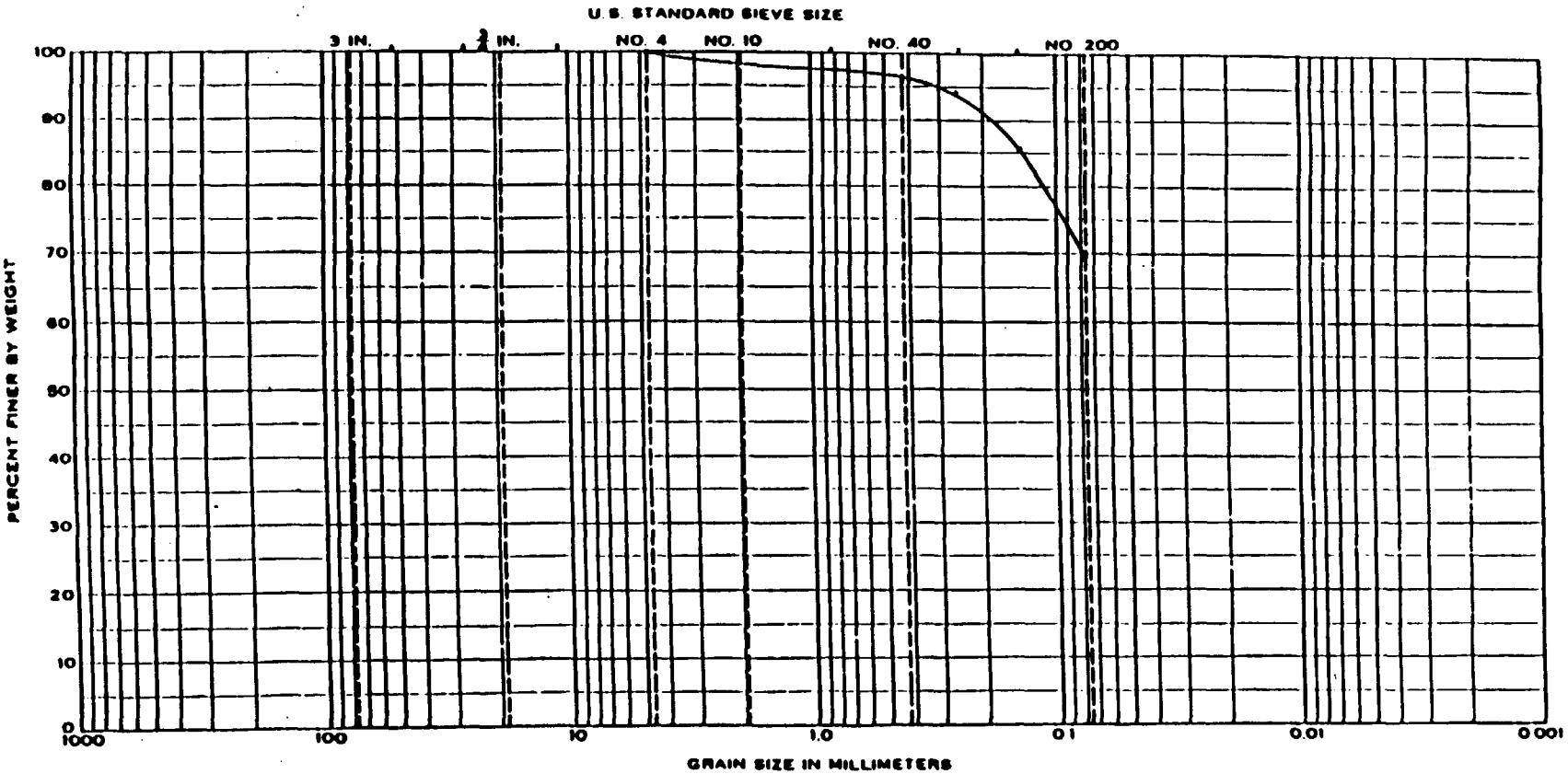
Sample No.	Elev or Depth	Classification	Nat WC	LL	PL	PI
B-1 556	Unknown	F-M Sandy SILT				

Project: Hart Environmental Mgmt.
Auto Ion
Michigan
Project No: 00083-00-00001-01

GRADATION CURVES

Date 2-5-88 JOB No. 88C235-01

J & L TESTING COMPANY INC



COBBLES	GRAVEL		SAND			SILT OR CLAY
	Coarse	Fine	Coarse	Medium	Fine	

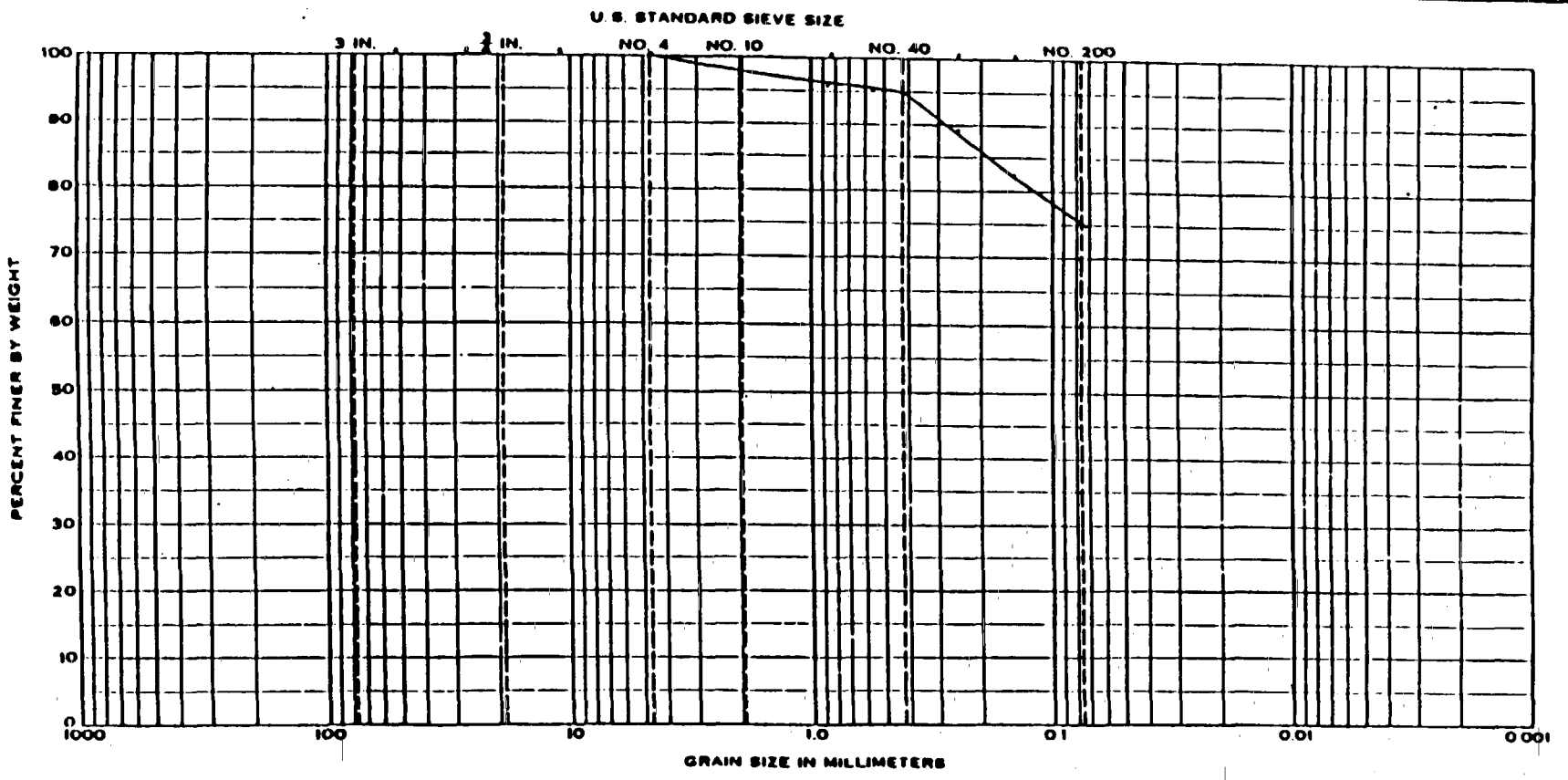
Sample No.	Elev or Depth	Classification	Nat WC	LL	PL	PI
B-2 556	Unknown	Sandy SILT/CLAY				

Project: Hart Environmental Mgmt.
Auto Ion
Michigan
Project No: 00083-00-00001-01

Date 2-5-88 JOB No. 88C235-01

GRADATION CURVES

J & L TESTING COMPANY INC



COBBLES	GRAVEL		SAND			SILT OR CLAY
	Coarse	Fine	Coarse	Medium	Fine	

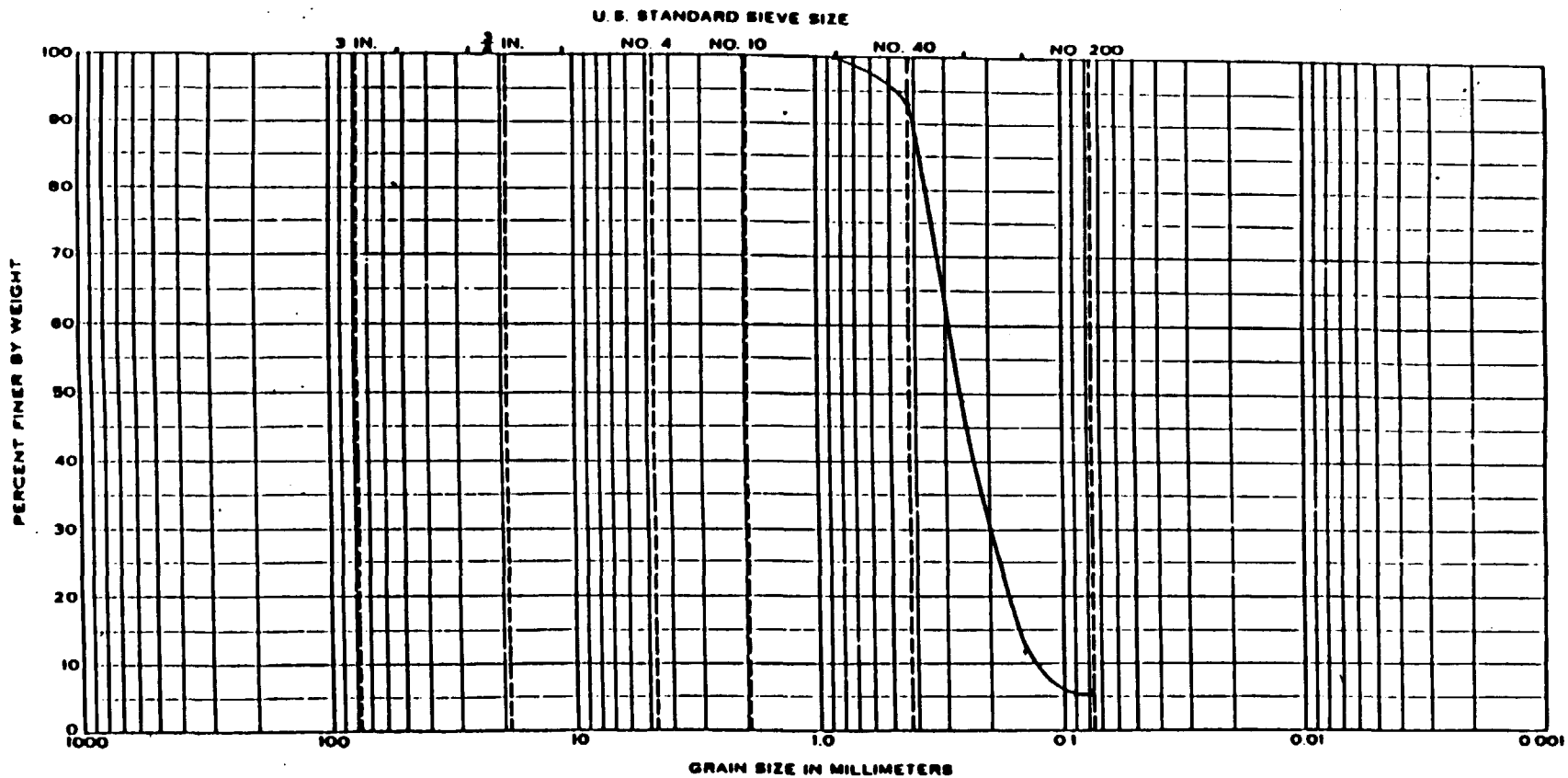
Sample No.	Elev or Depth	Classification	Nat WC	LL	PL	PI
B-1 557	Unknown	Sandy Silt/Clay				

Project Hart Environmental Mgmt.
Auto Ion
Michigan
Project No: 00083-00-00001-01

GRADATION CURVES

Date 2-5-88 JOB No. 88C235-01

J & L TESTING COMPANY INC



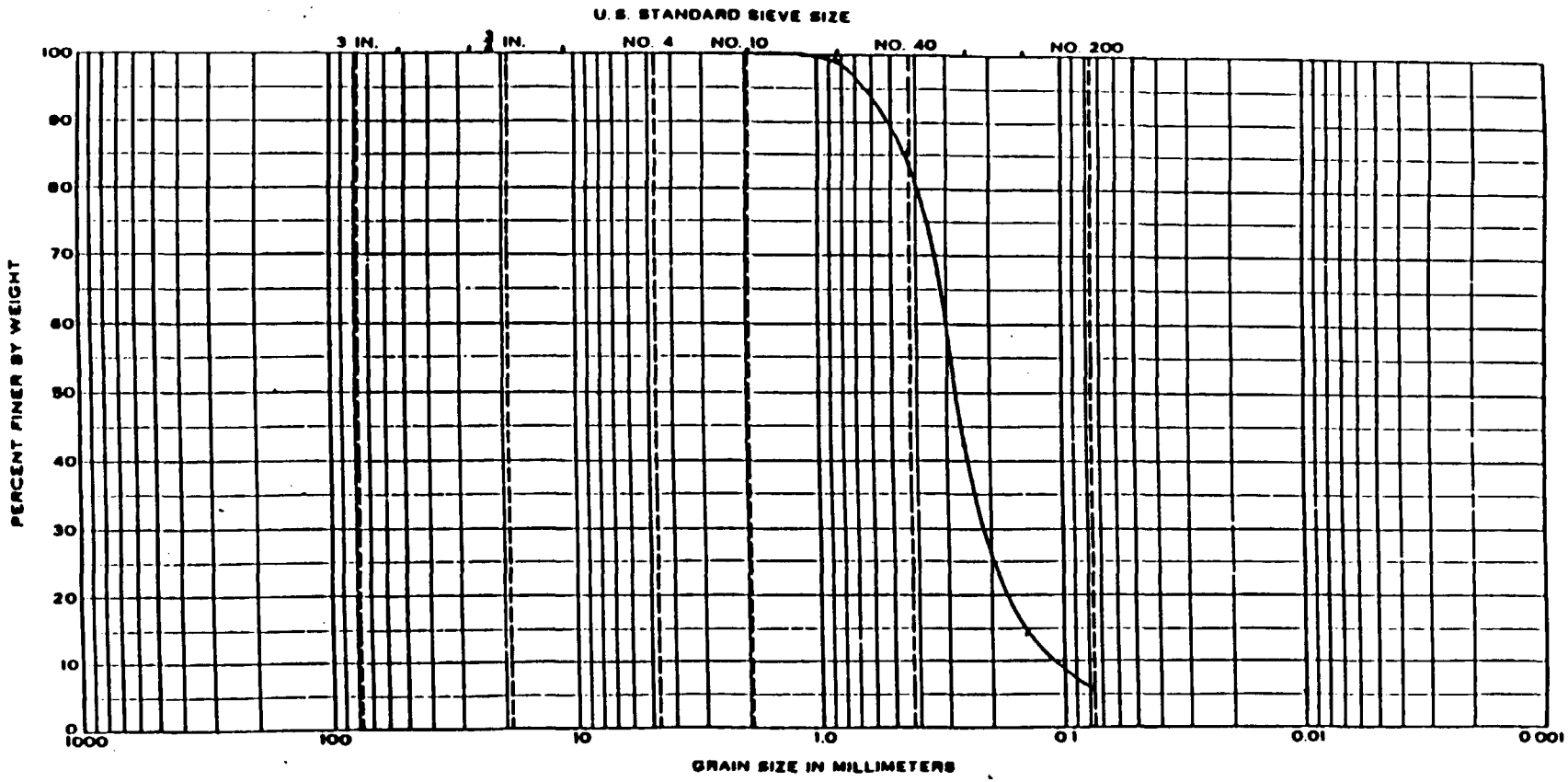
COBBLES	GRAVEL		SAND			SILT OR CLAY
	Coarse	Fine	Coarse	Medium	Fine	

Sample No.	Elev or Depth	Classification	NatWC	LL	PL	PI
W3-B 5510	Unknown	Fine SAND SP				

Project: Hart Environmental Mgmt.
Auto Ion
Michigan
Project No: 00083-00-00001-01
Date 2-5-88 JOB No. 88C235-01

GRADATION CURVES

J & L TESTING COMPANY INC



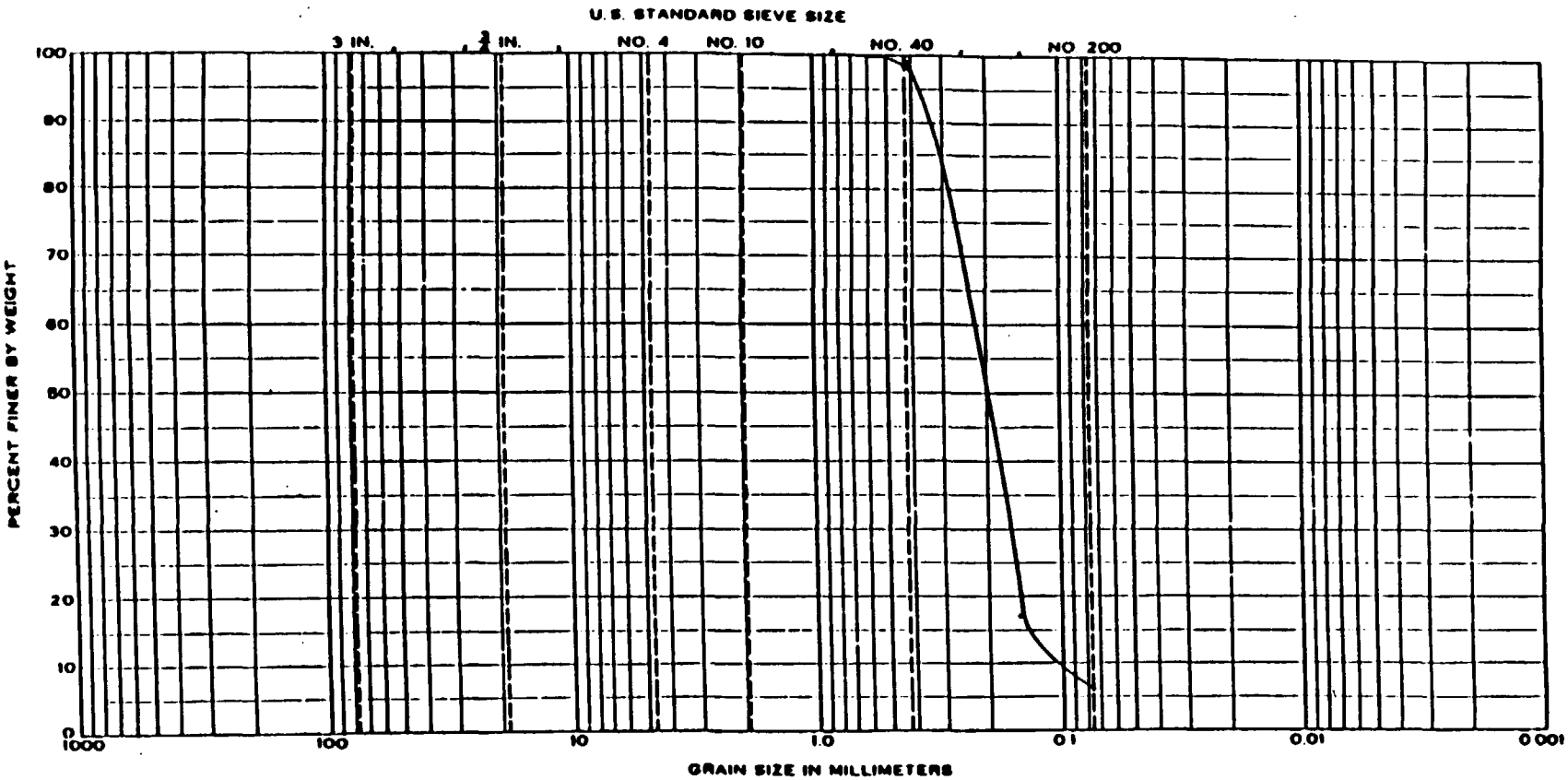
COBBLES	GRAVEL		SAND			SILT OR CLAY
	Coarse	Fine	Coarse	Medium	Fine	

Sample No.	Elev or Depth	Classification	Nat WC	LL	PL	PI
W3-B 5511	Unk	Fine -Medium SAND-SP				

Project: Hart Environmental Mgmt.
Auto Ion
Michigan
Project No: 00083-00-00001-01
Date 2-5-88 JOB No. 88C235-01

GRADATION CURVES

J & L TESTING COMPANY, INC.



COBBLES	GRAVEL		SAND			SILT OR CLAY
	Coarse	Fine	Coarse	Medium	Fine	

Sample No.	Elev or Depth	Classification		Nat WC	LL	PL	PI
W3-B 5512	Unknown	Fine SAND	SP				

Project: Hart Environmental Mgmt.
Auto Ion
Michigan
Project No: 00083-00-00001-01
Date 2-5-88 JOB No. 88C235-01

GRADATION CURVES

J & L TESTING COMPANY INC

CHAIN OF CUSTODY RECORD

FRED C. HART ASSOCIATES, INC.

HART

- 530 Fifth Avenue, New York, N.Y. 10036-5166 (212)840-3990
- 1110 Vermont Ave., N.W., Washington, D.C. 20005-3522 (202)223-5621
- Penn Center West III, Pittsburgh, PA. 15276-0001 (412)787-7144
- 296 Washington Ave. Ext., Albany, N.Y. 12203-1007 (518)869-6192
- 40 Ames Avenue, Meriden CT 06450-2943 (203)235-4557
- P.O. Box 8248, Cherry Hill, N.J. 08002-0248 (609)663-0440
- 2041 Business Center Drive, Irvine CA 92715 (714)476-8536

Rob McLeod
Hart Environmental Management
3000 Town Center, Suite 31
Southfield, MI 48075
313-358-0400

CLIENT NAME: Auto Zone SAMPLED BY: Harold Moritz

PROJECT NO.: 00083-00-00001-01 LAB NAME: J+L Testing Co. Inc.

SAMPLE IDENTIFICATION	DATE SAMPLED/TIME	NO. OF CONTAINERS	ANALYSIS REQUESTED/REMARKS
B2-SS3 Black clay	10-8-87	1	ASTM Standard Method
B3-SS4 Black clay	10-12-87		Designation D422-63 (72)
W5-SS5 Black clay	10-14-87		" "
B1-SS1 fill	10-8-87		" "
W2-SS1 fill	10-23-87		" "
B3-SS1 fill	10-8-87		" "
B1-SS2 brown sand	10-8-87		" "
B1-SS3 brown sand	10-8-87		" "
W2-SS3 brown sand	10-23-87		" "

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
R McLeod	1-26-88/1700	[illegible]	1/27/88

FINAL DISPOSITION OF SAMPLE(S):

SHIPMENT METHOD: In Storage

COMMENTS: These soils may be contaminated.

CHAIN OF CUSTODY RECORD

FRED C. HART ASSOCIATES, INC.

☐ 530 Fifth Avenue, New York, N.Y. 10036-5166 (212)840-3990
☐ 1110 Vermont Ave., N.W., Washington, D.C. 20005-3522 (202)223-5621
☐ Penn Center West III, Pittsburgh, PA. 15276-0001 (412)787-7144
☐ 296 Washington Ave. Ext., Albany, N.Y. 12203-1007 (518)869-6192
☐ 40 Ames Avenue, Meriden CT 06450-2943 (203)235-4557
☐ P.O. Box 8248, Cherry Hill, N.J. 08002-0248 (609)663-0440
☐ 2041 Business Center Drive, Irvine CA 92715 (714)476-8536

Rob McLeod
Hart Environmental Management
3000 Town Center, Suite 315
Southfield, MI 48075
313-358-0400

CLIENT NAME: Auto Zone SAMPLED BY: Harold Moritz

PROJECT NO.: 00083-00-00001-01 LAB NAME: J+L Testing Co. Inc.

SAMPLE IDENTIFICATION	DATE SAMPLED/TIME	NO. OF CONTAINERS	ANALYSIS REQUESTED/REMARKS
B1-SS6 grey clay	10-12-87		ASTM Standard Method Designation D422-63 (72)
B2-SS6 grey clay	10-13-87		" "
B1-SS7 grey clay	10-12-87		" "
W3b-SS10 grey sand	10-27-87		" "
W3b-SS11 grey sand	10-28-87		" "
W3b-SS12 grey sand	10-28-87		" "

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
[signature]	12-28-88 / 1700	[signature]	1/27/88

FINAL DISPOSITION OF SAMPLE(S):	SHIPMENT METHOD:
	Lockwood

COMMENTS: These soils may be contaminated.

APPENDIX C

LABORATORY DATA SHEETS FOR SOIL SAMPLES

(CL5177B/6)

FORM I

Client Sample No.
S-W-5-4b

Date: 1-6-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2379

SOW NO.: 785

LAB RECEIPT DATE: 10-14-87

LAB SAMPLE ID. NO.: F2379-11

QC REPORT NO.: FCH-06

Elements Identified and Measured
++++++++++++++++++++++++++++++

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	5762		13	Magnesium P	2174 E	J
2	Antimony P	14 UN	R	14	Manganese P	89 N	J
3	Arsenic F	36	R	15	Mercury	0.2 N*	J
4	Barium P	392		16	Nickel P	1521 N	J
5	Beryllium P	1.3 U		17	Potassium P	3361	
6	Cadmium P	[1.0]		18	Selenium F	0.5 U	
7	Calcium P	11400		19	Silver P	2.2 U	
8	Chromium P	1782 *		20	Sodium P	2554	
9	Cobalt P	[2.8]		21	Thallium F	5.0 U	
10	Copper P	1396		22	Vanadium P	21	
11	Iron P	25000		23	Zinc P	220 N	R
12	Lead P	833 *			Percent Solids (%)	80	
	Cyanide	574	J				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-W-5-5

Date: 1-6-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2379

SOW NO.: 785

LAB RECEIPT DATE: 10-14-87

LAB SAMPLE ID. NO.: F2379-12

QC REPORT NO.: FCH-06

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	4525		13	Magnesium P	5576 E	J
2	Antimony P	21 UN	R	14	Manganese P	1039 N	J
3	Arsenic F	20		15	Mercury	0.2 UN*	R
4	Barium P	76		16	Nickel P	35 N	J
5	Beryllium P	1.9 U		17	Potassium P	[688]	
6	Cadmium P	1.4 U		18	Selenium F	[1.8]s +	R
7	Calcium P	111000		19	Silver P	3.3 U	
8	Chromium P	33		20	Sodium P	[1196]	
9	Cobalt P	[4.6]		21	Thallium F	0.8 U	
10	Copper P	13		22	Vanadium P	[9.5]	
11	Iron P	21600		23	Zinc P	67 N	J
12	Lead F	7.6			Percent Solids (%)	52	
	Cyanide	24	J				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-W-S-6

Date: 01-09-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2414

SOW NO.: 785

LAB RECEIPT DATE: 10-16-87

LAB SAMPLE ID. NO.: F2414-10

QC REPORT NO.: FCH-08

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	3399 *		13	Magnesium P	17500	
2	Antimony P	13 UN	UJ	14	Manganese P	180	
3	Arsenic F	9.7 sN	J	15	Mercury	0.1 UN	
4	Barium P	[6.0]		16	Nickel P	155	
5	Beryllium P	1.2 U		17	Potassium P	[234]	
6	Cadmium P	0.9 U		18	Selenium F	0.5 UN	UJ
7	Calcium P	76000		19	Silver P	2.0 U	
8	Chromium F	200		20	Sodium P	[79]	
9	Cobalt P	[4.4]		21	Thallium F	0.5 U	
10	Copper P	74		22	Vanadium P	12	
11	Iron P	12600 *		23	Zinc P	106	
12	Lead F	5.1			Percent Solids (%)	86	
	Cyanide	0.2UN	UJ				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bo

FORM I

Client Sample No.
S-W-S-7

Date: 01-09-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2414

SOW NO.: 785

LAB RECEIPT DATE: 10-16-87

LAB SAMPLE ID. NO.: F2414-11

QC REPORT NO.: FCH-06

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	2517 *		13	Magnesium P	19900	
2	Antimony P	12 UN	UJ	14	Manganese P	277	
3	Arsenic F	7.2 N	J	15	Mercury	0.1 UN	
4	Barium P	[11]		16	Nickel P	68	
5	Beryllium P	1.1 U		17	Potassium P	[230]	
6	Cadmium P	0.8 U		18	Selenium F	0.4 UN	UJ
7	Calcium P	95300		19	Silver P	1.9 U	
8	Chromium P	107		20	Sodium P	[85]	
9	Cobalt P	[2.6]		21	Thallium F	0.4 U	
10	Copper P	35		22	Vanadium P	[7.7]	
11	Iron P	7590 *		23	Zinc P	66	
12	Lead F	3.6			Percent Solids (%)	94	
	Cyanide	0.2UN	UJ				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-W-6-1

Date: 01-03-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2414

SOW NO.: 785

LAB RECEIPT DATE: 10-16-87

LAB SAMPLE ID. NO.: F2414-01

QC REPORT NO.: FCH-06

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	4167 *		13	Magnesium P	6667
2	Antimony P	12 UN	UJ	14	Manganese P	225
3	Arsenic F	21 N	J	15	Mercury	0.1 UN
4	Barium P	102		16	Nickel P	54
5	Beryllium P	1.3		17	Potassium P	[354]
6	Cadmium P	1.2		18	Selenium F	2.0 N J
7	Calcium P	16300		19	Silver P	3.3
8	Chromium P	479		20	Sodium P	[201]
9	Cobalt P	[9.8]		21	Thallium F	0.4 U
10	Copper P	105		22	Vanadium P	15
11	Iron P	10600 *		23	Zinc P	60
12	Lead P	109			Percent Solids (%)	91
	Cyanide	74N	J			

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-W-6-2

Date: 01-09-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2414

SOW NO.: 785

LAB RECEIPT DATE: 10-16-87

LAB SAMPLE ID. NO.: F2414-02

QC REPORT NO.: FCH-08

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	4929 *		13	Magnesium P	3512	
2	Antimony P	12 UN	UJ	14	Manganese P	500	
3	Arsenic F	27 N	J	15	Mercury	0.2 N	J
4	Barium P	51		16	Nickel P	62	
5	Beryllium P	1.1		17	Potassium P	[323]	
6	Cadmium P	1.4		18	Selenium F	0.4 UNs	UJ
7	Calcium P	11400		19	Silver P	2.5	
8	Chromium P	150		20	Sodium P	[112]	
9	Cobalt P	[9.8]		21	Thallium F	0.4 U	
10	Copper P	50		22	Vanadium P	14	
11	Iron P	12000 *		23	Zinc P	71	
12	Lead F	61			Percent Solids (%)	90	
	Cyanide	0.2UN	R				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-W-6-3

Date: 01-09-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2414

SOW NO.: 785

LAB RECEIPT DATE: 10-16-87

LAB SAMPLE ID. NO.: F2414-03

QC REPORT NO.: FCH-08

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	7313 *		13	Magnesium P	1751
2	Antimony P	12 UN	UJ	14	Manganese P	237
3	Arsenic F	11 UN		15	Mercury	0.2 N J
4	Barium P	95		16	Nickel P	41
5	Beryllium P	1.7		17	Potassium P	[912]
6	Cadmium P	1.5		18	Selenium F	0.4 UNs+ UJ
7	Calcium P	17900		19	Silver P	1.9 U
8	Chromium P	157		20	Sodium P	[372]
9	Cobalt P	[9.0]		21	Thallium F	4.4 U
10	Copper P	69		22	Vanadium P	32
11	Iron P	31400 *		23	Zinc P	61
12	Lead P	38			Percent Solids (%)	91
	Cyanide	0.2UN	R			

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager: Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-W-6-4

Date: 01-09-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2414

SOW NO.: 785

LAB RECEIPT DATE: 10-16-87

LAB SAMPLE ID. NO.: F2414-04

QC REPORT NO.: FCH-08

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	4638 *		13	Magnesium P	[242]	
2	Antimony P	14 UN	UJ	14	Manganese P	30	
3	Arsenic F	11 s+N	R	15	Mercury	0.1 UN	
4	Barium P	222		16	Nickel P	484	
5	Beryllium P	1.4		17	Potassium P	1533	
6	Cadmium P	[0.9]		18	Selenium F	0.5 UN	UJ
7	Calcium P	1936		19	Silver P	2.9	
8	Chromium P	986		20	Sodium P	[580]	
9	Cobalt P	[7.4]		21	Thallium F	4.9 U	
10	Copper P	633		22	Vanadium P	29	
11	Iron P	25000 *		23	Zinc P	65	
12	Lead P	37			Percent Solids (%)	81	
	Cyanide	0.2UN	R				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Adcitional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

000006

FORM I

Client Sample No.
S-W-6-5

Date: 01-03-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2414

SDW NO.: 785

LAB RECEIPT DATE: 10-16-87

LAB SAMPLE ID. NO.: F2414-05

QC REPORT NO.: FCH-08

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	10600 *		13	Magnesium P	7309	
2	Antimony P	15 UN	UJ	14	Manganese P	826	
3	Arsenic F	15 N	J	15	Mercury	0.1 UN	
4	Barium P	566		16	Nickel P	31	
5	Beryllium P	1.4 U		17	Potassium P	[711]	
6	Cadmium P	[1.3]		18	Selenium F	1.4 U	UJ
7	Calcium P	57300		19	Silver P	2.4 U	
8	Chromium P	120		20	Sodium P	[492]	
9	Cobalt P	15		21	Thallium F	0.5 U	
10	Copper P	19		22	Vanadium P	31	
11	Iron P	46500 *		23	Zinc P	77	
12	Lead P	30			Percent Solids (%)	74	
	Cyanide	0.2UN	R				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-B-2-8

Date: 01-06-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2379

SOW NO.: 785

LAB RECEIPT DATE: 10-14-87

LAB SAMPLE ID. NO.: F2379-03

QC REPORT NO.: FCH-06

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	11700		13	Magnesium P	7809 E	J
2	Antimony P	16 UN	R	14	Manganese P	1352 N	J
3	Arsenic F	20 s		15	Mercury	0.2 UN*	R
4	Barium P	152		16	Nickel P	89 N	J
5	Beryllium P	1.5 U		17	Potassium P	2371	
6	Cadmium P	1.1 U		18	Selenium F	0.6 U	
7	Calcium P	41200		19	Silver P	2.6 U	
8	Chromium P	535		20	Sodium P	5339	
9	Cobalt P	[8.6]		21	Thallium F	0.6 U	
10	Copper P	119		22	Vanadium P	30	
11	Iron P	63700		23	Zinc P	145 N	J
12	Lead F	23 s			Percent Solids (%)	68	
	Cyanide	4.4	J				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

000005

FORM I

Client Sample No.
S-B-3-1

Date: 11-23-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2348

SOW NO.: 785

LAB RECEIPT DATE: 10-08-87

LAB SAMPLE ID. NO.: F2348-10

QC REPORT NO.: FCH-82

Elements Identified and Measured
++++++++++++++++++++++++++++++++

Concentration: L

Matrix: Soil

SOME DATA INCORRECTLY REPORTED. CORRECTIONS MADE FROM RAW DATA

mg/kg dry weight

1	Aluminum P	4083		13	Magnesium P	~~10 U~~ E* 5200	J
2	Antimony P	9.2 UN		14	Manganese P	~~1.3 U~~ 310	
3	Arsenic F	9.7 s		15	Mercury	0.2	
4	Barium P	~~1.6 U~~ 68		16	Nickel P	~~1.8 UE~~ 16	J
5	Beryllium P	0.8 U		17	Potassium P	~~16 U~~ 360	
6	Cadmium P	0.6 U		18	Selenium F	3.4 EU	
7	Calcium P	~~12 U~~ 32400		19	Silver P	1.5 U	
8	Chromium P	~~0.7 U*E~~ 17	J	20	Sodium P	~~12 U~~ [75]	
9	Cobalt P	1.7 U		21	Thallium F	0.3 U	
10	Copper P	~~1.0 U~~ 24		22	Vanadium P	~~0.5 U~~ 12	
11	Iron P	~~10 U~~ 1000		23	Zinc P	~~1.5 UE~~ 49	J
12	Lead F	42 +s	J		Percent Solids (%)	90	
	Cyanide	0.36	J				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-B-3-2

Date: 11-23-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2348

SOW NO.: 785

LAB RECEIPT DATE: 10-08-87

LAB SAMPLE ID. NO.: F2348-11

QC REPORT NO.: FCH-02

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	3424		13	Magnesium P	10600 *E	J
2	Antimony P	11 UN		14	Manganese P	239	
3	Arsenic F	3.8		15	Mercury	0.1 U	
4	Barium P	52		16	Nickel P	12 E	J
5	Beryllium P	1.0 U		17	Potassium P	[593]	
6	Cadmium P	1.0		18	Selenium F	0.4 U	
7	Calcium P	33000		19	Silver P	1.7 U	
8	Chromium P	15 *E	J	20	Sodium P	[191]	
9	Cobalt P	[3.4]		21	Thallium F	0.4 U	
10	Copper P	16		22	Vanadium P	11	
11	Iron P	8023		23	Zinc P	42 E	J
12	Lead F	24 *s	J		Percent Solids (%)	93 .	
	Cyanide	0.63	J				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-B-3-3A

Date: 11-23-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2348

SOW NO.: 785

LAB RECEIPT DATE: 10-08-87

LAB SAMPLE ID. NO.: F2348-12

QC REPORT NO.: FCH-02

Elements Identified and Measured
++++++++++++++++++++++++++++++

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	2590	
2	Antimony P	12 UN	
3	Arsenic F	3.8	
4	Barium P	[33]	
5	Beryllium P	1.1 U	
6	Cadmium P	0.8 U	
7	Calcium P	16600	
8	Chromium P	7.4 *E	J
9	Cobalt P	[2.3]	
10	Copper P	11	
11	Iron P	7780	
12	Lead F	18 *s+	J
	Cyanide	0.83	J
13	Magnesium P	6722 *E	J
14	Manganese P	200	
15	Mercury	0.1 U	
16	Nickel P	[6.9]E	J
17	Potassium P	2570	
18	Selenium F	0.4 U	
19	Silver P	1.8 U	
20	Sodium P	[90]	
21	Thallium F	0.4 U	
22	Vanadium P	[8.0]	
23	Zinc P	36 E	J
	Percent Solids (%)	91	

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-B-3-3B

Date: 11-23-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2348

SOW NO.: 785

LAB RECEIPT DATE: 10-08-87

LAB SAMPLE ID. NO.: F2348-13

QC REPORT NO.: FCH-02

Elements Identified and Measured
##########################

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	3127		13	Magnesium P	7084 *E	J
2	Antimony P	9.3 UN		14	Manganese P	254	
3	Arsenic F	4.8		15	Mercury	0.1 U	
4	Barium P	47		16	Nickel P	8.7 E	J
5	Beryllium P	0.8 U		17	Potassium P	[334]	
6	Cadmium P	0.6 U		18	Selenium F	0.3 U	
7	Calcium P	19500		19	Silver P	1.5 U	
8	Chromium P	9.3 *E	J	20	Sodium P	[98]	
9	Cobalt P	[2.7]		21	Thallium F	0.3 U	
10	Copper P	12		22	Vanadium P	11	
11	Iron P	9790		23	Zinc P	38 E	J
12	Lead F	19 *s	J		Percent Solids (%)	91	
	Cyanide	0.73	J				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-B-3-4

Date: 11-23-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2348

SOW NO.: 785

LAB RECEIPT DATE: 10-08-87

LAB SAMPLE ID. NO.: F2348-14

QC REPORT NO.: FCH-02

Elements Identified and Measured
++++++++++++++++++++++++++++++++

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	11700		13	Magnesium P	2663 *E	J
2	Antimony P	11 UN		14	Manganese P	168	
3	Arsenic F	10		15	Mercury	0.1 U	
4	Barium P	122		16	Nickel P	9.6 E	J
5	Beryllium P	1.0 U		17	Potassium P	[416]	
6	Cadmium P	0.7 U		18	Selenium F	[0.8]	
7	Calcium P	4537		19	Silver P	1.7 U	
8	Chromium P	21 *E	J	20	Sodium P	[153]	
9	Cobalt P	[4.0]		21	Thallium F	0.4 U	
10	Copper P	12		22	Vanadium P	31	
11	Iron P	32400		23	Zinc P	67 E	J
12	Lead F	12 *	J		Percent Solids (%)	83	
	Cyanide	0.24 U	UJ				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-B-3-5

Date: 11-23-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2348

SDW NO.: 785

LAB RECEIPT DATE: 10-08-87

LAB SAMPLE ID. NO.: F2348-15

QC REPORT NO.: FCH-02

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	1817		13	Magnesium P	11700 *E	J
2	Antimony P	12 UN		14	Manganese P	76	
3	Arsenic F	11 s		15	Mercury	0.1 U	
4	Barium P	[7.9]		16	Nickel P	30 E	J
5	Beryllium P	1.0 U		17	Potassium P	[159]	
6	Cadmium P	0.8 U		18	Selenium F	0.4 U	
7	Calcium P	28400		19	Silver P	1.8 U	
8	Chromium P	7.5 *E	J	20	Sodium P	[90]	
9	Cobalt P	[4.2]		21	Thallium F	0.4 U	
10	Copper P	22		22	Vanadium P	[8.6]	
11	Iron P	6709		23	Zinc P	27 E	J
12	Lead F	2.1 *	J		Percent Solids (%)	89 *	
	Cyanide	0.22 U	R				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-6-3-6

Date: 12-26-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2364

SOW NO.: 785

LAB RECEIPT DATE: 10-13-87

LAB SAMPLE ID. NO.: F2364-01

QC REPORT NO.: FCH-05

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	1349	13	Magnesium P	7558
2	Antimony P	14 U	14	Manganese P	76
3	Arsenic F	1.3 U	15	Mercury	0.1 U
4	Barium P	2.4 U	16	Nickel P	37
5	Beryllium P	1.3 U	17	Potassium P	[26]
6	Cadmium P	0.9 U	18	Selenium F	0.5 UN WJ
7	Calcium P	26600	19	Silver P	2.2 U
8	Chromium P	15	20	Sodium P	[79]
9	Cobalt P	2.5 U	21	Thallium F	0.5 U
10	Copper P	29	22	Vanadium P	0.7 U
11	Iron P	3739	23	Zinc P	29
12	Lead F	1.3 UN		Percent Solids (%)	79
	Cyanide	0.26 U			

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

00031

FORM I

Client Sample No.
S-B-3-6

Date: 12-26-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2364

SOW NO.: 785

LAB RECEIPT DATE: 10-12-87

LAB SAMPLE ID. NO.: F2364-02

QC REPORT NO.: FCH-05

Elements identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	930		13	Magnesium P	5556	
2	Antimony P	13 U		14	Manganese P	55	
3	Arsenic F	1.2 U		15	Mercury	0.1 U	
4	Barium P	2.2 U		16	Nickel P	[4.8]	
5	Beryllium P	1.2 U		17	Potassium P	[75]	
6	Cadmium P	0.9 U		18	Selenium F	0.5 UN	UJ
7	Calcium P	16800		19	Silver P	2.1 U	
8	Chromium P	40		20	Sodium P	[115]	
9	Cobalt P	2.4 U		21	Thallium F	0.5 U	
10	Copper P	1.4 U		22	Vanadium P	0.7 U	
11	Iron P	2059		23	Zinc P	7.5	
12	Lead F	[1.0]N	J		Percent Solids (%)	63	
	Cyanide	0.24 U					

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

000002

FORM I

Client Sample No.
S-B-3-9

Date: 12-28-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2364

SOW NO.: 785

LAB RECEIPT DATE: 10-12-87

LAB SAMPLE ID. NO.: F2364-03

QC REPORT NO.: FCH-05

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	779		13	Magnesium P	5688
2	Antimony P	13 U		14	Manganese P	47
3	Arsenic F	1.2 U		15	Mercury	0.1 U
4	Barium P	2.2 U		16	Nickel P	2.6 U
5	Beryllium P	1.2 U		17	Potassium P	[45]
6	Cadmium P	0.9 U		18	Selenium F	0.5 UN UJ
7	Calcium P	19300		19	Silver P	2.1 U
8	Chromium P	15		20	Sodium P	[105]
9	Cobalt P	2.4 U		21	Thallium F	0.5 U
10	Copper P	[1.4]		22	Vanadium P	0.6 U
11	Iron P	2024		23	Zinc P	7.6
12	Lead F	1.7 N	J		Percent Solids (%)	84
	Cyanide	0.22 U				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-B-3-10

Date: 12-28-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2364

SOW NO.: 785

LAB RECEIPT DATE: 10-12-87

LAB SAMPLE ID. NO.: F2364-04

QC REPORT NO.: FCH-05

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	706		13	Magnesium P	6690	
2	Antimony P	13 U		14	Manganese P	49	
3	Arsenic F.	1.2 U		15	Mercury	0.1 U	
4	Barium P	2.2 U		16	Nickel P	2.6 U	
5	Beryllium P	1.2 U		17	Potassium P	24 U	
6	Cadmium P	0.9 U		18	Selenium F	0.5 UN	UJ
7	Calcium P	21900		19	Silver P	2.1 U	
8	Chromium P	10		20	Sodium P	[138]	
9	Cobalt P	2.4 U		21	Thallium F	0.5 U	
10	Copper P	1.4 U		22	Vanadium P	0.6 U	
11	Iron P	2124		23	Zinc P	9.6	
12	Lead F	[1.2]sN	J		Percent Solids (%)	83	
	Cyanide	0.22 U					

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

000X

FORM I

Client Sample No.
S-E-3-11

Date: 12-28-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2364

SOW NO.: 785

LAB RECEIPT DATE: 10-12-87

LAB SAMPLE ID. NO.: F2364-05

QC REPORT NO.: FCH-05

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	799	13	Magnesium P	7236
2	Antimony P	13 U	14	Manganese P	52
3	Arsenic F	1.2 U	15	Mercury	0.1 U
4	Barium P	2.2 U	16	Nickel P	2.6 U
5	Beryllium P	1.2 U	17	Potassium P	[25]
6	Cadmium P	0.9 U	18	Selenium F	0.5 UN WS
7	Calcium P	24300	19	Silver P	2.1 U
8	Chromium P	10	20	Sodium P	[102]
9	Cobalt P	2.4 U	21	Thallium F	0.5 U
10	Copper P	[1.9]	22	Vanadium P	0.6 U
11	Iron P	2123	23	Zinc P	6.2
12	Lead F	4.7 UEN		Percent Solids (%)	84
	Cyanide	0.21 U			

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager: Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-B-3-12

Date: 12-28-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2364

SOW NO.: 785

LAB RECEIPT DATE: 10-12-87

LAB SAMPLE ID. NO.: F2364-06

QC REPORT NO.: FCH-05

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	1100	13	Magnesium P	7134
2	Antimony P	13 U	14	Manganese P	75
3	Arsenic F	1.2 U	15	Mercury	0.1 U
4	Barium P	[4.0]	16	Nickel P	3.6 U
5	Beryllium P	1.2 U	17	Potassium P	[53]
6	Cadmium P	0.9 U	18	Selenium F	0.5 UN UJ
7	Calcium P	24600	19	Silver P	2.1 U
8	Chromium P	11	20	Sodium P	[145]
9	Cobalt P	2.4 U	21	Thallium F	0.5 U
10	Copper P	1.3 U	22	Vanadium P	0.6 U
11	Iron P	3148	23	Zinc P	6.8
12	Lead F	[0.9]sN J		Percent Solids (%)	85
	Cyanide	0.20 U			

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-B-3-13

Date: 12-26-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2364

SOW NO.: 785

LAB RECEIPT DATE: 10-12-87

LAB SAMPLE ID. NO.: F2364-07

QC REPORT NO.: FCH-05

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	1017	13	Magnesium P	9565
2	Antimony P	13 U	14	Manganese P	79
3	Arsenic F	1.2 U	15	Mercury	2.0
4	Barium P	2.2 U	16	Nickel P	10
5	Beryllium P	1.2 U	17	Potassium P	[71]
6	Cadmium P	0.9 U	18	Selenium F	0.5 UN UJ
7	Calcium P	25900	19	Silver P	2.1 U
8	Chromium P	59	20	Sodium P	[62]
9	Cobalt P	2.4 U	21	Thallium F	0.5 U
10	Copper P	7.9	22	Vanadium P	0.6 U
11	Iron P	2681	23	Zinc P	21
12	Lead F	[1.0]sN J		Percent Solids (%)	84
	Cyanide	0.24 U			

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager: Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-B-3-14

Date: 12-28-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2364

SOW NO.: 785

LAB RECEIPT DATE: 10-12-87

LAB SAMPLE ID. NO.: F2364-08

QC REPORT NO.: FCH-05

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	709	13	Magnesium P	7418
2	Antimony P	13 U	14	Manganese P	68
3	Arsenic F	1.2 U	15	Mercury	0.6
4	Barium P	2.2 U	16	Nickel P	[5.1]
5	Beryllium P	1.2 U	17	Potassium P	[26]
6	Cadmium P	0.9 U	18	Selenium F	0.5 UN US
7	Calcium P	22900	19	Silver P	2.1 U
8	Chromium P	9.2	20	Sodium P	[77]
9	Cobalt P	2.4 U	21	Thallium F	0.5 U
10	Copper P	1.4 U	22	Vanadium P	0.7 U
11	Iron P	2215	23	Zinc P	15*
12	Lead F	[1.2]sN J		Percent Solids (%)	83
	Cyanide	0.23 U			

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-B-3-15

Date: 10-26-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2364

SDW NO.: 785

LAB RECEIPT DATE: 10-12-87

LAB SAMPLE ID. NO.: F2364-09

QC REPORT NO.: FCH-05

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	818	13	Magnesium P	7135
2	Antimony P	13 U	14	Manganese P	65
3	Arsenic F	1.2 U	15	Mercury	0.1 U
4	Barium P	[2.4]	16	Nickel P	2.7 U
5	Beryllium P	1.2 U	17	Potassium P	[68]
6	Cadmium P	0.9 U	18	Selenium F	0.5 UN UJ
7	Calcium P	20000	19	Silver P	2.1 U
8	Chromium P	12	20	Sodium P	[72]
9	Cobalt P	2.4 U	21	Thallium F	0.5 U
10	Copper P	1.4 U	22	Vanadium P	0.7 U
11	Iron P	2191	23	Zinc P	6.6
12	Lead F	1.2 UN		Percent Solids (%)	82
	Cyanide	0.24 U			

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-B-3-16

Date: 12-28-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2364

SOW NO.: 785

LAB RECEIPT DATE: 10-12-87

LAB SAMPLE ID. NO.: F2364-10

QC REPORT NO.: FCH-05

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	717	13	Magnesium P	6540
2	Antimony P	13 U	14	Manganese P	57
3	Arsenic F	1.2 U	15	Mercury	0.1 U
4	Barium P	[3.8]	16	Nickel P	16
5	Beryllium P	1.2 U	17	Potassium P	[176]
6	Cadmium P	[1.1]	18	Selenium F	0.5 UN UJ
7	Calcium P	21200	19	Silver P	[2.1]
8	Chromium P	18	20	Sodium P	[99]
9	Cobalt P	[4.5]	21	Thallium F	0.5 U
10	Copper P	[4.3]	22	Vanadium P	[6.0]
11	Iron P	1943	23	Zinc P	7.6
12	Lead F	[1.0]sN J		Percent Solids (%)	84
	Cyanide	0.24 U			

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

00001

FORM I

Client Sample No.
S-B-3-17

Date: 01-06-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2379

SOW NO.: 785

LAB RECEIPT DATE: 10-14-87

LAB SAMPLE ID. NO.: F2379-04

QC REPORT NO.: FCH-06

Elements Identified and Measured
++++++++++++++++++++++++++++++++

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	2141		13	Magnesium P	12500 E	J
2	Antimony P	11 UN	R	14	Manganese P	221 N	J
3	Arsenic F	0.8 U		15	Mercury	0.1 N*	J
4	Barium P	[3.3]		16	Nickel P	27 N *	J
5	Beryllium P	1.0 U		17	Potassium P	[238]	
6	Cadmium P	0.8 U		18	Selenium F	0.4 Us	
7	Calcium P	91200		19	Silver P	1.8 U	
8	Chromium P	174		20	Sodium P	[209]	R
9	Cobalt P	[2.3]		21	Thallium F	0.4 U	
10	Copper P	12		22	Vanadium P	[5.8]	
11	Iron P	7223		23	Zinc P	106 N	J
12	Lead F	5.0			Percent Solids (%)	96	
	Cyanide	3.2	J				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

000006

FORM I

Client Sample No.
S-8-4-1

Date: 01-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2429

SOW NO.: 785

LAB RECEIPT DATE: 10-17-87

LAB SAMPLE ID. NO.: F2429-14

QC REPORT NO.: FCH-11

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	3005 *		13	Magnesium P	15100 E	J
2	Antimony P	11 UN	R	14	Manganese P	299 N*	J
3	Arsenic F	5.7 sN	J	15	Mercury	0.1 U	UJ
4	Barium P	[21] N	J	16	Nickel P	13 N	J
5	Beryllium P	1.0 U		17	Potassium P	[279]	
6	Cadmium P	0.8 U		18	Selenium F	0.4 UN	UJ
7	Calcium P	51400 *		19	Silver P	1.8 U	
8	Chromium P	25 *		20	Sodium P	[46]	
9	Cobalt P	[3.4]		21	Thallium F	0.4 UN	UJ
10	Copper P	13		22	Vanadium P	17	
11	Iron P	13600 *		23	Zinc P	29 *NE	J
12	Lead F	8.7 s			Percent Solids (%)	94	
	Cyanide	3.0 N	J				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-8-4-2

Date: 31-37-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2429

SOW NO.: 785

LAB RECEIPT DATE: 10-17-87

LAB SAMPLE ID. NO.: F2429-22

QC REPORT NO.: FCH-11

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	1734 *		13	Magnesium P	27000 E	J
2	Antimony P	10 UN	R	14	Manganese P	138 N*	J
3	Arsenic F	3.8 N	J	15	Mercury	[0.1]	J
4	Barium P	[9.2]N	J	16	Nickel P	12 N	J
5	Beryllium P	0.9 U		17	Potassium P	[153]	
6	Cadmium P	0.7 U		18	Selenium F	0.4 UN	UJ
7	Calcium P	72100 *		19	Silver P	1.6 U	
8	Chromium P	18 *		20	Sodium P	[58]	
9	Cobalt P	1.9 U		21	Thallium F	0.4 UN	UJ
10	Copper P	7.1		22	Vanadium P	[5.3]	
11	Iron P	5502 *		23	Zinc P	22 *NE	J
12	Lead F	1.9 s			Percent Solids (%)	94	
	Cyanide	0.4 N	J				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond 000025

FORM I

Client Sample No.
S-B-4-4A

Date: 01-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2429

SOW NO.: 785

LAB RECEIPT DATE: 10-17-87

LAB SAMPLE ID. NO.: F2429-18

QC REPORT NO.: FCH-11

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	4803 *		13	Magnesium P	14400 E	J
2	Antimony P	11 UN	R	14	Manganese P	289 N*	J
3	Arsenic F	11 N	J	15	Mercury	[0.1]	J
4	Barium P	589 N	J	16	Nickel P	1449 N	J
5	Beryllium P	1.0 U		17	Potassium P	[610]	
6	Cadmium P	0.7 U		18	Selenium F	0.4 UN	UJ
7	Calcium P	43500 *		19	Silver P	1.7 U	
8	Chromium P	2968 *		20	Sodium P	[116]	
9	Cobalt P	[7.3]		21	Thallium F	0.4 UN	UJ
10	Copper P	549		22	Vanadium P	11	
11	Iron P	17900 *		23	Zinc P	539 *N E	J
12	Lead ?	34 N	J		Percent Solids (%)	83	
	Cyanide	183 N	J				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Kenneth Bond

Lab Manager

Kenneth Bond 000031

FORM I

Client Sample No.
S-B-4-4B

Date: 01-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2429

SOW NO.: 785

LAB RECEIPT DATE: 10-17-87

LAB SAMPLE ID. NO.: F2429-01

QC REPORT NO.: FDH-11

Elements Identified and Measured
++++++++++++++++++++++++++++++++

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	5013 *	
2	Antimony P	13 UN	R
3	Arsenic F	6.3 sN	J
4	Barium P	517 N	J
5	Beryllium P	1.2 U	
6	Cadmium P	0.9 U	
7	Calcium P	28400 *	
8	Chromium P	2551 *	
9	Cobalt P	[6.9]	
10	Copper P	824	
11	Iron P	17600 *	
12	Lead P	23 N	J
	Cyanide	231 N	J
13	Magnesium P	9711 E	J
14	Manganese P	311 N*	J
15	Mercury	[0.1]	J
16	Nickel P	1159 N	J
17	Potassium P	[768]	
18	Selenium F	0.5 U N	UJ
19	Silver P	2.0 U	
20	Sodium P	[147]	
21	Thallium F	0.5 UN	UJ
22	Vanadium P	[8.8]	
23	Zinc P	435 *NE	J
	Percent Solids (%)	84	

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond 00000

FORM I

Client Sample No.
S-3-5-1

Date: 01-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2429

SOW NO.: 785

LAB RECEIPT DATE: 10-17-87

LAB SAMPLE ID. NO.: F2429-28

QC REPORT NO.: FCH-11

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	2568 *		13	Magnesium P	7751 E	J
2	Antimony P	10 UN	R	14	Manganese P	142 N*	J
3	Arsenic F	18 N	J	15	Mercury	0.2	J
4	Barium P	80 N	J	16	Nickel P	403 N	J
5	Beryllium P	0.9 U		17	Potassium P	[359]	
6	Cadmium P	[0.5]		18	Selenium F	0.4 UN	UJ
7	Calcium P	26800 *		19	Silver P	1.6 U	
8	Chromium P	371 *		20	Sodium P	[67]	
9	Cobalt P	1.8 U		21	Thallium F	0.4 UN	UJ
10	Copper P	154		22	Vanadium P	10	
11	Iron P	16600 *		23	Zinc P	201 *NE	J
12	Lead P	62 N	J		Percent Solids (%)	85	
	Cyanide	4.3 N	J				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

000031

FORM I

Client Sample No.
S-8-S-2

Date: 01-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2429

SOW NO.: 785

LAB RECEIPT DATE: 10-17-87

LAB SAMPLE ID. NO.: F2429-24

QC REPORT NO.: FCH-11

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	3665 *		13	Magnesium P	1131 E	J
2	Antimony P	11 UN	R	14	Manganese P	145 N*	J
3	Arsenic F	3.4 N	J	15	Mercury	0.1 U	UJ
4	Barium P	43 N	J	16	Nickel P	64 N	J
5	Beryllium P	1.0 U		17	Potassium P	[337]	
6	Cadmium P	0.7 U		18	Selenium F	0.4 U N	UJ
7	Calcium P	1624 *		19	Silver P	1.7 U	
8	Chromium P	313 *		20	Sodium P	[62]	
9	Cobalt P	2.0 U		21	Thallium F	0.4 UN	UJ
10	Copper P	43		22	Vanadium P	12	
11	Iron P	13600 *		23	Zinc P	22 *NE	J
12	Lead F	5.9			Percent Solids (%)	90	
	Cyanide	1.2 N	J				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond 000027

FORM I

Client Sample No.
S-B-5-3

Date: 01-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2429

SOW NO.: 785

LAB RECEIPT DATE: 10-17-87

LAB SAMPLE ID. NO.: F2429-13

QC REPORT NO.: FCH-11

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	3754 *	
2	Antimony P	9.8 UN	R
3	Arsenic F	3.6 sN	J
4	Barium P	[27]N	J
5	Beryllium P	0.9 U	
6	Cadmium P	0.7 U	
7	Calcium P	1013 *	
8	Chromium P	409 *	
9	Cobalt P	[2.0]	
10	Copper P	146	
11	Iron P	10500 *	
12	Lead F	3.9	
	Cyanide	27 N	J
13	Magnesium P	1102 E	J
14	Manganese P	62 N*	J
15	Mercury	0.1 U	UJ
16	Nickel P	166 N	J
17	Potassium P	[547]	
18	Selenium F	0.4 UN	UJ
19	Silver P	1.5 U	
20	Sodium P	[51]	
21	Thallium F	0.4 UN	UJ
22	Vanadium P	11	
23	Zinc P	38 *N,E	J
	Percent Solids (%)	91	

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Kenneth Bond

Lab Manager

Kenneth Bond 000016

FORM I

Client Sample No.
S-B-6-1

Date: 01-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2429

SOW NO.: 785

LAB RECEIPT DATE: 10-17-87

LAB SAMPLE ID. NO.: F2429-09

QC REPORT NO.: FCH-11

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	3128 *	
2	Antimony P	9.5 UN	R
3	Arsenic F	38 N	J
4	Barium P	280 N	J
5	Beryllium P	0.9 U	
6	Cadmium P	9.2	
7	Calcium P	27400 *	
8	Chromium P	1207 *	
9	Cobalt P	[2.7]	
10	Copper P	1209	
11	Iron P	16500 *	
12	Lead P	365 N	J
	Cyanide	0.9 N	J
13	Magnesium P	8636 E	J
14	Manganese P	201 N*	J
15	Mercury	0.2	J
16	Nickel P	1030 N	J
17	Potassium P	[464]	
18	Selenium F	0.4 UN	UJ
19	Silver P	1.6 U	
20	Sodium P	[128]	
21	Thallium F	0.4 UN	UJ
22	Vanadium P	9.9	
23	Zinc P	1474 *NE	J
	Percent Solids (%)	88	

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager: Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-B-5-4

Date: 01-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2429

SOW NO.: 785

LAB RECEIPT DATE: 10-17-87

LAB SAMPLE ID. NO.: F2429-07

QC REPORT NO.: FCH-11

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	1470 *		13	Magnesium P	[1031]E	J
2	Antimony P	12 UN	R	14	Manganese P	40 N*	J
3	Arsenic F	2.6 sN	UJ	15	Mercury	0.1 U	UJ
4	Barium P	[12]N	J	16	Nickel P	517 N	J
5	Beryllium P	1.1 U		17	Potassium P	[466]	
6	Cadmium P	0.8 U		18	Selenium F	0.4 U N	UJ
7	Calcium P	3013 *		19	Silver P	1.9 U	
8	Chromium P	349 *		20	Sodium P	[46]	
9	Cobalt P	2.2 U		21	Thallium F	0.4 UN	UJ
10	Copper P	133		22	Vanadium P	[4.2]	
11	Iron P	9251 *		23	Zinc P	146 *NE	J
12	Lead F	4.4			Percent Solids (%)	67	
	Cyanide	124 N	J				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager

Kenneth Bond

FORM I

Client Sample No.
S-B-6-2

Date: 01-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2429

SOW NO.: 785

LAB RECEIPT DATE: 10-17-87

LAB SAMPLE ID. NO.: F2429-04

QC REPORT NO.: FCH-11

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	7637 *		13	Magnesium P	5326 E	J
2	Antimony P	12 UN	R	14	Manganese P	114 N*	J
3	Arsenic F	9.0 N	UJ	15	Mercury	0.1 U	UJ
4	Barium P	[35] N	J	16	Nickel P	1022 N	J
5	Beryllium P	1.1 U		17	Potassium P	[639]	
6	Cadmium P	2.5		18	Selenium F	4.5 U N	UJ
7	Calcium P	43800 *		19	Silver P	2.0 U	
8	Chromium P	1423 *		20	Sodium P	[772]	
9	Cobalt P	[2.5]		21	Thallium F	0.5 UN	UJ
10	Copper P	642		22	Vanadium P	14	
11	Iron P	12800 *		23	Zinc P	364 *NE	J
12	Lead P	15 N	J		Percent Solids (%)	85	
	Cyanide	17 N	J				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond 00000

FORM I

Client Sample No.
S-B-4-3

Date: 01-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2429

SOW NO.: 785

LAB RECEIPT DATE: 10-17-87

LAB SAMPLE ID. NO.: F2429-25

QC REPORT NO.: FCH-11

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	2988 *		13	Magnesium P	11400 E	J
2	Antimony P	8.5 UN	R	14	Manganese P	182 N*	J
3	Arsenic F	3.4 N	J	15	Mercury	[0.1]	J
4	Barium P	[25]N	J	16	Nickel P	15 N	J
5	Beryllium P	0.8 U		17	Potassium P	[196]	
6	Cadmium P	0.6 U		18	Selenium F	0.3 U N	UJ
7	Calcium P	35500 *		19	Silver P	1.3 U	
8	Chromium P	19 *		20	Sodium P	[61]	
9	Cobalt P	[2.2]		21	Thallium F	0.3 UN	UJ
10	Copper P	16		22	Vanadium P	7.9	
11	Iron P	6372 *		23	Zinc P	32 *N E*	J
12	Lead F	7.2			Percent Solids (%)	93	
	Cyanide	0.2 UN	R				

or reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes xplaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

omments: MEDIUM BROWN SOIL

Lab Manager: Kenneth Bond

Kenneth Bond

000013

FORM I

Client Sample No.
S-3-6-3

Date: 01-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2429

SOW NO.: 785

LAB RECEIPT DATE: 10-17-87

LAB SAMPLE ID. NO.: F2429-12

QC REPORT NO.: FCH-11

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	2816 *		13	Magnesium P	4038 E	J
2	Antimony P	11 UN	R	14	Manganese P	106 N*	J
3	Arsenic F	4.3 N	J	15	Mercury	0.1	J
4	Barium P	54 N	J	16	Nickel P	576 N	J
5	Beryllium P	1.0 U		17	Potassium P	[419]	
6	Cadmium P	[1.0]		18	Selenium F	0.4 UN	UJ
7	Calcium P	14100 *		19	Silver P	1.8 U	
8	Chromium P	310 *		20	Sodium P	[99]	
9	Cobalt P	[3.7]		21	Thallium F	0.4 UN	UJ
10	Copper P	143		22	Vanadium P	[8.5]	
11	Iron P	9082 *		23	Zinc P	301 *NE	J
12	Lead F	22 N	J		Percent Solids (%)	84	
	Cyanide	2.6 N	J				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond 000015

FORM I

Client Sample No.
S-B-7-1

Date: 01-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2429

SOW NO.: 785

LAB RECEIPT DATE: 10-17-87

LAB SAMPLE ID. NO.: F2429-10

QC REPORT NO.: FCH-11

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	3295 *		13	Magnesium P	17700 E	J
2	Antimony P	12 UN	R	14	Manganese P	339 N+	J
3	Arsenic F	3.4 sN	UJ	15	Mercury	0.2	J
4	Barium P	[31]N	UJ	16	Nickel P	72 N	J
5	Beryllium P	1.1 U		17	Potassium P	[349]	
6	Cadmium P	[1.0]		18	Selenium F	0.4 U N	UJ
7	Calcium P	55200 *		19	Silver P	1.5 U	
8	Chromium P	53 *		20	Sodium P	[64]	
9	Cobalt P	[3.2]		21	Thallium F	0.4 UN	UJ
10	Copper P	46		22	Vanadium P	[10]	
11	Iron P	7480 *		23	Zinc P	43 *NE	J
12	Lead F	8.2			Percent Solids (%)	91	
	Cyanide	6.4 N	J				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond 00001

FORM I

Client Sample No.
S-B-7-2A

Date: 01-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2429

SOW NO.: 785

LAB RECEIPT DATE: 10-17-87

LAB SAMPLE ID. NO.: F2429-06

QC REPORT NO.: FCH-11

Elements Identified and Measured
++++++++++++++++++++++++++++++++

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	2489 *	
2	Antimony P	12 UN	R
3	Arsenic F	50 N	R
4	Barium P	294 N	J
5	Beryllium P	1.1 U	
6	Cadmium P	4.7	
7	Calcium P	31600 *	
8	Chromium P	2572 *	
9	Cobalt P	[8.9]	
10	Copper P	4141	
11	Iron P	28900 *	R
12	Lead P	125 N	
	Cyanide	6.7 N	R
13	Magnesium P	6722 E	J
14	Manganese P	128 N*	J
15	Mercury	0.4	J
16	Nickel P	4520 N	J
17	Potassium P	[584]	
18	Selenium F	0.4 U N	UJ
19	Silver P	1.9 U	
20	Sodium P	[131]	
21	Thallium F	0.4 UN	UJ
22	Vanadium P	[10]	
23	Zinc P	2023 *N E	J
	Percent Solids (%)	77	

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond 00009

FORM I

Client Sample No.
S-B-7-2B

Date: 01-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2429

SOW NO.: 785

LAB RECEIPT DATE: 10-17-87

LAB SAMPLE ID. NO.: F2429-05

QC REPORT NO.: FCH-11

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	3113 *		13	Magnesium P	6899 E	J
2	Antimony P	11 UN	R	14	Manganese P	96 N *	J
3	Arsenic F	6.4 UN	R	15	Mercury	0.6	J
4	Barium P	277 N	J	16	Nickel P	2061 N	J
5	Beryllium P	1.0 U		17	Potassium P	[661]	
6	Cadmium P	1.6		18	Selenium F	0.4 UN	UJ
7	Calcium P	32500 *		19	Silver P	1.8 U	
8	Chromium P	1440 *		20	Sodium P	[116]	
9	Cobalt P	[2.5]		21	Thallium F	0.4 UN	UJ
10	Copper P	1631		22	Vanadium P	[2.3]	
11	Iron P	6654 *		23	Zinc P	790 *NE	J
12	Lead P	140 N	R		Percent Solids (%)	80	
	Cyanide	56 N	R				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-E-7-3

Date: 01-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2429

SOW NO.: 785

LAB RECEIPT DATE: 10-17-87

LAB SAMPLE ID. NO.: F2429-03

QC REPORT NO.: FCH-11

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	6266 *		13	Magnesium P	3686 E	J
2	Antimony P	14 UN	R	14	Manganese P	54 N *	J
3	Arsenic F	20 sN	J	15	Mercury	1.6	J
4	Barium P	97 N	J	16	Nickel P	1034 N	J
5	Beryllium P	1.3 U		17	Potassium P	[450]	
6	Cadmium P	12		18	Selenium F	0.5 UN	UJ
7	Calcium P	19800 *		19	Silver P	4.4	
8	Chromium P	3521 *		20	Sodium P	[116]	
9	Cobalt P	24		21	Thallium F	0.5 UN	UJ
10	Copper P	10180		22	Vanadium P	18	
11	Iron P	14200 *		23	Zinc P	599 *NE	J
12	Lead P	30 N	J		Percent Solids (%)	77	
	Cyanide	4.0 N	J				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond 0000

FORM I

Client Sample No.
S-B-7-4

Date: 01-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2429

SOW NO.: 785

LAB RECEIPT DATE: 10-17-87

LAB SAMPLE ID. NO.: F2429-23

QC REPORT NO.: FCH-11

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	2305 *	E?	13	Magnesium P	1114 E	J
2	Antimony P	11 UN	R	14	Manganese P	29 N*	J
3	Arsenic F	27 sN	J	15	Mercury	0.1 U	J
4	Barium P	[25]N	J	16	Nickel P	85 N	J
5	Beryllium P	1.0 U		17	Potassium P	[397]	
6	Cadmium P	0.7 U		18	Selenium F	0.4 UN	UJ
7	Calcium P	5276 *		19	Silver P	1.7 U	
8	Chromium P	2071 *		20	Sodium P	[65]	
9	Cobalt P	[4.3]		21	Thallium F	0.4 UN	UJ
10	Copper P	617		22	Vanadium P	[6.7]	
11	Iron P	6776 *		23	Zinc P	24 *N*E	J
12	Lead F	6.5			Percent Solids (%)	89	
	Cyanide	15 N	J				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond 000003

Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No. D-W-1

Date 1-25-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME Century Laboratories
CASE NO. F2517
SOW NO. 785
Lab Receipt Date 10-29-87
LAB SAMPLE ID. NO. F2517-01
QC REPORT NO. FCM-17

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum P	906 N J	13.	Magnesium P	26700 E
2.	Antimony P	53U N	14.	Manganese P	29 N J
3.	Arsenic F	4.0U	15.	Mercury	0.2U
4.	Barium P	[54] N J	16.	Nickel P	[20] N J
5.	Beryllium P	5.0U N UJ	17.	Potassium P	[1520]
6.	Cadmium P	3.7U N	18.	Selenium F	2.0U
7.	Calcium P	73700 J	19.	Silver P	8.7U N
8.	Chromium P	13 N*	20.	Sodium P	20600
9.	Cobalt P	10U N UJ	21.	Thallium F	2.0U
10.	Copper P	77 N J	22.	Vanadium P	2.7U N
11.	Iron P	724 N J	23.	Zinc P	216 N J
12.	Lead F	5.0U N		Precent Solids (%)	NR

Cyanide 10U

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: CLEAR LIQUID

Lab Manager [signature]

000003

IFB Amend. One

FORM I

Client Sample No.
SD-A1

Date: 02-01-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2546

SOW NO.: 785

LAB RECEIPT DATE: 11-02-87

LAB SAMPLE ID. NO.: F2546-04

QC REPORT NO.: FCH-21

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	959 *		13	Magnesium P	9016	
2	Antimony P	12 UN	R	14	Manganese P	207	
3	Arsenic F	2.2 U		15	Mercury	0.1 UN	
4	Barium P	[22]		16	Nickel P	[2.7]	
5	Beryllium P	1.1 U		17	Potassium P	[51]	
6	Cadmium P	0.8 U		18	Selenium F	0.4 U	
7	Calcium P	47600		19	Silver P	1.9 UN	R
8	Chromium P	17		20	Sodium P	[53]	
9	Cobalt P	2.2 U		21	Thallium F	0.4 U	
10	Copper P	[3.6]		22	Vanadium P	[1.1]	
11	Iron P	3668		23	Zinc P	31	
12	Lead F	15 sN	J		Percent Solids (%)	86	
	Cyanide	0.2 UN	R				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

000007

FORM I

Client Sample No.
SD-A2

Date: 02-01-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2546

SOW NO.: 785

LAB RECEIPT DATE: 11-03-87

LAB SAMPLE ID. NO.: F2546-05

QC REPORT NO.: FCH-21

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	952 *	
2	Antimony P	15 UN	R
3	Arsenic F	[1.8]	
4	Barium P	[22]	
5	Beryllium P	1.3 U	
6	Cadmium P	1.0 U	
7	Calcium P	22900	
8	Chromium P	19	
9	Cobalt P	2.6 U	
10	Copper P	[4.2]	
11	Iron P	3805	
12	Lead F	18 sN	J
	Cyanide	0.3 UN	R
13	Magnesium P	3666	
14	Manganese P	259	
15	Mercury	0.1 UN	
16	Nickel P	2.9 U	
17	Potassium P	[64]	
18	Selenium F	0.5 U	
19	Silver P	2.3 UN	R
20	Sodium P	[74]	
21	Thallium F	0.5 U	
22	Vanadium P	0.7 U	
23	Zinc P	36 *	
	Percent Solids (%)	67	

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
SD-A3

Date: 02-01-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2546

SOW NO.: 785

LAB RECEIPT DATE: 11-02-87

LAB SAMPLE ID. NO.: F2546-06

QC REPORT NO.: FCH-21

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	1162 *		13	Magnesium P	5495	
2	Antimony P	12 UN	R	14	Manganese P	256	
3	Arsenic F	[2.0]		15	Mercury	0.1 UN	
4	Barium P	[19]		16	Nickel P	16	
5	Beryllium P	1.1 U		17	Potassium P	[87]	
6	Cadmium P	0.8 U		18	Selenium F	0.4 U	
7	Calcium P	29400		19	Silver P	1.9 UN	R
8	Chromium P	19		20	Sodium P	[74]	
9	Cobalt P	2.2 U		21	Thallium F	0.4 U	
10	Copper P	14		22	Vanadium P	[1.5]	
11	Iron P	4345		23	Zinc P	32	
12	Lead F	11 N	J		Percent Solids (%)	74	
	Cyanide	0.2 UN	R				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
SD-A4

Date: 02-01-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2546

SOW NO.: 785

LAB RECEIPT DATE: 11-02-87

LAB SAMPLE ID. NO.: F2546-07

QC REPORT NO.: FCH-21

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	1377 *		13	Magnesium P	9219	
2	Antimony P	9.2 UN	R	14	Manganese P	192	
3	Arsenic F	2.0		15	Mercury	0.1 UN	
4	Barium P	[17]		16	Nickel P	[4.4]	
5	Beryllium P	0.8 U		17	Potassium P	[45]	
6	Cadmium P	0.6 U		18	Selenium F	0.3 U	
7	Calcium P	42800		19	Silver P	1.5 UN	R
8	Chromium P	16		20	Sodium P	[61]	
9	Cobalt P	1.7 U		21	Thallium F	0.3 U	
10	Copper P	6.0		22	Vanadium P	[3.0]	
11	Iron P	5784		23	Zinc P	23 *	
12	Lead F	13 sN	J		Percent Solids (%)	86	
	Cyanide	0.2 UN	R				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager: Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
SD-B1-D

Date: 02-01-86

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2546

SOW NO.: 785

LAB RECEIPT DATE: 11-02-87

LAB SAMPLE ID. NO.: F2546-20

QC REPORT NO.: FCH-21

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	1161 *		13	Magnesium P	4660
2	Antimony P	14 UN	R	14	Manganese P	189
3	Arsenic F	2.5 U		15	Mercury	0.1 UN
4	Barium P	[20]		16	Nickel P	2.7 U
5	Beryllium P	1.2 U		17	Potassium P	[80]
6	Cadmium P	0.9 U		18	Selenium F	[0.7]
7	Calcium P	30700		19	Silver P	2.1 UN R
8	Chromium P	18		20	Sodium P	[61]
9	Cobalt P	2.5 U		21	Thallium F	0.5 U
10	Copper P	6.4		22	Vanadium P	[2.0]
11	Iron P	6561		23	Zinc P	46
12	Lead F	20 sN+			Percent Solids (%)	78
	Cyanide	0.3 UN	R			

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager: Kenneth Bond

Kenneth Bond 000020

FORM I

Client Sample No.
SD-B2

Date: 02-01-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2546

SOW NO.: 785

LAB RECEIPT DATE: 11-03-87

LAB SAMPLE ID. NO.: F2546-01

QC REPORT NO.: FCH-21

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	1200*		13	Magnesium P	13100	
2	Antimony P	12 UN	R	14	Manganese P	266	
3	Arsenic F	[2.0]		15	Mercury	0.1 N	J
4	Barium P	[26]		16	Nickel P	[2.9]	
5	Beryllium P	1.1 U		17	Potassium P	[74]	
6	Cadmium P	0.8 U		18	Selenium F	0.5 U	
7	Calcium P	46000		19	Silver P	2.0 UN	R
8	Chromium P	17		20	Sodium P	[102]	
9	Cobalt P	2.3 U		21	Thallium F	0.5 U	
10	Copper P	[2.0]		22	Vanadium P	[1.8]	
11	Iron P	4978		23	Zinc P	25 *	
12	Lead F	4.5 UN	R		Percent Solids (%)	83	
	Cyanide	0.2 UN	R				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
SD-03

Date: 03-01-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2546

SOW NO.: 785

LAB RECEIPT DATE: 11-03-87

LAB SAMPLE ID. NO.: F2546-02

QC REPORT NO.: FCH-21

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	2620*		13	Magnesium P	36500	
2	Antimony P	13 UN	R	14	Manganese P	294	
3	Arsenic F	5.6 s		15	Mercury	0.1 UN	
4	Barium P	62		16	Nickel P	12	
5	Beryllium P	1.2 U		17	Potassium P	[195]	
6	Cadmium P	0.9 U		18	Selenium F	4.7 U	
7	Calcium P	81700		19	Silver P	2.0 UN	R
8	Chromium P	23		20	Sodium P	[92]	
9	Cobalt P	[3.5]		21	Thallium F	0.3 U	
10	Copper P	14		22	Vanadium P	15	
11	Iron P	13200		23	Zinc P	82 *	
12	Lead P	208			Percent Solids (%)	87	
	Cyanide	0.2 UN	R				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Kenneth Bond

Lab Manager

Kenneth Bond

000005

FORM I

Client Sample No.
SD-B4

Date: 02-01-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2546

SOW NO.: 785

LAB RECEIPT DATE: 11-02-87

LAB SAMPLE ID. NO.: F2546-03

QC REPORT NO.: FCH-21

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	2203*	
2	Antimony P	12 UN	R
3	Arsenic F	[2.2] s	
4	Barium P	[20]	
5	Beryllium P	1.1 U	
6	Cadmium P	0.8 U	
7	Calcium P	45600	
8	Chromium P	24	
9	Cobalt P	2.2 U	
10	Copper P	11	
11	Iron P	13100	
12	Lead P	63	
	Cyanide	0.2 UN	R
13	Magnesium P	9687	
14	Manganese P	282	
15	Mercury	0.7 N	J
16	Nickel P	[5.2]	
17	Potassium P	[199]	
18	Selenium F	4.5 U	
19	Silver P	1.9 UN	R
20	Sodium P	[56]	
21	Thallium F	0.4 U	
22	Vanadium P	[5.6]	
23	Zinc P	74 *	
	Percent Solids (%)	84	

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
SD-C1

Date: 02-01-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2546

SOW NO.: 785

LAB RECEIPT DATE: 11-02-87

LAB SAMPLE ID. NO.: F2546-14

QC REPORT NO.: FCH-21

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	960 *		13	Magnesium P	7502	
2	Antimony P	12 UN	R	14	Manganese P	177	
3	Arsenic F	[1.3]		15	Mercury	0.1 UN	
4	Barium P	[23]		16	Nickel P	[2.7]	
5	Beryllium P	1.1 U		17	Potassium P	[31]	
6	Cadmium P	0.8 U		18	Selenium F	4.2 U	
7	Calcium P	37500		19	Silver P	1.8 UN	R
8	Chromium P	19		20	Sodium P	[40]	
9	Cobalt P	2.1 U		21	Thallium F	0.4 U	
10	Copper P	[5.1]		22	Vanadium P	[1.5]	
11	Iron P	6193		23	Zinc P	56 *	
12	Lead P	43			Percent Solids (%)	88	
	Cyanide	0.2 UN	R				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Sono

Kenneth Sono

FORM I

Client Sample No.
SD-C2

Date: 02-01-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2546

SOW NO.: 785

LAB RECEIPT DATE: 11-02-87

LAB SAMPLE ID. NO.: F2546-13

QC REPORT NO.: FCH-21

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	739 *		13	Magnesium P	14000	
2	Antimony P	11 UN	R	14	Manganese P	243	
3	Arsenic F	2.5		15	Mercury	0.1 UN	
4	Barium P	[26]		16	Nickel P	[3.1]	
5	Beryllium P	1.0 U		17	Potassium P	[26]	
6	Cadmium P	0.7 U		18	Selenium F	0.4 U	
7	Calcium P	82100		19	Silver P	1.7 UN	R
8	Chromium P	13		20	Sodium P	[54]	
9	Cobalt P	1.9 U		21	Thallium F	0.4 U	
10	Copper P	13		22	Vanadium P	[1.3]	
11	Iron P	4747		23	Zinc P	27	
12	Lead F	15 sN +	J		Percent Solids (%)	86	
	Cyanide	0.2 UN	R				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager: Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
SD-C3

Date: 02-01-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2546

SOW NO.: 785

LAB RECEIPT DATE: 11-02-87

LAB SAMPLE ID. NO.: F2546-12

QC REPORT NO.: FCH-21

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	663 *		13	Magnesium P	8430	
2	Antimony P	10 UN	R	14	Manganese P	131	
3	Arsenic F	[1.9]		15	Mercury	0.1 N	J
4	Barium P	[28]		16	Nickel P	[2.8]	
5	Beryllium P	0.9 U		17	Potassium P	[58]	
6	Cadmium P	0.7 U		18	Selenium F	0.4 U	
7	Calcium P	37100		19	Silver P	1.6 UN	R
8	Chromium P	12		20	Sodium P	[106]	
9	Cobalt P	1.9 U		21	Thallium F	0.4 U	
10	Copper P	6.4		22	Vanadium P	[0.7]	
11	Iron P	4155		23	Zinc P	17	
12	Lead F	8.0 sN	J		Percent Solids (%)	84	
	Cyanide	0.2 UN	R				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
SD-C4

Date: 02-01-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2546

SOW NO.: 785

LAB RECEIPT DATE: 11-02-87

LAB SAMPLE ID. NO.: F2546-11

QC REPORT NO.: FCH-21

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	738 *		13	Magnesium P	9252	
2	Antimony P	12 UN	R	14	Manganese P	203	
3	Arsenic F	[2.0]		15	Mercury	0.1 UN	
4	Barium P	[21]		16	Nickel P	[5.5]	
5	Beryllium P	1.1 U		17	Potassium P	[45]	
6	Cadmium P	0.8 U		18	Selenium F	0.4 U	
7	Calcium P	40300		19	Silver P	1.9 UN	R
8	Chromium P	18		20	Sodium P	[48]	
9	Cobalt P	2.2 U		21	Thallium F	0.4 U	
10	Copper P	6.6		22	Vanadium P	[1.1]	
11	Iron P	5907		23	Zinc P	51 *	
12	Lead P	43			Percent Solids (%)	84	
	Cyanide	0.2 UN	R				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Kenneth Bond

Lab Manager

Kenneth Bond

FORM I

Client Sample No.
SD-D1

Date: 02-01-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2546

SOW NO.: 785

LAB RECEIPT DATE: 11-03-87

LAB SAMPLE ID. NO.: F2546-19

QC REPORT NO.: FCH-21

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	1084 *		13	Magnesium P	7539	
2	Antimony P	12 UN	R	14	Manganese P	189	
3	Arsenic F	[1.5]		15	Mercury	2.9 N	J
4	Barium P	[19]		16	Nickel P	[3.6]	
5	Beryllium P	1.0 U		17	Potassium P	[79]	
6	Cadmium P	0.8 U		18	Selenium F	[0.6]	
7	Calcium P	26900		19	Silver P	1.8 UN	R
8	Chromium P	17		20	Sodium P	[189]	
9	Cobalt P	2.1 U		21	Thallium F	0.4 U	
10	Copper P	37		22	Vanadium P	[2.5]	
11	Iron P	4968		23	Zinc P	53	
12	Lead P	31			Percent Solids (%)	86	
	Cyanide	0.2 UN	R				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
SD-D2

Date: 02-01-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2546

SOW NO.: 785

LAB RECEIPT DATE: 11-02-87

LAB SAMPLE ID. NO.: F2546-18

QC REPORT NO.: FCH-21

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	1931 *		13	Magnesium P	11200	
2	Antimony P	11 UN	R	14	Manganese P	205	
3	Arsenic F	[1.6]		15	Mercury	0.2 N	J
4	Barium P	[30]		16	Nickel P	[4.7]	
5	Beryllium P	1.0 U		17	Potassium P	[164]	
6	Cadmium P	0.8 U		18	Selenium F	[0.6]	
7	Calcium P	62400		19	Silver P	1.8 UN	R
8	Chromium P	16		20	Sodium P	[77]	
9	Cobalt P	2.1 U		21	Thallium F	0.4 U	
10	Copper P	[3.5]		22	Vanadium P	[2.9]	
11	Iron P	5583		23	Zinc P	26	
12	Lead F	8.6 N	J		Percent Solids (%)	84	
	Cyanide	0.2 UN	R				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
SD-D3

Date: 02-01-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2546

SOW NO.: 785

LAB RECEIPT DATE: 11-02-87

LAB SAMPLE ID. NO.: F2546-17

QC REPORT NO.: FCH-21

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	1617 *		13	Magnesium P	24800	
2	Antimony P	13 UN	K	14	Manganese P	274	
3	Arsenic F	[2.1]		15	Mercury	0.2 N	J
4	Barium P	[17]		16	Nickel P	[6.8]	
5	Beryllium P	1.2 U		17	Potassium P	[81]	
6	Cadmium P	0.9 U		18	Selenium F	4.7 U	
7	Calcium P	68500		19	Silver P	2.0 UN	R
8	Chromium P	23		20	Sodium P	[74]	
9	Cobalt P	2.3 U		21	Thallium F	0.5 U	
10	Copper P	[4.7]		22	Vanadium P	[5.6]	
11	Iron P	7729		23	Zinc P	44	
12	Lead P	24			Percent Solids (%)	86	
	Cyanide	0.2 UN	R				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

00001

FORM I

Client Sample No.
SD-D4

Date: 02-01-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2546

SOW NO.: 785

LAB RECEIPT DATE: 11-02-87

LAB SAMPLE ID. NO.: F2546-16

QC REPORT NO.: FCH-21

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	1325 *	13	Magnesium P	6671
2	Antimony P	15 UN R	14	Manganese P	173
3	Arsenic F	[1.6]	15	Mercury	0.1 UN
4	Barium P	95	16	Nickel P	18
5	Beryllium P	1.3 U	17	Potassium P	[101]
6	Cadmium P	1.0 U	18	Selenium F	5.4 U
7	Calcium P	35100	19	Silver P	2.3 UN R
8	Chromium P	113	20	Sodium P	[55]
9	Cobalt P	2.7 U	21	Thallium F	0.5 U
10	Copper P	117	22	Vanadium P	[5.1]
11	Iron P	11100	23	Zinc P	81
12	Lead P	71		Percent Solids (%)	79
	Cyanide	0.3 UN R			

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Kenneth Bond

Lab Manager

Kenneth Bond 000026

FORM I

Client Sample No.
SD-B1

Date: 02-01-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2546

SOW NO.: 785

LAB RECEIPT DATE: 11-02-87

LAB SAMPLE ID. NO.: F2546-15

QC REPORT NO.: FCH-21

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	1767 *	
2	Antimony P	11 UN	R
3	Arsenic F	[2.0]	
4	Barium P	[17]	
5	Beryllium P	1.0 U	
6	Cadmium P	0.7 U	
7	Calcium P	39700	
8	Chromium P	19	
9	Cobalt P	2.0 U	
10	Copper P	10	
11	Iron P	14900	
12	Lead P	35	
	Cyanide	0.2 UN	R
13	Magnesium P	12300	
14	Manganese P	249	
15	Mercury	0.2 N	J
16	Nickel P	[7.6]	
17	Potassium P	[100]	
18	Selenium F	3.9 U	
19	Silver P	1.7 UN	R
20	Sodium P	[41]	
21	Thallium F	0.4 U	
22	Vanadium P	[4.9]	
23	Zinc P	52	
	Percent Solids (%)	80	

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond 000015

Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No.
SD-E2

Date 1-27-44

INORGANIC ANALYSIS DATA SHEET

LAB NAME Century Laboratories
CASE NO. F2532
SOW NO. 785
Lab Receipt Date 10-24-87
LAB SAMPLE ID. NO. F2532-05
QC REPORT NO. FLH-15

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ____ Soil ✓ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum P	2710 *	13.	Magnesium P	7670 E J
2.	Antimony P	14N R	14.	Manganese P	415 *
3.	Arsenic F	9.0	15.	Mercury	0.14
4.	Barium P	65N J	16.	Nickel P	19
5.	Beryllium P	1.2U	17.	Potassium P	[664]
6.	Cadmium P	1.6	18.	Selenium F	0.50UN UJ
7.	Calcium P	24600 *	19.	Silver P	2.2U
8.	Chromium P	27 *	20.	Sodium P	[125]
9.	Cobalt P	[4.4]	21.	Thallium F	0.50U
10.	Copper P	45	22.	Vanadium P	14
11.	Iron P	16700 *	23.	Zinc P	70 *E J
12.	Lead P	77		Precent Solids (%)	50
	Cyanide	0.23UN UJ			

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager [signature]

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Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
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703/557-2490 FTS: 8-557-2490

EPA Sample No.
SO - E3

Date 1-27-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME Century Laboratories
CASE NO. F2532
SOW NO. 785
Lab Receipt Date 10-29-87
LAB SAMPLE ID. NO. F2532-04
QC REPORT NO. FC14-15

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ____ Soil ✓ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum P	2170 *	13.	Magnesium P	5420 E J
2.	Antimony P	13 UN R	14.	Manganese P	22J *
3.	Arsenic F	5.9	15.	Mercury	0.15
4.	Barium P	[32] N J	16.	Nickel P	17
5.	Beryllium P	1.2 U	17.	Potassium P	[200]
6.	Cadmium P	2.0	18.	Selenium F	0.47 UN UJ
7.	Calcium P	51000 *	19.	Silver P	2.1
8.	Chromium P	31 *	20.	Sodium P	[127]
9.	Cobalt P	[3.4]	21.	Thallium F	0.47
10.	Copper P	66	22.	Vanadium P	[11]
11.	Iron P	16200 *	23.	Zinc P	52 * E J
12.	Lead P	99		Precent Solids (%)	79
	Cyanide	0.25 UN UJ			

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager [signature]

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IFB Amend. One

Form I

U.S. EPA Contract Laboratory Program
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703/557-2490 FTS: 8-557-2490

EPA Sample No. SD-F1

Date 1-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME Century Laboratories

CASE NO. F2532

SOW NO. 785

Lab Receipt Date 10-25-87

LAB SAMPLE ID. NO. F2532-01

QC REPORT NO. FCM-15

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ____ Soil ✓ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum P	2550 *	13.	Magnesium P	4530 E J
2.	Antimony P	24U N R	14.	Manganese P	336 *
3.	Arsenic F	6.5	15.	Mercury	0.4
4.	Barium P	[60] N J	16.	Nickel P	12
5.	Beryllium P	0.2U	17.	Potassium P	[205]
6.	Cadmium P	1.6U	18.	Selenium F	0.4U N U UJ
7.	Calcium P	28600 *	19.	Silver P	3.4U
8.	Chromium P	5U *	20.	Sodium P	[122]
9.	Cobalt P	4.3U	21.	Thallium F	0.4U
10.	Copper P	4U	22.	Vanadium P	[6.9]
11.	Iron P	10100 *	23.	Zinc P	160 * E J
12.	Lead P	149		Percent Solids (%)	4U
	Cyanide	0.43 N U UJ			

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: Medium Brown Soil

Lab Manager [signature]

Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No.
SD-F2

Date 1-27-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME Century Laboratories
CASE NO. F2532
SOW NO. 785
Lab Receipt Date 10-29-87
LAB SAMPLE ID. NO. F2532-06 02
QC REPORT NO. FCM-15

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ____ Soil ✓ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum P	1460 *	13.	Magnesium P	6220 E J
2.	Antimony P	14UN R	14.	Manganese P	172 *
3.	Arsenic F	2.1	15.	Mercury	[0.10]
4.	Barium P	[13] N	16.	Nickel P	[9.7]
5.	Beryllium P	1.3U	17.	Potassium P	[111]
6.	Cadmium P	[1.0]	18.	Selenium F	~~[41]~~ 0.51UN UJ
7.	Calcium P	29600 *	19.	Silver P	2.2U
8.	Chromium P	22 *	20.	Sodium P	[40]
9.	Cobalt P	2.6U	21.	Thallium F	0.51U
10.	Copper P	11	22.	Vanadium P	[49]
11.	Iron P	6920 *	23.	Zinc P	39 * E J
12.	Lead P	31		Precent Solids (%)	73
	Cyanide	0.26UN UJ			

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BLEND SOIL

Lab Manager [signature]

Form I

U.S. EPA Contract Laboratory Program
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703/557-2490 FTS: 8-557-2490

EPA Sample No.
SD-F3

Date 1-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME Century Laboratories
CASE NO. F2532
SOW NO. 785
Lab Receipt Date 10-29-87
LAB SAMPLE ID. NO. F2532-03
QC REPORT NO. FCH-15

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ____ Soil ✓ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum P	2090 *	13.	Magnesium P	10300 E J
2.	Antimony P	13U N R	14.	Manganese P	142 *
3.	Arsenic F	[2.4]	15.	Mercury	0.10U
4.	Barium P	[147 N J	16.	Nickel P	13
5.	Beryllium P	1.2U	17.	Potassium P	[94]
6.	Cadmium P	0.90U	18.	Selenium F	0.44UN UJ
7.	Calcium P	35200 *	19.	Silver P	2.1U
8.	Chromium P	23 *	20.	Sodium P	[92]
9.	Cobalt P	0.4U	21.	Thallium F	0.4U
10.	Copper P	9.0	22.	Vanadium P	[6.5]
11.	Iron P	6450 *	23.	Zinc P	37 * E J
12.	Lead P	26		Precent Solids (%)	60
	Cyanide	0.24UN UJ			

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: Medium Brown Soil

Lab Manager [signature]

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Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
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703/557-2490 FTS: 8-557-2490

EPA Sample No.
GW-WB

Date 1-29-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME Century Laboratories
SOW NO. 785
LAB SAMPLE ID. NO. F2532-03

CASE NO. F2552
Lab Receipt Date 11-04-87
QC REPORT NO. FCH-20

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum P	[31]	13.	Magnesium P	[44]
2.	Antimony P	55UN R	14.	Manganese P	7.7U
3.	Arsenic F	4.0U	15.	Mercury	0.2U
4.	Barium P	9.3U	16.	Nickel P	11U
5.	Beryllium P	5.0U	17.	Potassium P	[119]
6.	Cadmium P	3.7U	18.	Selenium F	2.0UN R
7.	Calcium P	[245]	19.	Silver P	8.7UN UJ
8.	Chromium P	4.0U R	20.	Sodium P	[603]
9.	Cobalt P	10U	21.	Thallium F	2.0U
10.	Copper P	113	22.	Vanadium P	2.7U
11.	Iron P	[69]	23.	Zinc P	[15]
12.	Lead F	20UE		Precent Solids (%)	NR
	Cyanide	10U			

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: CLEAR LIQUID

Lab Manager Kenneth Bond

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IFB Amend. One

Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No.
GW-W1

Date 1-29-89

INORGANIC ANALYSIS DATA SHEET

LAB NAME Century Laboratories
SOW NO. 785
LAB SAMPLE ID. NO. F2552-01

CASE NO. F2552
Lab Receipt Date 11-04-89
QC REPORT NO. FCH-20

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum P	8.7U	13.	Magnesium P	41400
2.	Antimony P	55UN R	14.	Manganese P	16
3.	Arsenic F	4.0U	15.	Mercury	0.2U
4.	Barium P	[53]	16.	Nickel P	11U
5.	Beryllium P	5.0U	17.	Potassium P	5720
6.	Cadmium P	3.7U	18.	Selenium F	2.0UN R
7.	Calcium P	152000	19.	Silver P	5.7UN UJ
8.	Chromium P	[5.0]	20.	Sodium P	163000
9.	Cobalt P	10U	21.	Thallium F	2.0U
10.	Copper P	[6.0]	22.	Vanadium P	2.7U
11.	Iron P	60U	23.	Zinc P	[17]
12.	Lead F	2.0U		Precent Solids (%)	NR
	Cyanide	10U			

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: CLEAR LIQUID

Lab Manager Kenneth Bond

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IFB Amend. One

Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
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703/557-2490 FTS: 8-557-2490

EPA Sample No. GW-W2

Date 1-29-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME Century Laboratories
CASE NO. F2552
SOW NO. 785
Lab Receipt Date 11-04-87
LAB SAMPLE ID. NO. F2132-07
QC REPORT NO. RH-20

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum P	74600	13.	Magnesium P	245000
2.	Antimony P	55UN R	14.	Manganese P	134000
3.	Arsenic F	31	15.	Mercury	1.5
4.	Barium P	4340	16.	Nickel P	3630
5.	Beryllium P	111	17.	Potassium P	11100
6.	Cadmium P	39	18.	Selenium F	20UN R
7.	Calcium P	96100	19.	Silver P	11N J
8.	Chromium P	1000	20.	Sodium P	183000
9.	Cobalt P	312	21.	Thallium F	20UE
10.	Copper P	473	22.	Vanadium P	[33]
11.	Iron P	46200	23.	Zinc P	455
12.	Lead P	56L		Precent Solids (%)	NR
	Cyanide	62			

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: CLEAR LIQUID

Lab Manager Kenneth Ford

Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No.
GW-W3A

Date 1-29-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME Century Laboratories
CASE NO. F2552
SOW NO. 785
Lab Receipt Date 11-04-87
LAB SAMPLE ID. NO. F2552-04
QC REPORT NO. FCN-20

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum P	[31]	13.	Magnesium P	24300
2.	Antimony P	55UN R	14.	Manganese P	1270
3.	Arsenic F	4.0U	15.	Mercury	0.2U
4.	Barium P	[20]	16.	Nickel P	270
5.	Beryllium P	5.0U	17.	Potassium P	20100
6.	Cadmium P	3.7U	18.	Selenium F	20UN R
7.	Calcium P	304000	19.	Silver P	5.7UN UJ
8.	Chromium P	4.0U	20.	Sodium P	66400
9.	Cobalt P	10U	21.	Thallium F	2.0U
10.	Copper P	5.7U	22.	Vanadium P	2.7U
11.	Iron P	34	23.	Zinc P	27
12.	Lead F	20UE		Percent Solids (%)	NR
	Cyanide	129			

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: CLEAR LIQUID

Lab Manager Kenneth Bond

Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No.
GW-6B

Date 1-29-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME Century Laboratories
CASE NO. F2552
SOW NO. 785
Lab Receipt Date 11-04-87
LAB SAMPLE ID. NO. F2132-05
QC REPORT NO. FCH-20

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum P	P.7u	13.	Magnesium P	47200
2.	Antimony P	55UN R	14.	Manganese P	255
3.	Arsenic F	4.0u	15.	Mercury	0.2u
4.	Barium P	[47]	16.	Nickel P	211
5.	Beryllium P	5.0u	17.	Potassium P	[3410]
6.	Cadmium P	2.7u	18.	Selenium F	2.0UN R
7.	Calcium P	149000	19.	Silver P	8.7UN UJ
8.	Chromium P	[6.0]	20.	Sodium P	80300
9.	Cobalt P	10u	21.	Thallium F	2.0u
10.	Copper P	5.7u	22.	Vanadium P	2.7u
11.	Iron P	60u	23.	Zinc P	32
12.	Lead F	2.0u		Precent Solids (%)	NR
	Cyanide	13			

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: CLEAR LIQUID

Lab Manager Kenneth Bond

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Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No. GW-W4

Date 1-29-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME Century Laboratories
CASE NO. F2552
SOW NO. 785
Lab Receipt Date 11-04-87
LAB SAMPLE ID. NO. F2552-01
QC REPORT NO. FCH-20

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum P	[163]	13.	Magnesium P	64400
2.	Antimony P	55UN R	14.	Manganese P	70+ R
3.	Arsenic F	12	15.	Mercury	0.2U
4.	Barium P	9.3U	16.	Nickel P	440
5.	Beryllium P	5.0U	17.	Potassium P	114000
6.	Cadmium P	7.+	18.	Selenium F	20UN R
7.	Calcium P	230,000	19.	Silver P	5.7UN UJ
8.	Chromium P	27	20.	Sodium P	543000
9.	Cobalt P	10U	21.	Thallium F	20UE
10.	Copper P	501 R	22.	Vanadium P	2.7U
11.	Iron P	60U	23.	Zinc P	514 R
12.	Lead F	20UE R		Precent Solids (%)	NR
	Cyanide	2700			

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: CLEAR LIQUID

Lab Manager Kenneth Bond

Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No.
GW-W2D

Date 1-29-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME Century Laboratories
CASE NO. F2552
SOW NO. 785
Lab Receipt Date 11-04-87
LAB SAMPLE ID. NO. F2552-02
QC REPORT NO. FCH-20

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum P	13400		13.	Magnesium P	59600	
2.	Antimony P	55U N	R	14.	Manganese P	1520	R
3.	Arsenic F	33		15.	Mercury	0.2U	
4.	Barium P	[142]		16.	Nickel P	5650	
5.	Beryllium P	5.0U		17.	Potassium P	114000	
6.	Cadmium P	6.7		18.	Selenium F	20UN	R
7.	Calcium P	352000		19.	Silver P	8.7U N	UJ
8.	Chromium P	475		20.	Sodium P	551000	
9.	Cobalt P	10U		21.	Thallium F	20U	
10.	Copper P	1000	R	22.	Vanadium P	[197]	
11.	Iron P	40600		23.	Zinc P	1790	R
12.	Lead F	64	R		Precent Solids (%)	NR	
	Cyanide	2250					

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: CLEAR LIQUID

Lab Manager [signature]

Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No.
GW-W5

Date 1-29-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME Century Laboratories
CASE NO. F2552
SOW NO. 785
Lab Receipt Date 11-04-87
LAB SAMPLE ID. NO. F2552-01
QC REPORT NO. FCH-20

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum P	[175]	13.	Magnesium P	37400
2.	Antimony P	55UN R	14.	Manganese P	1310
3.	Arsenic F	10U	15.	Mercury	0.2U
4.	Barium P	[14]	16.	Nickel P	2210
5.	Beryllium P	5.0U	17.	Potassium P	41200
6.	Cadmium P	3.7U	18.	Selenium F	20UN R
7.	Calcium P	224000	19.	Silver P	8.7UN WJ
8.	Chromium P	[6.0]	20.	Sodium P	132000
9.	Cobalt P	10U	21.	Thallium F	2.0U
10.	Copper P	[17]	22.	Vanadium P	2.7U
11.	Iron P	60U	23.	Zinc P	214
12.	Lead F	2.0U		Precent Solids (%)	NR
	Cyanide	40			

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: CLEAR LIQUID

Lab Manager Kenneth Bond

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IFB Amend. One

Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No.
GW-WL

Date 1-29-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME Century Laboratories
CASE NO. F2552
SOW NO. 785
Lab Receipt Date 11-04-87
LAB SAMPLE ID. NO. F2532-09
QC REPORT NO. FCH-20

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum P	33100	13.	Magnesium P	209000
2.	Antimony P	55UN R	14.	Manganese P	11200
3.	Arsenic F	47	15.	Mercury	0.9
4.	Barium P	720	16.	Nickel P	1350
5.	Beryllium P	6.5	17.	Potassium P	13400
6.	Cadmium P	23	18.	Selenium F	20UN R
7.	Calcium P	960,000	19.	Silver P	5.7UN UJ
8.	Chromium P	1310	20.	Sodium P	196000
9.	Cobalt P	76	21.	Thallium F	20UE
10.	Copper P	644	22.	Vanadium P	65
11.	Iron P	114000	23.	Zinc P	712
12.	Lead P	34 J		Precent Solids (%)	NR
	Cyanide	11			

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: CLEAR LIQUID

Lab Manager Kenneth Bond

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IFB Amend. One

INORGANIC RESULTS

REPORT NO: F2552

UNITS: MG/L

QC NO: FCH-20

PARAMETER

SAMPLE ID:	HEXAVALENT CHROMIUM	TDS	TSS
GW-W4	.05U	3215	4376
GW-W4D	.05U	3070	1796
GW-WB	.05U	5	25
GW-W3A	.05U	1428	4712
GW-W3B	.05U	998	1226
GW-W1	.05U	1180	14448
GW-W2	.05U	987	6540
GW-W5	.05U	1508	3684
GW-W6	.05U	1548	8296

Form 1

Sample No.
GW-W1-2

Date 4-8-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME Century Laboratories

CASE NO. FCH-880616/0520

SOW NO. 785

Lab Receipt Date 3-10-88

LAB SAMPLE ID. NO. 4474

QC REPORT NO. NA

Elements Identified and Measured

Concentration: Low ✓ Medium _____

Matrix: Water ✓ Soil _____ Sludge _____ Other _____

ug/l or mg/kg dry weight (Circle One)

1.	Aluminum P	34600 E	13.	Magnesium P	117000 E
2.	Antimony P	53 uN	14.	Manganese P	5370 E
3.	Arsenic F	7.0 UN R	15.	Mercury	0.3 N
4.	Barium P	344	16.	Nickel P	225 E
5.	Beryllium P	4.2 u	17.	Potassium P	4310 E
6.	Cadmium P	13	18.	Selenium F	30 UN R
7.	Calcium P	427000	19.	Silver P	6.0 u N
8.	Chromium P	277 N	20.	Sodium P	140 000
9.	Cobalt P	71	21.	Thallium F	6.0 u
10.	Copper P	204 R	22.	Vanadium P	104 N
11.	Iron P	220000 E	23.	Zinc P	521
12.	Lead F	200 N		Precent Solids (%)	NR
	Cyanide	U		Cr^{+6}	-50u

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: CLEAR LIQUID

Lab Manager Kenneth Bond

Form 1

Sample No.
GW-W2-2

Date 4-8-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME Century Laboratories

SOW NO. 785

LAB SAMPLE ID. NO. 4475

CASE NO. FCN-F10516/0520

Lab Receipt Date 3-10-88

QC REPORT NO. NA

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/l or mg/kg dry weight (Circle One)

1.	Aluminum P	71700 E	13.	Magnesium P	13400 E
2.	Antimony P	53UN	14.	Manganese P	9200 E
3.	Arsenic F	11N	15.	Mercury	[0.2]N
4.	Barium P	4520	16.	Nickel P	12300 E
5.	Beryllium P	[4.9]	17.	Potassium P	12000 E
6.	Cadmium P	23	18.	Selenium F	30UNR
7.	Calcium P	44000	19.	Silver P	6.0UN
8.	Chromium P	599N	20.	Sodium P	106000
9.	Cobalt P	125	21.	Thallium F	6.0U
10.	Copper P	306R	22.	Vanadium P	174N
11.	Iron P	27400 E	23.	Zinc P	640
12.	Lead F	230N		Precent Solids (%)	NR
	Cyanide	U		Cr+6 - 130	

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: CLEAR LIQUID

Lab Manager Kenneth Bond

IFB Amend. One

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Form 1

Sample No.
GW-WSA-2

Date 4-8-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME Century Laboratories

CASE NO. FCN-F10616/0520

SOW NO. 785

Lab Receipt Date 3-9-88

LAB SAMPLE ID. NO. 4468

QC REPORT NO. NA

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One) 32900

1.	Aluminum P	5320 E	13.	Magnesium P	32900 E
2.	Antimony P	53u N	14.	Manganese P	1520 E
3.	Arsenic F	19 W N S	15.	Mercury	1.0 N
4.	Barium P	[76]	16.	Nickel P	1620 E
5.	Beryllium P	4.2u	17.	Potassium P	26000 E
6.	Cadmium P	4.3u	18.	Selenium F	30uN R
7.	Calcium P	32400	19.	Silver P	6.0u N
8.	Chromium P	74 E N	20.	Sodium P	66600
9.	Cobalt P	[17]	21.	Thallium F	60u
10.	Copper P	492	22.	Vanadium P	6.0uN
11.	Iron P	36300 E	23.	Zinc P	1110
12.	Lead F	45 N		Precent Solids (%)	NR

Cyanide 110

Cr+6 - 50u

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: CLEAR LIQUID

Lab Manager Kenneth Ford

Form 1

Sample No.
GW-W3A-D-2

Date 4-8-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME Century Laboratories

CASE NO. FCH-880516/0520

SOW NO. 785

Lab Receipt Date 3-9-88

LAB SAMPLE ID. NO. 4469

QC REPORT NO. NA

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum P	7130 E	13.	Magnesium P	34200 E
2.	Antimony P	53 UN	14.	Manganese P	1760 E
3.	Arsenic F	21 Ns	15.	Mercury	1.3 N
4.	Barium P	[101]	16.	Nickel P	1770 E
5.	Beryllium P	4.2 U	17.	Potassium P	24600 E
6.	Cadmium P	5.3	18.	Selenium F	30 UNE R
7.	Calcium P	335000	19.	Silver P	6.0 UN
8.	Chromium P	902 N	20.	Sodium P	77200
9.	Cobalt P	[21]	21.	Thallium F	6.0 U
10.	Copper P	606	22.	Vanadium P	6.0 UN
11.	Iron P	40000 E	23.	Zinc P	1240
12.	Lead F	57 Ns		Precent Solids (%)	NR
	Cyanide	130		Cr^{+6} - 50 U	

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: CLEAR LIQUID

Lab Manager Kenneth Bond

Form 1

Sample No.
GW-W3B-2

Date 4-8-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME Century Laboratories

CASE NO. FCN-880516/0520

SOW NO. 785

Lab Receipt Date 3-9-88

LAB SAMPLE ID. NO. 4467

QC REPORT NO. NA

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum P	[64] E	13.	Magnesium P	46300 E
2.	Antimony P	53UN	14.	Manganese P	234 E
3.	Arsenic F	7.0UN R	15.	Mercury	0.2UN
4.	Barium P	[40]	16.	Nickel P	[32] E
5.	Beryllium P	4.2U - ep.	17.	Potassium P	[3460] E
6.	Cadmium P	[4.3]	18.	Selenium F	30UN R
7.	Calcium P	153000	19.	Silver P	6.0UN
8.	Chromium P	[4] 19N	20.	Sodium P	74700
9.	Cobalt P	9.6U	21.	Thallium F	60U
10.	Copper P	[5.0]	22.	Vanadium P	6.0UN
11.	Iron P	2050 E	23.	Zinc P	[16]
12.	Lead F	8.0N		Precent Solids (%)	NR
	Cyanide	U		Cr^{+6} - 50U	

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: CLEAR LIQUID

Lab Manager Kenneth Bond

Form 1

Sample No.
GW-WT-2

Date 4-8-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME Century Laboratories

SOW NO. 785

LAB SAMPLE ID. NO. 4465

CASE NO. FCH-880616/0520

Lab Receipt Date 8-9-88

QC REPORT NO. NA

Elements Identified and Measured

Concentration: Low ✓ Medium _____

Matrix: Water ✓ Soil _____ Sludge _____ Other _____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum P	7640 E	13.	Magnesium P	13400 E
2.	Antimony P	53u N	14.	Manganese P	1690 E
3.	Arsenic F	24 Ns	15.	Mercury	0.2uN
4.	Barium P	[37]	16.	Nickel P	11600 E
5.	Beryllium P	4.2u	17.	Potassium P	92600 E
6.	Cadmium P	16	18.	Selenium F	30uN R
7.	Calcium P	473000	19.	Silver P	6.0u N
8.	Chromium P	222 N	20.	Sodium P	294000
9.	Cobalt P	[40]	21.	Thallium F	6.0u
10.	Copper P	353 R	22.	Vanadium P	[14] N
11.	Iron P	16400 E	23.	Zinc P	4910
12.	Lead F	57 Ns		Precent Solids (%)	NR
	Cyanide	50		Cr+6 - 50u	

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: CLEAR LIQUID

Lab Manager Kenneth Bond

Form 1

Sample No.
GW-W5-2

Date 4-8-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME Century Laboratories

CASE NO. FCH-880616/0520

SOW NO. 785

Lab Receipt Date 8-9-88

LAB SAMPLE ID. NO. 4464

QC REPORT NO. NA

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum P	11000 E	13.	Magnesium P	58500 E
2.	Antimony P	53 U N	14.	Manganese P	1940 E
3.	Arsenic F	44 N S	15.	Mercury	2.7 N
4.	Barium P	[154]	16.	Nickel P	2450 E
5.	Beryllium P	4.2 U	17.	Potassium P	21300 E
6.	Cadmium P	11	18.	Selenium F	30 U N R
7.	Calcium P	361000	19.	Silver P	6.0 U N
8.	Chromium P	1370 N	20.	Sodium P	120000
9.	Cobalt P	[19]	21.	Thallium F	6.0 U
10.	Copper P	1150	22.	Vanadium P	[21] N
11.	Iron P	51900 E	23.	Zinc P	1090
12.	Lead F	61 N		Precent Solids (%)	NR
	Cyanide	40		Cr^{+6}	50 U

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: CLEAR LIQUID

Lab Manager Kenneth Bond

Form I

Sample No.
GW-W6-2

Date 4-8-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME Century Laboratories

CASE NO. FCH-F10516/0520

SOW NO. 785

Lab Receipt Date 3-10-87

LAB SAMPLE ID. NO. 4476

QC REPORT NO. NA

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum P	36600 E	13.	Magnesium P	130,000 E
2.	Antimony P	53U N	14.	Manganese P	5120 E
3.	Arsenic F	27 Ns	15.	Mercury	0.3 N
4.	Barium P	746	16.	Nickel P	601 E
5.	Beryllium P	4.2U	17.	Potassium P	13100 E
6.	Cadmium P	16	18.	Selenium F	30UNE R
7.	Calcium P	44000	19.	Silver P	6.0UN
8.	Chromium P	67 N	20.	Sodium P	153000
9.	Cobalt P	53	21.	Thallium F	6.0U
10.	Copper P	297 R	22.	Vanadium P	120 N
11.	Iron P	260000 E	23.	Zinc P	537
12.	Lead F	246 Ns		Precent Solids (%)	NR
	Cyanide	U		Cr+6 - 50U	

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: CLEAR LIQUID

Lab Manager Kenneth Lind

IFB Amend. One

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Form 1

Sample No.
GW-WB-2

Date 4-8-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME Century Laboratories

CASE NO. FCH-880516/0520

SOW NO. 785

Lab Receipt Date 3-9-88

LAB SAMPLE ID. NO. 4466

QC REPORT NO. NA

Elements Identified and Measured

Concentration: Low ✓ Medium _____

Matrix: Water ✓ Soil _____ Sludge _____ Other _____

ug/l or mg/kg dry weight (Circle One)

1.	Aluminum P	24u E	13.	Magnesium P	[51] E
2.	Antimony P	53u N	14.	Manganese P	[12] E
3.	Arsenic F	7.0UN	15.	Mercury	0.2UN
4.	Barium P	8.3u	16.	Nickel P	10u E
5.	Beryllium P	4.2u	17.	Potassium P	131u E
6.	Cadmium P	4.3u	18.	Selenium F	3.0UN R
7.	Calcium P	39 [115]	19.	Silver P	6.0u N
8.	Chromium P	6.9u N	20.	Sodium P	[173]
9.	Cobalt P	9.6u	21.	Thallium F	60u
10.	Copper P	48	22.	Vanadium P	6.0u N
11.	Iron P	[78] E	23.	Zinc P	6.2u
12.	Lead F	4.0UN		Precent Solids (%)	NR
	Cyanide	U		Cr^{+6}	50u

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: CLEAR LIQUID

Lab Manager Kenneth Ford

IFB Amend. One

Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No.
SWA - 1

Date 1-29-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME Century Laboratories
CASE NO. F2530
SOW NO. 785
Lab Receipt Date 10-30-87
LAB SAMPLE ID. NO. F2530-01
QC REPORT NO. FCH-1F

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum P	[45]	13.	Magnesium P	22200
2.	Antimony P	55u	14.	Manganese P	49
3.	Arsenic F	4.0u	15.	Mercury	0.2u
4.	Barium P	[54]	16.	Nickel P	11u
5.	Beryllium P	5.0u	17.	Potassium P	[1450]
6.	Cadmium P	3.7u	18.	Selenium F	2.0u
7.	Calcium P	74000	19.	Silver P	8.7uN UJ
8.	Chromium P	7.0	20.	Sodium P	17100
9.	Cobalt P	10u	21.	Thallium F	2.0u
10.	Copper P	[1.0]	22.	Vanadium P	2.7u
11.	Iron P	463	23.	Zinc P	13
12.	Lead F	2.0u		Precent Solids (%)	NR

Cyanide NR

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: CLEAR LIQUID

Lab Manager [signature]

000003

IFB Amend. One

Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No.
SW-A1

Date 2-01-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME Century Laboratories
CASE NO. F2546
SOW NO. 785
Lab Receipt Date 11-02-87
LAB SAMPLE ID. NO. F2546-01
QC REPORT NO. FCH-21

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum P	13.	Magnesium P
2.	Antimony P	14.	Manganese P
3.	Arsenic F	15.	Mercury
4.	Barium P	16.	Nickel P
5.	Beryllium P	17.	Potassium P
6.	Cadmium P	18.	Selenium F
7.	Calcium P	19.	Silver P
8.	Chromium P	20.	Sodium P
9.	Cobalt P	21.	Thallium F
10.	Copper P	22.	Vanadium P
11.	Iron P	23.	Zinc P
12.	Lead		Precent Solids (%) NR

Cyanide 10U R

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: CLEAR WATER

Lab Manager [signature]

00002

Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No.
SWA - 4

Date 1-29-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME Century Laboratories
CASE NO. F2530
SOW NO. 785
Lab Receipt Date 10-30-87
LAB SAMPLE ID. NO. F2530-02
QC REPORT NO. FCH-1

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum P	[20]	13.	Magnesium P	22200
2.	Antimony P	55u	14.	Manganese P	43
3.	Arsenic F	4.0u	15.	Mercury	0.2u
4.	Barium P	[53]	16.	Nickel P	11u
5.	Beryllium P	5.0u	17.	Potassium P	[1920]
6.	Cadmium P	3.7u	18.	Selenium F	2.0u
7.	Calcium P	73400	19.	Silver P	8.7uN WJ
8.	Chromium P	[4.0]	20.	Sodium P	17200
9.	Cobalt P	10u	21.	Thallium F	2.0u
10.	Copper P	[7.0]	22.	Vanadium P	2.7u
11.	Iron P	363	23.	Zinc P	[12]
12.	Lead F	2.0u		Precent Solids (%)	NR

Cyanide NR

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: Clear Liquid

Lab Manager [signature]

000010

IFB Amend. One

Form 1

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No.
SW-A4

Date 2-1-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME Century Laboratories
CASE NO. F8546
SOW NO. 785
Lab Receipt Date 11-2-87
LAB SAMPLE ID. NO. F2546-09
QC REPORT NO. FEH-21

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum P	13.	Magnesium P
2.	Antimony P	14.	Manganese P
3.	Arsenic F	15.	Mercury
4.	Barium P	16.	Nickel P
5.	Beryllium P	17.	Potassium P
6.	Cadmium P	18.	Selenium F
7.	Calcium P	19.	Silver P
8.	Chromium P	20.	Sodium P
9.	Cobalt P	21.	Thallium F
10.	Copper P	22.	Vanadium P
11.	Iron P	23.	Zinc P
12.	Lead		Precent Solids (%) NR

Cyanide 10u R

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: CLEAR WATER

Lab Manager [signature]

000022

IFB Amend. One

Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No.
SWA-4D

Date 1-29-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME Century Laboratories
SOW NO. 785
LAB SAMPLE ID. NO. F2530-03

CASE NO. F2530
Lab Receipt Date 10-30-87
QC REPORT NO. FCH-1F

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum P	[30]	13.	Magnesium P	21400
2.	Antimony P	55U	14.	Manganese P	37
3.	Arsenic F	4.0U	15.	Mercury	0.2U
4.	Barium P	[51]	16.	Nickel P	11U
5.	Beryllium P	5.0U	17.	Potassium P	[1450]
6.	Cadmium P	3.7U	18.	Selenium F	2.0U UJ
7.	Calcium P	72600	19.	Silver P	8.7UN
8.	Chromium P	[6.0]	20.	Sodium P	16400
9.	Cobalt P	10U	21.	Thallium F	2.0U
10.	Copper P	[9.0]	22.	Vanadium P	2.7U
11.	Iron P	291	23.	Zinc P	27
12.	Lead F	20U		Precent Solids (%)	NR

Cyanide NR

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: CLEAR LIQUID

Lab Manager [signature]

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IFB Amend. One

Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No.
SW-A4D

Date 2-1-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME Century Laboratories
CASE NO. F2546
SOW NO. 785
Lab Receipt Date 11-2-87
LAB SAMPLE ID. NO. F2546-10
QC REPORT NO. FCH-21

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum P	13.	Magnesium P
2.	Antimony P	14.	Manganese P
3.	Arsenic F	15.	Mercury
4.	Barium P	16.	Nickel P
5.	Beryllium P	17.	Potassium P
6.	Cadmium P	18.	Selenium F
7.	Calcium P	19.	Silver P
8.	Chromium P	20.	Sodium P
9.	Cobalt P	21.	Thallium F
10.	Copper P	22.	Vanadium P
11.	Iron P	23.	Zinc P
12.	Lead		Precent Solids (%) NR

Cyanide 10U R

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: CLEAR LIQUID

Lab Manager [signature]

000021

IFB Amend. One

Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No.
SWA - D1

Date 1-29-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME Century Laboratories
CASE NO. F2530
SOW NO. 785
Lab Receipt Date 10-30-87
LAB SAMPLE ID. NO. F2530-01
QC REPORT NO. FCM-1F

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum P	219	13.	Magnesium P	22200
2.	Antimony P	55u	14.	Manganese P	54
3.	Arsenic F	4.0u	15.	Mercury	0.2u
4.	Barium P	[59]	16.	Nickel P	60
5.	Beryllium P	5.0u	17.	Potassium P	[2440]
6.	Cadmium P	13	18.	Selenium F	2.0u
7.	Calcium P	76400	19.	Silver P	27N J
8.	Chromium P	39	20.	Sodium P	15900
9.	Cobalt P	[27]	21.	Thallium F	2.0u
10.	Copper P	32	22.	Vanadium P	[25]
11.	Iron P	527	23.	Zinc P	26
12.	Lead P	193		Precent Solids (%)	NR

Cyanide NR

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: CLEAR LIQUID

Lab Manager [signature]

Form 1

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No.
SW-D1

Date 2-1-44

INORGANIC ANALYSIS DATA SHEET

LAB NAME Century Laboratories
CASE NO. F2546
SOW NO. 785
Lab Receipt Date 11-2-44
LAB SAMPLE ID. NO. F2546-22
QC REPORT NO. FCR-21

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum P	13.	Magnesium P
2.	Antimony P	14.	Manganese P
3.	Arsenic F	15.	Mercury
4.	Barium P	16.	Nickel P
5.	Beryllium P	17.	Potassium P
6.	Cadmium P	18.	Selenium F
7.	Calcium P	19.	Silver P
8.	Chromium P	20.	Sodium P
9.	Cobalt P	21.	Thallium F
10.	Copper P	22.	Vanadium P
11.	Iron P	23.	Zinc P
12.	Lead		Precent Solids (%) NR

Cyanide 17 R

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: CLEAR LIQUID

Lab Manager [signature]

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IFB Amend. One

Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No. SWA-D4

Date 1-29-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME Century Laboratories
CASE NO. F2530
SOW NO. 785
Lab Receipt Date 10-30-87
LAB SAMPLE ID. NO. F2530-05
QC REPORT NO. FCH-1

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum P	207	13.	Magnesium P	22300
2.	Antimony P	55U	14.	Manganese P	42
3.	Arsenic F	4.0U	15.	Mercury	0.2U
4.	Barium P	[547]	16.	Nickel P	61
5.	Beryllium P	5.0U	17.	Potassium P	[2420]
6.	Cadmium P	12	18.	Selenium F	2.0U
7.	Calcium P	77000	19.	Silver P	24N J
8.	Chromium P	87	20.	Sodium P	15700
9.	Cobalt P	[247]	21.	Thallium F	2.0U
10.	Copper P	82	22.	Vanadium P	[25]
11.	Iron P	392	23.	Zinc P	[20]
12.	Lead P	199		Precent Solids (%)	NR

Cyanide NR

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: CLEAR LIQUID

Lab Manager [signature]

Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No.
SW-D4

Date 2-1-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME Century Laboratories
SOW NO. 785
LAB SAMPLE ID. NO. F2546-21

CASE NO. F2546
Lab Receipt Date 11-2-87
QC REPORT NO. FCH-21

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum P	13.	Magnesium P
2.	Antimony P	14.	Manganese P
3.	Arsenic F	15.	Mercury
4.	Barium P	16.	Nickel P
5.	Beryllium P	17.	Potassium P
6.	Cadmium P	18.	Selenium F
7.	Calcium P	19.	Silver P
8.	Chromium P	20.	Sodium P
9.	Cobalt P	21.	Thallium F
10.	Copper P	22.	Vanadium P
11.	Iron P	23.	Zinc P
12.	Lead		Precent Solids (%) NR

Cyanide 10u R

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: CLEAR LIQUID

Lab Manager [signature]

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IFB Amend. One

INORGANIC RESULTS

REPORT NO: F2530

UNITS: MG/L

QC NO: FCH-18

PARAMETER

SAMPLE ID:	HEXAVALENT CHROMIUM	TDS	TSS
SWA-1	.05U	311	12
SWA-4	.05U	358	1
SWA-4D	.05U	345	4
SWA-D1 SWD1	.05U	303	8
~~SWA-D4~~ SWD4	.05U	360	4

Client: CENTURY LABORATORIES
Job Number: 75582
Sample ID: S-6-1-4 (75582-1)

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Med
Date Analyzed: 10-10-87
Percent Moisture (Not Decanted): 28

Date Extracted/Prepared: 10-10-87
Conc/Dil Factor: 1

CAS #		ug/kg		CAS#		ug/kg
74-87-3	Chloromethane	1700	U	76-67-5	1,2-Dichloropropane	670
74-83-9	Bromomethane	1700	U	10061-02-6	Trans-1,3-Dichloropropene	670
75-01-4	Vinyl Chloride	1700	U	79-01-6	Trichloroethene	670
75-00-3	Chloroethane	1700	U	124-48-1	Dibromochloromethane	670
75-09-2	Methylene Chloride	670		79-00-5	1,1,2-Trichloroethane	670
67-64-1	Acetone	1700	U	71-43-2	Benzene	670
75-15-0	Carbon Disulfide	670	U	10061-01-5	cis-1,3-Dichloropropene	670
75-35-4	1,1-Dichloroethene	670	U	110-75-8	2-Chloroethylvinylether	1700
75-34-3	1,1-Dichloroethane	670	U	75-25-2	Bromoform	670
156-60-5	Trans-1,2-Dichloroethene	670	U	591-78-6	4-Methyl-2-Pentanone	1700
67-66-3	Chloroform	670	U	108-10-1	2-Hexanone	1700
107-06-2	1,2-Dichloroethane	670	U	127-18-4	Tetrachloroethene	3100
78-93-3	2-Butanone	5500		79-34-5	1,1,2,2-Tetrachloroethane	670
71-55-6	1,1,1-Trichloroethane	670	U	108-88-3	Toluene	8000
56-23-5	Carbon Tetrachloride	670	U	108-90-7	Chlorobenzene	670
108-05-4	Vinyl Acetate	1700	U	100-41-4	Ethylbenzene	4300
75-27-4	Bromodichloromethane	670	U	100-42-5	Styrene	5400
					Total Xylenes	31000

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets identification criteria but the result is less than the specified detection limit but greater than zero. For example, if a lower detection limit is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J.

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Summary

Client: CENTURY LABORATORIES INC.
Job Number: 75577
Sample ID: S-W-1-1 (75577-1)

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 10-10-87
Percent Moisture (Not Decanted): 9

Date Extracted/Prepared: 10-10-87
Conc/Dil Factor: 1

CAS #		ug/kg		CAS#		ug/kg	
74-87-3	Chloromethane	11	U	78-87-5	1,2-Dichloropropane	5	U
74-83-9	Bromomethane	11	U	10061-02-6	Trans-1,3-Dichloropropene	5	U
75-01-4	Vinyl Chloride	11	U	79-01-6	Trichloroethene	5	U
75-00-3	Chloroethane	11	U	124-48-1	Dibromochloromethane	5	U
75-09-2	Methylene Chloride	5	U	79-00-5	1,1,2-Trichloroethane	5	U
67-64-1	Acetone	21	B	71-43-2	Benzene	5	U
75-15-0	Carbon Disulfide	5	U	10061-01-5	cis-1,3-Dichloropropene	5	U
75-35-4	1,1-Dichloroethene	5	U	110-75-8	2-Chloroethylvinylether	11	U
75-34-3	1,1-Dichloroethane	5	U	75-25-2	Bromoform	5	U
156-60-5	Trans-1,2-Dichloroethene	5	U	591-78-6	4-Methyl-2-Pentanone	11	U
67-66-3	Chloroform	5	U	108-10-1	2-Hexanone	11	U
107-06-2	1,2-Dichloroethane	5	U	127-18-4	Tetrachloroethene	5	U
78-93-3	2-Butanone	11	U	79-34-5	1,1,2,2-Tetrachloroethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U	108-88-3	Toluene	5	U
56-23-5	Carbon Tetrachloride	5	U	108-90-7	Chlorobenzene	5	U
108-05-4	Vinyl Acetate	11	U	100-41-4	Ethylbenzene	5	U
75-27-4	Bromodichloromethane	5	U	100-42-5	Styrene	5	U
					Total Xylenes	5	U

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicate the presence of a compound that meets identification criteria but the result is less than the specified detection limit but greater than zero (i.e. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: CENTURY LABORATORIES INC.
Job Number: 75577
Sample ID: S-W-1-2

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 10-10-87
Percent Moisture (Not Decanted): 8

Date Extracted/Prepared: 10-10-87
Conc/Dil Factor: 1

CAS #		ug/kg		CAS#		ug/kg	
74-87-3	Chloromethane	11	U	78-87-5	1,2-Dichloropropane	5	U
74-83-9	Bromomethane	11	U	10061-02-6	Trans-1,3-Dichloropropene	5	U
75-01-4	Vinyl Chloride	11	U	79-01-6	Trichloroethene	5	U
75-00-3	Chloroethane	11	U	124-48-1	Dibromochloromethane	5	U
75-09-2	Methylene Chloride	5	U	79-00-5	1,1,2-Trichloroethane	5	U
67-64-1	Acetone	11	U	71-43-2	Benzene	5	U
75-15-0	Carbon Disulfide	5	U	10061-01-5	cis-1,3-Dichloropropene	5	U
75-35-4	1,1-Dichloroethene	5	U	110-75-8	2-Chloroethylvinylether	11	U
75-34-3	1,1-Dichloroethane	5	U	75-25-2	Bromoform	5	U
156-60-5	Trans-1,2-Dichloroethene	5	U	591-78-6	4-Methyl-2-Pentanone	11	U
67-77-3	Chloroform	5	U	108-10-1	2-Hexanone	11	U
107-06-2	1,2-Dichloroethane	5	U	127-18-4	Tetrachloroethene	5	U
78-93-3	2-Butanone	11	U	79-34-5	1,1,2,2-Tetrachloroethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U	108-88-3	Toluene	5	U
56-23-5	Carbon Tetrachloride	5	U	108-90-7	Chlorobenzene	5	U
108-05-4	Vinyl Acetate	11	U	100-41-4	Ethylbenzene	5	U
75-27-4	Bromodichloromethane	5	U	100-42-5	Styrene	5	U
					Total Xylenes	5	U

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets identification criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: [illegible]
Job Number: [illegible]
Sample ID: [illegible]

[illegible] Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: [illegible]
Percent Moisture (Not Decanted): [illegible]

Date Extracted/Prepared: [illegible]
Dilution Factor: [illegible]

CAS #		ug/kg		CAS#		ug/kg	
74-87-3	Chloromethane	[illegible]	[illegible]	76-87-5	1,2-Dichloropropane	[illegible]	[illegible]
74-83-9	Bromomethane	[illegible]	[illegible]	10061-02-6	Trans-1,3-Dichloropropene	[illegible]	[illegible]
75-01-4	Vinyl Chloride	[illegible]	[illegible]	79-01-6	Trichloroethene	[illegible]	[illegible]
75-00-3	Chloroethane	[illegible]	[illegible]	124-48-1	Dibromochloromethane	[illegible]	[illegible]
75-09-2	Methylene Chloride	[illegible]	[illegible]	79-00-5	1,1,2-Trichloroethane	[illegible]	[illegible]
67-64-1	Acetone	[illegible]	[illegible]	71-43-2	Benzene	[illegible]	[illegible]
75-15-0	Carbon Disulfide	[illegible]	[illegible]	10061-01-5	cis-1,3-Dichloropropene	[illegible]	[illegible]
75-35-4	1,1-Dichloroethene	[illegible]	[illegible]	110-75-8	2-Chloroethyl vinylether	[illegible]	[illegible]
75-34-3	1,1-Dichloroethane	[illegible]	[illegible]	75-25-2	Bromoform	[illegible]	[illegible]
156-60-5	Trans-1,2-Dichloroethene	[illegible]	[illegible]	591-78-6	2-Hexanone	[illegible]	[illegible]
67-66-3	Chloroform	[illegible]	[illegible]	108-10-1	4-Methyl-2-Pentanone	[illegible]	[illegible]
107-06-2	1,2-Dichloroethane	[illegible]	[illegible]	127-18-4	Tetrachloroethene	[illegible]	[illegible]
78-93-3	2-Butanone	[illegible]		79-34-5	1,1,2,2-Tetrachloroethane	[illegible]	[illegible]
71-55-6	1,1,1-Trichloroethane	[illegible]	[illegible]	108-88-3	Toluene	[illegible]	
56-23-5	Carbon Tetrachloride	[illegible]	[illegible]	108-90-7	Chlorobenzene	[illegible]	[illegible]
[illegible]	Vinyl Acetate	[illegible]	[illegible]	[illegible]	Ethylbenzene	[illegible]	[illegible]
75-27-4	Bromodichloromethane	[illegible]	[illegible]	100-42-5	Styrene	[illegible]	[illegible]
					Total Xylenes	[illegible]	[illegible]

Data Reporting Qualifiers

Value: If the result is a value greater than or equal to the detection limit.

B: The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C: This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J: Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets identification criteria but the result is less than the specified detection limit but greater than zero. For example, if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated, report as 3J.

-: Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit in the sample.

Client: CENTURY LABORATORIES
Job Number: 75598
Sample ID: 5-B-2-5 (75598-6)

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 10-25-87
Percent Moisture (Not Decanted): 13

Date Extracted/Prepared: 10-25-87
Conc/Dil Factor: 1

CAS #		ug/kg		CAS#		ug/kg	
74-87-3	Chloromethane	11	U	78-87-5	1,2-Dichloropropane	6	
74-83-9	Bromomethane	11	U	10061-02-6	Trans-1,3-Dichloropropene	6	-
75-01-4	Vinyl Chloride	11	U	79-01-6	Trichloroethene	6	U
75-00-3	Chloroethane	11	U	124-48-1	Dibromochloromethane	6	U
75-09-2	Methylene Chloride	2	J	79-00-5	1,1,2-Trichloroethane	6	U
67-64-1	Acetone	11	U	71-43-2	Benzene	6	U
75-15-0	Carbon Disulfide	6	U	10061-01-5	cis-1,3-Dichloropropene	6	U
75-35-4	1,1-Dichloroethene	6	U	110-75-8	2-Chloroethylvinylether	11	-
75-34-3	1,1-Dichloroethane	6	U	75-25-2	Bromoform	6	U
156-60-5	Trans-1,2-Dichloroethene	6	U	591-78-6	4-Methyl-2-Pentanone	11	U
67-66-3	Chloroform	6	U	108-10-1	2-Hexanone	11	U
107-06-2	1,2-Dichloroethane	6	U	127-18-4	Tetrachloroethene	6	U
78-93-3	2-Butanone	11	U	79-34-5	1,1,2,2-Tetrachloroethane	6	U
71-55-6	1,1,1-Trichloroethane	6	U	108-88-3	Toluene	6	U
56-23-5	Carbon Tetrachloride	6	U	108-90-7	Chlorobenzene	6	U
108-05-4	Vinyl Acetate	11	U	100-41-4	Ethylbenzene	6	-
75-27-4	Bromodichloromethane	6	U	100-42-5	Styrene	6	U
					Total Xylenes	6	-

Data Reporting Qualifiers

value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets identification criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J).

- Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

FORM I

Client Sample No.
S-W-2-1b

Date: 01-08-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2487

SOW NO.: 785

LAB RECEIPT DATE: 10-24-87

LAB SAMPLE ID. NO.: F2487-02

QC REPORT NO.: FCH-07

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	5182	R	13	Magnesium P	11500 E	J
2	Antimony P	14 UN	R	14	Manganese P	292 N	R
3	Arsenic F	12 U		15	Mercury	0.2 N*	R
4	Barium P	99	R	16	Nickel P	18 N*	J
5	Beryllium P	1.2 U		17	Potassium P	[533]	
6	Cadmium P	0.9 U		18	Selenium F	0.5 UN	UJ
7	Calcium P	66100	R	19	Silver P	2.1 U	
8	Chromium P	38		20	Sodium P	[189]	
9	Cobalt P	2.5 U		21	Thallium F	4.9 s	
10	Copper P	26		22	Vanadium P	[12]	
11	Iron P	10600	R	23	Zinc P	54 *N	J
12	Lead P	37 *			Percent Solids (%)	81	
	Cyanide	0.2 U	UJ				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-W-2-2

Date: 01-08-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2487

SOW NO.: 785

LAB RECEIPT DATE: 10-24-87

LAB SAMPLE ID. NO.: F2487-03

QC REPORT NO.: FCH-07

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	6439	13	Magnesium P	4145 E	J
2	Antimony P	12 UN R	14	Manganese P	421 N	J
3	Arsenic F	11 U	15	Mercury	0.1 UN*	R
4	Barium P	75	16	Nickel P	87 N*	J
5	Beryllium P	1.1 U	17	Potassium P	1402	
6	Cadmium P	0.8 U	18	Selenium F	0.4 UN	UJ
7	Calcium P	22300	19	Silver P	1.9 U	
8	Chromium P	177	20	Sodium P	4235	
9	Cobalt P	2.2 U	21	Thallium F	0.4 U	
10	Copper P	28	22	Vanadium P	14	
11	Iron P	17600	23	Zinc P	92 N	J
12	Lead F	4.7		Percent Solids (%)	90	
	Cyanide	0.2 U UJ				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

000005

FORM I

Client Sample No.
S-W-2-3

Date: 01-06-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2487

SOW NO.: 785

LAB RECEIPT DATE: 10-24-87

LAB SAMPLE ID. NO.: F2487-04

QC REPORT NO.: FCH-07

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	4740		13	Magnesium P	1167 E	J
2	Antimony P	12 UN	R	14	Manganese P	224 N	J
3	Arsenic F	5.8		15	Mercury	0.1 UN*	R
4	Barium P	[23]		16	Nickel P	[5.3] N*	J
5	Beryllium P	1.1 U		17	Potassium P	[237]	
6	Cadmium P	0.8 U		18	Selenium F	0.4 UN	UJ
7	Calcium P	[777]		19	Silver P	1.9 U	
8	Chromium P	18		20	Sodium P	[62]	
9	Cobalt P	2.2 U		21	Thallium F	4.4 s	
10	Copper P	[3.8]		22	Vanadium P	13	
11	Iron P	101200		23	Zinc P	16 *N	
12	Lead F	4.2 s			Percent Solids (%)	90	J
	Cyanide	0.2 U	UJ				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond 000005

FORM I

Client Sample No.
S-W-2-4

Date: 01-08-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2487

SOW NO.: 785

LAB RECEIPT DATE: 10-24-87

LAB SAMPLE ID. NO.: F2487-05

QC REPORT NO.: FCH-07

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	957		13	Magnesium P	7019 E J
2	Antimony P	13 UN R		14	Manganese P	82 N J
3	Arsenic F	1.2 US+		15	Mercury	0.1 UN* R
4	Barium P	2.2 U		16	Nickel P	2.6 UN* UJ
5	Beryllium P	1.2 U		17	Potassium P	[74]
6	Cadmium P	0.9 U		18	Selenium F	0.5 UN UJ
7	Calcium P	32500		19	Silver P	2.0 U
8	Chromium P	13		20	Sodium P	[100]
9	Cobalt P	2.4 U		21	Thallium F	0.5 U
10	Copper P	1.3 U		22	Vanadium P	[2.4]
11	Iron P	3067		23	Zinc P	8.7 N J
12	Lead F	3.5 s			Percent Solids (%)	85
	Cyanide	0.2 U UJ				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond 000007

FORM I

Client Sample No.
S-W-2-5

Date: 01-08-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2487

SOW NO.: 785

LAB RECEIPT DATE: 10-24-87

LAB SAMPLE ID. NO.: F2487-06

QC REPORT NO.: FCH-07

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	2949		13	Magnesium P	14600 E	J
2	Antimony P	12 UN	R	14	Manganese P	301 N	J
3	Arsenic F	7.4		15	Mercury	0.1 UN*	R
4	Barium P	[18]		16	Nickel P	41 N*	J
5	Beryllium P	1.1 U		17	Potassium P	[536]	
6	Cadmium P	0.8 U		18	Selenium F	0.4 UN	UJ
7	Calcium P	66000		19	Silver P	1.8 U	
8	Chromium P	27		20	Sodium P	[101]	
9	Cobalt P	[4.7]		21	Thallium F	0.4 U	
10	Copper P	6.4		22	Vanadium P	[10]	
11	Iron P	9458		23	Zinc P	24 N*	J
12	Lead F	5.5			Percent Solids (%)	94	
	Cyanide	0.2 U	UJ				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
SW1-1

Date: 11-20-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2334

SOW NO.: 785

LAB RECEIPT DATE: 10-08-87

LAB SAMPLE ID. NO.: F2334-01

QC REPORT NO.: FCH-01

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	5243	13	Magnesium P	6135 *
2	Antimony P	9.9 UN R	14	Manganese P	287
3	Arsenic F	4.5	15	Mercury	0.1 U
4	Barium P	40	16	Nickel P	7.9
5	Beryllium P	0.9 U	17	Potassium P	[556]E J
6	Cadmium P	0.7 U	18	Selenium F	0.4 U
7	Calcium P	31400	19	Silver P	1.6 U
8	Chromium P	11 *	20	Sodium P	[86]
9	Cobalt P	[2.0]	21	Thallium F	0.4 U
10	Copper P	12	22	Vanadium P	12E J
11	Iron P	9694	23	Zinc P	40E J
12	Lead F	23		Percent Solids (%)	92
	Cyanide	0.76UN* R			

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond 0000C

FORM I

Client Sample No.
SW1-2

Date: 11-20-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2334

SOW NO.: 785

LAB RECEIPT DATE: 10-08-87

LAB SAMPLE ID. NO.: F2334-02

QC REPORT NO.: FCH-01

Elements Identified and Measured
++++++++++++++++++++++++++++++++

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	3340	13	Magnesium P	6146 *
2	Antimony P	12 UN R	14	Manganese P	276
3	Arsenic F	3.5	15	Mercury	0.1 U
4	Barium P	[31]	16	Nickel P	[4.8]
5	Beryllium P	1.1 U	17	Potassium P	[314] E J
6	Cadmium P	0.8 U	18	Selenium F	0.4 U
7	Calcium P	16300	19	Silver P	1.9 U
8	Chromium P	7.1 *	20	Sodium P	[74]
9	Cobalt P	2.2 U	21	Thallium F	0.4 U
10	Copper P	18	22	Vanadium P	[10] E J
11	Iron P	10500	23	Zinc P	42 E J
12	Lead F	30		Percent Solids (%)	92
	Cyanide	0.42UN+ R			

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

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FORM I

Client Sample No.
SW1-3

Date: 11-20-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2334

SOW NO.: 785

LAB RECEIPT DATE: 10-08-87

LAB SAMPLE ID. NO.: F2334-03

QC REPORT NO.: FCH-01

Elements Identified and Measured

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	7119	13	Magnesium P	3850 *
2	Antimony P	10 UN R	14	Manganese P	1006
3	Arsenic F	10	15	Mercury	0.1 U
4	Barium P	69	16	Nickel P	9.7
5	Beryllium P	0.9 U	17	Potassium P	[324] E J
6	Cadmium P	0.7 U	18	Selenium F	0.4 U
7	Calcium P	9985	19	Silver P	1.6 U
8	Chromium P	15 *	20	Sodium P	[70]
9	Cobalt P	[6.1]	21	Thallium F	0.4 U
10	Copper P	7.5	22	Vanadium P	24 E J
11	Iron P	20400	23	Zinc P	33 E J
12	Lead F	13 s		Percent Solids (%)	87
	Cyanide	0.36UN* R			

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond 00000

FORM I

Client Sample No.
SW1-4

Date: 11-20-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2334

SOW NO.: 785

LAB RECEIPT DATE: 10-08-87

LAB SAMPLE ID. NO.: F2334-04

QC REPORT NO.: FCH-01

Elements Identified and Measured
++++++++++++++++++++++++++++++++

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	2719	13	Magnesium P	10200 *
2	Antimony P	9.7 UN R	14	Manganese P	130
3	Arsenic F	[1.4]	15	Mercury	0.1 U
4	Barium P	[1.8]	16	Nickel P	[6.9]
5	Beryllium P	0.9 U	17	Potassium P	[194] E J
6	Cadmium P	0.7 U	18	Selenium F	0.4 U
7	Calcium P	64100	19	Silver P	1.5 U
8	Chromium P	9.4 *	20	Sodium P	[187]
9	Cobalt P	1.8 U	21	Thallium F	0.4 U
10	Copper P	[1.2]	22	Vanadium P	[7.3] E J
11	Iron P	5996	23	Zinc P	14* E J
12	Lead F	2.1		Percent Solids (%)	90
	Cyanide	0.48UN+ R			

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

000006

FORM I

Client Sample No.
SW1-5

Date: 11-20-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2334

SOW NO.: 785

LAB RECEIPT DATE: 10-08-87

LAB SAMPLE ID. NO.: F2334-05

QC REPORT NO.: FCH-01

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	881		13	Magnesium P	12100 *
2	Antimony P	12 UN	R	14	Manganese P	122
3	Arsenic F	0.9 U s		15	Mercury	0.1 U
4	Barium P	[3.3]		16	Nickel P	2.4 U
5	Beryllium P	1.1 U		17	Potassium P	[80] E J
6	Cadmium P	0.8 U		18	Selenium F	0.4 U
7	Calcium P	37500		19	Silver P	1.9 U
8	Chromium P	7.0 *		20	Sodium P	[83]
9	Cobalt P	2.2 U		21	Thallium F	0.4 U
10	Copper P	1.2 U		22	Vanadium P	[2.6] E J
11	Iron P	3804		23	Zinc P	13 E J
12	Lead F	1.3 s			Percent Solids (%)	86
	Cyanide	0.62UN*	R			

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
SW1-6

Date: 11-20-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2334

SOW NO.: 785

LAB RECEIPT DATE: 10-08-87

LAB SAMPLE ID. NO.: F2334-06

QC REPORT NO.: FCH-01

Elements Identified and Measured
++++++++++++++++++++++++++++++++

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	1273	13	Magnesium P	11800 *
2	Antimony P	11 UN R	14	Manganese P	110
3	Arsenic F	[1.4]	15	Mercury	0.1 U
4	Barium P	[5.1]	16	Nickel P	[2.7]
5	Beryllium P	1.0 U	17	Potassium P	[155] E J
6	Cadmium P	0.8 U	18	Selenium F	0.4 U
7	Calcium P	43100	19	Silver P	1.8 U
8	Chromium P	9.0 *	20	Sodium P	[73]
9	Cobalt P	2.1 U	21	Thallium F	0.4 U
10	Copper P	[1.4]	22	Vanadium P	[4.5] E J
11	Iron P	4760	23	Zinc P	14 E J
12	Lead F	2.1 s		Percent Solids (%)	88
	Cyanide	0.75UN* R			

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-W-2-1a

Date: 01-08-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2487

SOW NO.: 785

LAB RECEIPT DATE: 10-24-87

LAB SAMPLE ID. NO.: F2487-01

QC REPORT NO.: FCH-07

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	995	R	13	Magnesium P	5566 E	J
2	Antimony P	14 UN	R	14	Manganese P	66 N	R
3	Arsenic F	13 U		15	Mercury	0.5 N*	R
4	Barium P	[4.4]	R	16	Nickel P	23 N*	J
5	Beryllium P	1.3 U		17	Potassium P	[143]	
6	Cadmium P	1.0 U		18	Selenium F	0.5 UN	UJ
7	Calcium P	17400	R	19	Silver P	2.2 U	
8	Chromium P	13		20	Sodium P	[279]	
9	Cobalt P	2.6 U		21	Thallium F	5.2 s	
10	Copper P	[1.5]		22	Vanadium P	[2.6]	
11	Iron P	2237	R	23	Zinc P	24 N*	J
12	Lead F	9.5			Percent Solids (%)	78	
	Cyanide	5.1	J				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Ford

Kenneth Ford

FORM I

Client Sample No.
S-W-3b-3a

Date: 01-18-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2456

SOW NO.: 785

LAB RECEIPT DATE: 10-22-87

LAB SAMPLE ID. NO.: F2456-03

QC REPORT NO.: FCH-10

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	8912		13	Magnesium P	[1220]	
2	Antimony P	14 U		14	Manganese P	184	
3	Arsenic F	38		15	Mercury	4.1	
4	Barium P	145	R	16	Nickel P	651	
5	Beryllium P	1.3 U		17	Potassium P	[1118]	
6	Cadmium P	0.9 U		18	Selenium F	5.1 UN	UJ
7	Calcium P	29700		19	Silver P	2.2 U	
8	Chromium P	1798		20	Sodium P	[225]	
9	Cobalt P	[12]		21	Thallium F	0.5 U	
10	Copper P	444		22	Vanadium P	16	
11	Iron P	26900		23	Zinc P	720	
12	Lead P	60			Percent Solids (%)	78	
	Cyanide	0.3 UN	R				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-W-3b-3b

Date: 01-18-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2456

SOW NO.: 785

LAB RECEIPT DATE: 10-22-87

LAB SAMPLE ID. NO.: F2456-04

QC REPORT NO.: FCH-10

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	7198	13	Magnesium P	[986]
2	Antimony P	14 U	14	Manganese P	135
3	Arsenic F	25 U	15	Mercury	5.1
4	Barium P	** R	16	Nickel P	431
5	Beryllium P	1.2 U	17	Potassium P	[946]
6	Cadmium P	0.9 U	18	Selenium F	0.5 UN UJ
7	Calcium P	22200	19	Silver P	2.1 U
8	Chromium P	2116	20	Sodium P	[107]
9	Cobalt P	[9.8]	21	Thallium F	0.5 U
10	Copper P	663	22	Vanadium P	16
11	Iron P	24500	23	Zinc P	506
12	Lead P	66		Percent Solids (%)	81
	Cyanide	5.3 N J			

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-W-3b-1

Date: 01-18-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2456

SOW NO.: 785

LAB RECEIPT DATE: 10-22-87

LAB SAMPLE ID. NO.: F2456-01

QC REPORT NO.: FCH-10

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	4464	13	Magnesium P	15500
2	Antimony P	12 U	14	Manganese P	243
3	Arsenic F	4.5 s	15	Mercury	0.2
4	Barium P	45	16	Nickel P	333
5	Beryllium P	1.1 U	17	Potassium P	[728]
6	Cadmium P	4.8	18	Selenium F	0.4 UN UJ
7	Calcium P	47600	19	Silver P	1.9 U
8	Chromium P	1010	20	Sodium P	[146]
9	Cobalt P	[9.2]	21	Thallium F	0.4 U
10	Copper P	445	22	Vanadium P	14
11	Iron P	14600	23	Zinc P	631
12	Lead P	70		Percent Solids (%)	90
	Cyanide	0.2 UN R			

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-W-3b-2

Date: 01-18-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2456

SOW NO.: 785

LAB RECEIPT DATE: 10-22-87

LAB SAMPLE ID. NO.: F2456-02

QC REPORT NO.: FCH-10

Elements Identified and Measured
++++++++++++++++++++++++++++++++

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	2033	13	Magnesium P	[776]
2	Antimony P	13 U	14	Manganese P	47
3	Arsenic F	24 U	15	Mercury	1.8
4	Barium P	71	16	Nickel P	112
5	Beryllium P	1.2 U	17	Potassium P	2383
6	Cadmium P	0.9 U	18	Selenium F	4.7 UN UJ
7	Calcium P	13900	19	Silver P	2.1 U
8	Chromium P	681	20	Sodium P	[143]
9	Cobalt P	2.4 U	21	Thallium F	0.5 U
10	Copper P	222	22	Vanadium P	14
11	Iron P	42700	23	Zinc P	57
12	Lead P	28		Percent Solids (%)	85
	Cyanide	0.2 UN R			

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

000001

FORM I

Client Sample No.
S-W-3b-4

Date: 01-18-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2456

SOW NO.: 785

LAB RECEIPT DATE: 10-22-87

LAB SAMPLE ID. NO.: F2456-05

QC REPORT NO.: FCH-10

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	3098	13	Magnesium P	1323	
2	Antimony P	13 U	14	Manganese P	64	
3	Arsenic F	24 U	15	Mercury	0.4	
4	Barium P	[38]	16	Nickel P	477	
5	Beryllium P	1.2 U	17	Potassium P	[445]	
6	Cadmium P	0.9 U	18	Selenium F	0.5 UN	UJ
7	Calcium P	5589	19	Silver P	2.0 U	
8	Chromium P	1863	20	Sodium P	[72]	
9	Cobalt P	[5.2]	21	Thallium F	0.5 U	
10	Copper P	1135	22	Vanadium P	[8.2]	
11	Iron P	13600	23	Zinc P	111	
12	Lead F	21 s		Percent Solids (%)	85	
	Cyanide	0.2 UN R				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
SW36-5

Date: 01-14-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2482

SOW NO.: 785

LAB RECEIPT DATE: 10-23-87

LAB SAMPLE ID. NO.: F2482-02

QC REPORT NO.: FCH-09

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	2375 *		13	Magnesium P	12100	E J
2	Antimony P	12 UN	UJ	14	Manganese P	194	
3	Arsenic F	4.0 N	J	15	Mercury	0.1 N *	J
4	Barium P	[9.8]		16	Nickel P	184	
5	Beryllium P	1.1 U		17	Potassium P	[241]	
6	Cadmium P	0.6 U		18	Selenium F	0.4 UN	UJ
7	Calcium P	42000		19	Silver P	1.9 U	
8	Chromium P	205		20	Sodium P	[53]	
9	Cobalt P	[3.8]		21	Thallium F	0.4 U	
10	Copper P	47		22	Vanadium P	[9.4]	
11	Iron P	9293 *	E	23	Zinc P	212	
12	Lead F	3.4			Percent Solids (%)	90	
	Cyanide	0.2 UN	UJ				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

000004

FORM I

Client Sample No.
SWB3-6

Date: 01-14-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2462

SOW NO.: 785

LAB RECEIPT DATE: 10-23-87

LAB SAMPLE ID. NO.: F2462-01

QC REPORT NO.: FCH-09

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	6855 *		13	Magnesium P	25500 E	J
2	Antimony P	12 UN	UJ	14	Manganese P	283	
3	Arsenic F	[2.2] N	J	15	Mercury	0.1 UN *	R
4	Barium P	[30]		16	Nickel P	16	
5	Beryllium P	1.1 U		17	Potassium P	1539	
6	Cadmium P	0.8 U		18	Selenium F	0.4 UN	UJ
7	Calcium P	72200		19	Silver P	1.9 U	
8	Chromium P	26		20	Sodium P	[130]	
9	Cobalt P	[6.0]		21	Thallium F	0.4 U	
10	Copper P	7.8		22	Vanadium P	17	
11	Iron P	12800 *	E	23	Zinc P	34	
12	Lead F	4.0			Percent Solids (%)	69	
	Cyanide	0.2 UN	UJ				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

000003

FORM I

Client Sample No.
S-w-3B-7

Date: 01-27-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2510

SOW NO.: 785

LAB RECEIPT DATE: 10-27-87

LAB SAMPLE ID. NO.: F2510-01

QC REPORT NO.: FCH-16

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	1170 *		13	Magnesium P	7500
2	Antimony P	22 N	J	14	Manganese P	56
3	Arsenic F	[1.2]		15	Mercury	0.1 UN
4	Barium P	[4.2]		16	Nickel P	[4.4]
5	Beryllium P	1.2 U		17	Potassium P	[186]
6	Cadmium P	0.9 U		18	Selenium F	0.5 UN UJ
7	Calcium P	23100		19	Silver P	2.0 U
8	Chromium P	16		20	Sodium P	[57]
9	Cobalt P	2.3 U		21	Thallium F	0.5 U
10	Copper P	1.3 U		22	Vanadium P	[5.6]
11	Iron P	2660 *		23	Zinc P	8.7 *
12	Lead F	1.2 U			Percent Solids (%)	85
	Cyanide	0.2 U	UJ			

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond 000000

FORM I

Client Sample No.
S-W-3B-6

Date: 01-27-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2510

SOW NO.: 785

LAB RECEIPT DATE: 10-28-87

LAB SAMPLE ID. NO.: F2510-02

QC REPORT NO.: FCH-16

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	691 *	
2	Antimony P	13 UN	UJ
3	Arsenic F	1.0 U	
4	Barium P	[2.4]	
5	Beryllium P	1.2 U	
6	Cadmium P	0.9 U	
7	Calcium P	17200	
8	Chromium P	11	
9	Cobalt P	2.4 U	
10	Copper P	[2.9]	
11	Iron P	1630 *	
12	Lead F	0.5 U	
	Cyanide	0.2 U	UJ
13	Magnesium P	4260	
14	Manganese P	41	
15	Mercury	0.1 UN	
16	Nickel P	2.5 U	
17	Potassium P	[82]	
18	Selenium F	0.5 UN	UJ
19	Silver P	2.1 U	
20	Sodium P	[51]	
21	Thallium F	0.5 U	
22	Vanadium P	0.6 U	
23	Zinc P	[4.1]	
	Percent Solids (%)	83	

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

FORM I

Client Sample No.
S-W-35-9

Date: 01-27-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2510

SOW NO.: 785

LAB RECEIPT DATE: 10-27-87

LAB SAMPLE ID. NO.: F2510-03

QC REPORT NO.: FCH-16

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	591 *		13	Magnesium P	4710	
2	Antimony P	13 UN	UJ	14	Manganese P	44	
3	Arsenic F	[2.2]		15	Mercury	0.1 UN	
4	Barium P	[2.4]		16	Nickel P	[3.6]	
5	Beryllium P	1.2 U		17	Potassium P	[80]	
6	Cadmium P	0.9 U		18	Selenium F	0.5 UN	UJ
7	Calcium P	15900		19	Silver P	8.5	
8	Chromium P	13		20	Sodium P	[128]	
9	Cobalt P	2.4 U		21	Thallium F	0.5 U	
10	Copper P	[2.2]		22	Vanadium P	[1.0]	
11	Iron P	1580 *		23	Zinc P	[4.1]	
12	Lead F	0.5 U			Percent Solids (%)	83	
	Cyanide	0.2 U	UJ				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

000003

FORM I

Client Sample No.
S-W-3B-10

Date: 01-27-86

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2510

SOW NO.: 785

LAB RECEIPT DATE: 10-27-87

LAB SAMPLE ID. NO.: F2510-04

QC REPORT NO.: FCH-16

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	542 *		13	Magnesium P	4510
2	Antimony P	13 UN	UJ	14	Manganese P	41
3	Arsenic F	1.0 U		15	Mercury	0.1 UN
4	Barium P	[2.6]		16	Nickel P	2.6 U
5	Beryllium P	1.2 U		17	Potassium P	[61]
6	Cadmium P	0.9 U		18	Selenium F	0.5 UN UJ
7	Calcium P	15900		19	Silver P	2.1 U
8	Chromium P	12		20	Sodium P	[**]
9	Cobalt P	2.4 U		21	Thallium F	0.5 U
10	Copper P	[1.4]		22	Vanadium P	[1.4]
11	Iron P	1540 *		23	Zinc P	[4.1]
12	Lead F	0.5 U			Percent Solids (%)	84
	Cyanide	0.2 U	UJ			

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-W-3E-11

Date: 01-27-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2510

SOW NO.: 785

LAB RECEIPT DATE: 10-27-87

LAB SAMPLE ID. NO.: F2510-05

QC REPORT NO.: FCH-16

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	934 *		13	Magnesium P	5820
2	Antimony P	13 UN	UJ	14	Manganese P	56
3	Arsenic F	0.9 U		15	Mercury	0.1 UN
4	Barium P	[4.5]		16	Nickel P	[2.6]
5	Beryllium P	1.2 U		17	Potassium P	[108]
6	Cadmium P	0.9 U		18	Selenium F	0.5 UN UJ
7	Calcium P	20700		19	Silver P	2.1 U
8	Chromium P	13		20	Sodium P	[128]
9	Cobalt P	2.4 U		21	Thallium F	0.5 U
10	Copper P	1.3 U		22	Vanadium P	[2.8]
11	Iron P	2480 *		23	Zinc P	7.3 *
12	Lead F	0.5 U			Percent Solids (%)	85
	Cyanide	0.2 U	UJ			

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager: Kenneth Bond

Kenneth Bond

000067

FORM I

Client Sample No.
S-W-3B-12

Date: 01-27-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2510

SOW NO.: 785

LAB RECEIPT DATE: 10-27-87

LAB SAMPLE ID. NO.: F2510-06

QC REPORT NO.: FCH-16

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	925 *		13	Magnesium P	4320
2	Antimony P	13 UN	UJ	14	Manganese P	49
3	Arsenic F	1.0 U		15	Mercury	0.1 UN
4	Barium P	[5.1]		16	Nickel P	2.7 U
5	Beryllium P	1.2 U		17	Potassium P	[131]
6	Cadmium P	0.9 U		18	Selenium F	0.5 UN UJ
7	Calcium P	15800		19	Silver P	2.1 U
8	Chromium P	14		20	Sodium P	[264]
9	Cobalt P	2.4 U		21	Thallium F	0.5 U
10	Copper P	1.4 U		22	Vanadium P	[3.1]
11	Iron P	2120 *		23	Zinc P	5.6 *
12	Lead F	0.5 U			Percent Solids (%)	83
	Cyanide	0.2 U	UJ			

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

000003

FORM I

Client Sample No.
S-W-4-1

Date: 01-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2429

SOW NO.: 785

LAB RECEIPT DATE: 10-17-87

LAB SAMPLE ID. NO.: F2429-16

QC REPORT NO.: FCH-11

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	3624 *		13	Magnesium P	7293 E	J
2	Antimony P	12 UN	R	14	Manganese P	190 N*	J
3	Arsenic F	14 sN	J	15	Mercury	0.3	J
4	Barium P	208 N	J	16	Nickel P	298 N	J
5	Beryllium P	1.0 U		17	Potassium P	[710]	
6	Cadmium P	2.4		18	Selenium F	4.2 UN	UJ
7	Calcium P	29600 *		19	Silver P	1.8 U	
8	Chromium P	1601 *		20	Sodium P	[201]	
9	Cobalt P	[5.0]		21	Thallium F	0.4 UN	UJ
10	Copper P	413		22	Vanadium P	14	
11	Iron P	22200 *		23	Zinc P	174 *NE	J
12	Lead F	184 N	J		Percent Solids (%)	90	
	Cyanide	72 N	J				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond 000013

FORM I

Client Sample No.
S-W-4-2

Date: 01-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2429

SOW NO.: 785

LAB RECEIPT DATE: 10-17-87

LAB SAMPLE ID. NO.: F2429-02

QC REPORT NO.: FCH-11

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	2165 *		13	Magnesium P	[363] E	J
2	Antimony P	13 UN	R	14	Manganese P	30 N*	J
3	Arsenic F	9.4 sN	J	15	Mercury	0.2	J
4	Barium P	118 N	J	16	Nickel P	108 N	J
5	Beryllium P	1.2 U		17	Potassium P	[540]	
6	Cadmium P	0.9 U		18	Selenium F	[0.5] N	J
7	Calcium P	1549 *		19	Silver P	2.0 U	
8	Chromium P	1050 *		20	Sodium P	[162]	
9	Cobalt P	2.3 U		21	Thallium F	0.5 UN	UJ
10	Copper P	457		22	Vanadium P	14	
11	Iron P	19300 *		23	Zinc P	113 *NE	J
12	Lead P	45 N	J		Percent Solids (%)	83	
	Cyanide	33 N	J				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond 00000

FORM I

Client Sample No.
S-W4-3

Date: 01-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2429

SOW NO.: 785

LAB RECEIPT DATE: 10-17-87

LAB SAMPLE ID. NO.: F2429-29

QC REPORT NO.: FCH-11

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	1533 *		13	Magnesium P	[532] E	J
2	Antimony P	12 UN	R	14	Manganese P	63 N*	J
3	Arsenic F	5.0 N	J	15	Mercury	0.2	J
4	Barium P	49 N	J	16	Nickel P	184 N	J
5	Beryllium P	1.1 U		17	Potassium P	[223]	
6	Cadmium P	1.4		18	Selenium F	0.4 UN	UJ
7	Calcium P	2111 *		19	Silver P	1.9 U	
8	Chromium P	111 *		20	Sodium P	[99]	
9	Cobalt P	[2.6]		21	Thallium F	0.4 UN	UJ
10	Copper P	62		22	Vanadium P	[5.7]	
11	Iron P	9548 *		23	Zinc P	247 *N~~G~~	J
12	Lead P	43 N	J		Percent Solids (%)	92	
	Cyanide	2.7 N	J				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-W-4-4A

Date: 01-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2429

SOW NO.: 785

LAB RECEIPT DATE: 10-17-87

LAB SAMPLE ID. NO.: F2429-11

QC REPORT NO.: FCH-11

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	2775 *		13	Magnesium P	[675] E	J
2	Antimony P	13 UN	R	14	Manganese P	109 N*	R
3	Arsenic F	5.9 sN	J	15	Mercury	0.1 U	UJ
4	Barium P	[35]N	J	16	Nickel P	63 N	J
5	Beryllium P	1.2 U		17	Potassium P	[649]	
6	Cadmium P	0.9 U		18	Selenium F	0.5 UN	UJ
7	Calcium P	4593 *		19	Silver P	2.1 U	
8	Chromium P	990 *		20	Sodium P	[883]	
9	Cobalt P	2.4 U		21	Thallium F	0.5 U N	UJ
10	Copper P	41		22	Vanadium P	[4.8]	
11	Iron P	10200 *		23	Zinc P	319 *NE	R
12	Lead F	9.6			Percent Solids (%)	82	
	Cyanide	5.8 N	J				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond 000014

FORM I

Client Sample No.
S-W-4-4B

Date: 01-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2429

SOW NO.: 785

LAB RECEIPT DATE: 10-17-87

LAB SAMPLE ID. NO.: F2429-08

QC REPORT NO.: FCH-11

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	1352 *		13	Magnesium P	[162] E	J
2	Antimony P	11 UN	R	14	Manganese P	11 N*	R
3	Arsenic F	3.6 N	J	15	Mercury	[0.1]	J
4	Barium P	[22]N	J	16	Nickel P	22 N	J
5	Beryllium P	1.0 U		17	Potassium P	[547]	
6	Cadmium P	0.7 U		18	Selenium F	0.4 U N	UJ
7	Calcium P	2538 *		19	Silver P	1.7 U	
8	Chromium P	887 *		20	Sodium P	[767]	
9	Cobalt P	3.0 U		21	Thallium F	0.4 UN	UJ
10	Copper P	36		22	Vanadium P	[3.0]	
11	Iron P	7834 *		23	Zinc P	34 *NE	R
12	Lead F	3.2 s			Percent Solids (%)	80	
	Cyanide	7.7 N	J				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Kenneth Bond

Lab Manager

Kenneth Bond

000011

FORM I

Client Sample No.
S-W-4-5

Date: 01-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2429

SOW NO.: 785

LAB RECEIPT DATE: 10-17-87

LAB SAMPLE ID. NO.: F2429-26

QC REPORT NO.: FCH-11

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	4432 *		13	Magnesium P	8299 E	J
2	Antimony P	19 UN	R	14	Manganese P	1838 N*	J
3	Arsenic F	19 N	J	15	Mercury	0.3	J
4	Barium P	640 N	J	16	Nickel P	[4.9]N	J
5	Beryllium P	1.8 U		17	Potassium P	[140]	
6	Cadmium P	1.3 U		18	Selenium F	0.7 U N	UJ
7	Calcium P	133600 *		19	Silver P	3.0 U	
8	Chromium P	22 *		20	Sodium P	2597	
9	Cobalt P	3.5 U		21	Thallium F	0.7 UN	UJ
10	Copper P	[3.5]		22	Vanadium P	[7.7]	
11	Iron P	29800 *		23	Zinc P	39 *NE	J
12	Lead F	49 N s	J		Percent Solids (%)	48	
	Cyanide	0.4 UN	R				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

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FORM I

Client Sample No.
S-W-4-6

Date: 01-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2429

SOW NO.: 785

LAB RECEIPT DATE: 10-17-87

LAB SAMPLE ID. NO.: F2429-19

QC REPORT NO.: FCH-11

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	2074 *	
2	Antimony P	9.9 UN	R
3	Arsenic F	1.8 UN	J
4	Barium P	[6.1]N	J
5	Beryllium P	0.9 U	
6	Cadmium P	0.7 U	
7	Calcium P	67000 *	
8	Chromium P	68 *	
9	Cobalt P	1.8 U	
10	Copper P	14	
11	Iron P	8422 *	
12	Lead F	2.5	
	Cyanide	1.4 N	J
13	Magnesium P	15100 E	J
14	Manganese P	192 N*	J
15	Mercury	0.1 U	UJ
16	Nickel P	52 N	J
17	Potassium P	[134]	
18	Selenium F	0.4 UN	UJ
19	Silver P	1.6 U	
20	Sodium P	[154]	
21	Thallium F	0.4 UN	UJ
22	Vanadium P	[3.3]	
23	Zinc P	78 *NE	J
	Percent Solids (%)	86	

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

000022

FORM I

Client Sample No.
S-W-5-1

Date: 01-06-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2379

SOW NO.: 785

LAB RECEIPT DATE: 10-14-87

LAB SAMPLE ID. NO.: F2379-08

QC REPORT NO.: FCH-06

Elements Identified and Measured
++++++++++++++++++++++++++++++++

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	2874		13	Magnesium P	[1048] E	J
2	Antimony P	12 UN	R	14	Manganese P	71 N	J
3	Arsenic F	16		15	Mercury	0.5 N*	J
4	Barium P	142		16	Nickel P	81 N	J
5	Beryllium P	1.1 U		17	Potassium P	[685]	
6	Cadmium P	0.8 U		18	Selenium F	0.4 U	
7	Calcium P	4181		19	Silver P	1.9 U	
8	Chromium P	858 *		20	Sodium P	[134]	R
9	Cobalt P	2.2 U		21	Thallium F	4.5 U	
10	Copper P	339		22	Vanadium P	11	
11	Iron P	16400		23	Zinc P	63 N	
12	Lead P	190 *			Percent Solids (%)	89	J
	Cyanide	61	J				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

000030

FORM I

Client Sample No.
S-W-5-2

Date: 01-06-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2379

SOW NO.: 785

LAB RECEIPT DATE: 10-14-87

LAB SAMPLE ID. NO.: F2379-09

QC REPORT NO.: FCH-06

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	3510		13	Magnesium P	1340 E	J
2	Antimony P	13 UN	R	14	Manganese P	88 N	J
3	Arsenic F	23 s+		15	Mercury	0.6 N*	J
4	Barium P	128		16	Nickel P	67 N	J
5	Beryllium P	1.2 U		17	Potassium P	[726]	
6	Cadmium P	0.9 U		18	Selenium F	0.5 U	
7	Calcium P	6591		19	Silver P	2.0 U	
8	Chromium P	1045 *		20	Sodium P	[149]	R
9	Cobalt P	2.3 U		21	Thallium F	4.6 U	
10	Copper P	357		22	Vanadium P	14	
11	Iron P	19600		23	Zinc P	54 N	J
12	Lead P	109 *			Percent Solids (%)	86	
	Cyanide	66	J				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

000011

FORM I

Client Sample No.
S-W-5-4a

Date: 01-06-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2379

SOW NO.: 785

LAB RECEIPT DATE: 10-14-87

LAB SAMPLE ID. NO.: F2379-10

QC REPORT NO.: FCH-06

Elements Identified and Measured
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Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	4355		13	Magnesium P	3112 E	J
2	Antimony P	14 UN	R	14	Manganese P	90 N	J
3	Arsenic F	13 U	R	15	Mercury	0.2 N*	J
4	Barium P	371		16	Nickel P	2957 N	J
5	Beryllium P	1.3 U		17	Potassium P	2241	
6	Cadmium P	2.7		18	Selenium F	0.5 U	
7	Calcium P	10600		19	Silver P	2.2 U	
8	Chromium P	2500 *		20	Sodium P	1606	
9	Cobalt P	[6.2]		21	Thallium F	5.2 U	
10	Copper P	1258		22	Vanadium P	15	
11	Iron P	20900		23	Zinc P	469 N	J
12	Lead P	374 *			Percent Solids (%)	77	
	Cyanide	487	J				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

000012

Client: CENTURY LABORATORIES
Job Number: 75596
Sample ID: S-8-2-6 (75596-1)

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 10-25-87
Percent Moisture (Not Decanted): 14

Date Extracted/Prepared: 10-25-87
Conc/Dil Factor: 1

CAS #		ug/kg		CAS#		ug/kg	
74-87-3	Chloromethane	12	U	78-87-5	1,2-Dichloropropane	6	
74-83-9	Bromomethane	12	U	10061-02-6	Trans-1,3-Dichloropropene	6	
75-01-4	Vinyl Chloride	12	U	79-01-6	Trichloroethene	34	
75-00-3	Chloroethane	12	U	124-48-1	Dibromochloromethane	6	U
75-09-2	Methylene Chloride	6	J	79-00-5	1,1,2-Trichloroethane	6	U
67-64-1	Acetone	75		71-43-2	Benzene	6	U
75-15-0	Carbon Disulfide	6	U	10061-01-5	cis-1,3-Dichloropropene	6	U
75-35-4	1,1-Dichloroethene	6	U	110-75-8	2-Chloroethylvinylether	12	U
75-34-3	1,1-Dichloroethane	6	U	75-25-2	Bromoform	6	U
156-60-5	Trans-1,2-Dichloroethene	6	U	591-78-6	4-Methyl-2-Pentanone	12	U
67-77-3	Chloroform	6	U	108-10-1	2-Hexanone	12	U
107-06-2	1,2-Dichloroethane	6	U	127-18-4	Tetrachloroethene	6	U
78-93-3	2-Butanone	12	U	79-34-5	1,1,2,2-Tetrachloroethane	6	U
71-55-6	1,1,1-Trichloroethane	6	U	108-88-3	Toluene	6	U
56-23-5	Carbon Tetrachloride	6	U	108-90-7	Chlorobenzene	6	U
108-05-4	Vinyl Acetate	12	U	100-41-4	Ethylbenzene	6	U
75-27-4	Bromodichloromethane	6	U	100-42-5	Styrene	6	U
					Total Xylenes	6	

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets identification criteria but the result is less than the specified detection limit but greater than zero (e.g., if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J).

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: CENTURY LABORATORIES
Job Number: 75596
Sample ID: 5-8-2-7 (75596-8)

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: LOW
Date Analyzed: 10-25-87
Percent Moisture (Not Decanted): 11

Date Extracted/Prepared: 10-25-87
Conc/Dil Factor: 1

CAS #		ug/kg		CAS#		ug/kg	
74-87-3	Chloromethane	11	U	78-87-5	1,2-Dichloropropane	6	U
74-83-9	Bromomethane	11	U	10061-02-6	Trans-1,3-Dichloropropene	6	U
75-01-4	Vinyl Chloride	11	U	79-01-6	Trichloroethene	6	U
75-00-3	Chloroethane	11	U	124-48-1	Dibromochloromethane	6	U
75-09-2	Methylene Chloride	2	J	79-00-5	1,1,2-Trichloroethane	6	U
67-64-1	Acetone	11	U	71-43-2	Benzene	6	U
75-15-0	Carbon Disulfide	6	U	10061-01-5	cis-1,3-Dichloropropene	6	U
75-35-4	1,1-Dichloroethene	6	U	110-75-8	2-Chloroethylvinylether	11	U
75-34-3	1,1-Dichloroethane	6	U	75-25-2	Bromoform	6	U
156-60-5	Trans-1,2-Dichloroethene	6	U	591-78-6	4-Methyl-2-Pentanone	11	U
67-77-3	Chloroform	6	U	108-10-1	2-Hexanone	11	U
107-06-2	1,2-Dichloroethane	6	U	127-18-4	Tetrachloroethene	6	U
78-93-3	2-Butanone	3	J	79-34-5	1,1,2,2-Tetrachloroethane	6	U
71-55-6	1,1,1-Trichloroethane	6	U	108-88-3	Toluene	6	U
56-23-5	Carbon Tetrachloride	6	U	108-90-7	Chlorobenzene	6	U
108-05-4	Vinyl Acetate	11	U	100-41-4	Ethylbenzene	6	U
75-27-4	Bromodichloromethane	6	U	100-42-5	Styrene	6	U
					Total Xylenes	6	U

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets identification criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: CENTURY LABORATORIES
Job Number: 75596
Sample ID: S-8-2-S (75596-3)

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 10-25-87
Percent Moisture (Not Decanted): 10

Date Extracted/Prepared: 10-25-87
Conc/Dil Factor: 1

CAS #		ug/kg		CAS#		ug/kg	
74-87-3	Chloromethane	11	U	78-87-5	1,2-Dichloropropane	6	
74-83-9	Bromomethane	11	U	10061-02-6	Trans-1,3-Dichloropropene	6	
75-01-4	Vinyl Chloride	11	U	79-01-6	Trichloroethene	6	U
75-00-3	Chloroethane	11	U	124-48-1	Dibromochloromethane	6	
75-09-2	Methylene Chloride	2	J	79-00-5	1,1,2-Trichloroethane	6	
67-64-1	Acetone	11	U	71-43-2	Benzene	6	U
75-15-0	Carbon Disulfide	6	U	10061-01-5	cis-1,3-Dichloropropene	6	U
75-35-4	1,1-Dichloroethene	6	U	110-75-8	2-Chloroethylvinylether	11	U
75-34-3	1,1-Dichloroethane	6	U	75-25-2	Bromoform	6	
156-60-5	Trans-1,2-Dichloroethene	6	U	591-78-6	4-Methyl-2-Pentanone	11	U
67-77-3	Chloroform	6	U	108-10-1	2-Hexanone	11	U
107-06-2	1,2-Dichloroethane	6	U	127-18-4	Tetrachloroethene	6	
78-93-3	2-Butanone	33		79-34-5	1,1,2,2-Tetrachloroethane	6	U
71-55-6	1,1,1-Trichloroethane	6	U	108-88-3	Toluene	6	U
56-23-5	Carbon Tetrachloride	6	U	108-90-7	Chlorobenzene	6	
108-05-4	Vinyl Acetate	11	U	100-41-4	Ethylbenzene	6	
75-27-4	Bromodichloromethane	6	U	100-42-5	Styrene	6	
					Total Xylenes	6	

Data Reporting Qualifiers

value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets identification criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

- Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: CENTURY LABORATORIES INC.
Job Number: 75577
Sample ID: S-W-1-3 (75577-3)

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 10-10-87
Percent Moisture (Not Decanted): 11

Date Extracted/Prepared: 10-10-87
Conc/Dil Factor: 1

CAS #		ug/kg		CAS#		ug/kg	
74-87-3	Chloromethane	11	U	78-87-5	1,2-Dichloropropane	6	U
74-83-9	Bromomethane	11	U	10061-02-6	Trans-1,3-Dichloropropene	6	U
75-01-4	Vinyl Chloride	11	U	79-01-6	Trichloroethene	6	U
75-00-3	Chloroethane	11	U	124-48-1	Dibromochloromethane	6	U
75-09-2	Methylene Chloride	1	J	79-00-5	1,1,2-Trichloroethane	6	U
67-64-1	Acetone	20	B	71-43-2	Benzene	6	U
75-15-0	Carbon Disulfide	6	U	10061-01-5	cis-1,3-Dichloropropene	6	U
75-35-4	1,1-Dichloroethene	6	U	110-75-8	2-Chloroethylvinylether	11	U
75-34-3	1,1-Dichloroethane	6	U	75-25-2	Bromoform	6	U
156-60-5	Trans-1,2-Dichloroethene	6	U	591-78-6	4-Methyl-2-Pentanone	11	U
67-72-3	Chloroform	6	U	108-10-1	2-Hexanone	11	U
107-06-2	1,2-Dichloroethane	6	U	127-18-4	Tetrachloroethene	6	U
78-93-3	2-Butanone	11	U	79-34-5	1,1,2,2-Tetrachloroethane	6	U
71-55-6	1,1,1-Trichloroethane	6	U	108-88-3	Toluene	2	J
56-23-5	Carbon Tetrachloride	6	U	108-90-7	Chlorobenzene	6	U
108-05-4	Vinyl Acetate	11	U	100-41-4	Ethylbenzene	6	U
75-27-4	Bromodichloromethane	6	U	100-42-5	Styrene	6	U
					Total Xylenes	6	U

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

D This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets identification criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: CENTURY LABORATORIES INC.
Job Number: 75577
Sample ID: S-W-1-4

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 10-10-87
Percent Moisture (Not Decanted): 13

Date Extracted/Prepared: 10-10-87
Conc/Dil Factor: 1

CAS #		ug/kg		CAS#		ug/kg	
74-87-3	Chloromethane	11	U	78-87-5	1,2-Dichloropropane	6	U
74-83-9	Bromomethane	11	U	10061-02-6	Trans-1,3-Dichloropropene	6	U
75-01-4	Vinyl Chloride	11	U	79-01-6	Trichloroethene	6	U
75-00-3	Chloroethane	11	U	124-48-1	Dibromochloromethane	6	U
75-09-2	Methylene Chloride	1	J	79-00-5	1,1,2-Trichloroethane	6	U
67-64-1	Acetone	20	B	71-43-2	Benzene	6	U
75-15-0	Carbon Disulfide	6	U	10061-01-5	cis-1,3-Dichloropropene	6	U
75-35-4	1,1-Dichloroethene	6	U	110-75-8	2-Chloroethylvinylether	11	U
75-34-3	1,1-Dichloroethane	6	U	75-25-2	Bromoform	6	U
156-60-5	Trans-1,2-Dichloroethene	6	U	591-78-6	4-Methyl-2-Pentanone	11	U
67-77-3	Chloroform	6	U	108-10-1	2-Hexanone	11	U
107-06-2	1,2-Dichloroethane	6	U	127-18-4	Tetrachloroethene	1	J
78-93-3	2-Butanone	11	U	79-34-5	1,1,2,2-Tetrachloroethane	6	U
71-55-6	1,1,1-Trichloroethane	6	U	108-88-3	Toluene	6	U
56-23-5	Carbon Tetrachloride	6	U	108-90-7	Chlorobenzene	6	
108-05-4	Vinyl Acetate	11	U	100-41-4	Ethylbenzene	6	
75-27-4	Bromodichloromethane	6	U	100-42-5	Styrene	6	U
					Total Xylenes	6	U

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets identification criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: CENTURY LABORATORIES INC.
Job Number: 75577
Sample ID: S-W-1-5

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: LOW
Date Analyzed: 10-10-87
Percent Moisture (Not Decanted): 13

Date Extracted/Prepared: 10-10-87
Conc/Dil Factor: 1

CAS #		ug/kg		CAS#		ug/kg	
74-87-3	Chloromethane	11	U	78-87-5	1,2-Dichloropropane	6	U
74-83-9	Bromomethane	11	U	10061-02-6	Trans-1,3-Dichloropropene	6	U
75-01-4	Vinyl Chloride	11	U	79-01-6	Trichloroethene	6	U
75-00-3	Chloroethane	11	U	124-48-1	Dibromochloromethane	6	U
75-09-2	Methylene Chloride	2	J	79-00-5	1,1,2-Trichloroethane	6	U
67-64-1	Acetone	11	U	71-43-2	Benzene	6	U
75-15-0	Carbon Disulfide	6	U	10061-01-5	cis-1,3-Dichloropropene	6	U
75-35-4	1,1-Dichloroethene	6	U	110-75-8	2-Chloroethylvinylether	11	U
75-34-3	1,1-Dichloroethane	6	U	75-25-2	Bromoform	6	U
156-60-5	Trans-1,2-Dichloroethene	6	U	591-78-6	4-Methyl-2-Pentanone	11	U
67-66-3	Chloroform	6	U	108-10-1	2-Hexanone	11	U
107-06-2	1,2-Dichloroethane	6	U	127-18-4	Tetrachloroethene	1	
78-93-3	2-Butanone	11	U	79-34-5	1,1,2,2-Tetrachloroethane	6	U
71-55-6	1,1,1-Trichloroethane	6	U	108-88-3	Toluene	6	U
56-23-5	Carbon Tetrachloride	6	U	108-90-7	Chlorobenzene	6	U
108-05-4	Vinyl Acetate	11	U	100-41-4	Ethylbenzene	6	U
75-27-4	Bromodichloromethane	6	U	100-42-5	Styrene	6	U
					Total Xylenes	6	U

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets identification criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: CENTURY LABORATORIES INC.
Job Number: 75577
Sample ID: S-W-1-6

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: LOW
Date Analyzed: 10-11-87
Percent Moisture (Not Decanted): 12

Date Extracted/Prepared: 10-11-87
Conc/Dil Factor: 1

CAS #		ug/kg		CAS#		ug/kg	
74-87-3	Chloromethane	11	U	78-87-5	1,2-Dichloropropane	6	U
74-83-9	Bromomethane	11	U	10061-02-6	Trans-1,3-Dichloropropene	6	-
75-01-4	Vinyl Chloride	11	U	79-01-6	Trichloroethene	6	-
75-00-3	Chloroethane	11	U	124-48-1	Dibromochloromethane	6	-
75-09-2	Methylene Chloride	6	U	79-00-5	1,1,2-Trichloroethane	6	
67-64-1	Acetone	74	B	71-43-2	Benzene	6	
75-15-0	Carbon Disulfide	6	U	10061-01-5	cis-1,3-Dichloropropene	6	-
75-35-4	1,1-Dichloroethene	6	U	110-75-8	2-Chloroethylvinylether	11	-
75-34-3	1,1-Dichloroethane	6	U	75-25-2	Bromoform	6	
156-60-5	Trans-1,2-Dichloroethene	6	U	591-78-6	4-Methyl-2-Pentanone	11	-
67-77-3	Chloroform	6	U	108-10-1	2-Hexanone	11	U
107-06-2	1,2-Dichloroethane	6	U	127-18-4	Tetrachloroethene	6	
78-93-3	2-Butanone	55		79-34-5	1,1,2,2-Tetrachloroethane	6	
71-55-6	1,1,1-Trichloroethane	6	U	108-88-3	Toluene	6	-
56-23-5	Carbon Tetrachloride	6	U	108-90-7	Chlorobenzene	6	
108-05-4	Vinyl Acetate	11	U	100-41-4	Ethylbenzene	6	
75-27-4	Bromodichloromethane	6	U	100-42-5	Styrene	6	
					Total Xylenes	6	-

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets identification criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

- Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

FORM I

Client Sample No.
S-W-6-6a

Date: 01-09-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2414

SOW NO.: 785

LAB RECEIPT DATE: 10-16-87

LAB SAMPLE ID. NO.: F2414-06

QC REPORT NO.: FCH-08

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	3072 *		13	Magnesium P	6146
2	Antimony P	17 UN	UJ	14	Manganese P	650
3	Arsenic F	12 sN	J	15	Mercury	0.1 UN
4	Barium P	[38]		16	Nickel P	16
5	Beryllium P	1.6 U		17	Potassium P	[307]
6	Cadmium P	1.2 U		18	Selenium F	[1.3]N J
7	Calcium P	76400		19	Silver P	2.7 U
8	Chromium P	70		20	Sodium P	[240]
9	Cobalt P	[4.1]		21	Thallium F	0.6 U
10	Copper P	[6.6]		22	Vanadium P	[11]
11	Iron P	11400 *		23	Zinc P	23 *
12	Lead F	12			Percent Solids (%)	64
	Cyanide	0.2UN	R			

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager: Kenneth Bond

Kenneth Bond

000008

FORM I

Client Sample No.
S-W-6-6b

Date: 01-09-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2414

SOW NO.: 785

LAB RECEIPT DATE: 10-16-87

LAB SAMPLE ID. NO.: F2414-07

QC REPORT NO.: FCH-08

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	4173 *		13	Magnesium P	6193
2	Antimony P	18 UN	UJ	14	Manganese P	712
3	Arsenic F	7.4 N	J	15	Mercury	0.2 UN
4	Barium P	[43]		16	Nickel P	18
5	Beryllium P	1.7 U		17	Potassium P	[432]
6	Cadmium P	1.2 U		18	Selenium F	[1.3]N J
7	Calcium P	80500		19	Silver P	2.9 U
8	Chromium P	159		20	Sodium P	[360]
9	Cobalt P	[5.7]		21	Thallium F	0.7 U
10	Copper P	11		22	Vanadium P	[15]
11	Iron P	13200 *		23	Zinc P	26
12	Lead F	5.0			Percent Solids (%)	60
	Cyanide	0.2UN	R			

In reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager: Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-W-6-7

Date: 01-09-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2414

SOW NO.: 785

LAB RECEIPT DATE: 10-16-87

LAB SAMPLE ID. NO.: F2414-08

QC REPORT NO.: FCH-08

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	2985 *		13	Magnesium P	8501	
2	Antimony P	13 UN	UJ	14	Manganese P	205	
3	Arsenic F	12 UN		15	Mercury	0.1 UN	
4	Barium P	[23]		16	Nickel P	35	
5	Beryllium P	1.2 U		17	Potassium P	[346]	
6	Cadmium P	0.9 U		18	Selenium F	0.5 UN	UJ
7	Calcium P	42900		19	Silver P	2.0 U	
8	Chromium P	272		20	Sodium P	[263]	
9	Cobalt P	[4.4]		21	Thallium F	0.5 U	
10	Copper P	27		22	Vanadium P	14	
11	Iron P	9139 *		23	Zinc P	22	
12	Lead P	24			Percent Solids (%)	86	
	Cyanide	0.2UN	R				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-W-6-F

Date: 01-03-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2414

SOW NO.: 785

LAB RECEIPT DATE: 10-16-87

LAB SAMPLE ID. NO.: F2414-03

QC REPORT NO.: FCH-08

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	1734 *		13	Magnesium P	10600	
2	Antimony P	12 UN	UJ	14	Manganese P	112	
3	Arsenic F	2.2 UN		15	Mercury	0.1 UN	
4	Barium P	[2.9]		16	Nickel P	15	
5	Beryllium P	1.1 U		17	Potassium P	[157]	
6	Cadmium P	[0.9]		18	Selenium F	0.4 UN	UJ
7	Calcium P	58100		19	Silver P	1.9 U	
8	Chromium P	32		20	Sodium P	[123]	
9	Cobalt P	[3.7]		21	Thallium F	0.4 U	
10	Copper P	5.5		22	Vanadium P	[5.0]	
11	Iron P	6175 *		23	Zinc P	13	
12	Lead F	2.9			Percent Solids (%)	91	
	Cyanide	0.2UN	R				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-B-1-1

Date: 11-23-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2348

SOW NO.: 785

LAB RECEIPT DATE: 10-08-87

LAB SAMPLE ID. NO.: F2348-01

QC REPORT NO.: FCH-02

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	2672		13	Magnesium P	[1099] *E	J
2	Antimony P	13 UN	UJ	14	Manganese P	35	
3	Arsenic F	80		15	Mercury	0.2	
4	Barium P	131		16	Nickel P	25 E	J
5	Beryllium P	1.1 U		17	Potassium P	3865	
6	Cadmium P	0.8 U		18	Selenium F	4.6 EU	
7	Calcium P	16200		19	Silver P	2.0 U	
8	Chromium P	2433 *E	J	20	Sodium P	[302]	
9	Cobalt P	2.3 U		21	Thallium F	0.5 U	
10	Copper P	181		22	Vanadium P	15	
11	Iron P	45200		23	Zinc P	43 E	J
12	Lead P	928 N	J		Percent Solids (%)	81	
	Cyanide	4.1	J				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-8-1-2A

Date: 11-23-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2348

SOW NO.: 785

LAB RECEIPT DATE: 10-08-87

LAB SAMPLE ID. NO.: F2348-02

QC REPORT NO.: FCH-02

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	3318		13	Magnesium P	[835] *E	J
2	Antimony P	12 UN		14	Manganese P	42	
3	Arsenic F	50		15	Mercury	0.1 U	
4	Barium P	[32]		16	Nickel P	[6.1]E	J
5	Beryllium P	1.1 U		17	Potassium P	1964	
6	Cadmium P	0.8 U		18	Selenium F	0.4 U	
7	Calcium P	1909		19	Silver P	1.9 U	
8	Chromium P	960 *E	J	20	Sodium P	[143]	
9	Cobalt P	2.2 U		21	Thallium F	0.4 U	
10	Copper P	32		22	Vanadium P	11	
11	Iron P	20100		23	Zinc P	18 E	J
12	Lead F	5.2 *	J		Percent Solids (%)	90	
	Cyanide	1.2	J				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-B-1-2B

Date: 11-23-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2348

SOW NO.: 785

LAB RECEIPT DATE: 10-08-87

LAB SAMPLE ID. NO.: F2348-03

QC REPORT NO.: FCH-02

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	3392		13	Magnesium P	1086 *E	J
2	Antimony P	13 N		14	Manganese P	52	
3	Arsenic F	62		15	Mercury	0.1 U	
4	Barium P	[29]		16	Nickel P	7.9 E	J
5	Beryllium P	0.9 U		17	Potassium P	2169	
6	Cadmium P	0.7 U		18	Selenium F	0.4 U	
7	Calcium P	2319		19	Silver P	1.6 U	
8	Chromium P	839 *E	J	20	Sodium P	[147]	
9	Cobalt P	1.9 U		21	Thallium F	0.4 U	
10	Copper P	37		22	Vanadium P	12	
11	Iron P	23000		23	Zinc P	19 E	J
12	Lead F	6.8 *	J		Percent Solids (%)	90 *	
	Cyanide	1.9	J				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-B-1-3

Date: 11-23-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2348

SOW NO.: 785

LAB RECEIPT DATE: 10-08-87

LAB SAMPLE ID. NO.: F2348-04

QC REPORT NO.: FCH-82

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	5000		13	Magnesium P	1492 *E	J
2	Antimony P	8.0 UN		14	Manganese P	94	
3	Arsenic F	22		15	Mercury	0.1 U	
4	Barium P	35		16	Nickel P	12 E	J
5	Beryllium P	0.7 U		17	Potassium P	1230	
6	Cadmium P	0.5 U		18	Selenium F	0.3 U	
7	Calcium P	2094		19	Silver P	1.3 U	
8	Chromium P	133 *E	J	20	Sodium P	[127]	
9	Cobalt P	[1.8]		21	Thallium F	0.3 U	
10	Copper P	50		22	Vanadium P	20	
11	Iron P	24100		23	Zinc P	33 E	J
12	Lead F	8.5 *s	J		Percent Solids (%)	90	
	Cyanide	0.63 U	R				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-B-1-4

Date: 11-23-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2348

SOW NO.: 785

LAB RECEIPT DATE: 10-08-87

LAB SAMPLE ID. NO.: F2348-05

QC REPORT NO.: FCH-02

Elements Identified and Measured
++++++++++++++++++++++++++++++++

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	5585		13	Magnesium P	13500 *E	J
2	Antimony P	12 UN		14	Manganese P	483	
3	Arsenic F	7.4		15	Mercury	0.1 U	
4	Barium P	[7.8]		16	Nickel P	131 E	J
5	Beryllium P	1.1 U		17	Potassium P	[373]	
6	Cadmium P	1.6		18	Selenium F	0.4 U	
7	Calcium P	40700		19	Silver P	1.9 U	
8	Chromium P	94 *E	J	20	Sodium P	[88]	
9	Cobalt P	[9.8]		21	Thallium F	0.4 U	
10	Copper P	187		22	Vanadium P	[9.4]	
11	Iron P	15400		23	Zinc P	181 E	J
12	Lead F	4.1 *	J		Percent Solids (%)	88	
	Cyanide	4.9	J				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-B-1-5

Date: 11-23-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2348

SOW NO.: 785

LAB RECEIPT DATE: 10-08-87

LAB SAMPLE ID. NO.: F2348-06

QC REPORT NO.: FCH-02

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	1816		13	Magnesium P	9506 *E	J
2	Antimony P	9.4 UN		14	Manganese P	145	
3	Arsenic F	2.4		15	Mercury	0.2	
4	Barium P	[7.9]		16	Nickel P	140 E	J
5	Beryllium P	0.9 U		17	Potassium P	[196]	
6	Cadmium P	0.6 U		18	Selenium F	0.3 U	
7	Calcium P	52600		19	Silver P	1.5 U	
8	Chromium P	68 *E	J	20	Sodium P	[175]	
9	Cobalt P	[2.2]		21	Thallium F	0.3 U	
10	Copper P	40		22	Vanadium P	[4.4]	
11	Iron P	5710		23	Zinc P	100 E	J
12	Lead F	3.8 *	J		Percent Solids (%)	89 -	
	Cyanide	0.22 U	R				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-B-1-6

Date: 11-23-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2348

SOW NO.: 785

LAB RECEIPT DATE: 10-08-87

LAB SAMPLE ID. NO.: F2348-07

QC REPORT NO.: FCH-02

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	5236		13	Magnesium P	23200 *E	J
2	Antimony P	9.4 UN		14	Manganese P	258	
3	Arsenic F	4.9 s		15	Mercury	0.1 U	
4	Barium P	[26]		16	Nickel P	16 E	J
5	Beryllium P	0.9 U		17	Potassium P	1023	
6	Cadmium P	1.0		18	Selenium F	3.4 EU	
7	Calcium P	68000		19	Silver P	1.5 U	
8	Chromium P	14 *E	J	20	Sodium P	[205]	
9	Cobalt P	[5.3]		21	Thallium F	0.3 U	
10	Copper P	9.4		22	Vanadium P	12	
11	Iron P	10700		23	Zinc P	35 E	J
12	Lead F	5.4 *	J		Percent Solids (%)	88 .	
	Cyanide	0.22 U	R				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-B-1-7

Date: 11-23-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2348

SOW NO.: 785

LAB RECEIPT DATE: 10-08-87

LAB SAMPLE ID. NO.: F2348-08

QC REPORT NO.: FCH-02

Elements Identified and Measured
==========

Concentration: L

Matrix: Soil

mg/kg dry weight

ORGINAL DATA IS MOSTLY INCORRECT. CORRECTIONS MADE FROM R

1	Aluminum P	~~16.21~~ 6400		13	Magnesium P	~~11 U~~ E* 26200 J
2	Antimony P	9.5 UN		14	Manganese P	~~1.2 U~~ 285 E-E
3	Arsenic F	5.0 s		15	Mercury	0.2
4	Barium P	~~1.6 U~~ 33		16	Nickel P	~~1.9~~ UE 15.8 J
5	Beryllium P	0.9 U		17	Potassium P	~~17 U~~ 1300
6	Cadmium P	0.6 U		18	Selenium F	3.5 EU
7	Calcium P	~~12 U~~ 78700		19	Silver P	1.5 U
8	Chromium P	~~0.7 U~~ E 14 J		20	Sodium P	~~12 U~~ 149
9	Cobalt P	~~1.7 U~~ 5.6		21	Thallium F	0.3 U
10	Copper P	~~1.0 U~~ 8.7		22	Vanadium P	~~0.5 U~~ 14.9
11	Iron P	~~10 U~~ 11700		23	Zinc P	~~1.6~~ UE 36.6 J
12	Lead F	5.7 * J			Percent Solids (%)	85
	Cyanide	0.23 U R				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

000010

FORM I

Client Sample No.
S-B-1-8

Date: 11-23-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2348

SOW NO.: 785

LAB RECEIPT DATE: 10-08-87

LAB SAMPLE ID. NO.: F2348-09

QC REPORT NO.: FCH-02

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	2800		13	Magnesium P	19600 *E	J
2	Antimony P	8.6 UN		14	Manganese P	174	
3	Arsenic F	2.8 s		15	Mercury	0.1 U	
4	Barium P	[15]		16	Nickel P	8.5 E	J
5	Beryllium P	0.8 U		17	Potassium P	[562]	
6	Cadmium P	1.1		18	Selenium F	0.3 U	
7	Calcium P	55200		19	Silver P	1.4 U	
8	Chromium P	8.0 *E	J	20	Sodium P	[98]	
9	Cobalt P	[2.8]		21	Thallium F	0.3 U	
10	Copper P	4.6		22	Vanadium P	8.3	
11	Iron P	6217		23	Zinc P	22 E	J
12	Lead F	3.8 *	J		Percent Solids (%)	85	
	Cyanide	0.22 U	R				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-B-1-3

Date: 01-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2429

SOW NO.: 785

LAB RECEIPT DATE: 10-17-87

LAB SAMPLE ID. NO.: F2429-27

QC REPORT NO.: FCH-11

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	3697 *	
2	Antimony P	12 UN	R
3	Arsenic F	2.9 sN	J
4	Barium P	[16]N	J
5	Beryllium P	1.1 U	
6	Cadmium P	0.8 U	
7	Calcium P	39500 *	
8	Chromium P	19 *	
9	Cobalt P	2.2 U	
10	Copper P	6.1	
11	Iron P	11300 *	
12	Lead F	3.4	
	Cyanide	0.2 UN	R
13	Magnesium P	13600 E	J
14	Manganese P	278 N*	J
15	Mercury	[0.1]	J
16	Nickel P	[8.5]N	J
17	Potassium P	[642]	
18	Selenium F	0.4 UN	UJ
19	Silver P	2.0 U	
20	Sodium P	[111]	
21	Thallium F	0.4 U N	UJ
22	Vanadium P	[3.4]	
23	Zinc P	24 *N E	J
	Percent Solids (%)	91	

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

000039

FORM I

Client Sample No.
S-B-1-10

Date: 01-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2429

SOW NO.: 785

LAB RECEIPT DATE: 10-17-87

LAB SAMPLE ID. NO.: F2429-17

QC REPORT NO.: FCH-11

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	1043 *		13	Magnesium P	9859 E	J
2	Antimony P	11 UN	R	14	Mangarese P	76 N*	J
3	Arsenic F	[1.2]N	J	15	Mercury	0.1 U	UJ
4	Barium P	[6.6]N	J	16	Nickel P	[6.2]N	J
5	Beryllium P	1.0 U		17	Potassium P	[183]	
6	Cadmium P	0.7 U		18	Selenium F	0.4 UN	UJ
7	Calcium P	33800 *		19	Silver P	1.7 U	
8	Chromium P	19 *		20	Sodium P	[138]	
9	Cobalt P	2.0 U		21	Thallium F	0.4 UN	UJ
10	Copper P	[4.6]		22	Vanadium P	[4.4]	
11	Iron P	2803 *		23	Zinc P	12 *NE	J
12	Lead F	1.9 s			Percent Solids (%)	83	
	Cyanide	0.2 UN	R				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond 000010

FORM I

Client Sample No.
S-B-1-11

Date: 01-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2429

SDW NO.: 785

LAB RECEIPT DATE: 10-17-87

LAB SAMPLE ID. NO.: F2429-15

GC REPORT NO.: FCH-11

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	2626 *		13	Magnesium P	13500 E	J
2	Antimony P	9.8 UN	R	14	Manganese P	171 N*	J
3	Arsenic F	2.8 N	J	15	Mercury	0.1 U	UJ
4	Barium P	[13]N	J	16	Nickel P	11 N	J
5	Beryllium P	0.9 U		17	Potassium P	[457]	
6	Cadmium P	0.7 U		18	Selenium F	0.4 UN	UJ
7	Calcium P	35300 *		19	Silver P	1.5 U	
8	Chromium P	17 *		20	Sodium P	[91]	
9	Cobalt P	[5.0]		21	Thallium F	0.4 UN	UJ
10	Copper P	5.7		22	Vanadium P	8.9	
11	Iron P	5832 *		23	Zinc P	24 *NE	J
12	Lead F	4.1 s			Percent Solids (%)	84	
	Cyanide	0.2 UN	R				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-B-1-13

Date: 01-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2429

SOW NO.: 785

LAB RECEIPT DATE: 10-17-87

LAB SAMPLE ID. NO.: F2429-30

QC REPORT NO.: FCH-11

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	774 *		13	Magnesium P	5052 E	J
2	Antimony P	12 UN	R	14	Manganese P	47 N*	J
3	Arsenic F	0.9 UN	UJ	15	Mercury	0.1 U	UJ
4	Barium P	[4.3]N	J	16	Nickel P	2.5 UN	
5	Beryllium P	1.1 U		17	Potassium P	[95]	
6	Cadmium P	0.8 U		18	Selenium F	0.4 UN	UJ
7	Calcium P	16500 *		19	Silver P	2.0 U	
8	Chromium P	14 *		20	Sodium P	[117]	
9	Cobalt P	2.2 U		21	Thallium F	0.4 UN	UJ
10	Copper P	1.3 U		22	Vanadium P	[1.8]	
11	Iron P	1886 *		23	Zinc P	5.3 *NE	J
12	Lead F	0.4 U			Percent Solids (%)	84	
	Cyanide	0.2 UN	R				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond 000023

FORM I

Client Sample No.
S-B-1-12

Date: 01-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2429

SOW NO.: 785

LAB RECEIPT DATE: 10-17-87

LAB SAMPLE ID. NO.: F2429-21

QC REPORT NO.: FCH-11

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	774 *		13	Magnesium P	5429 E	J
2	Antimony P	11 UN	R	14	Manganese P	53 N*	J
3	Arsenic F	0.8 UN	UJ	15	Mercury	0.1 U	UJ
4	Barium P	[4.7]N	J	16	Nickel P	2.1 UN	
5	Beryllium P	1.0 U		17	Potassium P	[87]	
6	Cadmium P	0.7 U		18	Selenium F	0.4 UN	UJ
7	Calcium P	18500 *		19	Silver P	1.7 U	
8	Chromium P	15 *		20	Sodium P	[139]	
9	Cobalt P	2.0 U		21	Thallium F	0.4 UN	UJ
10	Copper P	[1.8]		22	Vanadium P	[1.8]	
11	Iron P	2018 *		23	Zinc P	6.1 *N*	J
12	Lead F	[0.6]			Percent Solids (%)	84	
	Cyanide	0.7 N	J				

or reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond 000021

FORM I

Client Sample No.
S-B-1-15

Date: 01-18-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2456

SOW NO.: 785

LAB RECEIPT DATE: 10-22-87

LAB SAMPLE ID. NO.: F2456-08

QC REPORT NO.: FCH-10

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	667	13	Magnesium P	4877
2	Antimony P	13 U	14	Manganese P	48
3	Arsenic F	1.2 U	15	Mercury	0.1 U
4	Barium P	[4.3]	16	Nickel P	2.6 U
5	Beryllium P	1.2 U	17	Potassium P	[105]
6	Cadmium P	0.9 U	18	Selenium F	0.5 UN UJ
7	Calcium P	15900	19	Silver P	2.1 U
8	Chromium P	14	20	Sodium P	[147]
9	Cobalt P	2.4 U	21	Thallium F	0.5 U
10	Copper P	[1.7]	22	Vanadium P	[2.2]
11	Iron P	1798	23	Zinc P	5.3
12	Lead F	1.2 U		Percent Solids (%)	83
	Cyanide	0.2 UN R			

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond 000056

FORM I

Client Sample No.
S-B-1-16

Date: 01-18-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2456

SOW NO.: 785

LAB RECEIPT DATE: 10-22-87

LAB SAMPLE ID. NO.: F2456-09

QC REPORT NO.: FCH-10

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	817	13	Magnesium P	5489
2	Antimony P	13 U	14	Manganese P	59
3	Arsenic F	1.2 U	15	Mercury	0.1 U
4	Barium P	[6.0]	16	Nickel P	[2.9]
5	Beryllium P	1.2 U	17	Potassium P	[106]
6	Cadmium P	0.9 U	18	Selenium F	0.5 UN UJ
7	Calcium P	19600	19	Silver P	2.1 U
8	Chromium P	18	20	Sodium P	[182]
9	Cobalt P	2.4 U	21	Thallium F	0.5 U
10	Copper P	[2.6]	22	Vanadium P	[2.9]
11	Iron P	2323	23	Zinc P	9.4
12	Lead F	[1.0]s		Percent Solids (%)	83
	Cyanide	0.2 UN R			

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond 000011

FORM I

Client Sample No.
S-B-1-17

Date: 01-18-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2456

SOW NO.: 785

LAB RECEIPT DATE: 10-22-87

LAB SAMPLE ID. NO.: F2456-06

QC REPORT NO.: FCH-10

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	740	13	Magnesium P	7365
2	Antimony P	13 U	14	Manganese P	65
3	Arsenic F	1.2 U	15	Mercury	0.1 U
4	Barium P	[4.0]	16	Nickel P	[8.0]
5	Beryllium P	1.2 U	17	Potassium P	[88]
6	Cadmium P	0.9 U	18	Selenium F	0.5 UN R
7	Calcium P	24000	19	Silver P	2.0 U
8	Chromium P	53	20	Sodium P	[134]
9	Cobalt P	2.4 U	21	Thallium F	0.5 U
10	Copper P	[2.6]	22	Vanadium P	[3.3]*
11	Iron P	2233	23	Zinc P	7.5
12	Lead F	2.1		Percent Solids (%)	85
	Cyanide	0.2 UN R			

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-B-1-19

Date: 01-18-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2456

SOW NO.: 785

LAB RECEIPT DATE: 10-22-87

LAB SAMPLE ID. NO.: F2456-07

QC REPORT NO.: FCH-10

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	744	13	Magnesium P	8650
2	Antimony P	13 U	14	Manganese P	121
3	Arsenic F	2.3 U	15	Mercury	0.1 U
4	Barium P	[6.5]	16	Nickel P	[6.5]
5	Beryllium P	1.2 U	17	Potassium P	[83]
6	Cadmium P	0.9 U	18	Selenium F	0.5 UN UJ
7	Calcium P	26200	19	Silver P	2.0 U
8	Chromium P	42	20	Sodium P	[137]
9	Cobalt P	2.3 U	21	Thallium F	0.5 U
10	Copper P	[2.1]	22	Vanadium P	[2.6]
11	Iron P	3790	23	Zinc P	9.6
12	Lead F	[1.2]s		Percent Solids (%)	86
	Cyanide	0.2 UN R			

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-B-1-14

Date: 01-18-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2456

SOW NO.: 785

LAB RECEIPT DATE: 10-22-87

LAB SAMPLE ID. NO.: F2456-10

QC REPORT NO.: FCH-10

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	698		13	Magnesium P	4867	
2	Antimony P	13 U		14	Manganese P	50	
3	Arsenic F	1.2 U		15	Mercury	0.1 U	
4	Barium P	[5.0]		16	Nickel P	2.6 U	
5	Beryllium P	1.2 U		17	Potassium P	[115]	
6	Cadmium P	0.9 U		18	Selenium F	0.5 UN	UJ
7	Calcium P	16800		19	Silver P	2.1 U	
8	Chromium P	12		20	Sodium P	[178]	
9	Cobalt P	2.4 U		21	Thallium F	0.5 U	
10	Copper P	[2.2]		22	Vanadium P	[2.2]*	
11	Iron P	1759		23	Zinc P	7.0	
12	Lead F	1.2 U			Percent Solids (%)	83	
	Cyanide	0.2 UN	R				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond 000012

FORM I

Client Sample No.
S-B-2-1

Date: 01-06-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2379

SOW NO.: 785

LAB RECEIPT DATE: 10-14-87

LAB SAMPLE ID. NO.: F2379-05

QC REPORT NO.: FCH-06

Elements Identified and Measured
++++++++++++++++++++++++++++++++

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	4309		13	Magnesium P	26300 E	J
2	Antimony P	13 UN	R	14	Manganese P	250 N	J
3	Arsenic F	1.2 U		15	Mercury	0.1 UN+	R
4	Barium P	[16]		16	Nickel P	62 N	J
5	Beryllium P	1.2 U		17	Potassium P	[937]	
6	Cadmium P	0.9 U		18	Selenium F	0.5 U	
7	Calcium P	73100		19	Silver P	2.0 U	
8	Chromium P	39		20	Sodium P	[335]	R
9	Cobalt P	[5.6]		21	Thallium F	4.6 U	
10	Copper P	60		22	Vanadium P	12	
11	Iron P	8572		23	Zinc P	36 N	J
12	Lead F	5.6			Percent Solids (%)	86	
	Cyanide	0.32	J				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager

Kenneth Bond

FORM I

Client Sample No.
S-B-2-3

Date: 01-06-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2379

SOW NO.: 785

LAB RECEIPT DATE: 10-14-87

LAB SAMPLE ID. NO.: F2379-06

QC REPORT NO.: FCH-06

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	1792		13	Magnesium P	22600 E	J
2	Antimony P	13 UN	R	14	Manganese P	145 N	J
3	Arsenic F	0.9 U		15	Mercury	0.1 UN+	R
4	Barium P	[2.5]		16	Nickel P	25 N	J
5	Beryllium P	1.1 U		17	Potassium P	[241]	
6	Cadmium P	0.9 U		18	Selenium F	0.5 U	
7	Calcium P	7395		19	Silver P	2.0 U	
8	Chromium P	91		20	Sodium P	[236]	R
9	Cobalt P	2.3 U		21	Thallium F	0.5 U	
10	Copper P	6.7		22	Vanadium P	[7.4]	
11	Iron P	4970		23	Zinc P	23 N	R
12	Lead F	6.0			Percent Solids (%)	87	
	Cyanide	0.22 U	UJ				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-B-2-5

Date: 01-06-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2379

SOW NO.: 785

LAB RECEIPT DATE: 10-14-87

LAB SAMPLE ID. NO.: F2379-07

QC REPORT NO.: FCH-06

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	2799		13	Magnesium P	14600 E	J
2	Antimony P	12 UN	R	14	Manganese P	217 N	J
3	Arsenic F	5.5		15	Mercury	0.1 UN*	R
4	Barium P	[7.5]		16	Nickel P	56 N	J
5	Beryllium P	1.1 U		17	Potassium P	[453]	
6	Cadmium P	0.8 U		18	Selenium F	1.1 U	
7	Calcium P	48000		19	Silver P	1.9 U	
8	Chromium P	334		20	Sodium P	[87]	R
9	Cobalt P	[3.1]		21	Thallium F	0.4 U	
10	Copper P	13		22	Vanadium P	18	
11	Iron P	10900		23	Zinc P	86 N	J
12	Lead F	4.9			Percent Solids (%)	90	
	Cyanide	1.2	J				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

000003

FORM I

Client Sample No.
S-B-2-6

Date: 0:-06-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2379

SOW NO.: 785

LAB RECEIPT DATE: 10-14-87

LAB SAMPLE ID. NO.: F2379-01

QC REPORT NO.: FCH-06

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	824		13	Magnesium P	5687 E	J
2	Antimony P	13 UN	R	14	Manganese P	79 N	J
3	Arsenic F	1.0 U		15	Mercury	0.1 UN*	R
4	Barium P	[5.5]		16	Nickel P	20 N *	J
5	Beryllium P	1.2 U		17	Potassium P	[118]	
6	Cadmium P	0.9 U		18	Selenium F	4.8 U	
7	Calcium P	18300		19	Silver P	2.1 U	
8	Chromium P	16 *		20	Sodium P	[174]	R
9	Cobalt P	2.4 U		21	Thallium F	4.8 U	
10	Copper P	[4.8]		22	Vanadium P	[2.7]	
11	Iron P	2662		23	Zinc P	14 N	R
12	Lead F	2.7			Percent Solids (%)	83	
	Cyanide	0.23 U	UJ				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

000003

FORM I

Client Sample No.
S-b-c-7

Date: 01-06-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2379

SDW NO.: 785

LAB RECEIPT DATE: 04-14-87

LAB SAMPLE ID. NO.: F2379-02

QC REPORT NO.: FCH-06

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	5459		13	Magnesium P	10500 E	J
2	Antimony P	12 UN	R	14	Manganese P	318 N	J
3	Arsenic F	16		15	Mercury	0.3 N*	J
4	Barium P	85		16	Nickel P	21 N	J
5	Beryllium P	1.1 U		17	Potassium P	[579]	
6	Cadmium P	0.8 U		18	Selenium F	0.4 U	
7	Calcium P	63700		19	Silver P	1.9 U	
8	Chromium P	38		20	Sodium P	[195]	R
9	Cobalt P	[3.5]		21	Thallium F	0.4 U	
10	Copper P	25		22	Vanadium P	13	
11	Iron P	12300		23	Zinc P	49 N	J
12	Lead P	27 *			Percent Solids (%)	91	
	Cyanide	0.86	J				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

000004

Client: CENTURY LABORATORIES
Job Number: 75621
Sample ID: S-W-36-1

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 10-31-87
Percent Moisture (Not Decanted): 11

Date Extracted/Prepared: 10-31-87
Conc/Dil Factor: 1

CAS #		ug/kg		CAS#		ug/kg
74-87-3	Chloromethane	11	U	78-87-5	1,2-Dichloropropane	6
74-83-9	Bromomethane	11	U	10061-02-6	Trans-1,3-Dichloropropene	6
75-01-4	Vinyl Chloride	11	U	79-01-6	Trichloroethene	6
75-00-3	Chloroethane	11	U	124-48-1	Dibromochloromethane	6
75-09-2	Methylene Chloride	2	J	79-00-5	1,1,2-Trichloroethane	6
67-64-1	Acetone	7	J	71-43-2	Benzene	6
75-15-0	Carbon Disulfide	6	U	10061-01-5	cis-1,3-Dichloropropene	6
75-35-4	1,1-Dichloroethene	6	U	110-75-8	2-Chloroethylvinylether	11
75-34-3	1,1-Dichloroethane	6	U	75-25-2	Bromoform	6
156-60-5	Trans-1,2-Dichloroethene	6	U	591-78-6	4-Methyl-2-Pentanone	11
67-77-3	Chloroform	6	U	108-10-1	2-Hexanone	11
107-06-2	1,2-Dichloroethane	6	U	127-18-4	Tetrachloroethene	6
78-93-3	2-Butanone	11	U	79-34-5	1,1,2,2-Tetrachloroethane	6
71-55-6	1,1,1-Trichloroethane	6	U	108-88-3	Toluene	6
56-23-5	Carbon Tetrachloride	6	U	108-90-7	Chlorobenzene	6
108-05-4	Vinyl Acetate	11	U	100-41-4	Ethylbenzene	6
75-27-4	Bromodichloromethane	6	U	100-42-5	Styrene	6
					Total Xylenes	6

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that met identification criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: CENTURY LABORATORIES
Job Number: 75621
Sample ID: S-W-36-2

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 10-31-87
Percent Moisture (Not Decanted): 15

Date Extracted/Prepared: 10-31-87
Conc/Dil Factor: 2.5

CAS #		ug/kg		CAS#		ug/kg	
74-87-3	Chloromethane	29	U	78-87-5	1,2-Dichloropropane	15	U
74-83-9	Bromomethane	29	U	10061-02-6	Trans-1,3-Dichloropropene	15	U
75-01-4	Vinyl Chloride	29	U	79-01-6	Trichloroethene	35	
75-00-3	Chloroethane	29	U	124-48-1	Dibromochloromethane	15	U
75-09-2	Methylene Chloride	18		79-00-5	1,1,2-Trichloroethane	15	U
67-64-1	Acetone	110		71-43-2	Benzene	3	J
75-15-0	Carbon Disulfide	3	J	10061-01-5	cis-1,3-Dichloropropene	15	U
75-35-4	1,1-Dichloroethene	15	U	110-75-8	2-Chloroethylvinylether	29	U
75-34-3	1,1-Dichloroethane	15	U	75-25-2	Bromoform	15	U
156-60-5	Trans-1,2-Dichloroethene	15	U	591-78-6	4-Methyl-2-Pentanone	29	U
67-77-3	Chloroform	3	J	108-10-1	2-Hexanone	29	U
107-06-2	1,2-Dichloroethane	15	U	127-18-4	Tetrachloroethene	12	J
78-93-3	2-Butanone	85		79-34-5	1,1,2,2-Tetrachloroethane	15	U
71-55-6	1,1,1-Trichloroethane	6	J	108-88-3	Toluene	65	
56-23-5	Carbon Tetrachloride	15	U	108-90-7	Chlorobenzene	15	U
108-05-4	Vinyl Acetate	29	U	100-41-4	Ethylbenzene	6	J
75-27-4	Bromodichloromethane	15	U	100-42-5	Styrene	15	U
					Total Xylenes	44	

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets identification criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: CENTURY LABORATORIES
Job Number: 75621
Sample ID: S-W-3B-36 S-W-3B-3A

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 10-31-87
Percent Moisture (Not Decanted): 19

Date Extracted/Prepared: 10-31-87
Conc/Dil Factor: 1

CAS #		ug/kg		CAS#		ug/kg	
74-87-3	Chloromethane	12	U	78-87-5	1,2-Dichloropropane	6	U
74-83-9	Bromomethane	12	U	10061-02-6	Trans-1,3-Dichloropropene	6	U
75-01-4	Vinyl Chloride	12	U	79-01-6	Trichloroethene	6	U
75-00-3	Chloroethane	12	U	124-48-1	Dibromochloromethane	6	U
75-09-2	Methylene Chloride	4	J	79-00-5	1,1,2-Trichloroethane	6	U
67-64-1	Acetone	12	U	71-43-2	Benzene	6	U
75-15-0	Carbon Disulfide	6	U	10061-01-5	cis-1,3-Dichloropropene	6	U
75-35-4	1,1-Dichloroethene	6	U	110-75-8	2-Chloroethylvinylether	12	U
75-34-3	1,1-Dichloroethane	6	U	75-25-2	Bromoform	6	U
156-60-5	Trans-1,2-Dichloroethene	6	U	591-78-6	4-Methyl-2-Pentanone	12	U
67-77-3	Chloroform	6	U	108-10-1	2-Hexanone	12	U
107-06-2	1,2-Dichloroethane	6	U	127-18-4	Tetrachloroethene	6	U
78-93-3	2-Butanone	12	U	79-34-5	1,1,2,2-Tetrachloroethane	6	U
71-55-6	1,1,1-Trichloroethane	6	U	108-88-3	Toluene	1	J
56-23-5	Carbon Tetrachloride	6	U	108-90-7	Chlorobenzene	6	U
108-05-4	Vinyl Acetate	12	U	100-41-4	Ethylbenzene	6	U
75-27-4	Bromodichloromethane	6	U	100-42-5	Styrene	6	U
					Total Xylenes	6	

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets identification criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: CENTURY LABORATORIES
Job Number: 75621
Sample ID: S-W-38-39

S-W-38-38

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 10-31-87
Percent Moisture (Not Decanted): 17

Date Extracted/Prepared: 10-31-87
Conc/Dil Factor: 10

CAS #		ug/kg		CAS#		ug/kg	
74-87-3	Chloromethane	120	U	78-87-5	1,2-Dichloropropane	60	U
74-83-9	Bromomethane	120	U	10061-02-6	Trans-1,3-Dichloropropene	60	U
75-01-4	Vinyl Chloride	120	U	79-01-6	Trichloroethene	96	
75-00-3	Chloroethane	120	U	124-48-1	Dibromochloromethane	60	U
75-09-2	Methylene Chloride	24	J	79-00-5	1,1,2-Trichloroethane	60	U
67-64-1	Acetone	120	U	71-43-2	Benzene	60	U
75-15-0	Carbon Disulfide	60		10061-01-5	cis-1,3-Dichloropropene	60	U
75-35-4	1,1-Dichloroethene	60	U	110-75-8	2-Chloroethylvinylether	120	U
75-34-3	1,1-Dichloroethane	60	U	75-25-2	Bromoform	60	U
156-60-5	Trans-1,2-Dichloroethene	48	J	591-78-6	4-Methyl-2-Pentanone	120	U
67-77-3	Chloroform	60	U	108-10-1	2-Hexanone	120	U
107-06-2	1,2-Dichloroethane	60	U	127-18-4	Tetrachloroethene	60	U
78-93-3	2-Butanone	300		79-34-5	1,1,2,2-Tetrachloroethane	60	U
71-55-6	1,1,1-Trichloroethane	60	U	108-88-3	Toluene	12	J
56-23-5	Carbon Tetrachloride	60	U	108-90-7	Chlorobenzene	60	U
108-05-4	Vinyl Acetate	120	U	100-41-4	Ethylbenzene	60	U
75-27-4	Bromodichloromethane	60	U	100-42-5	Styrene	60	U
					Total Xylenes	60	U

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets identification criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: CENTURY LABORATORIES
Job Number: 75621
Sample ID: S-W-38-4

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 10-31-87
Percent Moisture (Not Decanted): 13

Date Extracted/Prepared: 10-31-87
Conc/Dil Factor: 1

CAS #		ug/kg		CAS#		ug/kg	
74-87-3	Chloromethane	11	U	78-87-5	1,2-Dichloropropane	6	
74-83-9	Bromomethane	11	U	10061-02-6	Trans-1,3-Dichloropropene	6	U
75-01-4	Vinyl Chloride	11	U	79-01-6	Trichloroethene	6	U
75-00-3	Chloroethane	11	U	124-48-1	Dibromochloromethane	6	U
75-09-2	Methylene Chloride	5	J	79-00-5	1,1,2-Trichloroethane	6	U
67-64-1	Acetone	39		71-43-2	Benzene	6	U
75-15-0	Carbon Disulfide	25		10061-01-5	cis-1,3-Dichloropropene	6	U
75-35-4	1,1-Dichloroethene	6	U	110-75-8	2-Chloroethylvinylether	11	U
75-34-3	1,1-Dichloroethane	6	U	75-25-2	Bromoform	6	U
156-60-5	Trans-1,2-Dichloroethene	7		591-78-6	4-Methyl-2-Pentanone	11	U
67-77-3	Chloroform	6	U	108-10-1	2-Hexanone	11	U
107-06-2	1,2-Dichloroethane	6	U	127-18-4	Tetrachloroethene	6	U
78-93-3	2-Butanone	37		79-34-5	1,1,2,2-Tetrachloroethane	6	U
71-55-6	1,1,1-Trichloroethane	6		108-88-3	Toluene	14	
56-23-5	Carbon Tetrachloride	6	U	108-90-7	Chlorobenzene	6	U
108-05-4	Vinyl Acetate	11	U	100-41-4	Ethylbenzene	6	U
75-27-4	Bromodichloromethane	6	U	100-42-5	Styrene	6	U
					Total Xylenes	6	

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets identification criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: CENTURY LABORATORIES
Job Number: 75582
Sample ID: 5-6-3-4 (75582-2)

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 10-11-87
Percent Moisture (Not Decanted): 33

Date Extracted/Prepared: 10-11-87
Conc/Dil Factor: 1

CAS #		ug/kg		CAS#		ug/kg	
74-87-3	Chloromethane	15	U	78-87-5	1,2-Dichloropropane	7	U
74-83-9	Bromomethane	15	U	10061-02-6	Trans-1,3-Dichloropropene	7	U
75-01-4	Vinyl Chloride	15	U	79-01-6	Trichloroethene	7	U
75-00-3	Chloroethane	15	U	124-48-1	Dibromochloromethane	7	U
75-09-2	Methylene Chloride	7	U	79-00-5	1,1,2-Trichloroethane	7	U
67-64-1	Acetone	10	J	71-43-2	Benzene	7	U
75-15-0	Carbon Disulfide	7	U	10061-01-5	cis-1,3-Dichloropropene	7	U
75-35-4	1,1-Dichloroethene	7	U	110-75-8	2-Chloroethylvinylether	15	U
75-34-3	1,1-Dichloroethane	7	U	75-25-2	Bromoform	7	U
156-60-5	Trans-1,2-Dichloroethene	7	U	591-78-6	4-Methyl-2-Pentanone	15	U
67-77-3	Chloroform	7	U	108-10-1	2-Hexanone	15	U
107-06-2	1,2-Dichloroethane	7	U	127-18-4	Tetrachloroethene	7	U
78-93-3	2-Butanone	5	J	79-34-5	1,1,2,2-Tetrachloroethane	7	U
71-55-6	1,1,1-Trichloroethane	7	U	108-88-3	Toluene	7	U
56-23-5	Carbon Tetrachloride	7	U	108-90-7	Chlorobenzene	7	U
108-05-4	Vinyl Acetate	15	U	100-41-4	Ethylbenzene	7	U
75-27-4	Bromodichloromethane	7	U	100-42-5	Styrene	7	U
					Total Xylenes	7	U

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

D This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets identification criteria but the result is less than the specified detection limit but greater than zero (e.g., if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J).

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: CENTURY LABORATORIES
Job Number: 75621
Sample ID: S-W-3B-5

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 10-31-87
Percent Moisture (Not Decanted): 7

Date Extracted/Prepared: 10-31-87
Conc/Dil Factor: 10

CAS #		ug/kg		CAS#		ug/kg	
74-87-3	Chloromethane	110	U	78-87-5	1,2-Dichloropropane	54	U
74-83-9	Bromomethane	110	U	10061-02-6	Trans-1,3-Dichloropropene	54	U
75-01-4	Vinyl Chloride	110	U	79-01-6	Trichloroethene	54	U
75-00-3	Chloroethane	110	U	124-48-1	Dibromochloromethane	54	
75-09-2	Methylene Chloride	32	J	79-00-5	1,1,2-Trichloroethane	54	U
67-64-1	Acetone	110	U	71-43-2	Benzene	54	U
75-15-0	Carbon Disulfide	54	U	10061-01-5	cis-1,3-Dichloropropene	54	U
75-35-4	1,1-Dichloroethene	54	U	110-75-8	2-Chloroethylvinylether	110	
75-34-3	1,1-Dichloroethane	54	U	75-25-2	Bromoform	54	U
156-60-5	Trans-1,2-Dichloroethene	54	U	591-78-6	4-Methyl-2-Pentanone	110	U
67-77-3	Chloroform	54	U	108-10-1	2-Hexanone	110	
107-06-2	1,2-Dichloroethane	54	U	127-18-4	Tetrachloroethene	54	
78-93-3	2-Butanone	110	U	79-34-5	1,1,2,2-Tetrachloroethane	54	U
71-55-6	1,1,1-Trichloroethane	54	U	108-88-3	Toluene	54	
56-23-5	Carbon Tetrachloride	54	U	108-90-7	Chlorobenzene	54	
108-05-4	Vinyl Acetate	110	U	100-41-4	Ethylbenzene	54	U
75-27-4	Bromodichloromethane	54	U	100-42-5	Styrene	54	U
					Total Xylenes	54	

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets identification criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: CENTURY LABORATORIES
Job Number: 75623
Sample ID: S-W-3B-6

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 10-27-87
Percent Moisture (Not Decanted): 10

Date Extracted/Prepared: 10-27-87
Conc/Dil Factor: 1

CAS #		ug/kg		CAS#		ug/kg	
74-87-3	Chloromethane	11	U	78-87-5	1,2-Dichloropropane	6	U
74-83-9	Bromomethane	11	U	10061-02-6	Trans-1,3-Dichloropropene	6	U
75-01-4	Vinyl Chloride	11	U	79-01-6	Trichloroethene	6	U
75-00-3	Chloroethane	11	U	124-48-1	Dibromochloromethane	6	U
75-09-2	Methylene Chloride	2	J	79-00-5	1,1,2-Trichloroethane	6	U
67-64-1	Acetone	41	B	71-43-2	Benzene	6	U
75-15-0	Carbon Disulfide	6	U	10061-01-5	cis-1,3-Dichloropropene	6	U
75-35-4	1,1-Dichloroethene	6	U	110-75-8	2-Chloroethylvinylether	11	U
75-34-3	1,1-Dichloroethane	6	U	75-25-2	Bromoform	6	U
156-60-5	Trans-1,2-Dichloroethene	6	U	591-78-6	4-Methyl-2-Pentanone	11	U
67-77-3	Chloroform	6	U	108-10-1	2-Hexanone	11	U
107-06-2	1,2-Dichloroethane	6	U	127-18-4	Tetrachloroethene	6	U
78-93-3	2-Butanone	7	JB	79-34-5	1,1,2,2-Tetrachloroethane	6	U
71-55-6	1,1,1-Trichloroethane	6	U	108-88-3	Toluene	3	J
56-23-5	Carbon Tetrachloride	6	U	108-90-7	Chlorobenzene	6	U
108-05-4	Vinyl Acetate	11	U	100-41-4	Ethylbenzene	6	U
75-27-4	Bromodichloromethane	6	U	100-42-5	Styrene	6	U
					Total Xylenes	6	U

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets identification criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: CENTURY LABORATORIES
Job Number: 75632
Sample ID: S-W-36-7

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 11-3-87
Percent Moisture (Not Decanted): 16

Date Extracted/Prepared: 11-3-87
Conc/Dil Factor: 1

CAS #		ug/kg		CAS#		ug/kg	
74-87-3	Chloromethane	12	U	78-87-5	1,2-Dichloropropane	6	
74-83-9	Bromomethane	12	U	10061-02-6	Trans-1,3-Dichloropropene	6	
75-01-4	Vinyl Chloride	12	U	79-01-6	Trichloroethene	6	U
75-00-3	Chloroethane	12	U	124-48-1	Dibromochloromethane	6	U
75-09-2	Methylene Chloride	2	J	79-00-5	1,1,2-Trichloroethane	6	U
67-64-1	Acetone	12	U	71-43-2	Benzene	6	U
75-15-0	Carbon Disulfide	6	U	10061-01-5	cis-1,3-Dichloropropene	6	U
75-35-4	1,1-Dichloroethene	6	U	110-75-8	2-Chloroethylvinylether	12	U
75-34-3	1,1-Dichloroethane	6	U	75-25-2	Bromoform	6	U
156-60-5	Trans-1,2-Dichloroethene	6	U	591-78-6	4-Methyl-2-Pentanone	12	U
67-77-3	Chloroform	6	U	108-10-1	2-Hexanone	12	U
107-06-2	1,2-Dichloroethane	6	U	127-18-4	Tetrachloroethene	6	U
78-93-3	2-Butanone	6	JB	79-34-5	1,1,2,2-Tetrachloroethane	6	U
71-55-6	1,1,1-Trichloroethane	6	U	108-88-3	Toluene	1	J
56-23-5	Carbon Tetrachloride	6	U	108-90-7	Chlorobenzene	6	U
108-05-4	Vinyl Acetate	12	U	100-41-4	Ethylbenzene	6	U
75-27-4	Bromodichloromethane	6	U	100-42-5	Styrene	1	J
					Total Xylenes	3	

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets identification criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: CENTURY LABORATORIES
Job Number: 75632
Sample ID: S-W-3L-B

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: LOW
Date Analyzed: 11-3-87
Percent Moisture (Not Decanted): 15

Date Extracted/Prepared: 11-3-87
Conc/Dil Factor: 1

CAS #		ug/kg		CAS#		ug/kg	
74-87-3	Chloromethane	12	U	78-87-5	1,2-Dichloropropane	6	U
74-83-9	Bromomethane	12	U	10061-02-6	Trans-1,3-Dichloropropene	6	U
75-01-4	Vinyl Chloride	12	U	79-01-6	Trichloroethene	6	U
75-00-3	Chloroethane	12	U	124-48-1	Dibromochloromethane	6	U
75-09-2	Methylene Chloride	2	J	79-00-5	1,1,2-Trichloroethane	6	U
67-64-1	Acetone	12	U	71-43-2	Benzene	6	U
75-15-0	Carbon Disulfide	6	U	10061-01-5	cis-1,3-Dichloropropene	6	U
75-35-4	1,1-Dichloroethene	6	U	110-75-8	2-Chloroethylvinylether	12	U
75-34-3	1,1-Dichloroethane	6	U	75-25-2	Bromoform	6	U
156-60-5	Trans-1,2-Dichloroethene	6	U	591-78-6	4-Methyl-2-Pentanone	12	U
67-77-3	Chloroform	6	U	108-10-1	2-Hexanone	12	U
107-06-2	1,2-Dichloroethane	6	U	127-18-4	Tetrachloroethene	6	U
78-93-3	2-Butanone	12	U	79-34-5	1,1,2,2-Tetrachloroethane	6	U
71-55-6	1,1,1-Trichloroethane	6	U	108-88-3	Toluene	1	J
56-23-5	Carbon Tetrachloride	6	U	108-90-7	Chlorobenzene	6	U
108-05-4	Vinyl Acetate	12	U	100-41-4	Ethylbenzene	6	U
75-27-4	Bromodichloromethane	6	U	100-42-5	Styrene	6	U
					Total Xylenes	6	U

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets identification criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: CENTURY LABORATORIES
Job Number: 75632
Sample ID: S-w-3E-9

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 11-3-87
Percent Moisture (Not Decanted): 16

Date Extracted/Prepared: 11-3-87
Conc/Dil Factor: 1

CAS #		ug/kg		CAS#		ug/kg	
74-87-3	Chloromethane	12	U	78-87-5	1,2-Dichloropropane	6	
74-83-9	Bromomethane	12	U	10061-02-6	Trans-1,3-Dichloropropene	6	
75-01-4	Vinyl Chloride	12	U	79-01-6	Trichloroethene	6	U
75-00-3	Chloroethane	12	U	124-48-1	Dibromochloromethane	6	U
75-09-2	Methylene Chloride	2	J	79-00-5	1,1,2-Trichloroethane	6	U
67-64-1	Acetone	12	U	71-43-2	Benzene	6	U
75-15-0	Carbon Disulfide	6	U	10061-01-5	cis-1,3-Dichloropropene	6	U
75-35-4	1,1-Dichloroethene	6	U	110-75-8	2-Chloroethylvinylether	12	U
75-34-3	1,1-Dichloroethane	6	U	75-25-2	Bromoform	6	U
156-60-5	Trans-1,2-Dichloroethene	6	U	591-78-6	4-Methyl-2-Pentanone	12	U
67-77-3	Chloroform	6	U	108-10-1	2-Hexanone	12	U
107-06-2	1,2-Dichloroethane	6	U	127-18-4	Tetrachloroethene	6	U
78-93-3	2-Butanone	12	U	79-34-5	1,1,2,2-Tetrachloroethane	6	U
71-55-6	1,1,1-Trichloroethane	6	U	108-88-3	Toluene	1	J
56-23-5	Carbon Tetrachloride	6	U	108-90-7	Chlorobenzene	6	U
108-05-4	Vinyl Acetate	12	U	100-41-4	Ethylbenzene	6	U
75-27-4	Bromodichloromethane	6	U	100-42-5	Styrene	6	U
					Total Xylenes	6	

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets identification criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: CENTURY LABORATORIES
Job Number: 75632
Sample ID: S-W-38-10

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 11-3-87
Percent Moisture (Not Decanted): 15

Date Extracted/Prepared: 11-3-87
Conc/Dil Factor: 1

CAS #		ug/kg		CAS#		ug/kg	
74-87-3	Chloromethane	12	U	78-87-5	1,2-Dichloropropane	6	U
74-83-9	Bromomethane	12	U	10061-02-6	Trans-1,3-Dichloropropene	6	U
75-01-4	Vinyl Chloride	12	U	79-01-6	Trichloroethene	6	U
75-00-3	Chloroethane	12	U	124-48-1	Dibromochloromethane	6	U
75-09-2	Methylene Chloride	2	J	79-00-5	1,1,2-Trichloroethane	6	U
67-64-1	Acetone	12	U	71-43-2	Benzene	6	-
75-15-0	Carbon Disulfide	6	U	10061-01-5	cis-1,3-Dichloropropene	6	U
75-35-4	1,1-Dichloroethene	6	U	110-75-8	2-Chloroethylvinylether	12	U
75-34-3	1,1-Dichloroethane	6	U	75-25-2	Bromoform	6	U
156-60-5	Trans-1,2-Dichloroethene	6	U	591-78-6	4-Methyl-2-Pentanone	12	U
67-77-3	Chloroform	6	U	108-10-1	2-Hexanone	12	U
107-06-2	1,2-Dichloroethane	6	U	127-18-4	Tetrachloroethene	6	U
78-93-3	2-Butanone	12	U	79-34-5	1,1,2,2-Tetrachloroethane	6	U
71-55-6	1,1,1-Trichloroethane	6	U	108-88-3	Toluene	1	J
56-23-5	Carbon Tetrachloride	6	U	108-90-7	Chlorobenzene	6	U
108-05-4	Vinyl Acetate	12	U	100-41-4	Ethylbenzene	6	U
75-27-4	Bromodichloromethane	6	U	100-42-5	Styrene	6	-
					Total Xylenes	6	U

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets identification criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: CENTURY LABORATORIES
Job Number: 75632
Sample ID: S-W-3B-11

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 11-3-87
Percent Moisture (Not Decanted): 15

Date Extracted/Prepared: 11-3-87
Conc/Dil Factor: 1

CAS #		ug/kg		CAS#		ug/kg	
74-87-3	Chloromethane	12	U	78-87-5	1,2-Dichloropropane	6	U
74-83-9	Bromomethane	12	U	10061-02-6	Trans-1,3-Dichloropropene	6	
75-01-4	Vinyl Chloride	12	U	79-01-6	Trichloroethene	6	U
75-00-3	Chloroethane	12	U	124-48-1	Dibromochloromethane	6	U
75-09-2	Methylene Chloride	2	J	79-00-5	1,1,2-Trichloroethane	6	U
67-64-1	Acetone	14		71-43-2	Benzene	6	U
75-15-0	Carbon Disulfide	6	U	10061-01-5	cis-1,3-Dichloropropene	6	U
75-35-4	1,1-Dichloroethene	6	U	110-75-8	2-Chloroethylvinylether	12	U
75-34-3	1,1-Dichloroethane	6	U	75-25-2	Bromoform	6	U
156-60-5	Trans-1,2-Dichloroethene	6	U	591-78-6	4-Methyl-2-Pentanone	12	U
67-77-3	Chloroform	6	U	108-10-1	2-Hexanone	12	U
107-06-2	1,2-Dichloroethane	6	U	127-18-4	Tetrachloroethene	6	U
78-93-3	2-Butanone	12	U	79-34-5	1,1,2,2-Tetrachloroethane	6	U
71-55-6	1,1,1-Trichloroethane	6	U	108-88-3	Toluene	1	J
56-23-5	Carbon Tetrachloride	6	U	108-90-7	Chlorobenzene	6	U
108-05-4	Vinyl Acetate	12	U	100-41-4	Ethylbenzene	6	U
75-27-4	Bromodichloromethane	6	U	100-42-5	Styrene	6	U
					Total Xylenes	6	

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets identification criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: CENTURY LABORATORIES
Job Number: 75632
Sample ID: S-4-38-12

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 11-3-87
Percent Moisture (Not Decanted): 18

Date Extracted/Prepared: 11-3-87
Conc/Dil Factor: 1

CAS #		ug/kg		CAS#		ug/kg	
74-87-3	Chloromethane	12	U	78-87-5	1,2-Dichloropropane	6	U
74-83-9	Bromomethane	12	U	10061-02-6	Trans-1,3-Dichloropropene	6	U
75-01-4	Vinyl Chloride	12	U	79-01-6	Trichloroethene	6	U
75-00-3	Chloroethane	12	U	124-48-1	Dibromochloromethane	6	U
75-09-2	Methylene Chloride	2	J	79-00-5	1,1,2-Trichloroethane	6	U
67-64-1	Acetone	12	U	71-43-2	Benzene	6	U
75-15-0	Carbon Disulfide	6	U	10061-01-5	cis-1,3-Dichloropropene	6	U
75-35-4	1,1-Dichloroethene	6	U	110-75-8	2-Chloroethylvinylether	12	U
75-34-3	1,1-Dichloroethane	6	U	75-25-2	Bromoform	6	U
156-60-5	Trans-1,2-Dichloroethene	6	U	591-78-6	4-Methyl-2-Pentanone	12	U
67-77-3	Chloroform	6	U	108-10-1	2-Hexanone	12	U
107-06-2	1,2-Dichloroethane	6	U	127-18-4	Tetrachloroethene	6	U
78-93-3	2-Butanone	12	U	79-34-5	1,1,2,2-Tetrachloroethane	6	U
71-55-6	1,1,1-Trichloroethane	6	U	108-88-3	Toluene	1	J
56-23-5	Carbon Tetrachloride	6	U	108-90-7	Chlorobenzene	6	U
108-05-4	Vinyl Acetate	12	U	100-41-4	Ethylbenzene	6	U
75-27-4	Bromodichloromethane	6	U	100-42-5	Styrene	6	U
					Total Xylenes	6	U

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets identification criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: CENTURY LABORATORIES INC.
Job Number: [illegible]
Sample ID: [illegible]

[illegible] STATES [illegible] LABORATORIES, INC.
[illegible] ANALYSIS DATA SHEET

SEMIVOLATILE CONDITIONS

Concentration: LOW
Date Extracted/Prepared: [illegible]
Date Analyzed: [illegible]
Concent. Factor: [illegible]
Percent Moisture (Decanted): [illegible]

GPC Cleanup: NO
Separatory Funnel Extraction: NO
Continuous Liquid-Liquid Extraction: NO

CAS #		UG/KG	
[illegible]	Phenol	370	U
[illegible]	bis(2-chloroethyl)ether	370	U
[illegible]	2-Chlorophenol	370	U
[illegible]	1,3-Dichlorobenzene	370	U
[illegible]	1,4-Dichlorobenzene	370	U
[illegible]	Benzyl Alcohol	370	U
[illegible]	1,2-Dichlorobenzene	370	U
[illegible]	2-Methylphenol	370	U
[illegible]	bis(2-chloroisopropyl)ether	370	U
[illegible]	4-Methylphenol	370	U
[illegible]	N-Nitroso-Di-n-Propylamine	370	U
[illegible]	Hexachloroethane	370	U
[illegible]	Nitrobenzene	370	U
[illegible]	Isophorone	370	U
[illegible]	2-Nitrophenol	370	U
[illegible]	2,4-Dimethylphenol	370	U
[illegible]	Benzoic Acid	370	U
[illegible]	bis(2-Chloroethoxy)Methane	370	U
[illegible]	2,4-Dichlorophenol	370	U
[illegible]	1,2,4-Trichlorobenzene	370	U
[illegible]	Naphthalene	370	U
[illegible]	4-Chloroaniline	370	U
[illegible]	Hexachlorobutadiene	370	U
[illegible]	4-Chloro-3-Methylphenol	370	U
[illegible]	2-Methylnaphthalene	370	U
[illegible]	Hexachlorocyclopentadiene	370	U
[illegible]	2,4,6-Trichlorophenol	370	U
[illegible]	2,4,5-Trichlorophenol	370	U
[illegible]	2-Chloronaphthalene	370	U
[illegible]	2-Nitroaniline	370	U
[illegible]	Dimethylphthalate	370	U
[illegible]	Acenaphthylene	370	U
[illegible]	2,6-Dinitrotoluene	370	U
[illegible]	3-Nitroaniline	370	U
[illegible]	Acenaphthene	370	U
[illegible]	2,4-Dinitrophenol	370	U
[illegible]	4-Nitrophenol	370	U
[illegible]	Dibenzofuran	370	U
[illegible]	2,4-Dinitrotoluene	370	U
[illegible]	Diethylphthalate	370	U
[illegible]	4-Chlorophenyl-Phenylether	370	U
[illegible]	Fluorene	370	U
[illegible]	4-Nitroaniline	370	U
[illegible]	4,6-Dinitro-2-Methylphenol	370	U
[illegible]	N-Nitrosodiphenylamine	370	U
[illegible]	4-Bromophenyl-Phenylether	370	U
[illegible]	Hexachlorobenzene	370	U
[illegible]	Pentachlorophenol	370	U
[illegible]	Phenanthrene	370	U
[illegible]	Anthracene	370	U
[illegible]	Di-n-Butylphthalate	370	U
[illegible]	Fluoranthene	370	U
[illegible]	Pyrene	370	U
[illegible]	Butylbenzylphthalate	370	U
[illegible]	3,3'-Dichlorobenzidine	370	U
[illegible]	Benzo(a)Anthracene	370	U
[illegible]	bis(2-Ethylhexyl)Phthalate	370	U
[illegible]	Chrysene	370	U
[illegible]	Di-n-Octyl Phthalate	370	U
[illegible]	Benzo(b)Fluoranthene	370	U
[illegible]	Benzo(k)Fluoranthene	370	U
[illegible]	Benzo(a)Pyrene	370	U
[illegible]	Indeno(1,2,3-cd)Pyrene	370	U
[illegible]	Dibenz(a,h)Anthracene	370	U
[illegible]	Benzo(g,h,i)Perylene	370	U
[illegible]	Benzidine	370	U

Client: CENTURY LABORATORIES INC.
Job Number: 75577
Sample ID: S-W-1-2

United States Testing Company, Inc.
Organics Analysis Data Sheet

Semivolatile Compounds

Concentration: LOW
Date Extracted/Prepared: 10-14-87
Date Analyzed: 10-21-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): 9

GPC Cleanup: NO
Separatory Funnel Extraction: NO
Continuous Liquid-Liquid Extraction: NO

CAS #		ug/kg	
108-95-2	Phenol	370	U
111-44-4	bis(2-Chloroethyl)Ether	370	U
95-57-8	2-Chlorophenol	370	U
541-73-1	1,3-Dichlorobenzene	370	U
106-46-7	1,4-Dichlorobenzene	370	U
100-51-6	Benzyl Alcohol	370	U
95-50-1	1,2-Dichlorobenzene	370	U
95-48-7	2-Methylphenol	370	U
39638-32-9	bis(2-Chloroisopropyl)Ether	370	U
106-44-5	4-Methylphenol	370	U
621-64-7	N-Nitroso-Di-n-Propylamine	370	U
67-72-1	Hexachloroethane	370	U
98-95-3	Nitrobenzene	370	U
78-59-1	Isophorone	370	U
88-75-5	2-Nitrophenol	370	U
105-67-9	2,4-Dimethylphenol	370	U
65-85-0	Benzoic Acid	370	U
111-91-1	bis(2-Chloroethoxy)Methane	370	U
120-83-2	2,4-Dichlorophenol	370	U
120-82-1	1,2,4-Trichlorobenzene	370	U
91-20-3	Naphthalene	370	U
106-47-8	4-Chloroaniline	370	U
87-68-3	Hexachlorobutadiene	370	U
59-50-7	4-Chloro-3-Methylphenol	370	U
91-57-6	2-Methylnaphthalene	370	U
77-47-4	Hexachlorocyclopentadiene	370	U
88-06-2	2,4,6-Trichlorophenol	370	U
95-95-4	2,4,5-Trichlorophenol	1800	U
91-58-7	2-Chloronaphthalene	370	U
88-74-4	2-Nitroaniline	1800	U
131-11-3	Dimethyl Phthalate	370	U
208-96-8	Acenaphthylene	370	U

CAS #		ug/kg	
83-32-9	Acenaphthene	370	U
51-28-5	2,4-Dinitrophenol	1800	U
100-02-7	4-Nitrophenol	1800	U
132-64-9	Dibenzofuran	370	U
121-14-2	2,4-Dinitrotoluene	370	U
606-20-2	2,6-Dinitrotoluene	370	U
84-66-2	Diethylphthalate	370	U
7005-72-3	4-Chlorophenyl-Phenylether	370	U
86-73-7	Fluorene	370	U
100-01-6	4-Nitroaniline	1800	U
534-52-1	4,6-Dinitro-2-Methylphenol	1800	U
86-30-6	N-Nitrosodiphenylamine(1)	370	U
101-55-3	4-Bromophenyl-Phenylether	370	U
118-74-1	Hexachlorobenzene	370	U
87-86-5	Pentachlorophenol	1800	U
85-01-8	Phenanthrene	110	J
120-12-7	Anthracene	370	U
84-74-2	Di-n-Butylphthalate	1700	
206-44-0	Fluoranthene	160	J
129-00-0	Pyrene	160	J
85-68-7	Butylbenzylphthalate	370	U
91-94-1	3,3'-Dichlorobenzidine	730	U
56-55-3	Benzo(a)Anthracene	110	J
117-81-7	bis(2-Ethylhexyl)Phthalate	5[illegible]	
218-01-9	Chrysene	150	J
117-84-0	Di-n-Octyl Phthalate	37[illegible]	
205-99-2	Benzo(b)Fluoranthene	131	J
207-08-9	Benzo(k)Fluoranthene	37[illegible]	
50-32-8	Benzo(a)Pyrene	1[illegible]	
193-39-5	Indeno(1,2,3-cd)Pyrene	37[illegible]	
53-70-3	Dibenzo(a,h)Anthracene	37[illegible]	
191-24-2	Benzo(g,h,i)Perylene	37[illegible]	
99-09-2	3-Nitroaniline	1800	

(1) Cannot be separated from Diphenylamine

Client: CENTURY LABORATORIES INC.
Job Number: 75577
Sample ID: S-W-1-3

United States Testing Company, Inc.
Organics Analysis Data Sheet

Semivolatile Compounds

Concentration: Low
Date Extracted/Prepared: 10-14-87
Date Analyzed: 10-21-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): 11

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/kg	
108-95-2	Phenol	370	U
111-44-4	bis(2-Chloroethyl)Ether	370	U
95-57-8	2-Chlorophenol	370	U
541-73-1	1,3-Dichlorobenzene	370	U
106-46-7	1,4-Dichlorobenzene	370	U
100-51-6	Benzyl Alcohol	370	U
95-50-1	1,2-Dichlorobenzene	370	U
95-48-7	2-Methylphenol	370	U
39638-32-9	bis(2-Chloroisopropyl)Ether	370	U
106-44-5	4-Methylphenol	370	U
621-64-7	N-Nitroso-Di-n-Propylamine	370	U
67-72-1	Hexachloroethane	370	U
98-95-3	Nitrobenzene	370	U
78-59-1	Isophorone	370	U
88-75-5	2-Nitrophenol	370	U
105-67-9	2,4-Dimethylphenol	370	U
65-85-0	Benzoic Acid	370	U
111-91-1	bis(2-Chloroethoxy)Methane	370	U
120-83-2	2,4-Dichlorophenol	370	U
120-82-1	1,2,4-Trichlorobenzene	370	U
91-20-3	Naphthalene	370	U
106-47-8	4-Chloroaniline	370	U
87-68-3	Hexachlorobutadiene	370	U
59-50-7	4-Chloro-3-Methylphenol	370	U
91-57-6	2-Methylnaphthalene	370	U
77-47-4	Hexachlorocyclopentadiene	370	U
88-06-2	2,4,6-Trichlorophenol	370	U
95-95-4	2,4,5-Trichlorophenol	1900	U
91-58-7	2-Chloronaphthalene	370	U
88-74-4	2-Nitroaniline	1900	U
131-11-3	Dimethyl Phthalate	370	U
208-96-8	Acenaphthylene	370	U

CAS#		ug/kg	
83-32-9	Acenaphthene	370	
51-28-5	2,4-Dinitrophenol	1900	
100-02-7	4-Nitrophenol	1900	U
132-64-9	Dibenzofuran	370	
121-14-2	2,4-Dinitrotoluene	370	
606-20-2	2,6-Dinitrotoluene	370	U
84-66-2	Diethylphthalate	370	U
7005-72-3	4-Chlorophenyl-phenylether	370	
86-73-7	Fluorene	370	
100-01-6	4-Nitroaniline	1900	U
534-52-1	4,6-Dinitro-2-Methylphenol	1900	
86-30-6	N-Nitrosodiphenylamine(1)	370	
101-55-3	4-Bromophenyl-phenylether	370	U
118-74-1	Hexachlorobenzene	370	U
87-86-5	Pentachlorophenol	1900	
85-01-8	Phenanthrene	110	
120-12-7	Anthracene	370	U
84-74-2	Di-n-Butylphthalate	1400	
206-44-0	Fluoranthene	150	
129-00-0	Pyrene	150	U
85-68-7	Butylbenzylphthalate	370	
91-94-1	3,3'-Dichlorobenzidine	750	
56-55-3	Benzo(a)Anthracene	110	U
117-81-7	bis(2-Ethylhexyl)Phthalate	1400	
218-01-9	Chrysene	110	
117-84-0	Di-n-Octyl Phthalate	370	
205-99-2	Benzo(b)Fluoranthene	110	U
207-08-9	Benzo(k)Fluoranthene	370	
50-32-8	Benzo(a)Pyrene	75	
193-39-5	Indeno(1,2,3-cd)Pyrene	370	
53-70-3	Dibenzo(a,h)Anthracene	370	
191-24-2	Benzo(g,h,i)Perylene	370	
99-09-2	3-Nitroaniline	1900	

(1) Cannot be separated from diphenylamine

Client: CENTURY LABORATORIES INC.
Job Number: 75577
Sample ID: S-4-1-4

United States Testing Company, Inc.
Organics Analysis Data Sheet

Semivolatile Compounds

Concentration: LOW
Date Extracted/Prepared: 10-1-87
Date Analyzed: 10-2-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): 13

GPC Cleanup: NO
Separatory Funnel Extraction: NO
Continuous Liquid-Liquid Extraction: NO

CAS #		ug/kg	
108-95-2	Phenol	380	U
111-44-4	bis(2-Chloroethyl)Ether	380	U
95-57-8	2-Chlorophenol	380	U
541-73-1	1,3-Dichlorobenzene	380	U
106-46-7	1,4-Dichlorobenzene	380	U
100-51-6	Benzyl Alcohol	380	U
95-50-1	1,2-Dichlorobenzene	380	U
95-48-7	2-Methylphenol	380	U
39638-32-9	bis(2-Chloroisopropyl)Ether	380	U
106-44-5	4-Methylphenol	380	U
621-64-7	N-Nitroso-Di-n-Propylamine	380	U
67-72-1	Hexachloroethane	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	380	U
105-67-9	2,4-Dimethylphenol	380	U
65-85-0	Benzoic Acid	380	U
111-91-1	bis(2-Chloroethoxy)Methane	380	U
120-83-2	2,4-Dichlorophenol	380	U
120-82-1	1,2,4-Trichlorobenzene	380	U
91-20-3	Naphthalene	380	U
106-47-8	4-Chloroaniline	380	U
87-68-3	Hexachlorobutadiene	380	U
59-50-7	4-Chloro-3-Methylphenol	380	U
91-57-6	2-Methylnaphthalene	380	U
77-47-4	Hexachlorocyclopentadiene	380	U
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorophenol	1900	U
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	1900	U
131-11-3	Dimethyl Phthalate	77	J
208-96-8	Acenaphthylene	380	U

CAS#		ug/kg	
83-32-9	Acenaphthene	380	U
51-28-5	2,4-Dinitrophenol	1900	U
100-02-7	4-Nitrophenol	1900	U
132-64-9	Dibenzofuran	380	U
121-14-2	2,4-Dinitrotoluene	380	U
606-20-2	2,6-Dinitrotoluene	380	U
84-66-2	Diethylphthalate	380	U
7005-72-3	4-Chlorophenyl-phenylether	380	U
86-73-7	Fluorene	380	U
100-01-6	4-Nitroaniline	1900	U
534-52-1	4,6-Dinitro-2-Methylphenol	1900	U
86-30-6	N-Nitrosodiphenylamine(1)	380	U
101-55-3	4-Bromophenyl-phenylether	380	U
118-74-1	Hexachlorobenzene	380	U
87-86-5	Pentachlorophenol	1900	U
85-01-8	Phenanthrene	380	U
120-12-7	Anthracene	380	U
84-74-2	Di-n-Butylphthalate	1300	
206-44-0	Fluoranthene	380	U
129-00-0	Pyrene	380	U
85-68-7	Butylbenzylphthalate	1300	
91-94-1	3,3'-Dichlorobenzidine	770	U
56-55-3	Benzo(a)Anthracene	380	U
117-81-7	bis(2-Ethylhexyl) Phthalate	69	
218-01-9	Chrysene	380	U
117-84-0	Di-n-Octyl Phthalate	380	U
205-99-2	Benzo(b)Fluoranthene	380	U
207-08-9	Benzo(k)Fluoranthene	380	U
50-32-8	Benzo(a)Pyrene	380	U
193-39-5	Indeno(1,2,3-cd)Pyrene	380	U
53-70-3	Dibenzo(a,h)Anthracene	380	U
191-24-2	Benzo(g,h,i)Perylene	380	U
99-09-2	3-Nitroaniline	1900	U

(1) Cannot be separated from Diphenylamine

Client: CENTURY LABORATORIES INC.
Job Number: 75577
Sample ID: S-W-1-5

United States Testing Company, Inc.
Organics Analysis Data Sheet

Semivolatile Compounds

Concentration: LOW
Date Extracted/Prepared: 10-14-87
Date Analyzed: 10-21-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): 13

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/kg	
108-95-2	Phenol	360	U
111-44-4	bis(2-Chloroethyl)Ether	360	U
95-57-8	2-Chlorophenol	360	U
541-73-1	1,3-Dichlorobenzene	360	U
106-46-7	1,4-Dichlorobenzene	360	U
100-51-6	Benzyl Alcohol	360	U
95-50-1	1,2-Dichlorobenzene	360	U
95-48-7	2-Methylphenol	360	U
39638-32-9	bis(2-Chloroisopropyl)Ether	360	U
106-44-5	4-Methylphenol	360	U
621-64-7	N-Nitroso-Di-n-Propylamine	360	U
67-72-1	Hexachloroethane	360	U
98-95-3	Nitrobenzene	360	U
78-59-1	Isophorone	360	U
88-75-5	2-Nitrophenol	360	U
105-67-9	2,4-Dimethylphenol	360	U
65-85-0	Benzoic Acid	360	U
111-91-1	bis(2-Chloroethoxy)Methane	360	U
120-83-2	2,4-Dichlorophenol	360	U
120-82-1	1,2,4-Trichlorobenzene	360	U
91-20-3	Naphthalene	360	U
106-47-8	4-Chloroaniline	360	U
87-68-3	Hexachlorobutadiene	360	U
59-50-7	4-Chloro-3-Methylphenol	360	U
91-57-6	2-Methylnaphthalene	360	U
77-47-4	Hexachlorocyclopentadiene	360	U
88-06-2	2,4,6-Trichlorophenol	360	U
95-95-4	2,4,5-Trichlorophenol	1800	U
91-58-7	2-Chloronaphthalene	360	U
88-74-4	2-Nitroaniline	1800	U
131-11-3	Dimethyl Phthalate	360	U
208-96-8	Acenaphthylene	360	U

CAS#		ug/kg
83-32-9	Acenaphthene	360
51-28-5	2,4-Dinitrophenol	1800
100-02-7	4-Nitrophenol	1800
132-64-9	Dibenzofuran	360
121-14-2	2,4-Dinitrotoluene	360
606-20-2	2,6-Dinitrotoluene	360
84-66-2	Diethylphthalate	360
7005-72-3	4-Chlorophenyl-phenylether	360
86-73-7	Fluorene	360
100-01-6	4-Nitroaniline	1800
534-52-1	4,6-Dinitro-2-Methylphenol	1800
86-30-6	N-Nitrosodiphenylamine(1)	360
101-55-3	4-Bromophenyl-phenylether	360
118-74-1	Hexachlorobenzene	360
87-86-5	Pentachlorophenol	1800
85-01-8	Phenanthrene	360
120-12-7	Anthracene	360
84-74-2	Di-n-Butylphthalate	640
206-44-0	Fluoranthene	360
129-00-0	Pyrene	360
85-68-7	Butylbenzylphthalate	360
91-94-1	3,3'-Dichlorobenzidine	720
56-55-3	Benzo(a)Anthracene	360
117-81-7	bis(2-Ethylhexyl)Phthalate	720
218-01-9	Chrysene	360
117-84-0	Di-n-Octyl Phthalate	360
205-99-2	Benzo(b)Fluoranthene	360
207-08-9	Benzo(k)Fluoranthene	360
50-32-8	Benzo(a)Pyrene	360
193-39-5	Indeno(1,2,3-cd)Pyrene	360
53-70-3	Dibenzo(a,h)Anthracene	360
191-24-2	Benzo(g,h,i)Perylene	360
99-09-2	3-Nitroaniline	1800

... cannot be separated from Diphenylamine

Client: CENTURY LABORATORIES INC.
Job Number: 73577
Sample ID: S-W-1-6

United States Testing Company, Inc.
Organics Analysis Data Sheet

Semivolatile Compounds

Concentration: Low
Date Extracted/Prepared: 10-14-87
Date Analyzed: 10-23-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): 12

GPC Cleanup: NO
Separatory Funnel Extraction: NO
Continuous Liquid-Liquid Extraction: NO

CAS #		ug/kg	
108-95-2	Phenol	350	U
111-44-4	bis(2-Chloroethyl)Ether	350	U
95-57-8	2-Chlorophenol	350	U
541-73-1	1,3-Dichlorobenzene	350	U
106-46-7	1,4-Dichlorobenzene	350	U
100-51-6	Benzyl Alcohol	350	U
95-50-1	1,2-Dichlorobenzene	350	U
95-48-7	2-Methylphenol	350	U
39638-32-9	bis(2-Chloroisopropyl)Ether	350	U
106-44-5	4-Methylphenol	350	U
621-64-7	N-Nitroso-Di-n-Propylamine	350	U
67-72-1	Hexachloroethane	350	U
98-95-3	Nitrobenzene	350	U
78-59-1	Isophorone	350	U
88-75-5	2-Nitrophenol	350	U
105-67-9	2,4-Dimethylphenol	350	U
65-85-0	Benzoic Acid	350	U
111-91-1	bis(2-Chloroethoxy)Methane	350	U
120-83-2	2,4-Dichlorophenol	350	U
120-82-1	1,2,4-Trichlorobenzene	350	U
91-20-3	Naphthalene	350	U
106-47-8	4-Chloroaniline	350	U
87-68-3	Hexachlorobutadiene	350	U
59-50-7	4-Chloro-3-Methylphenol	350	U
91-57-6	2-Methylnaphthalene	350	U
77-47-4	Hexachlorocyclopentadiene	350	U
88-06-2	2,4,6-Trichlorophenol	350	U
95-95-4	2,4,5-Trichlorophenol	1700	U
91-58-7	2-Chloronaphthalene	350	U
88-74-4	2-Nitroaniline	1700	U
131-11-3	Dimethyl Phthalate	350	U
208-96-8	Acenaphthylene	350	U

CAS#		ug/kg	
83-32-9	Acenaphthene	350	U
51-28-5	2,4-Dinitrophenol	1700	U
100-02-7	4-Nitrophenol	1700	U
132-64-9	Dibenzofuran	350	U
121-14-2	2,4-Dinitrotoluene	350	U
606-20-2	2,6-Dinitrotoluene	350	U
84-66-2	Diethylphthalate	350	U
7005-72-3	4-Chlorophenyl-phenylether	350	U
86-73-7	Fluorene	350	U
100-01-6	4-Nitroaniline	1700	U
534-52-1	4,6-Dinitro-2-Methylphenol	1700	U
86-30-6	N-Nitrosodiphenylamine(1)	350	U
101-55-3	4-Bromophenyl-phenylether	350	U
118-74-1	Hexachlorobenzene	350	U
87-86-5	Pentachlorophenol	1700	U
85-01-8	Phenanthrene	350	U
120-12-7	Anthracene	350	U
84-74-2	Di-n-Butylphthalate	1700	U
206-44-0	Fluoranthene	350	U
129-00-0	Pyrene	350	U
85-68-7	Butylbenzylphthalate	350	U
91-94-1	3,3'-Dichlorobenzidine	700	U
56-55-3	Benzo(a)Anthracene	350	U
117-81-7	bis(2-Ethylhexyl)Phthalate	350	U
218-01-9	Chrysene	350	U
117-84-0	Di-n-Octyl Phthalate	350	U
205-99-2	Benzo(b)Fluoranthene	350	U
207-08-9	Benzo(k)Fluoranthene	350	U
50-32-8	Benzo(a)Pyrene	350	U
193-39-5	Indeno(1,2,3-cd)Pyrene	350	U
53-70-3	Dibenzo(a,h)Anthracene	350	U
191-24-2	Benzo(g,h,i)Perylene	350	U
99-09-2	3-Nitroaniline	1700	U

(1) Cannot be separated from Diphenylamine

Client: CENTURY LABORATORIES
Job Number: 75631
Sample : S-W-3B-1

United States Testing Company, Inc.
Organics Analysis Data Sheet

Semivolatile Compounds

Concentration: LOW
Date Extracted/Prepared: 10-31-87
Date Analyzed: 11-6-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): 11

GPC Cleanup: NO
Separatory Funnel Extraction: NO
Continuous Liquid-Liquid Extraction: NO

CAS #		ug/kg		
108-95-2	Phenol	370		U
111-44-4	bis(2-Chloroethyl)Ether	370		U
95-57-8	2-Chlorophenol	370	R	U
541-73-1	1,3-Dichlorobenzene	370		U
106-46-7	1,4-Dichlorobenzene	370		U
100-51-6	Benzyl Alcohol	370		U
95-50-1	1,2-Dichlorobenzene	370		U
95-48-7	2-Methylphenol	370	R	U
39638-32-9	bis(2-Chloroisopropyl)Ether	370		U
106-44-5	4-Methylphenol	370	R	U
621-64-7	N-Nitroso-Di-n-Propylamine	370		U
67-72-1	Hexachloroethane	370		U
98-95-3	Nitrobenzene	370		U
78-59-1	Isophorone	370		U
88-75-5	2-Nitrophenol	370	R	U
105-67-9	2,4-Dimethylphenol	370	R	U
65-85-0	Benzoic Acid	370		U
111-91-1	bis(2-Chloroethoxy)Methane	370		U
120-83-2	2,4-Dichlorophenol	370	R	U
120-82-1	1,2,4-Trichlorobenzene	370		U
91-20-3	Naphthalene	370		U
106-47-8	4-Chloroaniline	370		U
87-68-3	Hexachlorobutadiene	370		U
59-50-7	4-Chloro-3-Methylphenol	370	R	U
91-57-6	2-Methylnaphthalene	370		U
77-47-4	Hexachlorocyclopentadiene	370		U
88-06-2	2,4,6-Trichlorophenol	370	R	U
95-95-4	2,4,5-Trichlorophenol	1900	R	U
91-58-7	2-Chloronaphthalene	370		U
88-74-4	2-Nitroaniline	1900		U
131-11-3	Dimethyl Phthalate	370		U
208-96-8	Acenaphthylene	370		U

CAS#		ug/kg		
83-32-9	Acenaphthene	370		U
51-28-5	2,4-Dinitrophenol	1900		U
100-02-7	4-Nitrophenol	1900		U
132-64-9	Dibenzofuran	37		J
121-14-2	2,4-Dinitrotoluene	370		U
606-20-2	2,6-Dinitrotoluene	370		U
84-66-2	Diethylphthalate	370		U
7005-72-3	4-Chlorophenyl-phenylether	370		U
86-73-7	Fluorene	370		U
100-01-6	4-Nitroaniline	1900		U
534-52-1	4,6-Dinitro-2-Methylphenol	1900		U
86-30-6	N-Nitrosodiphenylamine(1)	370		U
101-55-3	4-Bromophenyl-phenylether	370		U
118-74-1	Hexachlorobenzene	370		U
87-86-5	Pentachlorophenol	1900		U
85-01-8	Phenanthrene	370		
120-12-7	Anthracene	370		
84-74-2	Di-n-Butylphthalate	520		
206-44-0	Fluoranthene	410		
129-00-0	Pyrene	370		
85-68-7	Butylbenzylphthalate	370		U
91-94-1	3,3'-Dichlorobenzidine	750		U
56-55-3	Benzo(a)Anthracene	370		U
117-81-7	bis(2-Ethylhexyl)Phthalate	340		J
218-01-9	Chrysene	220		J
117-84-0	Di-n-Octyl Phthalate	370		U
205-99-2	Benzo(b)Fluoranthene	370		U
207-08-9	Benzo(k)Fluoranthene	370		U
50-32-8	Benzo(a)Pyrene	190		J
193-39-5	Indeno(1,2,3-cd)Pyrene	370		U
53-70-3	Dibenzo(a,h)Anthracene	370		U
191-24-2	Benzo(g,h,i)Perylene	370		U
99-09-2	3-Nitroaniline	1900		U

(1) Cannot be separated from Diphenylamine

Client: CENTURY LABORATORIES
Job Number: 75621
Sample ID: S-W-38-2

United States Testing Company, Inc.
Organics Analysis Data Sheet

Semivolatile Compounds

Concentration: Low
Date Extracted/Prepared: 10-31-87
Date Analyzed: 11-6-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): 15

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/kg		
108-95-2	Phenol	390		U
111-44-4	bis(2-Chloroethyl)Ether	390		U
95-57-8	2-Chlorophenol	390	R	U
541-73-1	1,3-Dichlorobenzene	390		U
106-46-7	1,4-Dichlorobenzene	390		U
100-51-6	Benzyl Alcohol	390		U
95-50-1	1,2-Dichlorobenzene	390		U
95-48-7	2-Methylphenol	390	R	U
39638-32-9	bis(2-chloroisopropyl)Ether	390		U
106-44-5	4-Methylphenol	390	R	U
621-64-7	N-Nitroso-Di-n-Propylamine	390		U
67-72-1	Hexachloroethane	390		U
98-95-3	Nitrobenzene	390		U
78-59-1	Isophorone	390		U
88-75-5	2-Nitrophenol	390	R	U
105-67-9	2,4-Dimethylphenol	390	R	U
65-85-0	Benzoic Acid	390	R	U
111-91-1	bis(2-Chloroethoxy)Methane	390		U
120-83-2	2,4-Dichlorophenol	390	R	U
120-82-1	1,2,4-Trichlorobenzene	390		U
91-20-3	Naphthalene	390		U
106-47-8	4-Chloroaniline	390		U
87-68-3	Hexachlorobutadiene	390		U
59-50-7	4-Chloro-3-Methylphenol	390	R	U
91-57-6	2-Methylnaphthalene	240		J
77-47-4	Hexachlorocyclopentadiene	390		U
88-06-2	2,4,6-Trichlorophenol	390	R	U
95-95-4	2,4,5-Trichlorophenol	2000	R	U
91-58-7	2-Chloronaphthalene	390		U
88-74-4	2-Nitroaniline	2000		U
131-11-3	Dimethyl Phthalate	390		U
208-96-8	Acenaphthylene	390		U

CAS#		ug/kg	
83-32-9	Acenaphthene	390	U
51-28-5	2,4-Dinitrophenol	2000	U
100-02-7	4-Nitrophenol	2000	U
132-64-9	Dibenzofuran	120	J
121-14-2	2,4-Dinitrotoluene	390	U
606-20-2	2,6-Dinitrotoluene	390	U
84-66-2	Diethylphthalate	390	U
7005-72-3	4-Chlorophenyl-phenylether	390	U
86-73-7	Fluorene	390	U
100-01-6	4-Nitroaniline	2000	U
534-52-1	4,6-Dinitro-2-Methylphenol	2000	U
86-30-6	N-Nitrosodiphenylamine(1)	390	U
101-55-3	4-Bromophenyl-phenylether	390	U
118-74-1	Hexachlorobenzene	390	U
87-86-5	Pentachlorophenol	2000	U
85-01-8	Phenanthrene	310	J
120-12-7	Anthracene	78	J
84-74-2	Di-n-Butylphthalate	620	
206-44-0	Fluoranthene	430	
129-00-0	Pyrene	390	
85-68-7	Butylbenzylphthalate	390	U
91-94-1	3,3'-Dichlorobenzidine	780	U
56-55-3	Benzo(a)Anthracene	390	U
117-81-7	bis(2-Ethylhexyl)Phthalate	1100	
218-01-9	Chrysene	270	J
117-84-0	Di-n-Octyl Phthalate	390	U
205-99-2	Benzo(b)Fluoranthene	430	
207-08-9	Benzo(k)Fluoranthene	390	U
50-32-8	Benzo(a)Pyrene	240	J
193-39-5	Indeno(1,2,3-cd)Pyrene	390	U
53-70-3	Dibenzo(a,h)Anthracene	390	U
191-24-2	Benzo(g,h,i)Perylene	390	U
99-09-2	3-Nitroaniline	2000	U

(1) Cannot be separated from Diphenylamine

Client: CENTURY LABORATORIES
Job Number: 75621
Sample ID: S-W-35-36
S-W373-32

United States Testing Company, Inc.
Organics Analysis Data Sheet

Semivolatile Compounds

Concentration: LOW
Date Extracted/Prepared: 10-31-87
Date Analyzed: 11-6-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): 19

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/kg		CAS#		ug/kg	
108-95-2	Phenol	410	U	83-32-9	Acenaphthene	410	U
111-44-4	Bis(2-Chloroethyl)Ether	410	U	51-28-5	2,4-Dinitrophenol	2100	U
95-57-8	2-Chlorophenol	410	U R	100-02-7	4-Nitrophenol	2100	U
541-73-1	1,3-Dichlorobenzene	410	U	132-64-9	Dibenzofuran	410	U
106-46-7	1,4-Dichlorobenzene	410	U	121-14-2	2,4-Dinitrotoluene	410	U
100-51-6	Benzyl Alcohol	410	U	606-20-2	2,6-Dinitrotoluene	410	U
95-50-1	1,2-Dichlorobenzene	410	U	84-66-2	Diethylphthalate	410	U
95-48-7	2-Methylphenol	410	U R	7005-72-3	4-Chlorophenyl-phenylether	410	U
39638-32-9	Bis(2-chloroisopropyl)Ether	410	U	86-73-7	Fluorene	410	U
106-44-5	4-Methylphenol	410	U R	100-01-6	4-Nitroaniline	2100	U
621-64-7	N-Nitroso-Di-n-Propylamine	410	U	534-52-1	4,6-Dinitro-2-Methylphenol	2100	U
67-72-1	Hexachloroethane	410	U	86-30-6	N-Nitrosodiphenylamine(1)	410	U
98-95-3	Nitrobenzene	410	U	101-55-3	4-Bromophenyl-phenylether	410	U
78-59-1	Isophorone	410	U	118-74-1	Hexachlorobenzene	410	U
88-75-5	2-Nitrophenol	410	U R	87-86-5	Pentachlorophenol	2100	U
105-67-9	2,4-Dimethylphenol	410	U R	85-01-8	Phenanthrene	370	
65-85-0	Benzoic Acid	410	U R	120-12-7	Anthracene	410	
111-91-1	Bis(2-Chloroethoxy)Methane	410	U	84-74-2	Di-n-Butylphthalate	2400	
120-83-2	2,4-Dichlorophenol	410	U R	206-44-0	Fluoranthene	370	J
120-82-1	1,2,4-Trichlorobenzene	410	U	129-00-0	Pyrene	330	J
91-20-3	Naphthalene	410	U	85-68-7	Butylbenzylphthalate	410	U
106-47-8	4-Chloroaniline	410	U	91-94-1	3,3'-Dichlorobenzidine	820	U
87-68-3	Hexachlorobutadiene	410	U	56-55-3	Benzo(a)Anthracene	370	J
59-50-7	4-Chloro-3-Methylphenol	410	U R	117-81-7	bis(2-Ethylhexyl)Phthalate	7200	
91-57-6	2-Methylnaphthalene	410	U	218-01-9	Chrysene	330	J
77-47-4	Hexachlorocyclopentadiene	410	U	117-84-0	Di-n-Octyl Phthalate	410	
88-06-2	2,4,6-Trichlorophenol	410	U R	205-99-2	Benzo(b)Fluoranthene	820	
95-95-4	2,4,5-Trichlorophenol	2100	U R	207-08-9	Benzo(k)Fluoranthene	410	U
91-58-7	2-Chloronaphthalene	410	U	50-32-8	Benzo(a)Pyrene	450	
88-74-4	2-Nitroaniline	2100	U	193-39-5	Indeno(1,2,3-cd)Pyrene	410	
131-11-3	Dimethyl Phthalate	410	U	53-70-3	Dibenzo(a,h)Anthracene	410	U
208-96-8	Acenaphthylene	410	U	191-24-2	Benzo(g,h,i)Perylene	410	
				99-09-2	3-Nitroaniline	2100	

(1) Cannot be separated from diphenylamine

Client: CENTURY LABORATORIES
Job Number: 75621
Sample ID: 9-W-3E-39
5-W-3G-3b

United States Testing Company, Inc.
Organics Analysis Data Sheet

Semivolatile Compounds

Concentration: Low
Date Extracted/Prepared: 10-21-87
Date Analyzed: 11-6-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): 17

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/kg		CAS#		ug/kg	
108-95-2	Phenol	400	U	83-32-9	Acenaphthene	400	U
111-44-4	bis(2-Chloroethyl)Ether	400	U	51-28-5	2,4-Dinitrophenol	2000	U
95-57-8	2-Chlorophenol	400	U	100-02-7	4-Nitrophenol	2000	U
541-73-1	1,3-Dichlorobenzene	400	U	132-64-9	Dibenzofuran	400	U
106-46-7	1,4-Dichlorobenzene	400	U	121-14-2	2,4-Dinitrotoluene	400	U
100-51-6	Benzyl Alcohol	400	U	606-20-2	2,6-Dinitrotoluene	400	U
95-50-1	1,2-Dichlorobenzene	400	U	84-66-2	Diethylphthalate	400	U
95-48-7	2-Methylphenol	400	U	7005-72-3	4-Chlorophenyl-phenylether	400	U
39638-32-9	bis(2-Chloroisopropyl)Ether	400	U	86-73-7	Fluorene	400	U
106-44-5	4-Methylphenol	400	U	100-01-6	4-Nitroaniline	2000	U
621-64-7	N-Nitroso-Di-n-Propylamine	400	U	534-52-1	4,6-Dinitro-2-Methylphenol	2000	U
67-72-1	Hexachloroethane	400	U	86-30-6	N-Nitrosodiphenylamine(1)	400	U
98-95-3	Nitrobenzene	400	U	101-55-3	4-Bromophenyl-phenylether	400	U
78-59-1	Isophorone	400	U	118-74-1	Hexachlorobenzene	400	U
88-75-5	2-Nitrophenol	400	U	87-86-5	Pentachlorophenol	2000	U
105-67-9	2,4-Dimethylphenol	400	U	85-01-8	Phenanthrene	260	J
65-85-0	Benzoic Acid	400	U	120-12-7	Anthracene	400	U
111-91-1	bis(2-Chloroethoxy)Methane	400	U	84-74-2	Di-n-Butylphthalate	3000	
120-83-2	2,4-Dichlorophenol	400	U	206-44-0	Fluoranthene	400	U
120-82-1	1,2,4-Trichlorobenzene	400	U	129-00-0	Pyrene	240	J
91-20-3	Naphthalene	400	U	85-68-7	Butylbenzylphthalate	400	U
106-47-8	4-Chloroaniline	400	U	91-94-1	3,3'-Dichlorobenzidine	800	U
87-68-3	Hexachlorobutadiene	400	U	56-55-3	Benzo(a)Anthracene	240	J
59-50-7	4-Chloro-3-Methylphenol	400	U	117-81-7	bis(2-Ethylhexyl)Phthalate	8000	
91-57-6	2-Methylnaphthalene	400	U	218-01-9	Chrysene	240	J
77-47-4	Hexachlorocyclopentadiene	400	U	117-84-0	Di-n-Octyl Phthalate	400	U
88-06-2	2,4,6-Trichlorophenol	400	U	205-99-2	Benzo(b)Fluoranthene	400	U
95-95-4	2,4,5-Trichlorophenol	2000	U	207-08-9	Benzo(k)Fluoranthene	400	U
91-58-7	2-Chloronaphthalene	400	U	50-32-8	Benzo(a)Pyrene	360	J
88-74-4	2-Nitroaniline	2000	U	193-39-5	Indeno(1,2,3-cd)Pyrene	400	U
131-11-3	Dimethyl Phthalate	400	U	53-70-3	Dibenzo(a,h)Anthracene	400	U
208-96-8	Acenaphthylene	400	U	191-24-2	Benzo(g,h,i)Perylene	400	U
				99-09-2	3-Nitroaniline	2000	U

(1) Cannot be separated from diphenylamine

Client: CENTURY LABORATORIES
Job Number: 75621
Sample ID: S-W-3E-4

United States Testing Company, Inc.
Organics Analysis Data Sheet

Semivolatile Compounds

Concentration: Low
Date Extracted/Prepared: 10-31-87
Date Analyzed: 11-6-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): 13

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/kg		CAS#		ug/kg	
108-95-2	Phenol	380	U	83-32-9	Acenaphthene	380	U
111-44-4	bis(2-Chloroethyl)Ether	380	U	51-28-5	2,4-Dinitrophenol	1900	U
95-57-8	2-Chlorophenol	380	U R	100-02-7	4-Nitrophenol	1900	U
541-73-1	1,3-Dichlorobenzene	380	U	132-64-9	Dibenzofuran	380	U
106-46-7	1,4-Dichlorobenzene	380	U	121-14-2	2,4-Dinitrotoluene	380	U
100-51-6	Benzyl Alcohol	380	U	606-20-2	2,6-Dinitrotoluene	380	U
95-50-1	1,2-Dichlorobenzene	380	U	84-66-2	Diethylphthalate	380	U
95-48-7	2-Methylphenol	380	U R	7005-72-3	4-Chlorophenyl-phenylether	380	U
39638-32-9	bis(2-Chloroisopropyl)Ether	380	U	86-73-7	Fluorene	380	U
106-44-5	4-Methylphenol	380	U R	100-01-6	4-Nitroaniline	1900	U
621-64-7	N-Nitroso-Di-n-Propylamine	380	U	534-52-1	4,6-Dinitro-2-Methylphenol	1900	U
67-72-1	Hexachloroethane	380	U	86-30-6	N-Nitrosodiphenylamine(1)	380	U
98-95-3	Nitrobenzene	380	U	101-55-3	4-Bromophenyl-phenylether	380	U
78-59-1	Isophorone	380	U	118-74-1	Hexachlorobenzene	380	U
88-75-5	2-Nitrophenol	380	U R	87-86-5	Pentachlorophenol	1900	U
105-67-9	2,4-Dimethylphenol	380	U R	85-01-8	Phenanthrene	3000	
65-85-0	Benzoic Acid	380	U R	120-12-7	Anthracene	380	
111-91-1	bis(2-Chloroethoxy)Methane	380	U	84-74-2	Di-n-Butylphthalate	1300	
120-83-2	2,4-Dichlorophenol	380	U R	206-44-0	Fluoranthene	3300	
120-82-1	1,2,4-Trichlorobenzene	380	U	129-00-0	Pyrene	3000	
91-20-3	Naphthalene	380	U	85-68-7	Butylbenzylphthalate	380	U
106-47-8	4-Chloroaniline	380	U	91-94-1	3,3'-Dichlorobenzidine	770	U
87-68-3	Hexachlorobutadiene	380	U	56-55-3	Benzo(a)Anthracene	1700	
59-50-7	4-Chloro-3-Methylphenol	380	U R	117-81-7	bis(2-Ethylhexyl)Phthalate	380	U
91-57-6	2-Methylnaphthalene	380	U	218-01-9	Chrysene	1400	
77-47-4	Hexachlorocyclopentadiene	380	U	117-84-0	Di-n-Octyl Phthalate	5300	
88-06-2	2,4,6-Trichlorophenol	380	U R	205-99-2	Benzo(b)Fluoranthene	2500	
95-95-4	2,4,5-Trichlorophenol	1900	U R	207-08-9	Benzo(k)Fluoranthene	380	U
91-58-7	2-Chloronaphthalene	380	U	50-32-8	Benzo(a)Pyrene	380	U
88-74-4	2-Nitroaniline	1900	U	193-39-5	Indeno(1,2,3-cd)Pyrene	380	U
131-11-3	Dimethyl Phthalate	380	U	53-70-3	Dibenzo(a,h)Anthracene	380	U
208-96-8	Acenaphthylene	380	U	191-24-2	Benzo(g,h,i)Perylene	380	U
				99-09-2	3-Nitroaniline	1900	U

(1) Cannot be separated from diphenylamine

Client: CENTURY LABORATORIES
Job Number: 75623
Sample ID: S-W-36-5

United States Testing Company, Inc.
Organics Analysis Data Sheet

Semivolatile Compounds

Concentration: Low
Date Extracted/Prepared: 10-31-87
Date Analyzed: 11-3-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): 9

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/kg		CAS#		ug/kg	
108-95-2	Phenol	370	U	83-32-9	Acenaphthene	370	U
111-44-4	bis(2-Chloroethyl)Ether	370	U	51-28-5	2,4-Dinitrophenol	1800	U
95-57-8	2-Chlorophenol	370	U	100-02-7	4-Nitrophenol	1800	U
541-73-1	1,3-Dichlorobenzene	370	U	132-64-9	Dibenzofuran	370	U
106-46-7	1,4-Dichlorobenzene	370	U	121-14-2	2,4-Dinitrotoluene	370	U
100-51-6	Benzyl Alcohol	370	U	606-20-2	2,6-Dinitrotoluene	370	U
95-50-1	1,2-Dichlorobenzene	370	U	84-66-2	Diethylphthalate	370	U
95-48-7	2-Methylphenol	370	U	7005-72-3	4-Chlorophenyl-phenylether	370	U
39638-32-9	bis(2-chloroisopropyl)Ether	370	U	86-73-7	Fluorene	370	U
106-44-5	4-Methylphenol	370	U	100-01-6	4-Nitroaniline	1800	U
621-64-7	N-Nitroso-Di-n-Propylamine	370	U	534-52-1	4,6-Dinitro-2-Methylphenol	1800	U
67-72-1	Hexachloroethane	370	U	86-30-6	N-Nitrosodiphenylamine(1)	370	U
98-95-3	Nitrobenzene	370	U	101-55-3	4-Bromophenyl-phenylether	370	U
78-59-1	Isophorone	370	U	118-74-1	Hexachlorobenzene	370	U
88-75-5	2-Nitrophenol	370	U	87-86-5	Pentachlorophenol	1800	U
105-67-9	2,4-Dimethylphenol	370	U	85-01-8	Phenanthrene	370	U
65-85-0	Benzoic Acid	370	U	120-12-7	Anthracene	370	U
111-91-1	bis(2-Chloroethoxy)Methane	370	U	84-74-2	Di-n-Butylphthalate	3800	
120-83-2	2,4-Dichlorophenol	370	U	206-44-0	Fluoranthene	370	U
120-82-1	1,2,4-Trichlorobenzene	370	U	129-00-0	Pyrene	370	U
91-20-3	Naphthalene	370	U	85-68-7	Butylbenzylphthalate	370	U
106-47-8	4-Chloroaniline	370	U	91-94-1	3,3'-Dichlorobenzidine	730	U
87-68-3	Hexachlorobutadiene	370	U	56-55-3	Benzo(a)Anthracene	370	U
59-50-7	4-Chloro-3-Methylphenol	370	U	117-81-7	bis(2-Ethylhexyl)Phthalate	590	
91-57-6	2-Methylnaphthalene	370	U	218-01-9	Chrysene	370	U
77-47-4	Hexachlorocyclopentadiene	370	U	117-84-0	Di-n-Octyl Phthalate	370	U
88-06-2	2,4,6-Trichlorophenol	370	U	205-99-2	Benzo(b)Fluoranthene	370	U
95-95-4	2,4,5-Trichlorophenol	1800	U	207-08-9	Benzo(k)Fluoranthene	370	
91-58-7	2-Chloronaphthalene	370	U	50-32-8	Benzo(a)Pyrene	370	U
88-74-4	2-Nitroaniline	1800	U	193-39-5	Indeno(1,2,3-cd)Pyrene	370	
131-11-3	Dimethyl Phthalate	370	U	53-70-3	Dibenzo(a,h)Anthracene	370	
208-96-8	Acenaphthylene	370	U	191-24-2	Benzo(g,h,i)Perylene	370	
				99-09-2	3-Nitroaniline	1800	

(1) Cannot be separated from diphenylamine

Client: CENTURY LABORATORIES
Job Number: 75623
Sample ID: S-W-38-6

United States Testing Company, Inc.
Organics Analysis Data Sheet

Semivolatile Compounds

Concentration: Low
Date Extracted/Prepared: 10-31-87
Date Analyzed: 11-3-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): 10

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/kg		
108-95-2	Phenol	370	U	
111-44-4	bis(2-Chloroethyl)Ether	370	U	
95-57-8	2-Chlorophenol	370	U	R
541-73-1	1,3-Dichlorobenzene	370	U	
106-46-7	1,4-Dichlorobenzene	370	U	
100-51-6	Benzyl Alcohol	370	U	
95-50-1	1,2-Dichlorobenzene	370	U	
95-48-7	2-Methylphenol	370	U	R
39638-32-9	bis(2-chloroisopropyl)Ether	370	U	
106-44-5	4-Methylphenol	370	U	R
621-64-7	N-Nitroso-Di-n-Propylamine	370	U	
67-72-1	Hexachloroethane	370	U	
98-95-3	Nitrobenzene	370	U	
78-59-1	Isophorone	370	U	
88-75-5	2-Nitrophenol	370	U	R
105-67-9	2,4-Dimethylphenol	370	U	R
65-85-0	Benzoic Acid	370	U	R
111-91-1	bis(2-Chloroethoxy)Methane	370	U	
120-83-2	2,4-Dichlorophenol	370	U	R
120-82-1	1,2,4-Trichlorobenzene	370	U	
91-20-3	Naphthalene	370	U	
106-47-8	4-Chloroaniline	370	U	
87-68-3	Hexachlorobutadiene	370	U	
59-50-7	4-Chloro-3-Methylphenol	370	U	R
91-57-6	2-Methylnaphthalene	370	U	
77-47-4	Hexachlorocyclopentadiene	370	U	
88-06-2	2,4,6-Trichlorophenol	370	U	R
95-95-4	2,4,5-Trichlorophenol	1900	U	R
91-58-7	2-Chloronaphthalene	370	U	R
88-74-4	2-Nitroaniline	1900	U	
131-11-3	Dimethyl Phthalate	370	U	
208-96-8	Acenaphthylene	370	U	

CAS#		ug/kg	
83-32-9	Acenaphthene	370	U
51-28-5	2,4-Dinitrophenol	1900	U
100-02-7	4-Nitrophenol	1900	U
132-64-9	Dibenzofuran	370	U
121-14-2	2,4-Dinitrotoluene	370	U
606-20-2	2,6-Dinitrotoluene	370	U
84-66-2	Diethylphthalate	370	U
7005-72-3	4-Chlorophenyl-phenylether	370	U
86-73-7	Fluorene	370	U
100-01-6	4-Nitroaniline	1900	U
534-52-1	4,6-Dinitro-2-Methylphenol	1900	U
86-30-6	N-Nitrosodiphenylamine(1)	370	U
101-55-3	4-Bromophenyl-phenylether	370	U
118-74-1	Hexachlorobenzene	370	U
87-86-5	Pentachlorophenol	1900	U
85-01-8	Phenanthrene	370	
120-12-7	Anthracene	370	
84-74-2	Di-n-Butylphthalate	3200	
206-44-0	Fluoranthene	370	U
129-00-0	Pyrene	370	U
85-68-7	Butylbenzylphthalate	370	U
91-94-1	3,3'-Dichlorobenzidine	740	U
56-55-3	Benzo(a)Anthracene	370	U
117-81-7	bis(2-Ethylhexyl)Phthalate	370	U
218-01-9	Chrysene	370	U
117-84-0	Di-n-Octyl Phthalate	370	U
205-99-2	Benzo(b)Fluoranthene	370	U
207-08-9	Benzo(k)Fluoranthene	370	U
50-32-8	Benzo(a)Pyrene	370	U
193-39-5	Indeno(1,2,3-cd)Pyrene	370	U
53-70-3	Dibenzo(a,h)Anthracene	370	U
191-24-2	Benzo(g,h,i)Perylene	370	U
99-09-2	3-Nitroaniline	1900	U

(1) Cannot be separated from diphenylamine

Client: CENTURY LABORATORIES
Job Number: 75632
Sample ID: S-W-38-7

United States Testing Company, Inc.
Organics Analysis Data Sheet

Semivolatile Compounds

Concentration: LOW
Date Extracted/Prepared: 11-2-87
Date Analyzed: 11-13-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): 16

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/kg		CAS#		ug/kg	
108-95-2	Phenol	400	U	83-32-9	Acenaphthene	400	U
111-44-4	bis(2-Chloroethyl)Ether	400	U	51-28-5	2,4-Dinitrophenol	2000	U
95-57-8	2-Chlorophenol	400	U	100-02-7	4-Nitrophenol	2000	U
541-73-1	1,3-Dichlorobenzene	400	U	132-64-9	Dibenzofuran	400	U
106-46-7	1,4-Dichlorobenzene	400	U	121-14-2	2,4-Dinitrotoluene	400	U
100-51-6	Benzyl Alcohol	400	U	606-20-2	2,6-Dinitrotoluene	400	U
95-50-1	1,2-Dichlorobenzene	400	U	84-66-2	Diethylphthalate	400	U
95-48-7	2-Methylphenol	400	U	7005-72-3	4-Chlorophenyl-phenylether	400	U
39638-32-9	bis(2-chloroisopropyl)Ether	400	U	86-73-7	Fluorene	400	U
106-44-5	4-Methylphenol	400	U	100-01-6	4-Nitroaniline	2000	U
621-64-7	N-Nitroso-Di-n-Propylamine	400	U	534-52-1	4,6-Dinitro-2-Methylphenol	2000	U
67-72-1	Hexachloroethane	400	U	86-30-6	N-Nitrosodiphenylamine(1)	400	U
98-95-3	Nitrobenzene	400	U	101-55-3	4-Bromophenyl-phenylether	400	U
78-59-1	Isophorone	400	U	118-74-1	Hexachlorobenzene	400	U
88-75-5	2-Nitrophenol	400	U	87-86-5	Pentachlorophenol	2000	U
105-67-9	2,4-Dimethylphenol	400	U	85-01-8	Phenanthrene	400	U
65-85-0	Benzoic Acid	400	U	120-12-7	Anthracene	400	U
111-91-1	bis(2-Chloroethoxy)Methane	400	U	84-74-2	Di-n-Butylphthalate	3700	B
120-83-2	2,4-Dichlorophenol	400	U	206-44-0	Fluoranthene	400	U
120-82-1	1,2,4-Trichlorobenzene	400	U	129-00-0	Pyrene	400	U
91-20-3	Naphthalene	400	U	85-68-7	Butylbenzylphthalate	910	
106-47-8	4-Chloroaniline	400	U	91-94-1	3,3'-Dichlorobenzidine	730	U
87-68-3	Hexachlorobutadiene	400	U	56-55-3	Benzo(a)Anthracene	400	U
59-50-7	4-Chloro-3-Methylphenol	400	U	117-81-7	bis(2-Ethylhexyl)Phthalate	2400	B
91-57-6	2-Methylnaphthalene	400	U	218-01-9	Chrysene	400	U
77-47-4	Hexachlorocyclopentadiene	400	U	117-84-0	Di-n-Octyl Phthalate	40	U
88-06-2	2,4,6-Trichlorophenol	400	U	205-99-2	Benzo(b)Fluoranthene	400	U
95-95-4	2,4,5-Trichlorophenol	2000	U	207-08-9	Benzo(k)Fluoranthene	400	U
91-58-7	2-Chloronaphthalene	400	U	50-32-8	Benzo(a)Pyrene	400	U
88-74-4	2-Nitroaniline	2000	U	193-39-5	Indeno(1,2,3-cd)Pyrene	400	U
131-11-3	Dimethyl Phthalate	400	U	53-70-3	Dibenzo(a,h)Anthracene	400	U
208-96-8	Acenaphthylene	400	U	191-24-2	Benzo(g,h,i)Perylene	400	U
				99-09-2	3-Nitroaniline	2000	U

(1) Cannot be separated from diphenylamine

Client: CENTURY LABORATORIES
Job Number: 75632
Sample ID: S-W-35-8

United States Testing Company, Inc.
Organics Analysis Data Sheet

Semivolatile Compounds

Concentration: Low
Date Extracted/Prepared: 11-2-87
Date Analyzed: 11-13-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): 15

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/kg		CAS#		ug/kg	
108-95-2	Phenol	390	U	83-32-9	Acenaphthene	390	U
111-44-4	bis(2-Chloroethyl)Ether	390	U	51-28-5	2,4-Dinitrophenol	2000	U
95-57-8	2-Chlorophenol	390	U	100-02-7	4-Nitrophenol	2000	U
541-73-1	1,3-Dichlorobenzene	390	U	132-64-9	Dibenzofuran	390	U
106-46-7	1,4-Dichlorobenzene	390	U	121-14-2	2,4-Dinitrotoluene	390	U
100-51-6	Benzyl Alcohol	390	U	606-20-2	2,6-Dinitrotoluene	390	U
95-50-1	1,2-Dichlorobenzene	390	U	84-66-2	Diethylphthalate	390	U
95-48-7	2-Methylphenol	390	U	7005-72-3	4-Chlorophenyl-phenylether	390	U
39638-32-9	bis(2-chloroisopropyl)Ether	390	U	86-73-7	Fluorene	390	U
106-44-5	4-Methylphenol	390	U	100-01-6	4-Nitroaniline	2000	U
621-64-7	N-Nitroso-Di-n-Propylamine	390	U	534-52-1	4,6-Dinitro-2-Methylphenol	2000	U
67-72-1	Hexachloroethane	390	U	86-30-6	N-Nitrosodiphenylamine(1)	390	U
98-95-3	Nitrobenzene	390	U	101-55-3	4-Bromophenyl-phenylether	390	U
78-59-1	Isophorone	390	U	118-74-1	Hexachlorobenzene	390	U
88-75-5	2-Nitrophenol	390	U	87-86-5	Pentachlorophenol	2000	U
105-67-9	2,4-Dimethylphenol	390	U	85-01-8	Phenanthrene	390	U
65-85-0	Benzoic Acid	390	U	120-12-7	Anthracene	390	
111-91-1	bis(2-Chloroethoxy)Methane	390	U	84-74-2	Di-n-Butylphthalate	2400	B
120-83-2	2,4-Dichlorophenol	390	U	206-44-0	Fluoranthene	390	U
120-82-1	1,2,4-Trichlorobenzene	390	U	129-00-0	Pyrene	390	U
91-20-3	Naphthalene	390	U	85-68-7	Butylbenzylphthalate	1200	
106-47-8	4-Chloroaniline	390	U	91-94-1	3,3'-Dichlorobenzidine	780	U
87-68-3	Hexachlorobutadiene	390	U	56-55-3	Benzo(a)Anthracene	390	U
59-50-7	4-Chloro-3-Methylphenol	390	U	117-81-7	bis(2-Ethylhexyl)Phthalate	820	B
91-57-6	2-Methylnaphthalene	390	U	218-01-9	Chrysene	390	U
77-47-4	Hexachlorocyclopentadiene	390	U	117-84-0	Di-n-Octyl Phthalate	39	J
88-06-2	2,4,6-Trichlorophenol	390	U	205-99-2	Benzo(b)Fluoranthene	390	U
95-95-4	2,4,5-Trichlorophenol	2000	U	207-08-9	Benzo(k)Fluoranthene	390	U
91-58-7	2-Chloronaphthalene	390	U	50-32-8	Benzo(a)Pyrene	390	U
88-74-4	2-Nitroaniline	2000	U	193-39-5	Indeno(1,2,3-cd)Pyrene	390	U
131-11-3	Dimethyl Phthalate	390	U	53-70-3	Dibenzo(a,h)Anthracene	390	U
208-96-8	Acenaphthylene	390	U	191-24-2	Benzo(g,h,i)Perylene	390	U
				99-09-2	3-Nitroaniline	2000	U

(1) Cannot be separated from Diphenylamine

Client: CENTURY LABORATORIES
Job Number: 75632
Sample ID: S-W-38-9

United States Testing Company, Inc.
Organics Analysis Data Sheet

Semivolatile Compounds

Concentration: Low
Date Extracted/Prepared: 11-2-87
Date Analyzed: 11-13-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): 17

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/kg		CAS#		ug/kg	
108-95-2	Phenol	400	U	83-32-9	Acenaphthene	400	U
111-44-4	bis(2-Chloroethyl)Ether	400	U	51-28-5	2,4-Dinitrophenol	2000	U
95-57-8	2-Chlorophenol	400	U	100-02-7	4-Nitrophenol	2000	U
541-73-1	1,3-Dichlorobenzene	400	U	132-64-9	Dibenzofuran	400	U
106-46-7	1,4-Dichlorobenzene	400	U	121-14-2	2,4-Dinitrotoluene	400	U
100-51-6	Benzyl Alcohol	400	U	606-20-2	2,6-Dinitrotoluene	400	U
95-50-1	1,2-Dichlorobenzene	400	U	84-66-2	Diethylphthalate	400	U
95-48-7	2-Methylphenol	400	U	7005-72-3	4-Chlorophenyl-phenylether	400	U
39638-32-9	bis(2-chloroisopropyl)Ether	400	U	86-73-7	Fluorene	400	U
106-44-5	4-Methylphenol	400	U	100-01-6	4-Nitroaniline	2000	U
621-64-7	N-Nitroso-Di-n-Propylamine	400	U	534-52-1	4,6-Dinitro-2-Methylphenol	2000	U
67-72-1	Hexachloroethane	400	U	86-30-6	N-Nitrosodiphenylamine(1)	400	U
98-95-3	Nitrobenzene	400	U	101-55-3	4-Bromophenyl-phenylether	400	U
78-59-1	Isophorone	400	U	118-74-1	Hexachlorobenzene	400	U
88-75-5	2-Nitrophenol	400	U	87-86-5	Pentachlorophenol	2000	U
105-67-9	2,4-Dimethylphenol	400	U	85-01-8	Phenanthrene	400	U
65-85-0	Benzoic Acid	400	U	120-12-7	Anthracene	400	U
111-91-1	bis(2-Chloroethoxy)Methane	400	U	84-74-2	Di-n-Butylphthalate	2100	B
120-83-2	2,4-Dichlorophenol	400	U	206-44-0	Fluoranthene	400	U
120-82-1	1,2,4-Trichlorobenzene	400	U	129-00-0	Pyrene	400	U
91-20-3	Naphthalene	400	U	85-68-7	Butylbenzylphthalate	1700	
106-47-8	4-Chloroaniline	400	U	91-94-1	3,3'-Dichlorobenzidine	800	U
87-68-3	Hexachlorobutadiene	400	U	56-55-3	Benzo(a)Anthracene	400	U
59-50-7	4-Chloro-3-Methylphenol	400	U	117-81-7	bis(2-Ethylhexyl)Phthalate	1200	B
91-57-6	2-Methylnaphthalene	400	U	218-01-9	Chrysene	400	U
77-47-4	Hexachlorocyclopentadiene	400	U	117-84-0	Di-n-Octyl Phthalate	400	U
88-06-2	2,4,6-Trichlorophenol	400	U	205-99-2	Benzo(b)Fluoranthene	400	U
95-95-4	2,4,5-Trichlorophenol	2000	U	207-08-9	Benzo(k)Fluoranthene	400	U
91-58-7	2-Chloronaphthalene	400	U	50-32-8	Benzo(a)Pyrene	400	U
88-74-4	2-Nitroaniline	2000	U	193-39-5	Indeno(1,2,3-cd)Pyrene	400	U
131-11-3	Dimethyl Phthalate	400	U	53-70-3	Dibenzo(a,h)Anthracene	400	U
208-96-8	Acenaphthylene	400	U	191-24-2	Benzo(g,h,i)Perylene	400	U
				99-09-2	3-Nitroaniline	2000	U

(1) Cannot be separated from Diphenylamine

Client: CENTURY LABORATORIES
Job Number: 75632
Sample ID: S-W-3R-10

United States Testing Company, Inc.
Organics Analysis Data Sheet

Semivolatile Compounds

Concentration: Low
Date Extracted/Prepared: 11-2-87
Date Analyzed: 11-13-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): 15

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/kg	
108-95-2	Phenol	390	U
111-44-4	bis(2-Chloroethyl)Ether	390	U
95-57-8	2-Chlorophenol	390	U
541-73-1	1,3-Dichlorobenzene	390	U
106-46-7	1,4-Dichlorobenzene	390	U
100-51-6	Benzyl Alcohol	390	U
95-50-1	1,2-Dichlorobenzene	390	U
95-48-7	2-Methylphenol	390	U
39638-32-9	bis(2-chloroisopropyl)Ether	390	U
106-44-5	4-Methylphenol	390	U
621-64-7	N-Nitroso-Di-n-Propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	390	U
65-85-0	Benzoic Acid	390	U
111-91-1	bis(2-Chloroethoxy)Methane	390	U
120-83-2	2,4-Dichlorophenol	390	U
120-82-1	1,2,4-Trichlorobenzene	390	U
91-20-3	Naphthalene	390	U
106-47-8	4-Chloroaniline	390	U
87-68-3	Hexachlorobutadiene	390	U
59-50-7	4-Chloro-3-Methylphenol	390	U
91-57-6	2-Methylnaphthalene	390	U
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	2000	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	2000	U
131-11-3	Dimethyl Phthalate	390	U
208-96-8	Acenaphthylene	390	U

CAS#		ug/kg	
83-32-9	Acenaphthene	390	U
51-28-5	2,4-Dinitrophenol	2000	U
100-02-7	4-Nitrophenol	2000	U
132-64-9	Dibenzofuran	390	U
121-14-2	2,4-Dinitrotoluene	390	U
606-20-2	2,6-Dinitrotoluene	390	U
84-66-2	Diethylphthalate	390	U
7005-72-3	4-Chlorophenyl-phenylether	390	U
86-73-7	Fluorene	390	U
100-01-6	4-Nitroaniline	2000	U
534-52-1	4,6-Dinitro-2-Methylphenol	2000	U
86-30-6	N-Nitrosodiphenylamine(1)	390	U
101-55-3	4-Bromophenyl-phenylether	390	U
118-74-1	Hexachlorobenzene	390	U
87-86-5	Pentachlorophenol	2000	U
85-01-8	Phenanthrene	390	U
120-12-7	Anthracene	390	U
84-74-2	Di-n-Butylphthalate	170	J
206-44-0	Fluoranthene	390	U
129-00-0	Pyrene	390	U
85-68-7	Butylbenzylphthalate	1600	U
91-94-1	3,3'-Dichlorobenzidine	780	U
56-55-3	Benzo(a)Anthracene	390	U
117-81-7	bis(2-Ethylhexyl)Phthalate	1400	J
218-01-9	Chrysene	390	U
117-84-0	Di-n-Octyl Phthalate	39	U
205-99-2	Benzo(b)Fluoranthene	390	U
207-08-9	Benzo(k)Fluoranthene	390	U
50-32-8	Benzo(a)Pyrene	390	U
193-39-5	Indeno(1,2,3-cd)Pyrene	390	U
53-70-3	Dibenzo(a,h)Anthracene	390	U
191-24-2	Benzo(g,h,i)Perylene	390	U
99-09-2	3-Nitroaniline	2000	U

(1) Cannot be separated from Diphenylamine

Client: CENTURY LABORATORIES
Job Number: 75632
Sample ID: S-W-38-11

United States Testing Company, Inc.
Organics Analysis Data Sheet

Semivolatile Compounds

Concentration: Low
Date Extracted/Prepared: 11-2-87
Date Analyzed: 11-13-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): 15

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/kg		CAS#		ug/kg	
108-95-2	Phenol	390	U	83-32-9	Acenaphthene	390	U
111-44-4	Bis(2-Chloroethyl)Ether	390	U	51-28-5	2,4-Dinitrophenol	2000	U
95-57-8	2-Chlorophenol	390	U	100-02-7	4-Nitrophenol	2000	U
541-73-1	1,3-Dichlorobenzene	390	U	132-64-9	Dibenzofuran	390	U
106-46-7	1,4-Dichlorobenzene	390	U	121-14-2	2,4-Dinitrotoluene	390	U
100-51-6	Benzyl Alcohol	390	U	606-20-2	2,6-Dinitrotoluene	390	U
95-50-1	1,2-Dichlorobenzene	390	U	84-66-2	Diethylphthalate	390	U
95-48-7	2-Methylphenol	390	U	7005-72-3	4-Chlorophenyl-phenylether	390	U
39638-32-9	Bis(2-chloroisopropyl)Ether	390	U	86-73-7	Fluorene	390	U
106-44-5	4-Methylphenol	390	U	100-01-6	4-Nitroaniline	2000	U
621-64-7	N-Nitroso-Di-n-Propylamine	390	U	534-52-1	4,6-Dinitro-2-Methylphenol	2000	U
67-72-1	Hexachloroethane	390	U	86-30-6	N-Nitrosodiphenylamine(1)	390	U
98-95-3	Nitrobenzene	390	U	101-55-3	4-Bromophenyl-phenylether	390	U
78-59-1	Isophorone	390	U	118-74-1	Hexachlorobenzene	390	U
88-75-5	2-Nitrophenol	390	U	87-86-5	Pentachlorophenol	2000	U
105-67-9	2,4-Dimethylphenol	390	U	85-01-8	Phenanthrene	390	U
65-85-0	Benzoic Acid	390	U	120-12-7	Anthracene	390	U
111-91-1	Bis(2-Chloroethoxy)Methane	390	U	84-74-2	Di-n-Butylphthalate	1100	J
120-83-2	2,4-Dichlorophenol	390	U	206-44-0	Fluoranthene	390	U
120-82-1	1,2,4-Trichlorobenzene	390	U	129-00-0	Pyrene	390	U
91-20-3	Naphthalene	390	U	85-68-7	Butylbenzylphthalate	390	U
106-47-8	4-Chloroaniline	390	U	91-94-1	3,3'-Dichlorobenzidine	780	U
87-68-3	Hexachlorobutadiene	390	U	56-55-3	Benzo(a)Anthracene	390	U
59-50-7	4-Chloro-3-Methylphenol	390	U	117-81-7	Bis(2-Ethylhexyl)Phthalate	1400	J
91-57-6	2-Methylnaphthalene	390	U	218-01-9	Chrysene	390	U
77-47-4	Hexachlorocyclopentadiene	390	U	117-84-0	Di-n-Octyl Phthalate	39	J
88-06-2	2,4,6-Trichlorophenol	390	U	205-99-2	Benzo(b)Fluoranthene	390	U
95-95-4	2,4,5-Trichlorophenol	2000	U	207-08-9	Benzo(k)Fluoranthene	390	U
91-58-7	2-Chloronaphthalene	390	U	50-32-8	Benzo(a)Pyrene	390	U
88-74-4	2-Nitroaniline	2000	U	193-39-5	Indeno(1,2,3-cd)Pyrene	390	U
131-11-3	Dimethyl Phthalate	390	U	53-70-3	Dibenzo(a,h)Anthracene	390	U
208-96-8	Acenaphthylene	390	U	191-24-2	Benzo(g,h,i)Perylene	390	U
				99-09-2	3-Nitroaniline	2000	U

(1) Cannot be separated from diphenylamine

Client: CENTURY LABORATORIES
Job Number: 75632
Sample ID: S-W-35-12

United States Testing Company, Inc.
Organics Analysis Data Sheet

Semivolatile Compounds

Concentration: Low
Date Extracted/Prepared: 11-2-87
Date Analyzed: 11-13-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): 18

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/kg		CAS#		ug/kg	
108-95-2	Phenol	410	U	83-32-9	Acenaphthene	410	U
111-44-4	bis(2-Chloroethyl)Ether	410	U	51-28-5	2,4-Dinitrophenol	2000	U
95-57-8	2-Chlorophenol	410	U	100-02-7	4-Nitrophenol	2000	U
541-73-1	1,3-Dichlorobenzene	410	U	132-64-9	Dibenzofuran	410	U
106-46-7	1,4-Dichlorobenzene	410	U	121-14-2	2,4-Dinitrotoluene	410	U
100-51-6	Benzyl Alcohol	410	U	606-20-2	2,6-Dinitrotoluene	410	U
95-50-1	1,2-Dichlorobenzene	410	U	84-66-2	Diethylphthalate	410	U
95-48-7	2-Methylphenol	410	U	7005-72-3	4-Chlorophenyl-phenylether	410	U
39638-32-9	bis(2-chloroisopropyl)Ether	410	U	86-73-7	Fluorene	410	U
106-44-5	4-Methylphenol	410	U	100-01-6	4-Nitroaniline	2000	U
621-64-7	N-Nitroso-Di-n-Propylamine	410	U	534-52-1	4,6-Dinitro-2-Methylphenol	2000	U
67-72-1	Hexachloroethane	410	U	86-30-6	N-Nitrosodiphenylamine(1)	410	U
98-95-3	Nitrobenzene	410	U	101-55-3	4-Bromophenyl-phenylether	410	U
78-59-1	Isophorone	410	U	118-74-1	Hexachlorobenzene	410	U
88-75-5	2-Nitrophenol	410	U	87-86-5	Pentachlorophenol	2000	U
105-67-9	2,4-Dimethylphenol	410	U	85-01-8	Phenanthrene	410	U
65-85-0	Benzoic Acid	410	U	120-12-7	Anthracene	410	U
111-91-1	bis(2-Chloroethoxy)Methane	410	U	84-74-2	Di-n-Butylphthalate	2300	B
120-83-2	2,4-Dichlorophenol	410	U	206-44-0	Fluoranthene	410	U
120-82-1	1,2,4-Trichlorobenzene	410	U	129-00-0	Pyrene	410	U
91-20-3	Naphthalene	410	U	85-68-7	Butylbenzylphthalate	410	U
106-47-8	4-Chloroaniline	410	U	91-94-1	3,3'-Dichlorobenzidine	810	U
87-68-3	Hexachlorobutadiene	410	U	56-55-3	Benzo(a)Anthracene	410	U
59-50-7	4-Chloro-3-Methylphenol	410	U	117-81-7	bis(2-Ethylhexyl)Phthalate	770	B
91-57-6	2-Methylnaphthalene	410	U	218-01-9	Chrysene	410	U
77-47-4	Hexachlorocyclopentadiene	410	U	117-84-0	Di-n-Octyl Phthalate	410	U
88-06-2	2,4,6-Trichlorophenol	410	U	205-99-2	Benzo(b)Fluoranthene	410	U
95-95-4	2,4,5-Trichlorophenol	2000	U	207-08-9	Benzo(k)Fluoranthene	410	U
91-58-7	2-Chloronaphthalene	410	U	50-32-8	Benzo(a)Pyrene	410	U
88-74-4	2-Nitroaniline	2000	U	193-39-5	Indeno(1,2,3-cd)Pyrene	410	U
131-11-3	Dimethyl Phthalate	410	U	53-70-3	Dibenzo(a,h)Anthracene	410	U
208-96-8	Acenaphthylene	410	U	191-24-2	Benzo(g,h,i)Perylene	410	U
				99-09-2	3-Nitroaniline	2000	U

(1) Cannot be separated from Diphenylamine

Client: CENTURY LABORATORIES
Job Number: 75598
Sample ID: S-B-2-1 (75598-4)

United States Testing Company, Inc.
Organics Analysis Data Sheet

Semivolatile Compounds

Concentration: Low
Date Extracted/Prepared: 10-20-87
Date Analyzed: 10-29-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): 9

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/kg		CAS#		ug/kg	
108-95-2	Phenol	370	U	83-32-9	Acenaphthene	370	U
111-44-4	bis(2-Chloroethyl)Ether	370	U	51-28-5	2,4-Dinitrophenol	1800	U
95-57-8	2-Chlorophenol	370	U	100-02-7	4-Nitrophenol	1800	U
541-73-1	1,3-Dichlorobenzene	370	U	132-64-9	Dibenzofuran	370	U
106-46-7	1,4-Dichlorobenzene	370	U	121-14-2	2,4-Dinitrotoluene	370	U
100-51-6	Benzyl Alcohol	370	U	606-20-2	2,6-Dinitrotoluene	370	U
95-50-1	1,2-Dichlorobenzene	370	U	84-66-2	Diethylphthalate	370	U
95-48-7	2-Methylphenol	370	U	7005-72-3	4-Chlorophenyl-phenylether	370	U
39638-32-9	bis(2-chloroisopropyl)Ether	370	U	86-73-7	Fluorene	370	U
106-44-5	4-Methylphenol	370	U	100-01-6	4-Nitroaniline	1800	U
621-64-7	N-Nitroso-Di-n-Propylamine	370	U	534-52-1	4,6-Dinitro-2-Methylphenol	1800	U
67-72-1	Hexachloroethane	370	U	86-30-6	N-Nitrosodiphenylamine(1)	370	U
98-95-3	Nitrobenzene	370	U	101-55-3	4-Bromophenyl-phenlyether	370	U
78-59-1	Isophorone	370	U	118-74-1	Hexachlorobenzene	370	U
88-75-5	2-Nitrophenol	370	U	87-86-5	Pentachlorophenol	1800	U
105-67-9	2,4-Dimethylphenol	370	U	85-01-8	Phenanthrene	370	U
65-85-0	Benzoic Acid	370	U	120-12-7	Anthracene	11000	
111-91-1	bis(2-Chloroethoxy)Methane	370	U	84-74-2	Di-n-Butylphthalate	3600	
120-83-2	2,4-Dichlorophenol	370	U	206-44-0	Fluoranthene	11000	
120-82-1	1,2,4-Trichlorobenzene	370	U	129-00-0	Pyrene	480	
91-20-3	Naphthalene	370	U	85-68-7	Butylbenzylphthalate	370	U
106-47-8	4-Chloroaniline	370	U	91-94-1	3,3'-Dichlorobenzidine	730	U
87-68-3	Hexachlorobutadiene	370	U	56-55-3	Benzo(a)Anthracene	370	U
59-50-7	4-Chloro-3-Methylphenol	370	U	117-81-7	bis(2-Ethylhexyl)Phthalate	370	U
91-57-6	2-Methylnaphthalene	370	U	218-01-9	Chrysene	370	U
77-47-4	Hexachlorocyclopentadiene	370	U	117-84-0	Di-n-Octyl Phthalate	370	U
88-06-2	2,4,6-Trichlorophenol	370	U	205-99-2	Benzo(b)Fluoranthene	370	U
95-95-4	2,4,5-Trichlorophenol	1800	U	207-08-9	Benzo(k)Fluoranthene	370	U
91-58-7	2-Chloronaphthalene	370	U	50-32-8	Benzo(a)Pyrene	370	U
88-74-4	2-Nitroaniline	1800	U	193-39-5	Indeno(1,2,3-cd)Pyrene	370	U
131-11-3	Dimethyl Phthalate	370	U	53-70-3	Dibenzo(a,h)Anthracene	370	U
208-96-8	Acenaphthylene	370	U	191-24-2	Benzo(g,h,i)Perylene	370	U
				99-09-2	3-Nitroaniline	1800	U

(1) Cannot be separated from diphenylamine

Client: CENTURY LABORATORIES
Job Number: 75598
Sample ID: S-6-2-5 (75598-6)

United States Testing Company, Inc.
Organics Analysis Data Sheet

Semivolatile Compounds

Concentration: Low
Date Extracted/Prepared: 10-20-87
Date Analyzed: 10-29-87
Conc/Dil Factor: 1
Percent moisture (Decanted): 13

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/kg	
108-95-2	Phenol	380	U
111-44-4	bis(2-Chloroethyl)Ether	380	U
95-57-8	2-Chlorophenol	380	U
541-73-1	1,3-Dichlorobenzene	380	U
106-46-7	1,4-Dichlorobenzene	380	U
100-51-6	Benzyl Alcohol	380	U
95-50-1	1,2-Dichlorobenzene	380	U
95-48-7	2-Methylphenol	380	U
39638-32-9	bis(2-Chloroisopropyl)Ether	380	U
106-44-5	4-Methylphenol	380	U
621-64-7	N-Nitroso-Di-n-Propylamine	380	U
67-72-1	Hexachloroethane	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	380	U
105-67-9	2,4-Dimethylphenol	380	U
65-85-0	Benzoic Acid	380	U
111-91-1	bis(2-Chloroethoxy)Methane	380	U
120-83-2	2,4-Dichlorophenol	380	U
120-82-1	1,2,4-Trichlorobenzene	380	U
91-20-3	Naphthalene	380	U
106-47-8	4-Chloroaniline	380	U
87-68-3	Hexachlorobutadiene	380	U
59-50-7	4-Chloro-3-Methylphenol	380	U
91-57-6	2-Methylnaphthalene	380	U
77-47-4	Hexachlorocyclopentadiene	380	U
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorophenol	1900	U
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	1900	U
131-11-3	Dimethyl Phthalate	380	U
208-96-8	Acenaphthylene	380	U

CAS#		ug/kg	
83-32-9	Acenaphthene	380	U
51-28-5	2,4-Dinitrophenol	1900	U
100-02-7	4-Nitrophenol	1900	U
132-64-9	Dibenzofuran	380	U
121-14-2	2,4-Dinitrotoluene	380	U
606-20-2	2,6-Dinitrotoluene	380	U
84-66-2	Diethylphthalate	380	U
7005-72-3	4-Chlorophenyl-phenylether	380	U
86-73-7	Fluorene	380	U
100-01-6	4-Nitroaniline	1900	U
534-52-1	4,6-Dinitro-2-Methylphenol	1900	U
86-30-6	N-Nitrosodiphenylamine(1)	380	U
101-55-3	4-Bromophenyl-phenylether	380	U
118-74-1	Hexachlorobenzene	380	U
87-86-5	Pentachlorophenol	1900	U
85-01-8	Phenanthrene	380	U
120-12-7	Anthracene	380	U
84-74-2	Di-n-Butylphthalate	150	J
206-44-0	Fluoranthene	380	U
129-00-0	Pyrene	380	U
85-68-7	Butylbenzylphthalate	380	U
91-94-1	3,3'-Dichlorobenzidine	770	U
56-55-3	Benzo(a)Anthracene	380	U
117-81-7	bis(2-Ethylhexyl)Phthalate	380	U
218-01-9	Chrysene	380	U
117-84-0	Di-n-Octyl Phthalate	380	U
205-99-2	Benzo(b)Fluoranthene	380	U
207-08-9	Benzo(k)Fluoranthene	380	U
50-32-8	Benzo(a)Pyrene	380	U
193-39-5	Indeno(1,2,3-cd)Pyrene	380	U
53-70-3	Dibenz(a,h)Anthracene	380	U
191-24-2	Benzo(g,h,i)Perylene	380	U
99-09-2	3-Nitroaniline	1900	U

(1) Cannot be separated from diphenylamine

Client: CENTURY LABORATORIES
Job Number: 75598
Sample ID: S-6-2-6 (75598-1)

United States Testing Company, Inc.
Organics Analysis Data Sheet

Semivolatile Compounds

Concentration: Low
Date Extracted/Prepared: 10-20-87
Date Analyzed: 10-23-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): 14

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/kg	
108-95-2	Phenol	330	U
111-44-4	bis(2-Chloroethyl)Ether	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
100-51-6	Benzyl Alcohol	330	U
95-50-1	1,2-Dichlorobenzene	330	U
95-48-7	2-Methylphenol	330	U
39638-32-9	bis(2-Chloroisopropyl)Ether	330	U
106-44-5	4-Methylphenol	330	U
621-64-7	N-Nitroso-Di-n-Propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
65-85-0	Benzoic Acid	330	U
111-91-1	bis(2-Chloroethoxy)Methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-Methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	1600	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	1600	U
131-11-3	Dimethyl Phthalate	330	U
208-96-8	Acenaphthylene	330	U

CAS#		ug/kg	
83-32-9	Acenaphthene	330	U
51-28-5	2,4-Dinitrophenol	1600	U
100-02-7	4-Nitrophenol	1600	U
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
86-73-7	Fluorene	330	U
100-01-6	4-Nitroaniline	1600	U
534-52-1	4,6-Dinitro-2-Methylphenol	1600	U
86-30-6	N-Nitrosodiphenylamine(1)	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	1600	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
84-74-2	Di-n-Butylphthalate	330	U
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	780	U
56-55-3	Benzo(a)Anthracene	330	U
117-81-7	bis(2-Ethylhexyl)Phthalate	330	U
218-01-9	Chrysene	330	U
117-84-0	Di-n-Octyl Phthalate	330	U
205-99-2	Benzo(b)Fluoranthene	330	U
207-08-9	Benzo(k)Fluoranthene	330	U
50-32-8	Benzo(a)Pyrene	330	U
193-39-5	Indeno(1,2,3-cd)Pyrene	330	U
53-70-3	Dibenzo(a,h)Anthracene	330	U
191-24-2	Benzo(g,h,i)Perylene	330	U
99-09-2	3-Nitroaniline	1600	U

(1) Cannot be separated from diphenylamine

Client: CENTURY LABORATORIES
Job Number: 75598
Sample ID: 3-B-2-7 (75595-2)

United States Testing Company, Inc.
Organics Analysis Data Sheet

Semivolatile Compounds

Concentration: Low
Date Extracted/Prepared: 10-20-87
Date Analyzed: 10-29-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): 11

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/kg	
108-95-2	Phenol	370	U
111-44-4	bis(2-Chloroethyl)Ether	370	U
95-57-8	2-Chlorophenol	370	U
541-73-1	1,3-Dichlorobenzene	370	U
106-46-7	1,4-Dichlorobenzene	370	U
100-51-6	Benzyl Alcohol	370	U
95-50-1	1,2-Dichlorobenzene	370	U
95-48-7	2-Methylphenol	370	U
39638-32-9	bis(2-Chloroisopropyl)Ether	370	U
106-44-5	4-Methylphenol	370	U
621-64-7	N-Nitroso-Di-n-Propylamine	370	U
67-72-1	Hexachloroethane	370	U
98-95-3	Nitrobenzene	370	U
78-59-1	Isophorone	370	U
88-75-5	2-Nitrophenol	370	U
105-67-9	2,4-Dimethylphenol	370	U
65-85-0	Benzoic Acid	370	U
111-91-1	bis(2-Chloroethoxy)Methane	370	U
120-83-2	2,4-Dichlorophenol	370	U
120-82-1	1,2,4-Trichlorobenzene	370	U
91-20-3	Naphthalene	370	U
106-47-8	4-Chloroaniline	370	U
87-68-3	Hexachlorobutadiene	370	U
59-50-7	4-Chloro-3-Methylphenol	370	U
91-57-6	2-Methylnaphthalene	370	U
77-47-4	Hexachlorocyclopentadiene	370	U
88-06-2	2,4,6-Trichlorophenol	370	U
95-95-4	2,4,5-Trichlorophenol	1900	U
91-58-7	2-Chloronaphthalene	370	U
88-74-4	2-Nitroaniline	1900	U
131-11-3	Dimethyl Phthalate	370	U
208-96-8	Acenaphthylene	370	U

CAS#		ug/kg	
83-32-9	Acenaphthene	370	U
51-28-5	2,4-Dinitrophenol	1900	U
100-02-7	4-Nitrophenol	1900	U
132-64-9	Dibenzofuran	370	U
121-14-2	2,4-Dinitrotoluene	370	U
606-20-2	2,6-Dinitrotoluene	370	U
84-66-2	Diethylphthalate	370	U
7005-72-3	4-Chlorophenyl-phenylether	370	U
86-73-7	Fluorene	370	U
100-01-6	4-Nitroaniline	1900	U
534-52-1	4,6-Dinitro-2-Methylphenol	1900	U
86-30-6	N-Nitrosodiphenylamine(1)	370	U
101-55-3	4-Bromophenyl-phenylether	370	U
118-74-1	Hexachlorobenzene	370	U
87-86-5	Pentachlorophenol	1900	U
85-01-8	Phenanthrene	370	U
120-12-7	Anthracene	370	U
84-74-2	Di-n-Butylphthalate	150	J
206-44-0	Fluoranthene	370	U
129-00-0	Pyrene	370	U
85-68-7	Butylbenzylphthalate	370	U
91-94-1	3,3'-Dichlorobenzidine	750	U
56-55-3	Benzo(a)Anthracene	370	U
117-81-7	bis(2-Ethylhexyl)Phthalate	540	
218-01-9	Chrysene	370	U
117-84-0	Di-n-Octyl Phthalate	370	U
205-99-2	Benzo(b)Fluoranthene	370	U
207-08-9	Benzo(k)Fluoranthene	370	U
50-32-8	Benzo(a)Pyrene	370	U
193-39-5	Indeno(1,2,3-cd)Pyrene	370	U
53-70-3	Dibenzo(a,h)Anthracene	370	U
191-24-2	Benzo(g,h,i)Perylene	370	U
99-09-2	3-Nitroaniline	1900	U

(1) Cannot be separated from diphenylamine

Client: CENTURY LABORATORIES
Job Number: 75598
Sample ID: S-E-2-8 (75598-3)

United States Testing Company, Inc.
Organics Analysis Data Sheet

Semivolatile Compounds

Concentration: Low
Date Extracted/Prepared: 10-20-87
Date Analyzed: 10-23-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): 10

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/kg	
108-95-2	Phenol	370	U
111-44-4	bis(2-Chloroethyl)Ether	370	U
95-57-8	2-Chlorophenol	370	U
541-73-1	1,3-Dichlorobenzene	370	U
106-46-7	1,4-Dichlorobenzene	370	U
100-51-6	Benzyl Alcohol	370	U
95-50-1	1,2-Dichlorobenzene	370	U
95-48-7	2-Methylphenol	370	U
39638-32-9	bis(2-Chloroisopropyl)Ether	370	U
106-44-5	4-Methylphenol	370	U
621-64-7	N-Nitroso-Di-n-Propylamine	370	U
67-72-1	Hexachloroethane	370	U
98-95-3	Nitrobenzene	370	U
78-59-1	Isophorone	370	U
88-75-5	2-Nitrophenol	370	U
105-67-9	2,4-Dimethylphenol	370	U
65-85-0	Benzoic Acid	370	U
111-91-1	bis(2-Chloroethoxy)Methane	370	U
120-83-2	2,4-Dichlorophenol	370	U
120-82-1	1,2,4-Trichlorobenzene	370	U
91-20-3	Naphthalene	370	U
106-47-8	4-Chloroaniline	370	U
87-68-3	Hexachlorobutadiene	370	U
59-50-7	4-Chloro-3-Methylphenol	370	U
91-57-6	2-Methylnaphthalene	370	U
77-47-4	Hexachlorocyclopentadiene	370	U
88-06-2	2,4,6-Trichlorophenol	370	U
95-95-4	2,4,5-Trichlorophenol	1900	U
91-58-7	2-Chloronaphthalene	370	U
88-74-4	2-Nitroaniline	1900	U
131-11-3	Dimethyl Phthalate	370	U
208-96-8	Acenaphthylene	370	U

CAS#		ug/kg	
83-32-9	Acenaphthene	370	U
51-28-5	2,4-Dinitrophenol	1900	U
100-02-7	4-Nitrophenol	1900	U
132-64-9	Dibenzofuran	370	U
121-14-2	2,4-Dinitrotoluene	370	U
606-20-2	2,6-Dinitrotoluene	370	U
84-66-2	Diethylphthalate	370	U
7005-72-3	4-Chlorophenyl-phenylether	370	U
86-73-7	Fluorene	370	U
100-01-6	4-Nitroaniline	1900	U
534-52-1	4,6-Dinitro-2-Methylphenol	1900	U
86-30-6	N-Nitrosodiphenylamine(1)	370	U
101-55-3	4-Bromophenyl-phenylether	370	U
118-74-1	Hexachlorobenzene	370	U
87-86-5	Pentachlorophenol	1900	U
85-01-8	Phenanthrene	370	U
120-12-7	Anthracene	370	U
84-74-2	Di-n-Butylphthalate	150	J
206-44-0	Fluoranthene	370	U
129-00-0	Pyrene	370	U
85-68-7	Butylbenzylphthalate	370	U
91-94-1	3,3'-Dichlorobenzidine	740	U
56-55-3	Benzo(a)Anthracene	370	U
117-81-7	bis(2-Ethylhexyl)Phthalate	330	J
218-01-9	Chrysene	370	U
117-84-0	Di-n-Octyl Phthalate	370	U
205-99-2	Benzo(b)Fluoranthene	370	U
207-08-9	Benzo(k)Fluoranthene	370	U
50-32-8	Benzo(a)Pyrene	370	U
193-39-5	Indeno(1,2,3-cd)Pyrene	370	U
53-70-3	Dibenz(a,h)Anthracene	370	U
191-24-2	Benzo(g,h,i)Perylene	370	U
99-09-2	3-Nitroaniline	1900	U

(1) Cannot be separated from diphenylamine

Client: CENTURY LABORATORIES
Job Number: 75598
Sample ID: S-E-2-1

Organics Analysis Data Sheet

Pesticide/PCBs

Concentration: Low
Date Extracted/Prepared: 10-20-87
Date Analyzed: 11-7-87
Conc/Dil Factor: 10
Percent Moisture (Decanted): 9

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/kg	
319-84-6	Alpha-BHC	37	U
319-85-7	Beta-BHC	37	U
319-86-8	Delta-BHC	37	U
58-89-9	Gamma-BHC (Lindane)	37	U
76-44-8	Heptachlor	37	U
309-00-2	Aldrin	37	U
1024-57-3	Heptachlor Epoxide	37	U
959-98-8	Endosulfan I	37	U
60-57-1	Dieldrin	73	U
72-55-9	4,4'-DDE	73	U
72-20-8	Endrin	73	U
33213-65-9	Endosulfan II	73	U
72-54-8	4,4'-DDD	73	U
1031-07-8	Endosulfan Sulfate	73	U
50-29-3	4,4'-DDT	73	U
72-43-5	Methoxychlor	370	U
53494-70-5	Endrin Ketone	73	U
57-74-9	Chlordane	370	U
8001-35-2	Toxaphene	370	U
12674-11-2	Aroclor-1016	370	U
11104-28-2	Aroclor-1221	370	U
11141-16-5	Aroclor-1232	370	U
53469-21-9	Aroclor-1242	370	U
12672-29-6	Aroclor-1248	370	U
11097-69-1	Aroclor-1254	730	U
11096-82-5	Aroclor-1260	730	U

Vi = Volume of extract injected (ul)
Vs = Volume of water extracted (ml)
Ws = Weight of sample extracted (g)
Vt = Volume of total extract (ul)

Vs: or Ws: 30 Vt: 20 Vi: 4

Client: CENTURY LABORATORIES
Job Number: 73598
Sample ID: S-B-2-5

Organics Analysis Data Sheet

Pesticide/PCBs

Concentration: Low
Date Extracted/Prepared: 10-20-87
Date Analyzed: 11-7-87
Conc/Dil Factor: 10
Percent Moisture (Decanted): 13

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/kg	
319-84-6	Alpha-BHC	38	U
319-85-7	Beta-BHC	38	U
319-86-8	Delta-BHC	38	U
58-89-9	Gamma-BHC (Lindane)	38	U
76-44-8	Heptachlor	38	U
309-00-2	Aldrin	38	U
1024-57-3	Heptachlor Epoxide	38	U
959-98-8	Endosulfan I	38	U
60-57-1	Dieldrin	77	U
72-55-9	4,4'-DDE	77	U
72-20-8	Endrin	77	U
33213-65-9	Endosulfan II	77	U
72-54-8	4,4'-DDD	77	U
1031-07-8	Endosulfan Sulfate	77	U
50-29-3	4,4'-DDT	77	U
72-43-5	Methoxychlor	380	U
53494-70-5	Endrin Ketone	77	U
57-74-9	Chlordane	380	U
8001-35-2	Toxaphene	380	U
12674-11-2	Aroclor-1016	380	U
11104-28-2	Aroclor-1221	380	U
11141-16-5	Aroclor-1232	380	U
53469-21-9	Aroclor-1242	380	U
12672-29-6	Aroclor-1248	380	U
11097-69-1	Aroclor-1254	770	U
11096-82-5	Aroclor-1260	770	U

Vi = Volume of extract injected (ul)
Vs = Volume of water extracted (ml)
Ws = Weight of sample extracted (g)
Vt = Volume of total extract (ul)

Vs: or Ws: 30 Vt: 20 Vi: 4

Client: CENTURY LABORATORIES
Job Number: 75598
Sample ID: S-E-2-6

Organics Analysis Data Sheet

Pesticide/PCBs

Concentration: Low
Date Extracted/Prepared: 10-20-87
Date Analyzed: 11-7-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): 14

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/kg	
319-84-6	Alpha-BHC	3.9	U
319-85-7	Beta-BHC	3.9	U
319-86-8	Delta-BHC	3.9	U
58-89-9	Gamma-BHC (Lindane)	.78	J
76-44-8	Heptachlor	8.5	
309-00-2	Aldrin	3.9	U
1024-57-3	Heptachlor Epoxide	3.9	U
959-98-8	Endosulfan I	3.9	U
60-57-1	Dieldrin	7.8	U
72-55-9	4,4'-DDE	7.8	U
72-20-8	Endrin	7.8	U
33213-65-9	Endosulfan II	7.8	U
72-54-8	4,4'-DDD	7.8	U
1031-07-8	Endosulfan Sulfate	7.8	U
50-29-3	4,4'-DDT	7.8	U
72-43-5	Methoxychlor	39	U
53494-70-5	Endrin Ketone	7.8	U
57-74-9	Chlordane	39	U
8001-35-2	Toxaphene	39	U
12674-11-2	Aroclor-1016	39	U
11104-28-2	Aroclor-1221	39	U
11141-16-5	Aroclor-1232	39	U
53469-21-9	Aroclor-1242	39	U
12672-29-6	Aroclor-1248	39	U
11097-69-1	Aroclor-1254	78	U
11096-82-5	Aroclor-1260	78	U

vi = volume of extract injected (ul)
vs = volume of water extracted (ml)
ws = weight of sample extracted (g)
vt = volume of total extract (ul)

vs: or ws: 30 vt: 10 vi: 4

Client: CENTURY LABORATORIES
Job Number: 75596
Sample ID: S-B-2-7

Organics Analysis Data Sheet

Pesticide/PCBs

Concentration: Low
Date Extracted/Prepared: 10-20-87
Date Analyzed: 11-7-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): 11

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/kg	
319-84-6	Alpha-BHC	3.7	U
319-85-7	Beta-BHC	3.7	U
319-86-8	Delta-BHC	3.7	U
58-89-9	Gamma-BHC (Lindane)	3.7	U
76-44-8	Heptachlor	3.7	U
309-00-2	Aldrin	3.7	U
1024-57-3	Heptachlor Epoxide	3.7	U
959-98-8	Endosulfan I	3.7	U
60-57-1	Dieldrin	7.5	U
72-55-9	4,4'-DDE	7.5	U
72-20-8	Endrin	7.5	U
33213-65-9	Endosulfan II	7.5	U
72-54-8	4,4'-DDD	7.5	U
1031-07-8	Endosulfan Sulfate	7.5	U
50-29-3	4,4'-DDT	7.5	U
72-43-5	Methoxychlor	37	U
53494-70-5	Endrin Ketone	7.5	U
57-74-9	Chlordane	37	U
8001-35-2	Toxaphene	37	U
12674-11-2	Aroclor-1016	37	U
11104-28-2	Aroclor-1221	37	U
11141-16-5	Aroclor-1232	37	U
53469-21-9	Aroclor-1242	37	U
12672-29-6	Aroclor-1248	37	U
11097-69-1	Aroclor-1254	75	U
11096-82-5	Aroclor-1260	75	U

Vi = volume of extract injected (ul)
Vs = volume of water extracted (ml)
Ws = weight of sample extracted (g)
Vt = volume of total extract (ul)

Vs: or Ws: Vt: Vi: -

Client: CENTURY LABORATORIES
Job Number: 75598
Sample ID: S-6-2-6

Organics Analysis Data Sheet

Pesticide/PCBs

Concentration: Low
Date Extracted/Prepared: 10-20-87
Date Analyzed: 11-7-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): 10

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/kg	
319-84-6	Alpha-BHC	3.7	U
319-85-7	Beta-BHC	3.7	U
319-86-8	Delta-BHC	3.7	U
58-89-9	Gamma-BHC (Lindane)	3.7	U
76-44-8	Heptachlor	3.7	U
309-00-2	Aldrin	3.7	U
1024-57-3	Heptachlor Epoxide	3.7	U
959-98-8	Endosulfan I	3.7	U
60-57-1	Dieldrin	7.4	U
72-55-9	4,4'-DDE	7.4	U
72-20-8	Endrin	7.4	U
33213-65-9	Endosulfan II	7.4	U
72-54-8	4,4'-DDD	7.4	U
1031-07-8	Endosulfan Sulfate	7.4	U
50-29-3	4,4'-DDT	7.4	U
72-43-5	Methoxychlor	37	U
53494-70-5	Endrin Ketone	7.4	U
57-74-9	Chlordane	37	U
8001-35-2	Toxaphene	37	U
12674-11-2	Aroclor-1016	37	U
11104-28-2	Aroclor-1221	37	U
11141-16-5	Aroclor-1232	37	U
53469-21-9	Aroclor-1242	37	U
12672-29-6	Aroclor-1248	37	U
11097-69-1	Aroclor-1254	74	U
11096-82-5	Aroclor-1260	74	U

Vi = Volume of extract injected (ul)
Vs = Volume of water extracted (ml)
Ws = Weight of sample extracted (g)
Vt = Volume of total extract (ul)

Vs: Df Ws: 30 Vt: 50 Vi: 4

Client: CENTURY LABORATORIES
Job Number: 75621
Sample ID: S-W-3E-1

Organics Analysis Data Sheet

Pesticide/PCBs

Concentration: Low
Date Extracted/Prepared: 10-31-87
Date Analyzed: 11-6-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): 11

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/kg	
319-84-6	Alpha-BHC	3.7	U
319-85-7	Beta-BHC	3.7	U
319-86-8	Delta-BHC	3.7	U
58-89-9	Gamma-BHC (Lindane)	3.7	U
76-44-8	Heptachlor	3.7	U
309-00-2	Aldrin	3.7	U
1024-57-3	Heptachlor Epoxide	3.7	U
959-98-8	Endosulfan I	3.7	U
60-57-1	Dieldrin	7.5	U
72-55-9	4,4'-DDE	7.5	U
72-20-8	Endrin	7.5	U
33213-65-9	Endosulfan II	7.5	U
72-54-8	4,4'-DDD	7.5	U
1031-07-8	Endosulfan Sulfate	7.5	U
50-29-3	4,4'-DDT	7.5	U
72-43-5	Methoxychlor	37	U
53494-70-5	Endrin Ketone	7.5	U
57-74-9	Chlordane	37	U
8001-35-2	Toxaphene	37	U
12674-11-2	Aroclor-1016	37	U
11104-28-2	Aroclor-1221	37	U
11141-16-5	Aroclor-1232	37	U
53469-21-9	Aroclor-1242	37	U
12672-29-6	Aroclor-1248	37	U
11097-69-1	Aroclor-1254	75	U
11096-82-5	Aroclor-1260	75	U

Vi = volume of extract injected (ul)
Vs = volume of water extracted (ml)
Ws = weight of sample extracted (g)
Vt = volume of total extract (ul)

Vi: Or Ws: 30 Vt: 20 Vt: 4

Client: CENTURY LABORATORIES
Job Number: 75621
Sample ID: S-W-38-2

Organics Analysis Data Sheet

Pesticide/PCBs

Concentration: Low
Date Extracted/Prepared: 10-31-87
Date Analyzed: 11-6-87
Conc/Dil Factor: 5
Percent Moisture (Decanted): 15

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/kg	
319-84-6	Alpha-BHC	3.9	U
319-85-7	Beta-BHC	3.9	U
319-86-8	Delta-BHC	3.9	U
58-89-9	Gamma-BHC (Lindane)	3.9	U
76-44-8	Heptachlor	3.9	U
309-00-2	Aldrin	3.9	U
1024-57-3	Heptachlor Epoxide	3.9	U
959-98-8	Endosulfan I	3.9	U
60-57-1	Dieldrin	7.8	U
72-55-9	4,4'-DDE	7.8	U
72-20-8	Endrin	7.8	U
33213-65-9	Endosulfan II	7.8	U
72-54-8	4,4'-DDD	7.8	U
1031-07-8	Endosulfan Sulfate	7.8	U
50-29-3	4,4'-DDT	7.8	U
72-43-5	Methoxychlor	39	U
53494-70-5	Endrin Ketone	7.8	U
57-74-9	Chlordane	39	U
8001-35-2	Toxaphene	39	U
12674-11-2	Aroclor-1016	39	U
11104-28-2	Aroclor-1221	39	U
11141-16-5	Aroclor-1232	39	U
53469-21-9	Aroclor-1242	39	U
12672-29-6	Aroclor-1248	39	U
11097-69-1	Aroclor-1254	78	U
11096-82-5	Aroclor-1260	78	U

Vi = Volume of extract injected (ul)
Vs = Volume of water extracted (ml)
Ws = Weight of sample extracted (g)
Vt = Volume of total extract (ul)

Vs: or Ws: 30 Vt: 20 Vi: 4

Client: CENTURY LABORATORIES
Job Number: 75621
Sample ID: S-w-38--

Organics Analysis Data Sheet

Pesticide/PCBs

Concentration: Low
Date Extracted/Prepared: 10-31-87
Date Analyzed: 11-6-87
Conc/Dil Factor: 10
Percent Moisture (Decanted): 13

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/kg	
319-84-6	Alpha-BHC	3.8	U
319-85-7	Beta-BHC	3.8	U
319-86-8	Delta-BHC	3.8	U
58-89-9	Gamma-BHC (Lindane)	3.8	U
76-44-8	Heptachlor	3.8	U
309-00-2	Aldrin	3.8	U
1024-57-3	Heptachlor Epoxide	3.8	U
959-98-8	Endosulfan I	3.8	U
60-57-1	Dieldrin	7.7	U
72-55-9	4,4'-DDE	7.7	U
72-20-8	Endrin	7.7	U
33213-65-9	Endosulfan II	7.7	U
72-54-8	4,4'-DDD	7.7	U
1031-07-8	Endosulfan Sulfate	7.7	U
50-29-3	4,4'-DDT	7.7	U
72-43-5	Methoxychlor	38	U
53494-70-5	Endrin Ketone	7.7	U
57-74-9	Chlordane	38	U
8001-35-2	Toxaphene	38	U
12674-11-2	Aroclor-1016	38	U
11104-28-2	Aroclor-1221	38	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	38	U
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	77	U
11096-82-5	Aroclor-1260	77	U

Vi = Volume of extract injected (ul)
Vs = Volume of water extracted (ml)
Ws = Weight of sample extracted (g)
Vt = Volume of total extract (ul)

Vs: or Ws: 30 Vt: 20 Vi: 4

Client: CENTURY LABORATORIES
Job Number: 75621
Sample ID: 5-W-36-39
5-W33-36

Organics Analysis Data Sheet

Pesticide/PCBs

Concentration: Low
Date Extracted/Prepare.: 10-31-87
Date Analyzed: 11-5-87
Conc/Dil Factor: 1000
Percent Moisture (Decanted): 17

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/kg	
319-84-6	Alpha-BHC	4000	U
319-85-7	Beta-BHC	4000	U
319-86-8	Delta-BHC	4000	U
58-89-9	Gamma-BHC (Lindane)	4000	U
76-44-8	Heptachlor	4000	U
309-00-2	Aldrin	4000	U
1024-57-3	Heptachlor Epoxide	4000	U
959-98-8	Endosulfan I	4000	U
60-57-1	Dieldrin	8000	U
72-55-9	4,4'-DDE	8000	U
72-20-8	Endrin	8000	U
33213-65-9	Endosulfan II	8000	U
72-54-8	4,4'-DDD	8000	U
1031-07-8	Endosulfan Sulfate	8000	U
50-29-3	4,4'-DDT	8000	U
72-43-5	Methoxychlor	40000	U
53494-70-5	Endrin Ketone	8000	U
57-74-9	Chlordane	40000	U
8001-35-2	Toxaphene	40000	U
12674-11-2	Aroclor-1016	40000	U
11104-28-2	Aroclor-1221	40000	U
11141-16-5	Aroclor-1232	40000	U
53469-21-9	Aroclor-1242	40000	U
12672-29-6	Aroclor-1248	40000	U
11097-69-1	Aroclor-1254	80000	U
11096-82-5	Aroclor-1260	80000	U

Vi = Volume of extract injected (ul)
Vs = Volume of water extracted (ml)
Ws = Weight of sample extracted (g)
Vt = Volume of total extract (ul)

Vs: or Ws: 30 Vt: 20 Vi: 4

Client: CENTURY LABORATORIES
Job Number: 75623
Sample ID: S-W-36-6

Organics Analysis Data Sheet

Pesticide/PCBs

Concentration: Low
Date Extracted/Prepared: 10-31-87
Date Analyzed: 11-8-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): 10

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/kg	
319-84-6	Alpha-BHC	3.7	U
319-85-7	Beta-BHC	3.7	U
319-86-8	Delta-BHC	3.7	U
58-89-9	Gamma-BHC (Lindane)	3.7	U
76-44-8	Heptachlor	3.7	U
309-00-2	Aldrin	3.7	U
1024-57-3	Heptachlor Epoxide	3.7	U
959-98-8	Endosulfan I	3.7	U
60-57-1	Dieldrin	7.4	U
72-55-9	4,4'-DDE	7.4	U
72-20-8	Endrin	7.4	U
33213-65-9	Endosulfan II	7.4	U
72-54-8	4,4'-DDD	7.4	U
1031-07-8	Endosulfan Sulfate	7.4	U
50-29-3	4,4'-DDT	7.4	U
72-43-5	Methoxychlor	37	U
53494-70-5	Endrin Ketone	7.4	U
57-74-9	Chlordane	37	U
8001-35-2	Toxaphene	37	U
12674-11-2	Aroclor-1016	37	U
11104-28-2	Aroclor-1221	37	U
11141-16-5	Aroclor-1232	37	U
53469-21-9	Aroclor-1242	37	U
12672-29-6	Aroclor-1248	37	U
11097-69-1	Aroclor-1254	74	U
11096-82-5	Aroclor-1260	74	U

Vi = Volume of extract injected (ul)
Vs = Volume of water extracted (ml)
Ws = Weight of sample extracted (g)
Vt = Volume of total extract (ul)

Vs: or Ws: 30 Vt: 20 Vi: 4

Client: CENTURY LABORATORIES
Job Number: 75621
Sample ID: S-W-3B-5

Organics Analysis Data Sheet

Pesticide/PCBs

Concentration: Low
Date Extracted/Prepared: 10-31-87
Date Analyzed: 11-6-87
Conc/Dil Factor: 100
Percent Moisture (Decanted): 9

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/kg	
319-84-6	Alpha-BHC	370	U
319-85-7	Beta-BHC	370	U
319-86-8	Delta-BHC	370	U
58-89-9	Gamma-BHC (Lindane)	370	U
76-44-8	Heptachlor	370	U
309-00-2	Aldrin	370	U
1024-57-3	Heptachlor Epoxide	370	U
959-98-8	Endosulfan I	370	U
60-57-1	Dieldrin	730	U
72-55-9	4,4'-DDE	730	U
72-20-8	Endrin	730	U
33213-65-9	Endosulfan II	730	U
72-54-8	4,4'-DDD	730	U
1031-07-8	Endosulfan Sulfate	730	U
50-29-3	4,4'-DDT	730	U
72-43-5	Methoxychlor	3700	U
53494-70-5	Endrin Ketone	730	U
57-74-9	Chlordane	3700	U
8001-35-2	Toxaphene	3700	U
12674-11-2	Aroclor-1016	3700	U
11104-28-2	Aroclor-1221	3700	U
11141-16-5	Aroclor-1232	3700	U
53469-21-9	Aroclor-1242	3700	U
12672-29-6	Aroclor-1248	3700	U
11097-69-1	Aroclor-1254	7300	U
11096-82-5	Aroclor-1260	7300	U

Vi = Volume of extract injected (ul)
Vs = Volume of water extracted (ml)
Ws = Weight of sample extracted (g)
Vt = Volume of total extract (ul)

Vs: or Ws: 30 Vt: 20 Vi: 4

Client: CENTURY LABORATORIES
Job Number: 75632
Sample ID: S-W-38-8

Organics Analysis Data Sheet

Pesticide/PCBs

Concentration: Low
Date Extracted/Prepared: 11-1-87
Date Analyzed: 11-17-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): 15

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/kg	
319-84-6	Alpha-BHC	3.9	U
319-85-7	Beta-BHC	9.39	
319-86-8	Delta-BHC	3.9	U
58-89-9	Gamma-BHC (Lindane)	3.9	U
76-44-8	Heptachlor	3.9	U
309-00-2	Aldrin	3.9	U
1024-57-3	Heptachlor Epoxide	3.9	U
959-98-8	Endosulfan I	3.9	U
60-57-1	Dieldrin	7.8	U
72-55-9	4,4'-DDE	7.8	U
72-20-8	Endrin	7.8	U
33213-65-9	Endosulfan II	7.8	U
72-54-8	4,4'-DDD	7.8	U
1031-07-8	Endosulfan Sulfate	7.8	U
50-29-3	4,4'-DDT	7.8	U
72-43-5	Methoxychlor	39	U
53494-70-5	Endrin Ketone	7.8	U
57-74-9	Chlordane	39	U
8001-35-2	Toxaphene	39	U
12674-11-2	Aroclor-1016	39	U
11104-28-2	Aroclor-1221	39	U
11141-16-5	Aroclor-1232	39	U
53469-21-9	Aroclor-1242	39	U
12672-29-6	Aroclor-1248	39	U
11097-69-1	Aroclor-1254	78	U
11096-82-5	Aroclor-1260	78	U

Vi = Volume of extract injected (ul)
Vs = Volume of water extracted (ml)
Ws = Weight of sample extracted (g)
Vt = Volume of total extract (ul)

Vs: or Ws: 30 Vt: 20

Client: CENTURY LABORATORIES
Job Number: 75632
Sample ID: S-W-3B-7

Organics Analysis Data Sheet

Pesticide/PCBs

Concentration: Low
Date Extracted/Prepared: 11-1-87
Date Analyzed: 11-17-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): 16

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/kg	
319-84-6	Alpha-BHC	4	U
319-85-7	Beta-BHC	2.4	J
319-86-8	Delta-BHC	4	U
58-89-9	Gamma-BHC (Lindane)	4	U
76-44-8	Heptachlor	4	U
309-00-2	Aldrin	4	U
1024-57-3	Heptachlor Epoxide	4	U
959-98-8	Endosulfan I	4	U
60-57-1	Dieldrin	7.9	U
72-55-9	4,4'-DDE	7.9	U
72-20-8	Endrin	7.9	U
33213-65-9	Endosulfan II	7.9	U
72-54-8	4,4'-DDD	7.9	U
1031-07-8	Endosulfan Sulfate	7.9	U
50-29-3	4,4'-DDT	7.9	U
72-43-5	Methoxychlor	40	U
53494-70-5	Endrin Ketone	7.9	U
57-74-9	Chlordane	40	U
8001-35-2	Toxaphene	40	U
12674-11-2	Aroclor-1016	40	U
11104-28-2	Aroclor-1221	40	U
11141-16-5	Aroclor-1232	40	U
53469-21-9	Aroclor-1242	40	U
12672-29-6	Aroclor-1248	40	U
11097-69-1	Aroclor-1254	79	U
11096-82-5	Aroclor-1260	79	U

Vi = Volume of extract injected (ul)
Vs = Volume of water extracted (ml)
Ws = Weight of sample extracted (g)
Vt = Volume of total extract (ul)

Vs: or Ws: 30 Vt: 20 Vi: -

Client: CENTURY LABORATORIES
Job Number: 75332
Sample ID: 5-W-3B-10

Organics Analysis Data Sheet

Pesticide/PCBs

Concentration: Low
Date Extracted/Prepared: 11-1-87
Date Analyzed: 11-17-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): 15

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/kg	
319-84-6	Alpha-BHC	3.9	U
319-85-7	Beta-BHC	15	
319-86-8	Delta-BHC	3.9	U
58-89-9	Gamma-BHC (Lindane)	3.9	U
76-44-8	Heptachlor	3.9	U
309-00-2	Aldrin	3.9	U
1024-57-3	Heptachlor Epoxide	3.9	U
959-98-8	Endosulfan I	3.9	U
60-57-1	Dieldrin	7.8	U
72-55-9	4,4'-DDE	7.8	U
72-20-8	Endrin	7.8	U
33213-65-9	Endosulfan II	7.8	U
72-54-8	4,4'-DDD	7.8	U
1031-07-8	Endosulfan Sulfate	7.8	U
50-29-3	4,4'-DDT	7.8	U
72-43-5	Methoxychlor	39	U
53494-70-5	Endrin Ketone	7.8	U
57-74-9	Chlordane	39	U
8001-35-2	Toxaphene	39	U
12674-11-2	Aroclor-1016	39	U
11104-28-2	Aroclor-1221	39	U
11141-16-5	Aroclor-1232	39	U
53469-21-9	Aroclor-1242	39	U
12672-29-6	Aroclor-1248	39	U
11097-69-1	Aroclor-1254	78	U
11096-82-5	Aroclor-1260	78	U

Vi = Volume of extract injected (ul)
Vs = Volume of water extracted (ml)
ws = weight of sample extracted (g)
Vt = Volume of total extract (ul)

Vs: or ws: 30 Vt: 20 Vi: 4

Client: CENTURY LABORATORIES
Job Number: 75632
Sample ID: S-W-3E-9

Organics Analysis Data Sheet

Pesticide/PCBs

Concentration: Low
Date Extracted/Prepared: 11-1-87
Date Analyzed: 11-17-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): 16

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/kg	
319-84-6	Alpha-BHC	4	U
319-85-7	Beta-BHC	15	
319-86-8	Delta-BHC	4	U
58-89-9	Gamma-BHC (Lindane)	4	U
76-44-8	Heptachlor	4	U
309-00-2	Aldrin	4	U
1024-57-3	Heptachlor Epoxide	4	U
959-98-8	Endosulfan I	4	U
60-57-1	Dieldrin	7.9	U
72-55-9	4,4'-DDE	7.9	U
72-20-8	Endrin	7.9	U
33213-65-9	Endosulfan II	7.9	U
72-54-8	4,4'-DDD	7.9	U
1031-07-8	Endosulfan Sulfate	7.9	U
50-29-3	4,4'-DDT	7.9	U
72-43-5	Methoxychlor	40	U
53494-70-5	Endrin Ketone	7.9	U
57-74-9	Chlordane	40	U
8001-35-2	Toxaphene	40	U
12674-11-2	Aroclor-1016	40	U
11104-28-2	Aroclor-1221	40	U
11141-16-5	Aroclor-1232	40	U
53469-21-9	Aroclor-1242	40	U
12672-29-6	Aroclor-1248	40	U
11097-69-1	Aroclor-1254	79	U
11096-82-5	Aroclor-1260	79	U

Vi = Volume of extract injected (ul)
Vs = Volume of water extracted (ml)
ws = Weight of sample extracted (g)
Vt = Volume of total extract (ul)

Vs: or ws: 30 Vt: 20 Vi: 4

Client: CENTURY LABORATORIES
Job Number: 75632
Sample ID: S-W-38-12

Organics Analysis Data Sheet

Pesticide/PCBs

Concentration: Low
Date Extracted/Prepared: 11-1-87
Date Analyzed: 11-17-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): 18

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/kg	
319-84-6	Alpha-BHC	4.1	U
319-85-7	Beta-BHC	28	
319-86-8	Delta-BHC	4.1	U
58-89-9	Gamma-BHC (Lindane)	4.1	U
76-44-8	Heptachlor	4.1	U
309-00-2	Aldrin	4.1	U
1024-57-3	Heptachlor Epoxide	4.1	U
959-98-8	Endosulfan I	4.1	U
60-57-1	Dieldrin	8.1	U
72-55-9	4,4'-DDE	8.1	U
72-20-8	Endrin	8.1	U
33213-65-9	Endosulfan II	8.1	U
72-54-8	4,4'-DDD	8.1	U
1031-07-8	Endosulfan Sulfate	8.1	U
50-29-3	4,4'-DDT	8.1	U
72-43-5	Methoxychlor	41	U
53494-70-5	Endrin Ketone	8.1	U
57-74-9	Chlordane	41	U
8001-35-2	Toxaphene	41	U
12674-11-2	Aroclor-1016	41	U
11104-28-2	Aroclor-1221	41	U
11141-16-5	Aroclor-1232	41	U
53469-21-9	Aroclor-1242	41	U
12672-29-6	Aroclor-1248	41	U
11097-69-1	Aroclor-1254	81	U
11096-82-5	Aroclor-1260	81	U

Vi = Volume of extract injected (ul)
Vs = Volume of water extracted (ml)
Ws = Weight of sample extracted (g)
Vt = Volume of total extract (ul)

Vs: or Ws: 30 Vt: 20 Vi: 4

Client: CENTURY LABORATORIES
Job Number: 75632
Sample ID: S-W-3B-11

Organics Analysis Data Sheet

Pesticide/PCBs

Concentration: Low
Date Extracted/Prepared: 11-1-87
Date Analyzed: 11-17-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): 15

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/kg	
319-84-6	Alpha-BHC	3.9	U
319-85-7	Beta-BHC	7.8	
319-86-8	Delta-BHC	3.9	U
58-89-9	Gamma-BHC (Lindane)	3.9	U
76-44-8	Heptachlor	3.9	U
309-00-2	Aldrin	3.9	U
1024-57-3	Heptachlor Epoxide	3.9	U
959-98-8	Endosulfan I	3.9	U
60-57-1	Dieldrin	7.8	U
72-55-9	4,4'-DDE	7.8	U
72-20-8	Endrin	7.8	U
33213-65-9	Endosulfan II	7.8	U
72-54-8	4,4'-DDD	7.8	U
1031-07-8	Endosulfan Sulfate	7.8	U
50-29-3	4,4'-DDT	7.8	U
72-43-5	Methoxychlor	39	U
53494-70-5	Endrin Ketone	7.8	U
57-74-9	Chlordane	39	U
8001-35-2	Toxaphene	39	U
12674-11-2	Aroclor-1016	39	U
11104-28-2	Aroclor-1221	39	U
11141-16-5	Aroclor-1232	39	U
53469-21-9	Aroclor-1242	39	U
12672-29-6	Aroclor-1248	39	U
11097-69-1	Aroclor-1254	78	U
11096-82-5	Aroclor-1260	78	U

Vi = volume of extract injected (ul)
Vs = volume of water extracted (ml)
Ws = weight of sample extracted (g)
Vt = volume of total extract (ul)

Vs: or Ws: 30 Vt: 20 Vi: 4

Client: CENTURY LABORATORIES INC.
Job Number: 75577
Sample ID: 5-W-1-2

Organics Analysis Data Sheet

Pesticide/PCBs

Concentration: Low
Date Extracted/Prepared: 10-14-87
Date Analyzed: 10-24-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): 9

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/kg	
319-84-6	Alpha-BHC	3.7	U
319-85-7	Beta-BHC	3.7	U
319-86-8	Delta-BHC	3.7	U
58-89-9	Gamma-BHC (Lindane)	3.7	U
76-44-8	Heptachlor	3.7	U
309-00-2	Aldrin	3.7	U
1024-57-3	Heptachlor Epoxide	3.7	U
959-98-8	Endosulfan I	3.7	U
60-57-1	Dieldrin	7.3	U
72-55-9	4,4'-DDE	7.3	U
72-20-8	Endrin	7.3	U
33213-65-9	Endosulfan II	7.3	U
72-54-8	4,4'-DDD	7.3	U
1031-07-8	Endosulfan Sulfate	7.3	U
50-29-3	4,4'-DDT	7.3	U
72-43-5	Methoxychlor	37	U
53494-70-5	Endrin Ketone	7.3	U
57-74-9	Chlordane	37	U
8001-35-2	Toxaphene	37	U
12674-11-2	Aroclor-1016	37	U
11104-28-2	Aroclor-1221	37	U
11141-16-5	Aroclor-1232	37	U
53469-21-9	Aroclor-1242	37	U
12672-29-6	Aroclor-1248	37	U
11097-69-1	Aroclor-1254	73	U
11096-82-5	Aroclor-1260	73	U

Vi = Volume of extract injected (ul)
Vs = Volume of water extracted (ml)
Ws = Weight of sample extracted (g)
Vt = Volume of total extract (ul)

Vs: or Ws: 30 Vt: 20 Vi: 4

Client: CENTURY LABORATORIES INC.
Job Number: 75577
Sample ID: S-W-1-1

Organics Analysis Data Sheet

Pesticide/PCBs

Concentration: Low
Date Extracted/Prepared: 10-14-87
Date Analyzed: 10-24-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): 9

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/kg	
319-84-6	Alpha-BHC	3.7	U
319-85-7	Beta-BHC	3.7	U
319-86-8	Delta-BHC	3.7	U
58-89-9	Gamma-BHC (Lindane)	3.7	U
76-44-8	Heptachlor	3.7	U
309-00-2	Aldrin	3.7	U
1024-57-3	Heptachlor Epoxide	3.7	U
959-98-8	Endosulfan I	3.7	U
60-57-1	Dieldrin	7.3	U
72-55-9	4,4'-DDE	7.3	U
72-20-8	Endrin	7.3	U
33213-65-9	Endosulfan II	7.3	U
72-54-8	4,4'-DDD	7.3	U
1031-07-8	Endosulfan Sulfate	7.3	U
50-29-3	4,4'-DDT	7.3	U
72-43-5	Methoxychlor	37	U
53494-70-5	Endrin Ketone	7.3	U
57-74-9	Chlordane	37	U
8001-35-2	Toxaphene	37	U
12674-11-2	Aroclor-1016	37	U
11104-28-2	Aroclor-1221	37	U
11141-16-5	Aroclor-1232	37	U
53469-21-9	Aroclor-1242	37	U
12672-29-6	Aroclor-1248	37	U
11097-69-1	Aroclor-1254	73	U
11096-82-5	Aroclor-1260	73	U

Vi = Volume of extract injected (ul)
Vs = Volume of water extracted (ml)
Ws = Weight of sample extracted (g)
Vt = Volume of total extract (ul)

Vs: or Ws: 30 Vt: 30 Vi: -

Client: CENTURY LABORATORIES INC.
Job Number: 75577
Sample ID: S-[illegible]-1-4

Organics Analysis Data Sheet

Pesticide/PCBs

Concentration: Low
Date Extracted/Prepared: 10-14-87
Date Analyzed: 10-24-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): 13

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/kg	
319-84-6	Alpha-BHC	3.8	U
319-85-7	Beta-BHC	3.8	U
319-86-8	Delta-BHC	3.8	U
58-89-9	Gamma-BHC (Lindane)	3.8	U
76-44-8	Heptachlor	3.8	U
309-00-2	Aldrin	3.8	U
1024-57-3	Heptachlor Epoxide	3.8	U
959-98-8	Endosulfan I	3.8	U
60-57-1	Dieldrin	7.7	U
72-55-9	4,4'-DDE	7.7	U
72-20-8	Endrin	7.7	U
33213-65-9	Endosulfan II	7.7	U
72-54-8	4,4'-DDD	7.7	U
1031-07-8	Endosulfan Sulfate	7.7	U
50-29-3	4,4'-DDT	7.7	U
72-43-5	Methoxychlor	38	U
53494-70-5	Endrin Ketone	7.7	U
57-74-9	Chlordane	38	U
8001-35-2	Toxaphene	38	U
12674-11-2	Aroclor-1016	38	U
11104-28-2	Aroclor-1221	38	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	38	U
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	77	U
11096-82-5	Aroclor-1260	77	U

Vi = Volume of extract injected (ul)
Vs = Volume of water extracted (ml)
Ws = Weight of sample extracted (g)
Vt = Volume of total extract (ul)

Vs: or Ws: 30 Vt: 20 Vi: 4

Client: CENTURY LABORATORIES INC.
Job Number: 75577
Sample ID: S-W-1-3

Organics Analysis Data Sheet

Pesticide/PCBs

Concentration: Low
Date Extracted/Prepared: 10-14-87
Date Analyzed: 10-24-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): 11

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/kg	
319-84-6	Alpha-BHC	3.7	U
319-85-7	Beta-BHC	3.7	U
319-86-8	Delta-BHC	3.7	U
58-89-9	Gamma-BHC (Lindane)	3.7	U
76-44-8	Heptachlor	3.7	U
309-00-2	Aldrin	3.7	U
1024-57-3	Heptachlor Epoxide	3.7	U
959-98-8	Endosulfan I	3.7	U
60-57-1	Dieldrin	7.5	U
72-55-9	4,4'-DDE	7.5	U
72-20-8	Endrin	7.5	U
33213-65-9	Endosulfan II	7.5	U
72-54-8	4,4'-DDD	7.5	U
1031-07-8	Endosulfan Sulfate	7.5	U
50-29-3	4,4'-DDT	7.5	U
72-43-5	Methoxychlor	37	U
53494-70-5	Endrin Ketone	7.5	U
57-74-9	Chlordane	37	U
8001-35-2	Toxaphene	37	U
12674-11-2	Aroclor-1016	37	U
11104-28-2	Aroclor-1221	37	U
11141-16-5	Aroclor-1232	37	U
53469-21-9	Aroclor-1242	37	U
12672-29-6	Aroclor-1248	37	U
11097-69-1	Aroclor-1254	75	U
11096-82-5	Aroclor-1260	75	U

Vi = Volume of extract injected (ul)
Vs = Volume of water extracted (ml)
Ws = Weight of sample extracted (g)
Vt = Volume of total extract (ul)

Vs: or Ws: 30 Vt: 20 Vi: 4

Client: CENTURY LABORATORIES INC.
Job Number: 75577
Sample ID: 5-W-1-6

Organics Analysis Data Sheet

Pesticide/PCBs

Concentration: Low
Date Extracted/Prepared: 10-14-87
Date Analyzed: 10-24-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): 12

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/kg	
319-84-6	Alpha-BHC	3.8	U
319-85-7	Beta-BHC	3.8	U
319-86-8	Delta-BHC	3.8	U
58-89-9	Gamma-BHC (Lindane)	3.8	U
76-44-8	Heptachlor	3.8	U
309-00-2	Aldrin	3.8	U
1024-57-3	Heptachlor Epoxide	3.8	U
959-98-8	Endosulfan I	3.8	U
60-57-1	Dieldrin	7.6	U
72-55-9	4,4'-DDE	7.6	U
72-20-8	Endrin	7.6	U
33213-65-9	Endosulfan II	7.6	U
72-54-8	4,4'-DDD	7.6	U
1031-07-8	Endosulfan Sulfate	7.6	U
50-29-3	4,4'-DDT	7.6	U
72-43-5	Methoxychlor	38	U
53494-70-5	Endrin Ketone	7.6	U
57-74-9	Chlordane	38	U
8001-35-2	Toxaphene	38	U
12674-11-2	Aroclor-1016	38	U
11104-28-2	Aroclor-1221	38	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	38	U
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	76	U
11096-82-5	Aroclor-1260	76	U

Vi = Volume of extract injected (ul)
Vs = Volume of water extracted (ml)
Ws = Weight of sample extracted (g)
Vt = Volume of total extract (ul)

Vs: or ws: 30 Vt: 20 Vi: 4

APPENDIX D

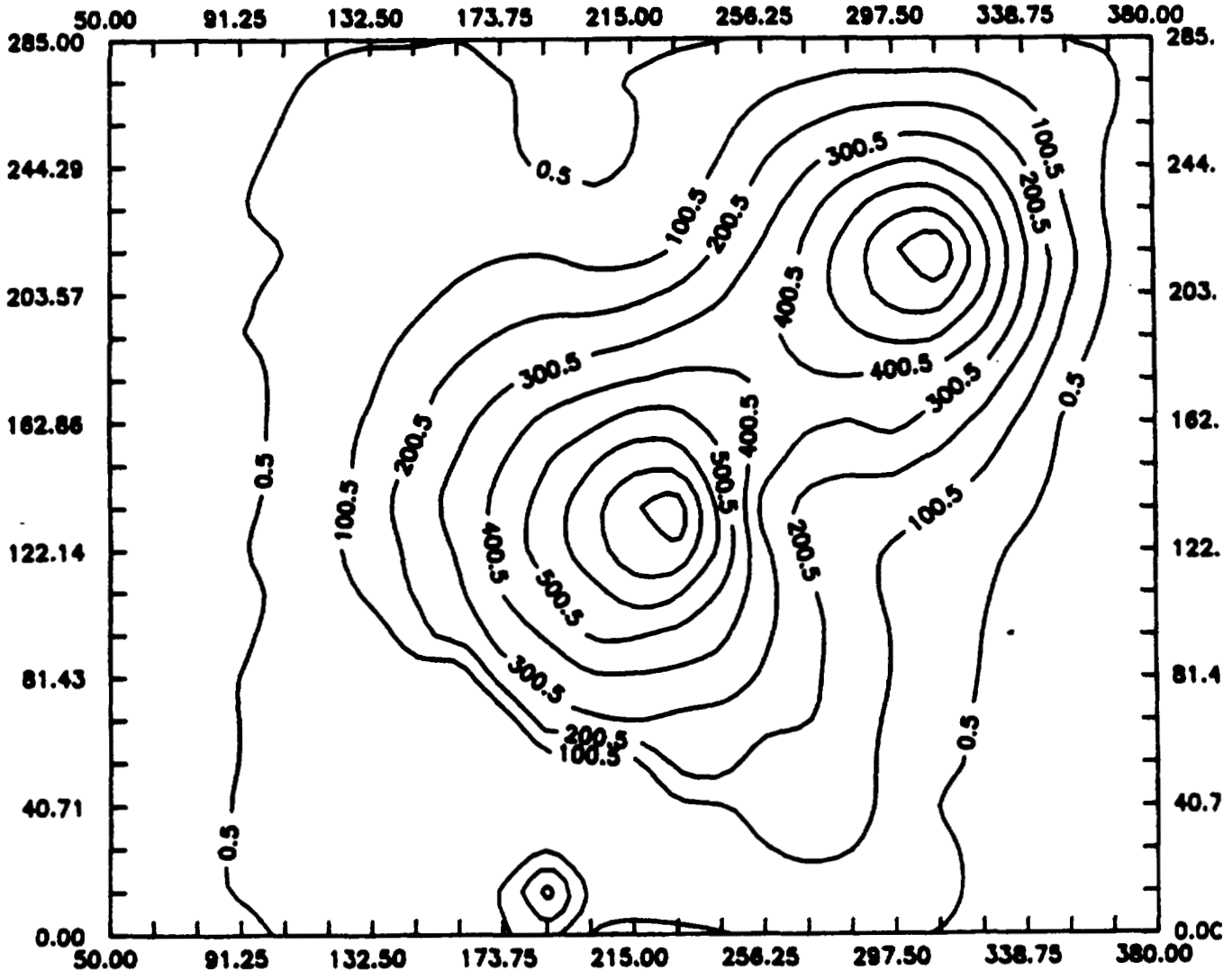
ADDITIONAL INFORMATION ON SOIL CONTAMINATION

BUILDING	DEPTH	SAMPLE NUMBER	Al	Sb	As	Ba	Cd	Ca	Cr	Co	Fe	Pb	CN	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Th	V	Zn	TOTAL PLATING INDICATOR METALS
9-1	0-2	S-91-1	2670		[illegible]	131	U	16200	2433	191	45200	928	4.1	1099	35	0.2	25	3665	U	U	U	U	15	13	3651
	2-4	S-91-24	3318	U	53.2	U	U	1909	963	32	23100	5.2	1.2	U	42	U	6.1	1964	U	U	U	U	11	18	1055
	2-4	S-91-28	3392	U	12.2	U	U	2319	839	37	23000	6.8	1.9	1006	52	U	7.9	2169	U	U	U	U	12	19	955
	4-6	S-91-[illegible]	50[illegible]		13.2	25	U	2094	133	50	24100	8.5	R	1492	94	U	12	1230	U	U	U	U	20	33	326
	9-10	S-91-4	5[illegible]		7.1	[illegible]	6	43700	94	187	15400	4.1	1.9	15500	483	U	131	U	U	U	U	U	U	181	328
	13.5-15	S-91-5	1816		2.4	U	U	52600	68	40	5718	3.8	R	9506	145	0.2	140	U	U	U	U	U	U	100	254
	19.5-20	S-91-6	52[illegible]		1.6	U	1	68500	14	9.4	10700	5.4	U	23200	258	U	16	1023	U	U	U	U	12	35	50
	23.5-25	S-91-7	54[illegible]		5.2	U	U	78700	16	8.7	11700	5.7	R	26200	285	0.2	16	1300	U	U	149	U	14.9	36.6	49
	25-28.5	S-91-8	29[illegible]		2.9	U	1.1	55200	8	4.6	6217	3.8	R	19600	174	U	8.5	U	U	U	U	U	5.3	23	38
	28.5-30	S-91-9	30[illegible]	R	2.5	U	U	39500	19	6.1	11300	3.4	U	13600	278	U	U	U	U	U	U	U	U	24	31
	33.5-35	S-91-10	1043	R	U	U	U	33600	19	U	2803	1.8	U	5859	76	U	U	U	U	U	U	U	U	12	21
	39.5-40	S-91-[illegible]	25[illegible]	R	2.9	U	U	35300	17	5.7	5832	4.1	R	13500	171	U	11	U	U	U	U	U	U	24	41
	43.5-45	S-91-12	774	R	U	U	U	18500	15	U	2016	U	0.7	5429	53	U	U	U	U	U	U	U	8.9	6.1	16
	48.5-50	S-91-13	775	R	U	U	U	16500	14	U	1866	U	U	5052	47	U	U	U	U	U	U	U	U	5.8	14
	58.5-60	S-91-14	648	U	U	U	U	16800	12	U	1759	U	R	4867	50	U	U	U	U	U	U	U	U	7	12
	68.5-70	S-91-15	807	U	U	U	U	15900	14	U	1798	U	R	4877	48	U	U	U	U	U	U	U	U	5.3	14
	78.5-80	S-91-16	817	U	U	U	U	19600	18	U	2323	U	R	5489	53	U	U	U	U	U	U	U	U	9.4	18
	88.5-90	S-91-17	742	U	U	U	U	24800	53	U	2533	2.1	R	7365	65	U	U	U	U	U	U	U	U	7.5	55
	103.5-105	S-91-18	741		U	U	U	26200	42	U	3750	U	R	9650	121	U	U	U	U	U	U	U	U	9.5	42
9-2	0-2	S-92-1	[illegible]	R	U	U	U	73100	39	60	9572	5.6	0.3	26300	252	R	62	U	U	U	R	U	12	36	167
	3-5	S-92-3	1752	R	U	U	U	7355	91	6.7	4970	5	U	22600	145	R	25	U	U	U	R	U	U	R	129
	4-5	S-92-5	27[illegible]	R	5.4	U	U	48300	334	13	10920	4.9	1.2	14660	217	R	56	U	U	U	R	U	18	86	415
	18.5-20	S-92-6	524	R	U	U	U	18200	16	U	2562	2.7	U	5687	79	R	20	U	U	U	R	U	U	R	39
	23.5-25	S-92-7	5455	R	6	95	U	63700	30	25	12330	27	0.9	10500	316	0.3	21	U	U	U	R	U	13	49	128
	28.5-30	S-92-8	1170	R	20	152	U	41200	535	119	63700	23	4.4	7809	1352	R	89	2971	U	U	5203	U	30	145	750
9-3	[illegible]	S-93-[illegible]	[illegible]		5.7	68	U	32400	17	24	1930	42	0.4	5200	310	0.2	16	U	U	U	5339	[illegible]	2	49	135
	2-4	S-93-2	3404	R	3.3	52	1	33800	15	16	6023	24	0.6	10600	239	U	12	U	U	U	U	U	11	42	71
	4-6	S-93-3	2538		2.0	U	U	16600	7.4	17	7766	16	0.8	6722	200	U	U	2570	U	U	U	U	U	35	41
	4-6	S-93-[illegible]	[illegible]		4.5	17	U	13600	9.3	12	9750	15	0.7	7084	254	U	8.7	U	U	U	U	U	[illegible]	33	55
	9-10	S-93-4	1770	R	U	122	U	4537	21	12	32400	12	U	2653	169	U	9.6	U	U	U	U	U	31	57	65
	10-12	S-93-5	1817	[illegible]	[illegible]	U	U	23400	7.5	22	6709	2.1	R	11700	76	U	30	U	U	U	U	U	U	27	73
	13.5-15	S-93-6	[illegible]			U	U	26600	15	29	3739	U	U	7559	76	U	37	U	U	U	U	U	U	39	81
	23.5-25	S-93-[illegible]	[illegible]			U	U	18600	40	U	2069	U	U	5556	55	U	U	U	U	U	U	U	U	7.5	40
	28.5-30	S-93-[illegible]	719				U	15300	15	U	2324	1.7	U	5688	47	U	U	U	U	U	U	U	U	7.6	17
	33.5-35	S-93-10	728	U	U	U	U	21300	19	U	2124	U	U	6650	49	U	U	U	U	U	U	U	U	9.5	10
	38.5-40	S-93-11	758				U	20300	10	U	2123	U	U	7236	52	U	U	U	U	U	U	U	U	6.2	10
	43.5-45	S-93-12	[illegible]		U	U	U	24600	11	U	3148	U	U	7134	75	U	U	U	U	U	U	U	U	5.8	11
	48.5-50	S-93-13	[illegible]			U	U	25900	59	7.9	2681	U	U	9565	19	2	10	U	U	U	U	U	U	21	77
	58.5-60	S-93-14	[illegible]			U	U	22900	9.2	U	2215	U	U	7418	68	0.6	U	U	U	U	U	U	U	15	9
	68.5-70	S-93-15	[illegible]				U	20300	12	U	2191	U	U	7135	65	U	U	U	U	U	U	U	U	6.5	12
	78.5-80	S-93-16	[illegible]	U		U	U	21200	18	U	1943	U	U	6540	57	U	16	U	U	U	U	U	U	7.5	34
	85.5-90	S-93-17	2141	R	U	U	U	91200	174	12	7223	5	3.2	12530	221	0.1	27	U	U	U	R	U	U	106	221

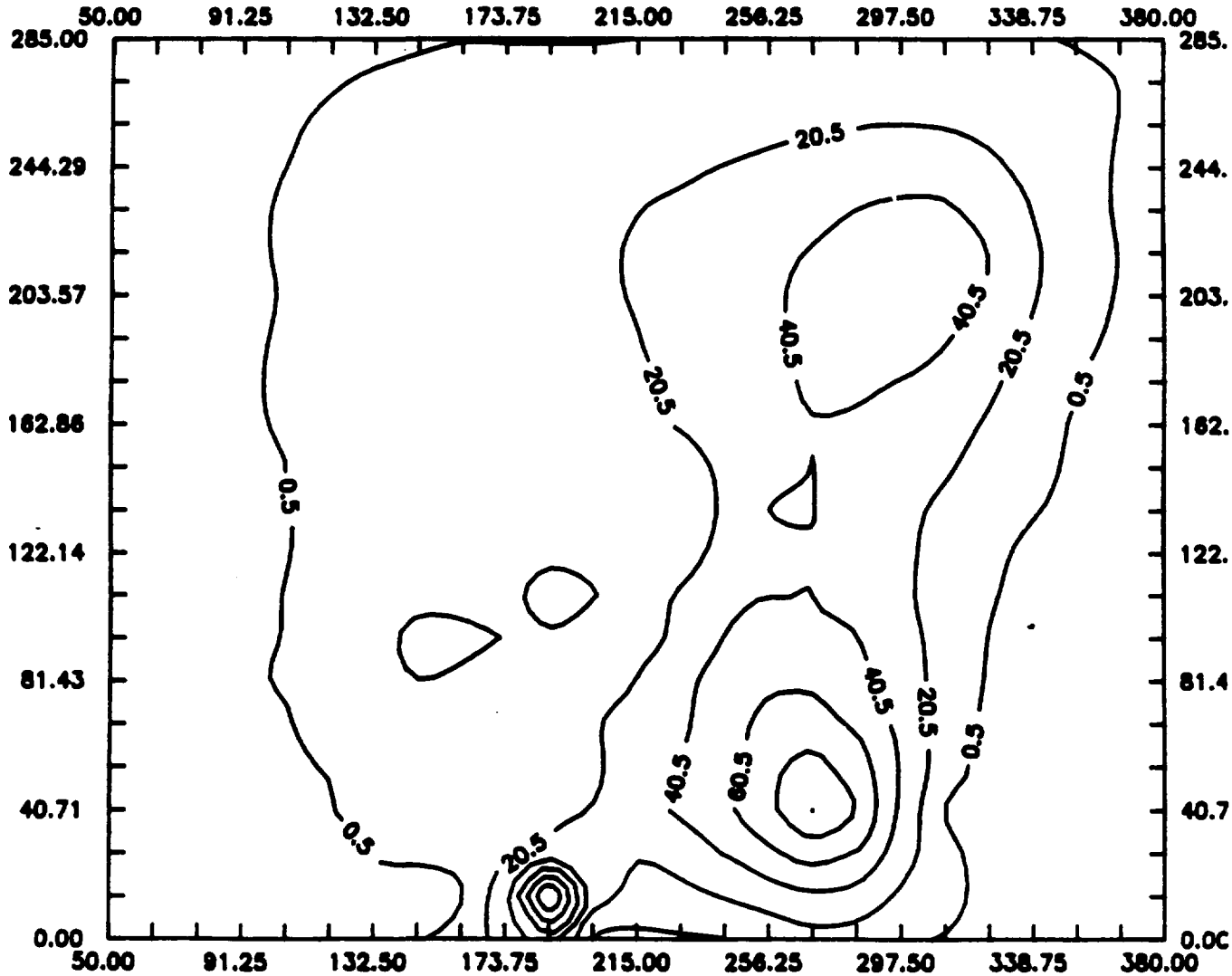
BORING	DEPTH	SAMPLE NUMBER	Al	Sb	As	Ba	Cd	Ca	Cr	Co	Fe	Pb	CN	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Th	V	Zn	TOTAL PLATING INDICATOR METALS
B-4	0-2	S-B4-1	3005	R	5.7	U	U	51800	25	13	13600	8.7	3	15100	299	U	13	U	U	U	U	U	17	29	68
	2-4	S-B4-2	1734	R	2.8	U	U	72100	18	7.1	5502	1.5	0.4	27000	138	U	12	U	U	U	U	U	U	22	43
	4-6	S-B4-3	2988	R	3.4	U	U	35500	19	16	5372	7.2	R	11400	182	U	15	U	U	U	U	U	7.9	32	61
	6-8	S-B4-4A	4833	R	[illegible]	585	U	43500	2968	949	17900	34	183	14400	289	U	1449	U	U	U	U	U	11	539	5594
	8-8	S-B4-4B	5013	R	9.3	517	U	28400	2561	824	17500	23	231	9711	311	U	1159	U	U	U	U	U	U	435	4806
B-5	0-2	S-B5-1	2600	R	[illegible]	92	U	26800	371	154	15600	62	4.3	7751	142	0.2	403	U	U	U	U	U	10	221	1012
	2-4	S-B5-2	3665	R	3.4	43	U	1624	313	40	13600	5.9	1.2	1131	145	U	64	U	U	U	U	U	12	22	428
	4-6	S-B5-3	3754	R	3.8	U	U	1013	409	146	10500	3.9	27	1102	62	U	166	U	U	U	U	U	11	39	756
	6-8	S-B5-4	1413	R	2.5	U	U	3013	349	133	9251	1.4	124	U	40	U	517	U	U	U	U	U	U	146	1130
B-6	0-2	S-B6-1	3[illegible]	[illegible]	38	292	5.2	27400	1207	1203	16500	365	0.9	8636	201	0.2	1020	U	U	U	U	U	9.5	1474	3834
	2-4	S-B6-2	7[illegible]	R	6	[illegible]	2.5	43600	1423	642	12900	15	17	9326	114	U	1022	U	U	U	U	U	14	364	3128
	4-6	S-B6-3	2[illegible]	R	4.3	54	U	14100	310	143	9093	22	2.6	4038	106	0.1	576	U	U	U	U	U	U	301	1058
B-7	0-2	S-B7-1	2[illegible]	R	3.4	U	U	55250	53	46	7486	8.2	5.4	17700	239	0.2	72	U	U	U	U	U	U	43	189
	2-4	S-B7-2A	2[illegible]	R	R	294	4.7	31600	2572	434[illegible]	R	125	R	6722	128	0.4	4520	U	U	U	U	U	U	2029	11362
	2-4	S-B7-2B	3313	R	R	277	1.6	32500	1840	1831	R	140	R	6899	98	0.8	2061	U	U	U	U	U	U	790	5472
	4-6	S-B7-3	5356	R	U	97	12	19900	3521	10100	14200	30	4	3585	54	1.6	1094	U	U	4.4	U	U	18	589	14749
	6-8	S-B7-4	3515	R	37	U	U	5276	2071	617	5775	5.5	15	1114	29	U	85	U	U	U	U	U	U	24	2822
W-1	0-2	S-W1-1	5243	R	4.5	42	U	31400	11	12	9594	23	R	6135	287	U	7.9	U	U	U	U	U	12	40	58
	2-4	S-W1-2	3340	R	3.5	U	U	15300	7.1	18	10500	30	R	5146	276	U	U	U	U	U	U	U	U	42	59
	4-6	S-W1-3	7[illegible]	R	10	69	U	9335	15	7.5	20400	13	R	3850	1006	U	9.7	U	U	U	U	U	24	23	55
	9-11	S-W1-4	2[illegible]	R	U	U	U	54100	9.4	U	5996	2.1	R	10200	130	U	U	U	U	U	U	U	U	14	12
	14-16	S-W1-5	93	R	[illegible]	[illegible]	U	37500	7	U	3804	1.3	R	12100	122	U	U	U	U	U	U	U	U	13	8
	19-21	S-W1-6	[illegible]	R	U	U	U	43100	9	U	4760	2.1	R	11800	110	U	U	U	U	U	U	U	U	14	11
W-2	0-2	S-W2-1A	R	R	U	R	U	R	13	U	R	5.5	U	5556	R	R	23	U	U	U	U	5.3	U	24	46
	0-2	S-W2-1B	[illegible]	R	U	R	U	R	38	26	R	37	U	11500	R	R	19	U	U	U	U	4.9	U	54	119
	2-4	S-W2-2	6[illegible]	R	[illegible]	75	U	22300	177	23	17600	4.7	U	4145	421	R	87	1402	U	U	4235	U	U	92	297
	4-6	S-W2-3	4740	R	5.2	U	U	U	18	U	101200	4.2	U	1167	224	R	U	U	U	U	U	4.4	U	16	28
	9-11	S-W2-4	3[illegible]	R	[illegible]	U	U	32500	13	U	3067	3.5	U	7019	82	R	U	U	U	U	U	U	U	8.7	17
	17-19	S-W2-5	2649	R	7.4	U	U	56000	27	6.4	9458	5.5	U	14500	301	R	41	U	U	U	U	U	U	24	97
W-3	0-2	S-W3-1	4404	R	4.5	45	4.8	47600	1010	445	18600	70	R	15500	243	0.2	333	U	U	U	U	U	U	631	1853
	2-4	S-W3-2	2003	U		71	U	13900	681	222	42700	29	R	U	47	1.8	112	U	U	U	U	U	U	57	1043
	4-6	S-W3-3A	8912	U	3.6	R	U	29700	1798	444	26900	60	R	U	184	4.1	651	U	U	U	U	U	U	720	2991
	4-6	S-W3-3B	7755	U	U	R	U	22200	2116	663	24500	56	5.3	U	135	5.1	431	U	U	U	U	U	U	506	3281
	6-8	S-W3-4	3[illegible]	[illegible]	U	U	U	5599	1852	1135	13600	21	R	1323	64	0.4	477	U	U	U	U	U	U	111	3496
	13.5-15.5	S-W3-5	2375		1	U	U	42000	295	47	9293	3.4	U	12100	194	0.1	184	U	U	U	U	U	U	212	443
	17-19	S-W3-6	6[illegible]		[illegible]	U	U	72200	26	7.8	12800	4	U	25500	283	R	16	U	U	U	U	U	17	34	54
	24-25.5	S-W3-7	1[illegible]	U	U	U	U	23100	16	U	2560	U	U	7500	66	U	U	U	U	U	U	U	U	9.7	16
	29-30.5	S-W3-8	6[illegible]	U	U	U	U	17200	11	U	1630	U	U	4260	41	U	U	U	U	U	U	U	U	U	11
	34-35.5	S-W3-9	551	U	U	U	U	15900	13	U	1560	U	U	4710	44	U	U	U	U	U	U	U	U	U	13
	39-40.5	S-W3-10	5[illegible]			U	U	15900	12	U	1540	U	U	4510	41	U	U	U	U	U	U	U	U	U	12
	44-45.5	S-W3-11	934	U	U	U	U	20700	13	U	2180	U	U	5820	56	U	U	U	U	U	U	U	U	7.3	13
																									14

BORING	DEPTH	SAMPLE NUMBER	Al	Sb	As	Ba	Cd	Ca	Cr	Co	Fe	Pb	CN	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Th	V	Zn	TOTAL PLATING INDICATOR METALS
w-4	0-2	S-w4-1	3834	R	13	258	2.4	29600	1601	U	33200	133	72	7293	190	0.3	298	U	U	U	U	U	13	174	2169
	2-4	S-w4-2	2159	R	3.4	115	U	1569	1050	U	19930	45	33	U	30	0.2	108	U	U	U	U	U	14	113	1245
	4-6	S-w4-3	1533	R	5	19	1.4	2111	111	U	9549	43	2.7	U	63	0.2	184	U	U	U	U	U	U	247	346
	6-8	S-w4-4A	2714	R	5.5	U	U	4593	990	U	10200	9.6	5.8	U	R	U	63	U	U	U	U	U	U	R	1074
	8-10	S-w4-4B	1[illegible]	[illegible]	[illegible]	[illegible]	U	2536	887	U	7843	5.2	7.7	U	R	U	22	U	U	U	U	U	U	R	526
	12-14	S-w4-5	4412	[illegible]	15	600	U	133600	22	U	29800	49	R	8299	1838	0.3	4.9	U	U	U	2597	U	U	35	95
	19-21	S-w4-6	2274	[illegible]	[illegible]	U	U	57200	69	U	8422	2.5	1.4	15100	192	U	52	U	U	U	U	U	U	79	125
w-5	[illegible]	S-w5-[illegible]	[illegible]		[illegible]	182	[illegible]	4181	856	339	16400	192	61	U	71	0.5	81	U	U	U	[illegible]	[illegible]	[illegible]	62	1545
	2-4	S-w5-2	[illegible]		[illegible]	128	U	5591	1045	357	19630	109	56	1340	88	0.6	67	U	U	U	R	U	14	54	1667
	6-8	S-w5-4A	432	R	9	371	2.7	10600	2508	1258	20900	374	487	3112	90	0.2	2957	2241	U	U	1635	U	15	469	7584
	8-10	S-w5-4B	5750	[illegible]	5	392	U	11400	1782	1366	25000	933	574	2174	89	0.2	1521	3361	U	U	2554	U	21	R	6106
	[illegible]	S-w5-5	45[illegible]	[illegible]	[illegible]	75	U	111800	33	13	21500	7.5	24	5576	1039	R	35	U	U	U	[illegible]	U	U	67	133
	14-16	S-w5-6	3356	[illegible]	9.7	U	U	76000	200	74	12600	5.1	U	17500	180	U	155	U	U	U	U	U	12	108	444
	24-26	S-w5-7	2517	[illegible]	7.2	U	U	95300	107	35	7590	3.6	U	19900	277	U	68	U	U	U	U	U	U	66	221
w-6	0-2	S-w6-1	3157	[illegible]	21	122	1.2	15300	479	105	10600	109	74	6667	225	U	54	U	2	3.3	U	U	15	50	842
	2-4	S-w6-2	4525	[illegible]	27	51	1.4	11400	150	50	12030	61	R	3512	500	0.2	62	U	U	2.5	U	U	14	71	350
	4-6	S-w6-3	7313	[illegible]	U	95	1.5	17900	157	69	31400	38	R	1751	237	0.2	41	U	U	U	U	U	32	51	305
	6-8	S-w6-4	4631		R	222	U	1535	995	622	25200	37	R	U	30	U	484	1533	U	2.9	U	U	29	65	2140
	[illegible]	S-w6-5	[illegible]		[illegible]	166	U	57300	120	19	46500	20	R	7309	826	U	31	U	U	U	U	U	31	77	215
	12-14	S-w6-6A	3072		12	U	U	76400	70	U	11400	12	R	6146	650	U	16	U	1.3	U	U	U	U	23	110
	12-14	S-w6-6B	[illegible]	[illegible]	7.1	U	U	30500	159	11	13200	5	R	6193	712	U	18	U	1.3	U	U	U	U	26	250
	14-16	S-w6-7	2965			U	U	42900	272	27	9139	24	R	8521	205	U	35	U	U	U	U	U	14	22	359
	19-21	S-w6-8	[illegible]		[illegible]	U	U	58100	32	5.5	6175	2.9	R	13600	112	U	15	U	U	U	U	U	U	13	55

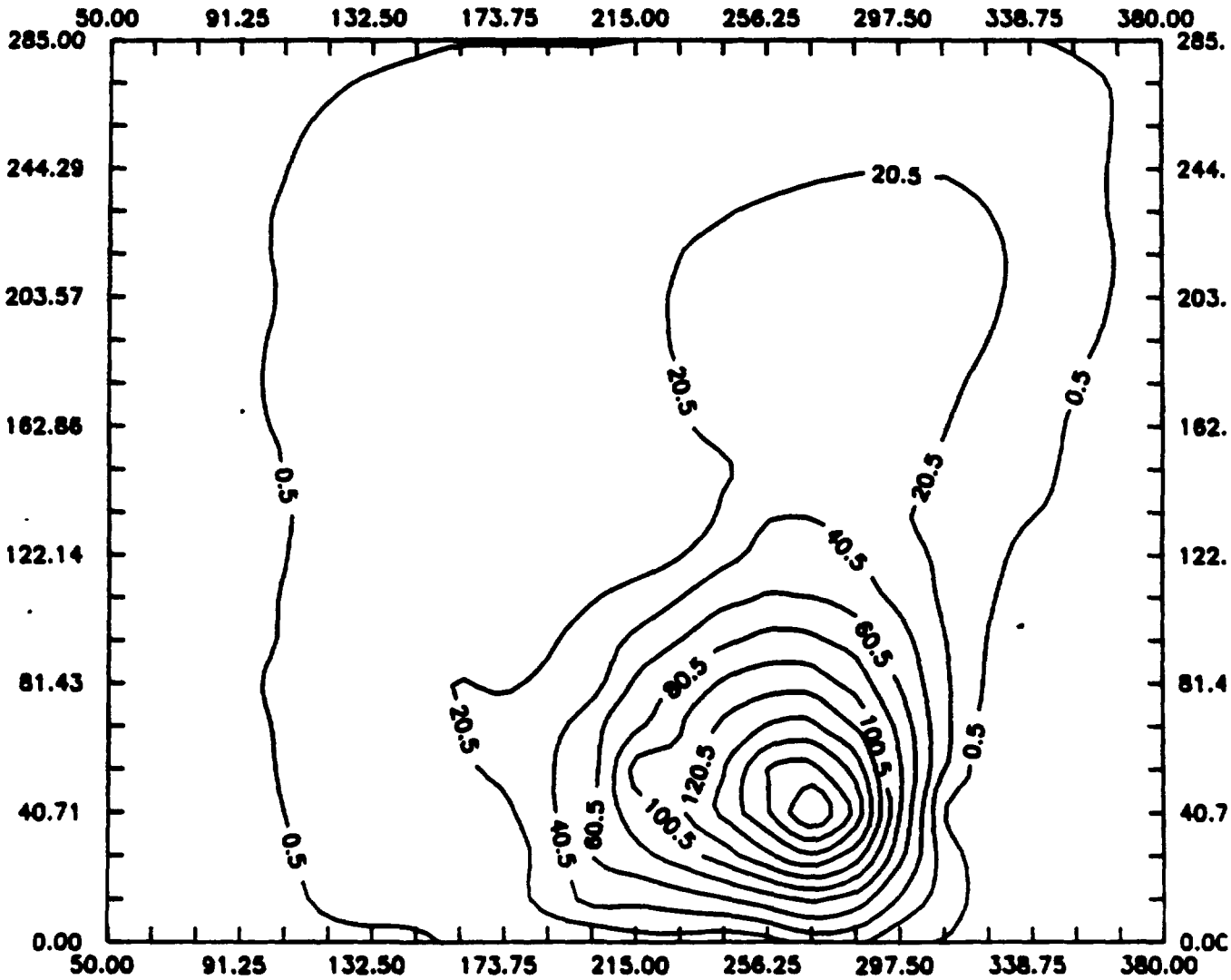
LEAD CONTOUR AT 0-2 ft DEPTH



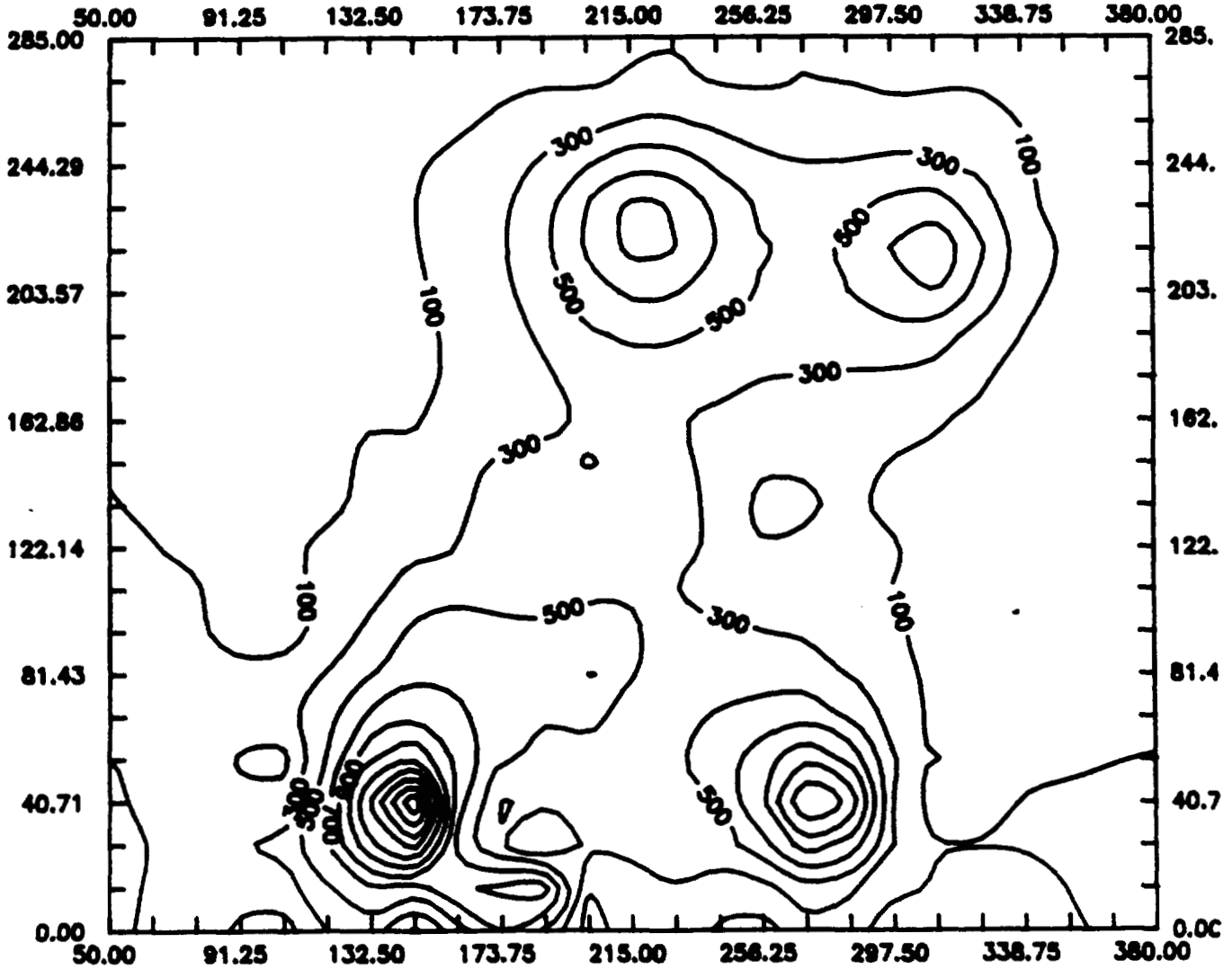
LEAD CONTOUR AT 2–4 ft DEPTH



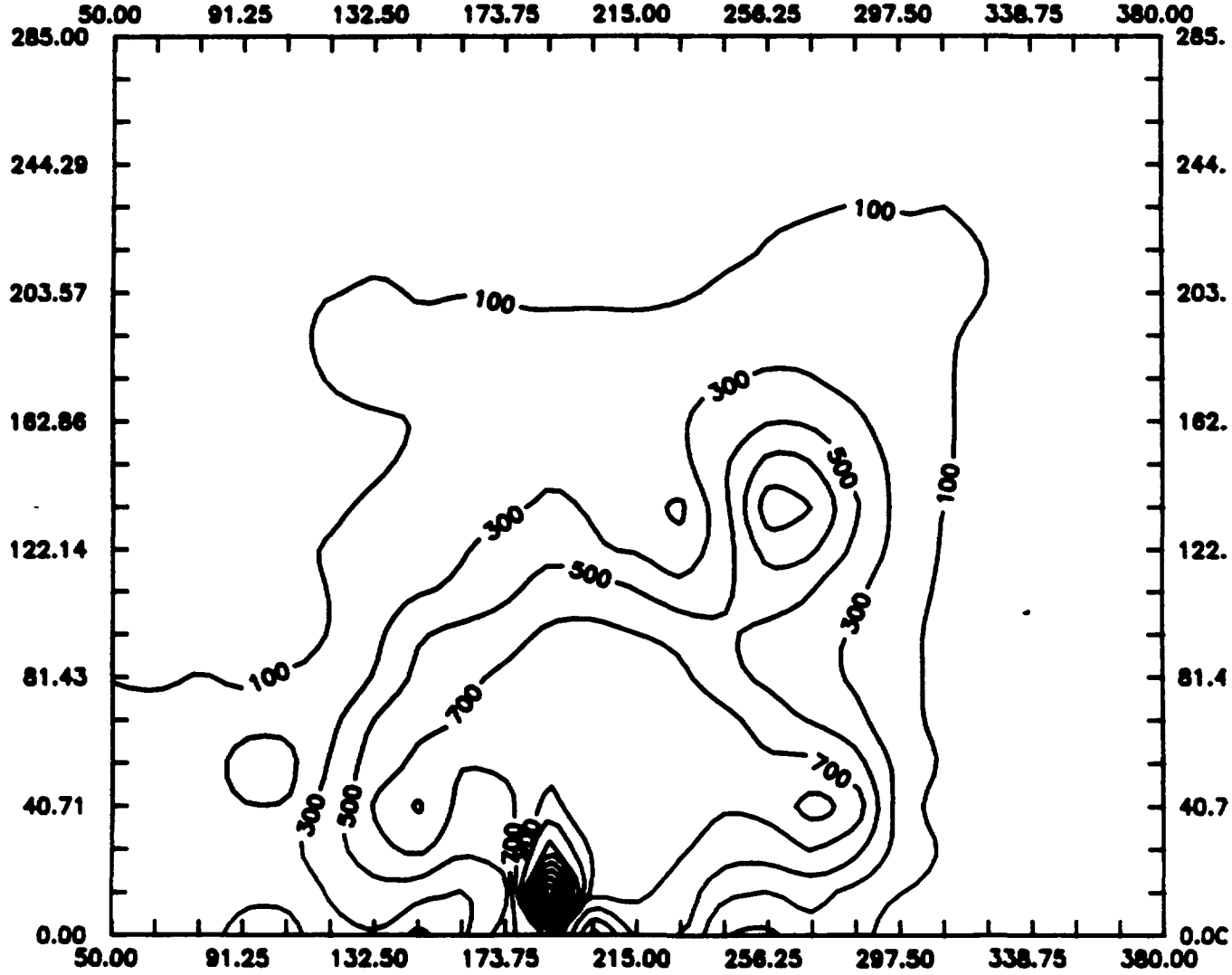
LEAD CONTOUR AT 4-6 ft DEPTH



CHROMIUM CONTOUR AT 0–2 ft DEPTH



CHROMIUM CONTOUR AT 2–4 ft DEPTH



CHROMIUM CONTOUR AT 4–6 ft DEPTH

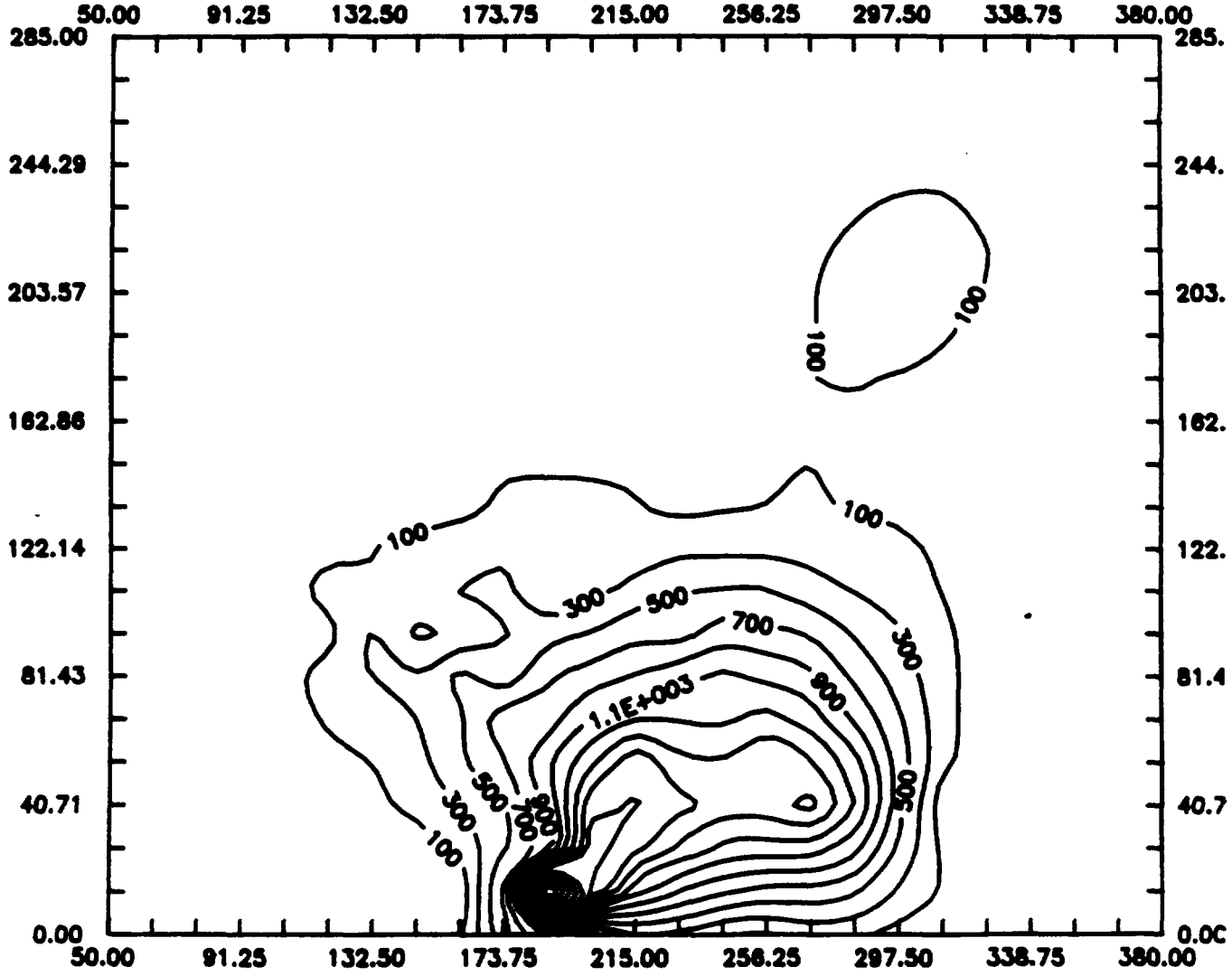
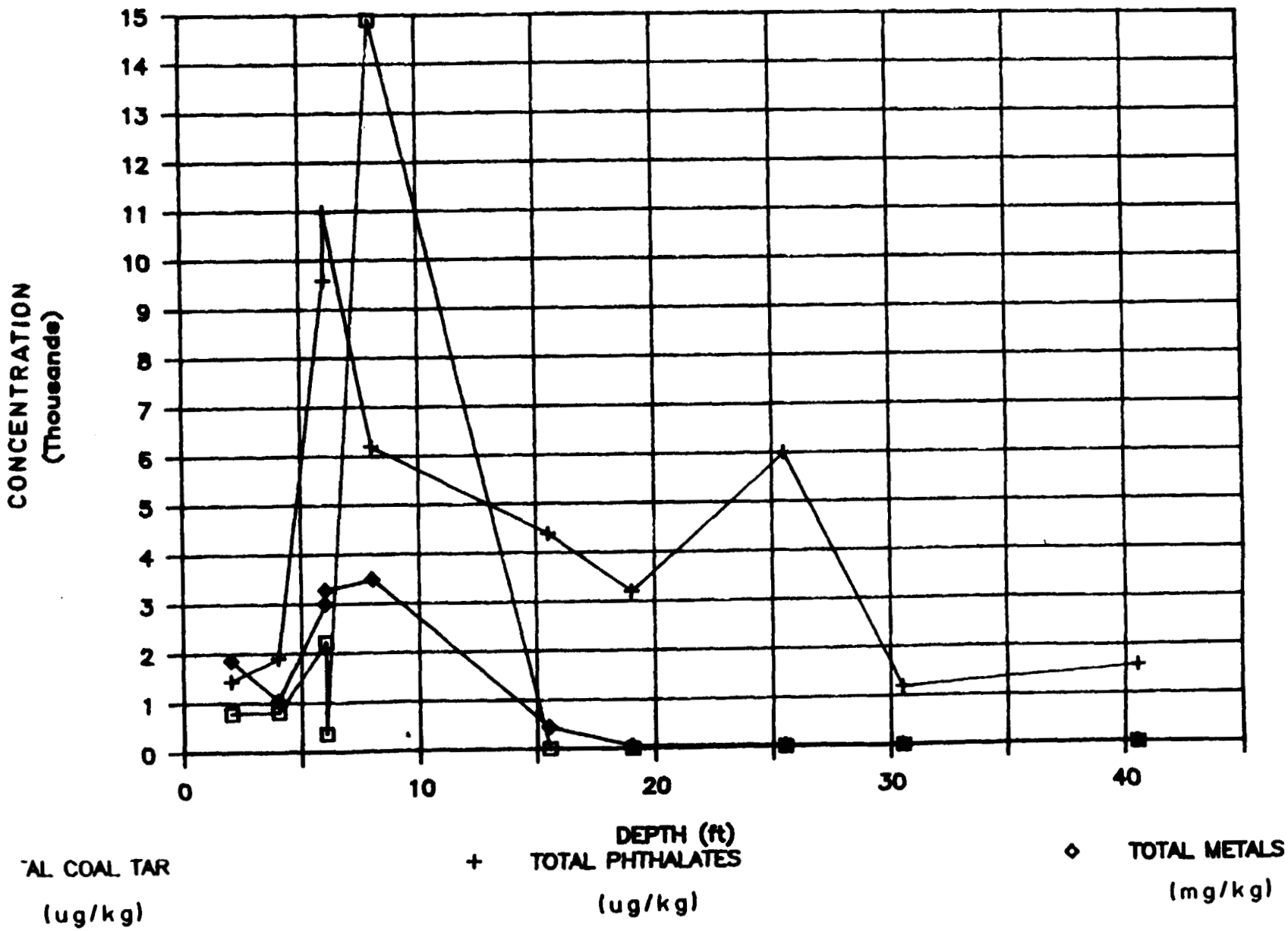
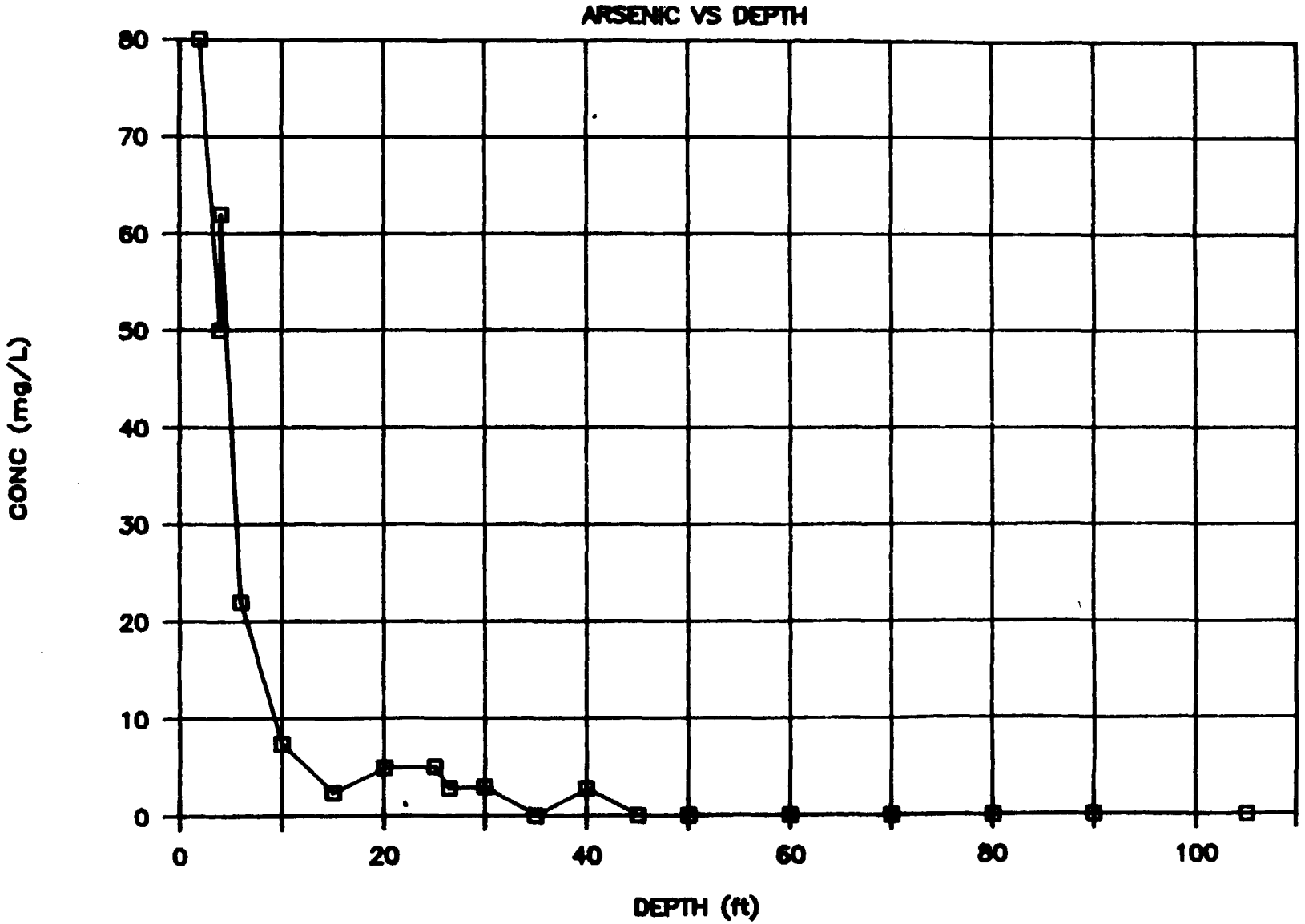


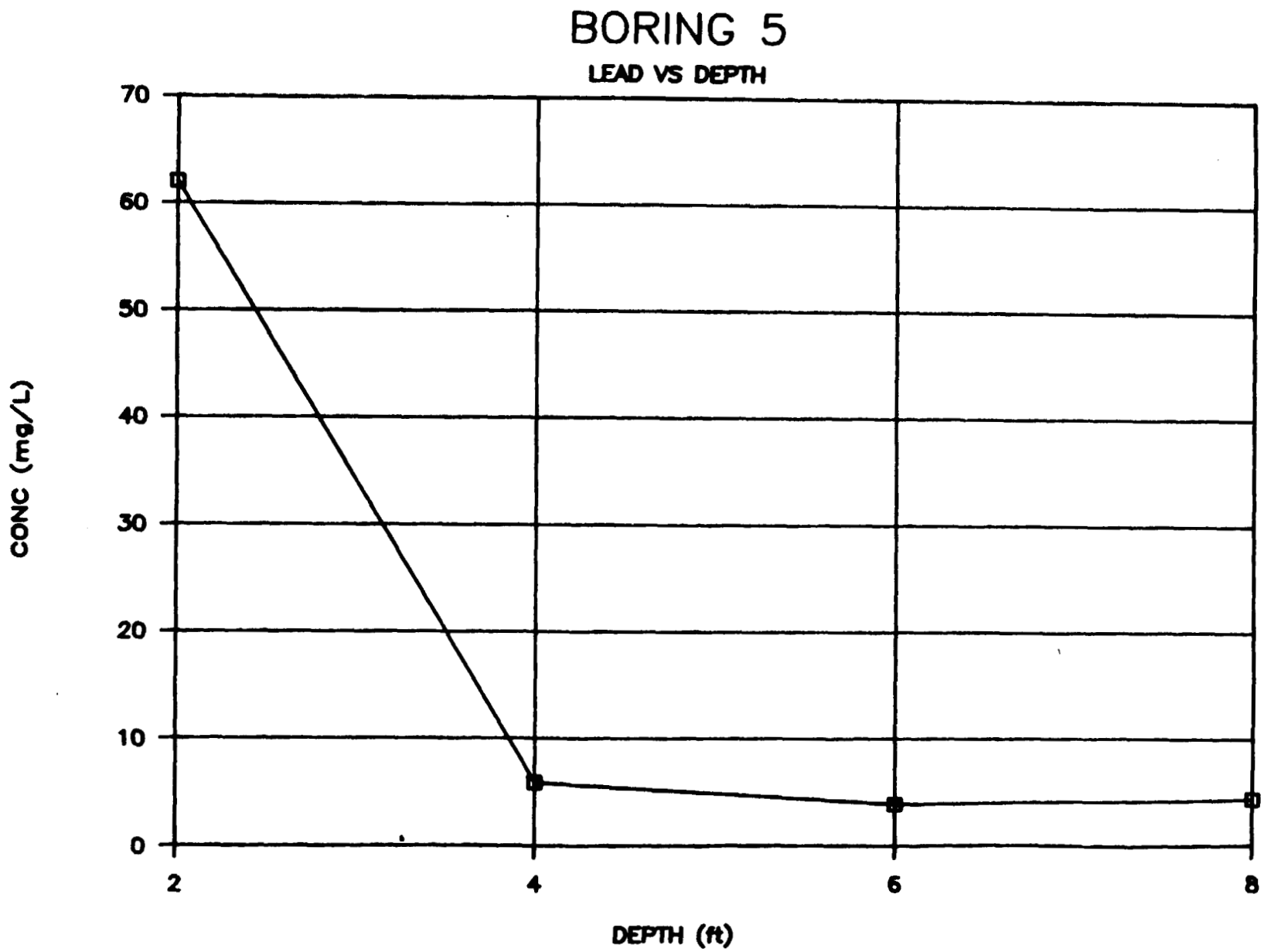
FIGURE 1-13

CONTAMINANT PROFILES IN W-3B

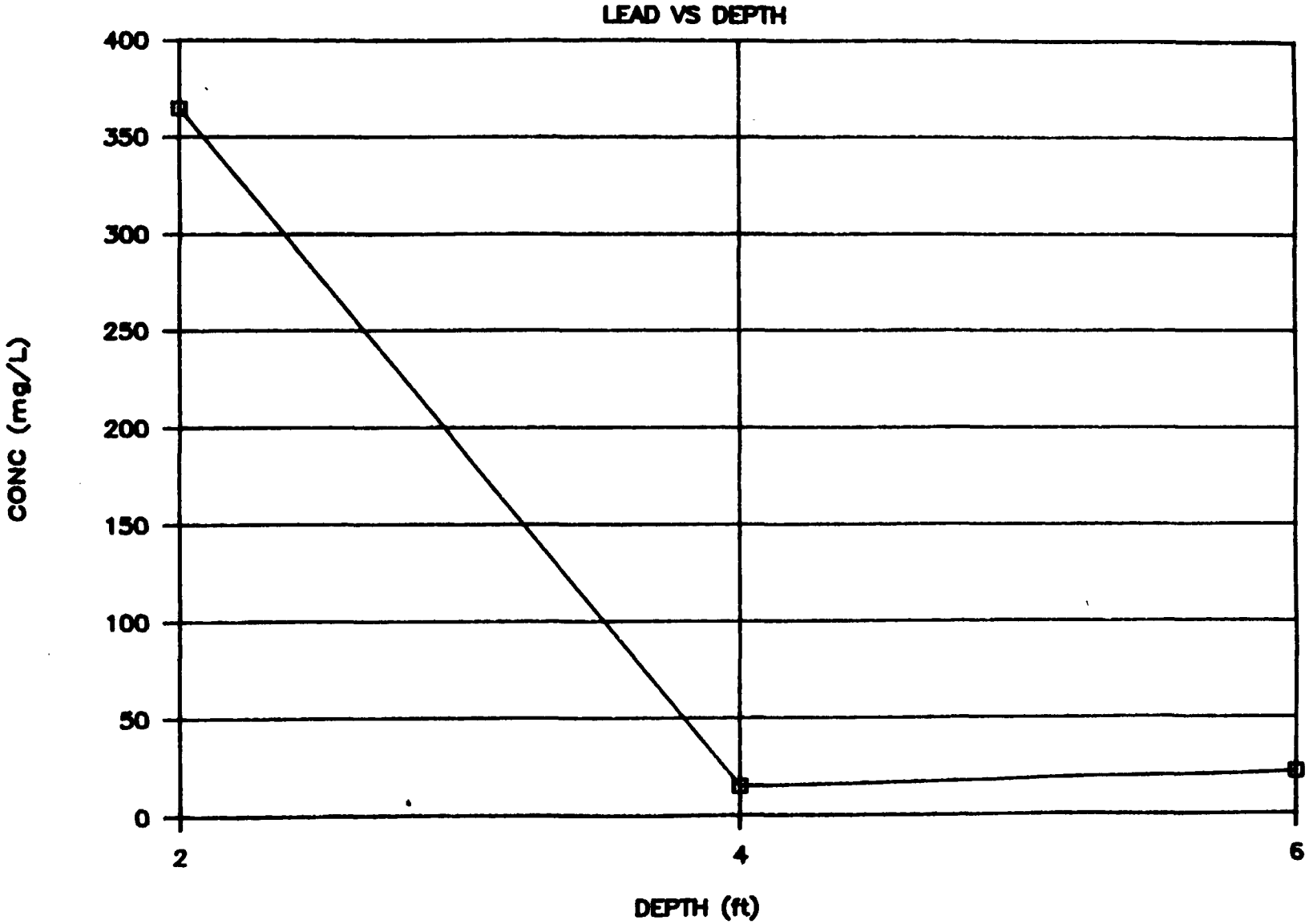


BORING 1

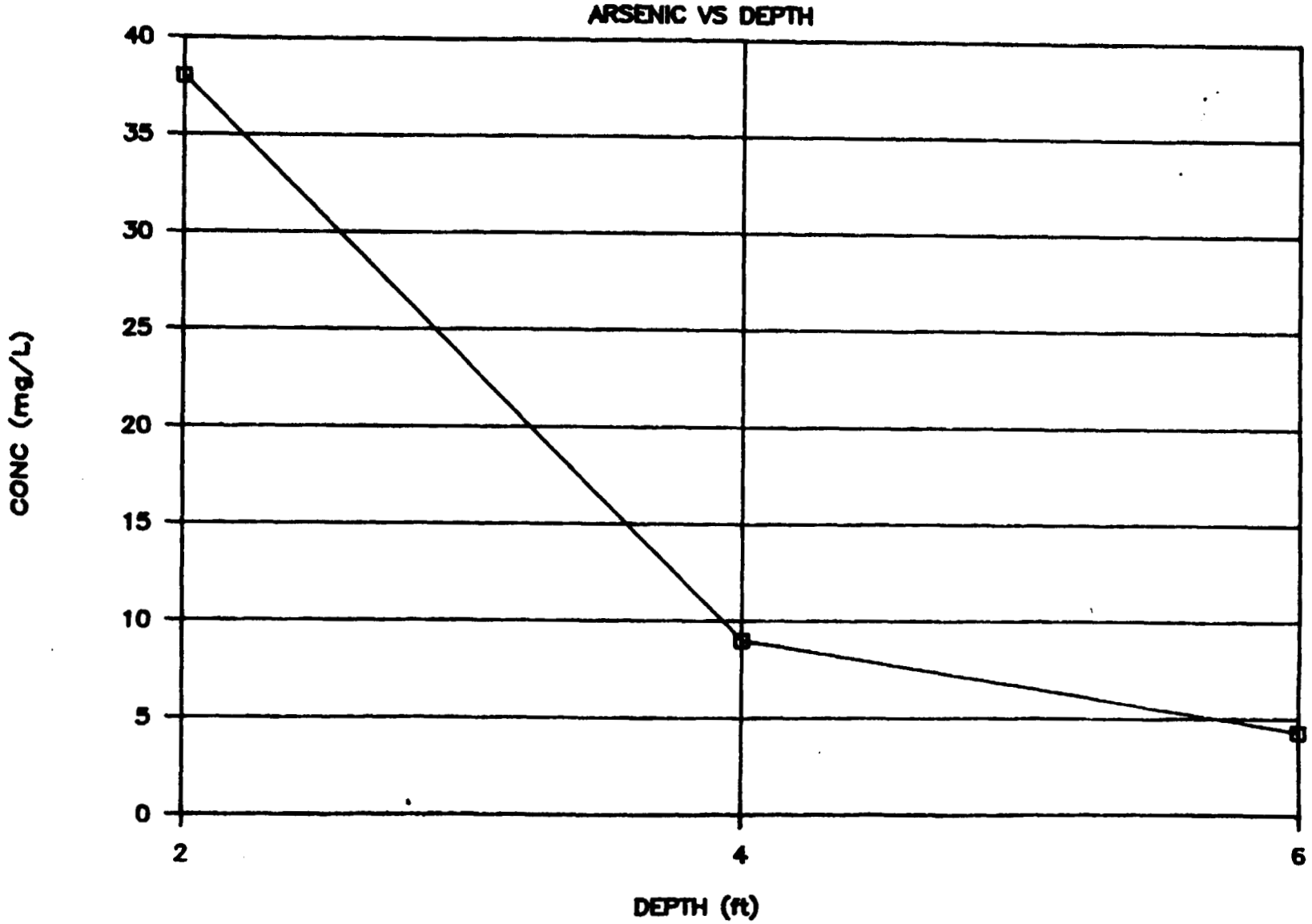

ARSENIC VS DEPTH
CONC (mg/L)
80
70
60
50
40
30
20
10
0
0
20
40
60
80
100
DEPTH (ft)


BORING 5
LEAD VS DEPTH
CONC (mg/L)
70
60
50
40
30
20
10
0
2
4
6
8
DEPTH (ft)

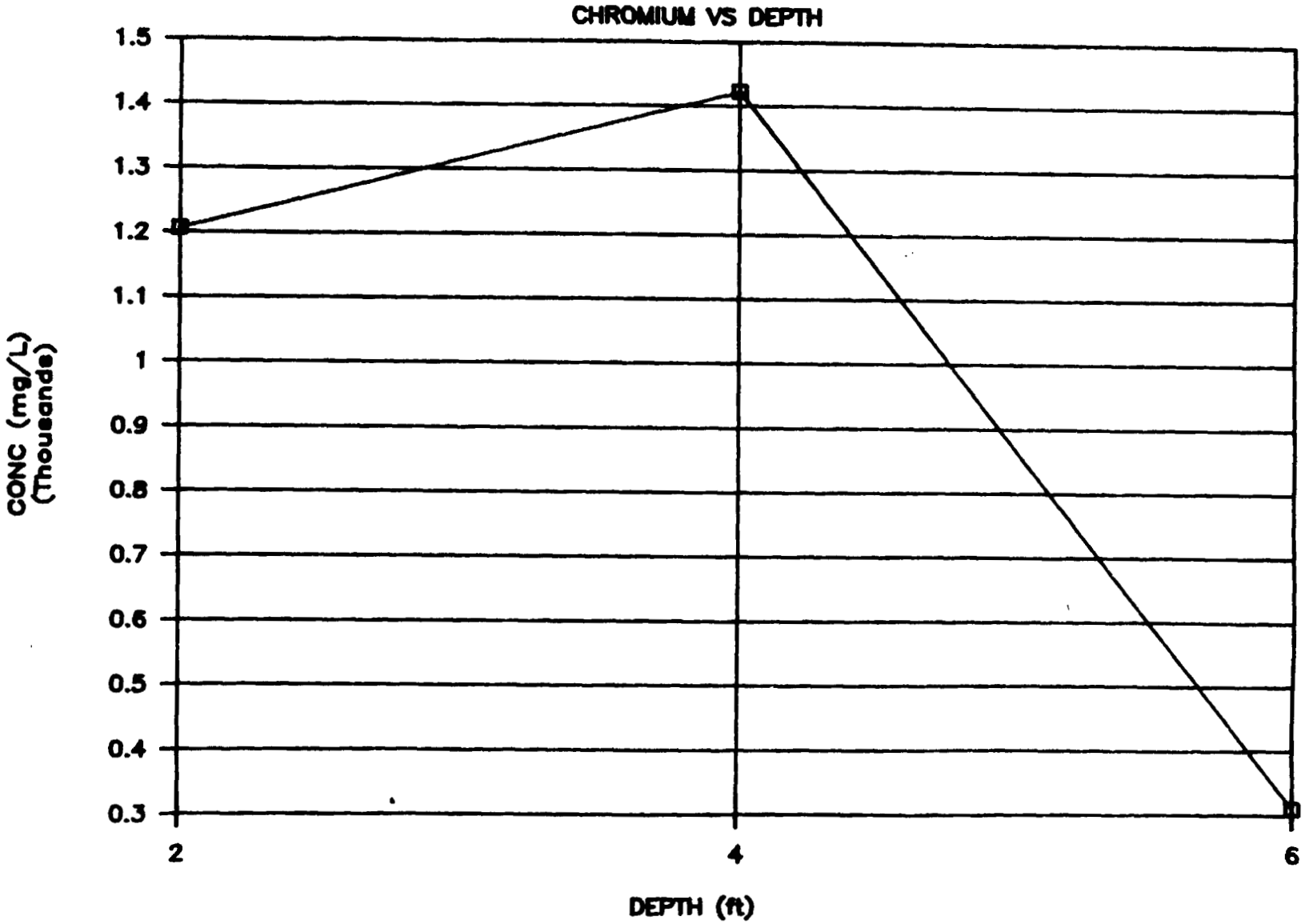
BORING 6


LEAD VS DEPTH
400
350
300
250
200
150
100
50
0
CONC (mg/L)
2
4
6
DEPTH (ft)

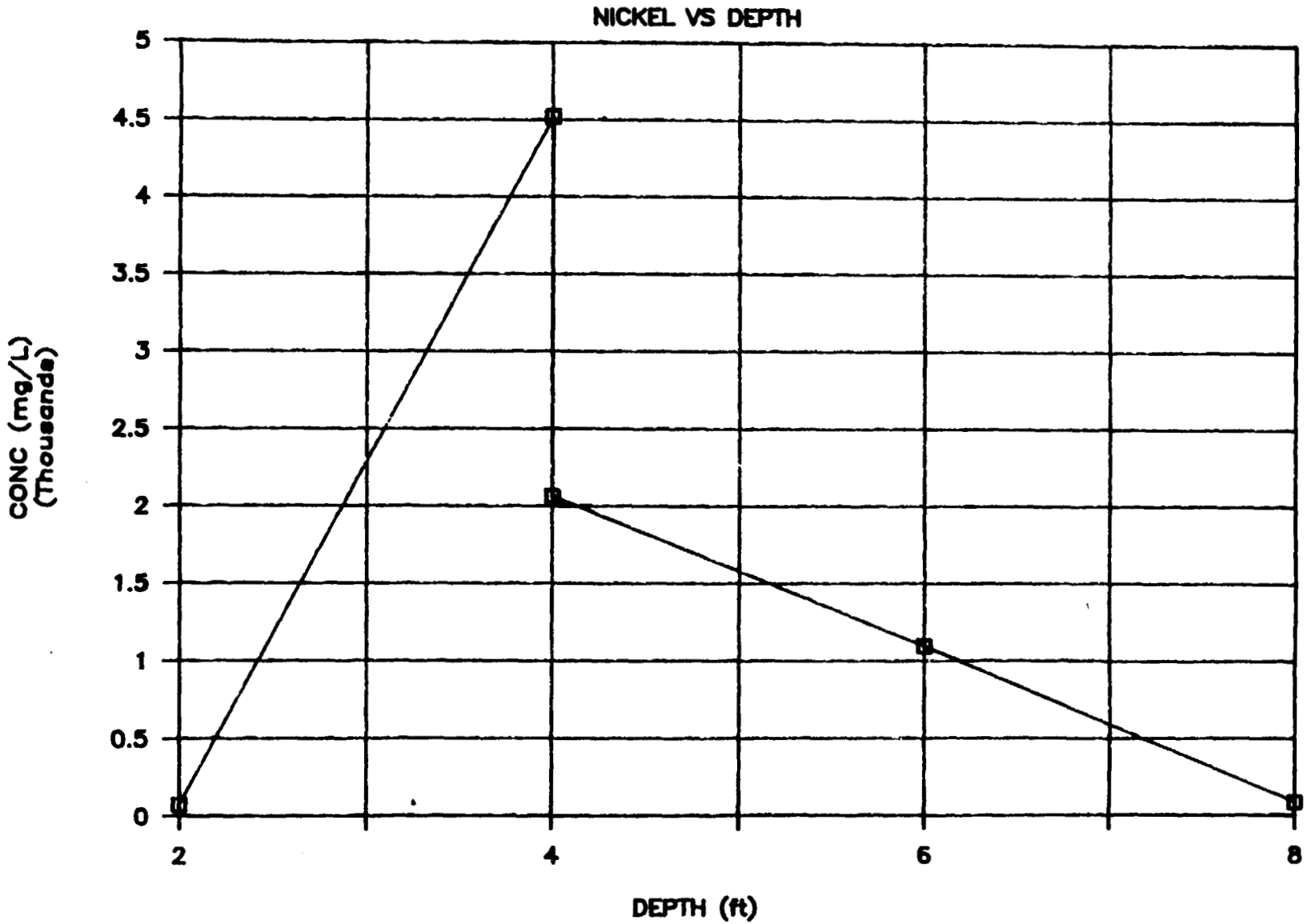
BORING 6



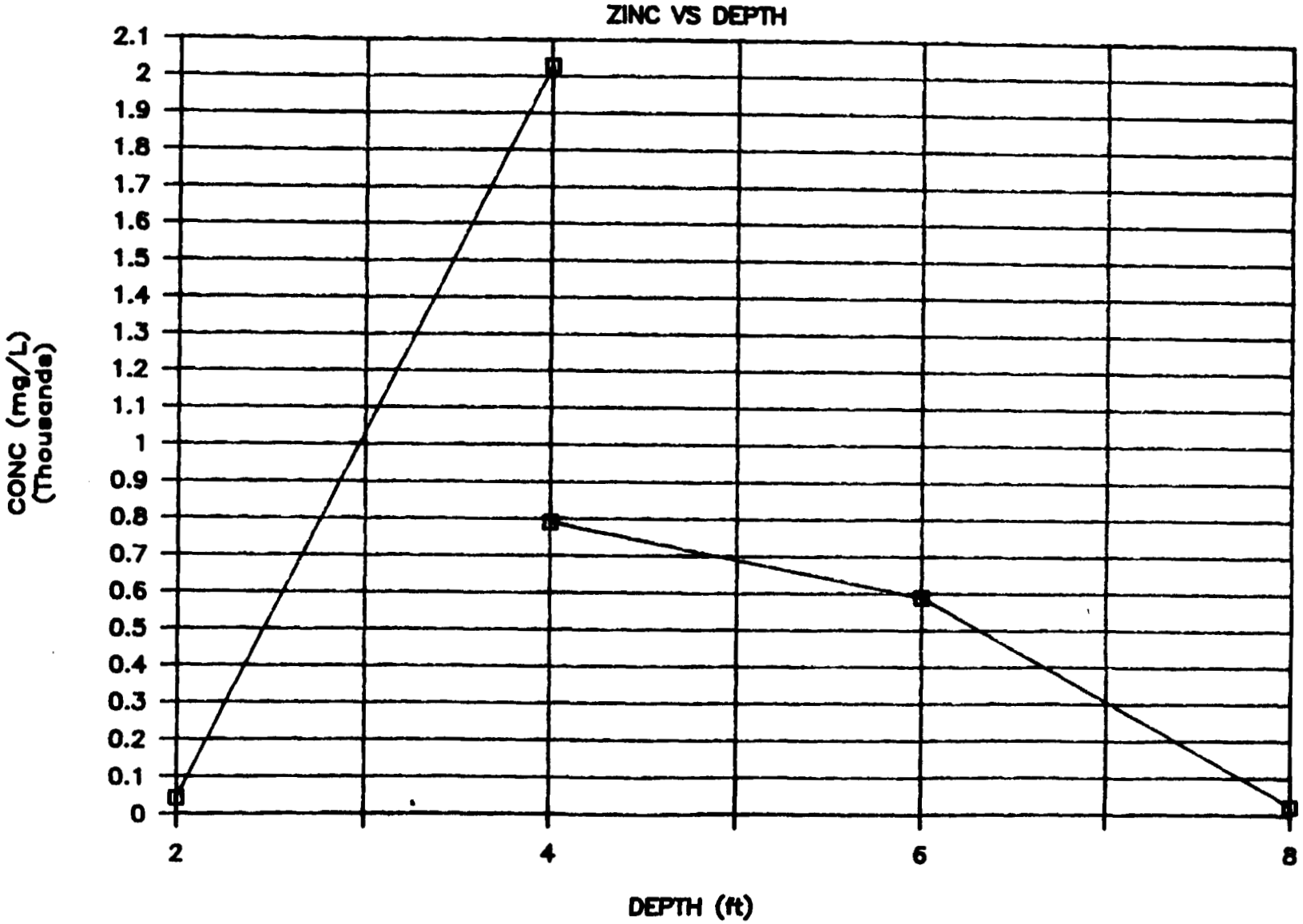
BORING 6


CHROMIUM VS DEPTH
CONC (mg/L)
(Thousands)
1.5
1.4
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
2
4
6
DEPTH (ft)

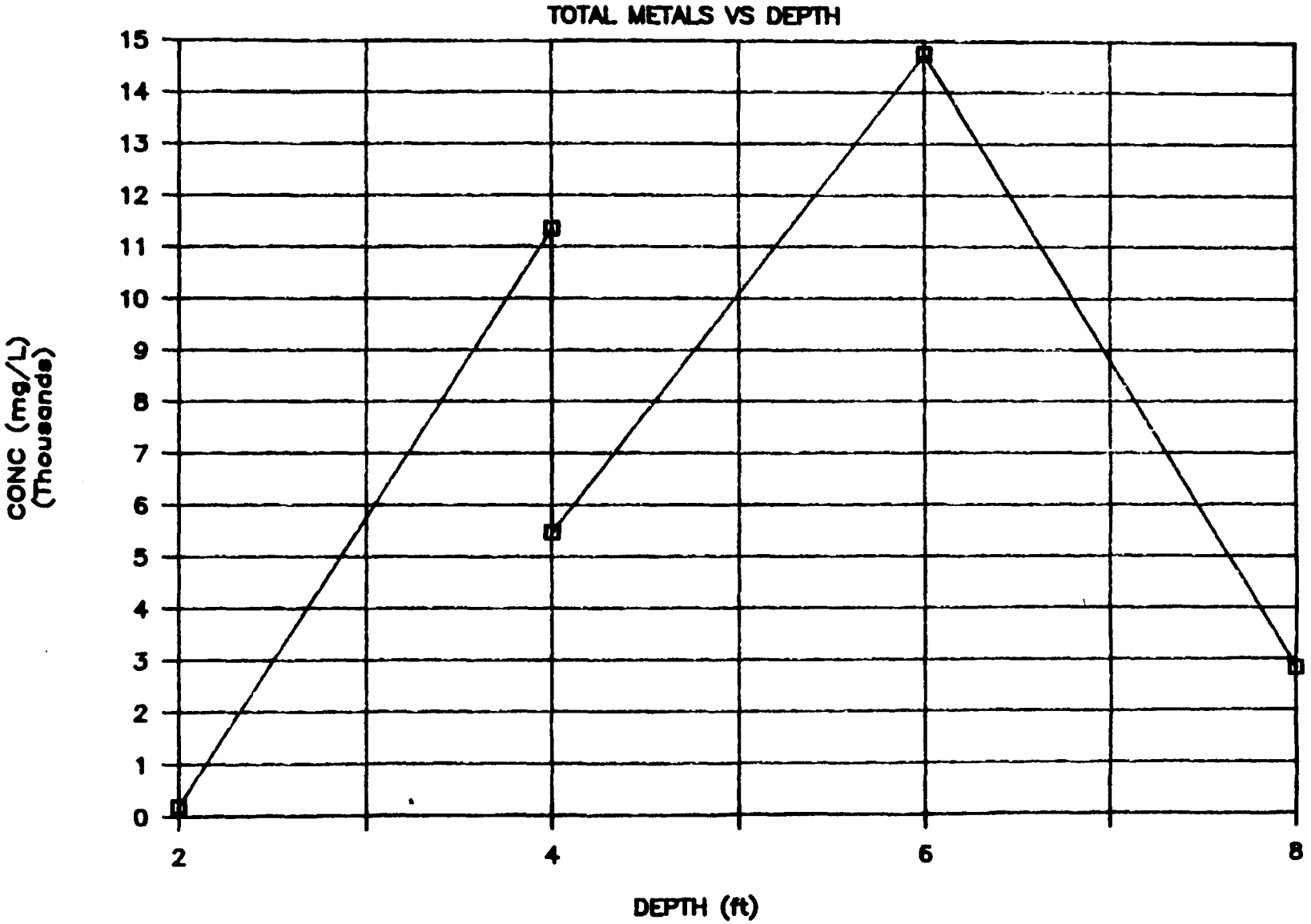
BORING 7


NICKEL VS DEPTH
CONC (mg/L)
(Thousands)
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
2
4
6
8
DEPTH (ft)

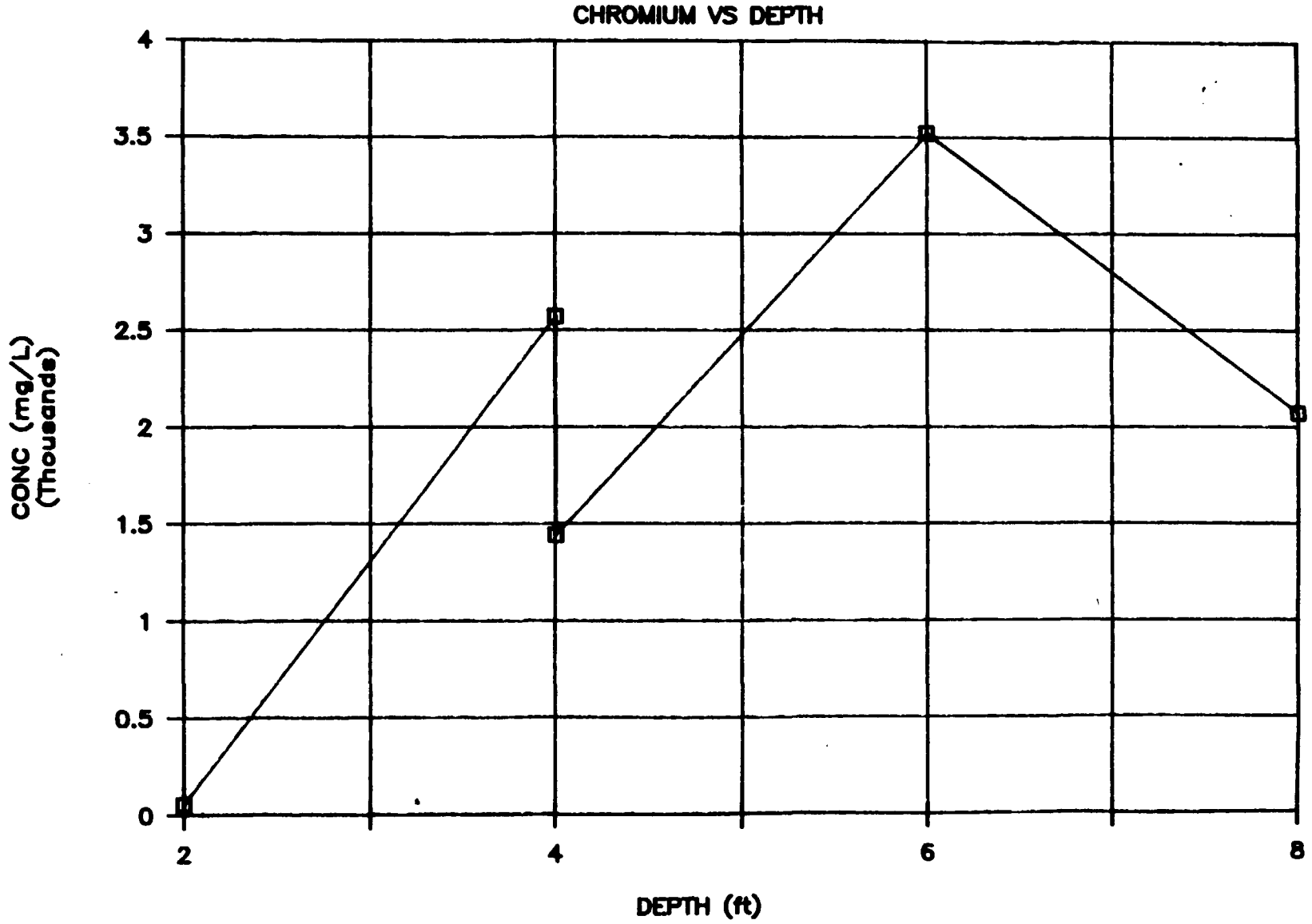
BORING 7


ZINC VS DEPTH
CONC (mg/L)
(Thousands)
2.1
2
1.9
1.8
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
2
4
6
8
DEPTH (ft)

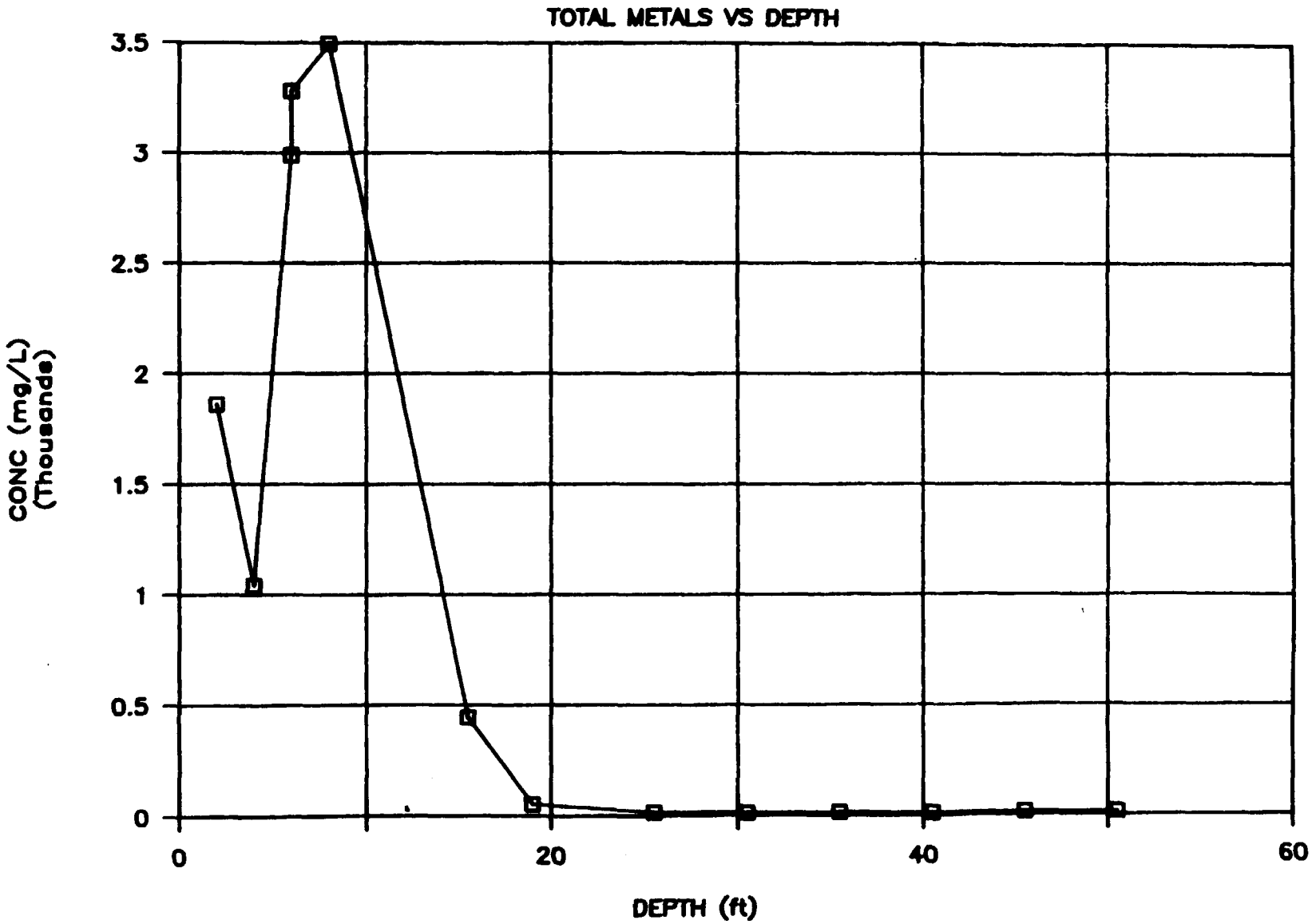
BORING 7


TOTAL METALS VS DEPTH
CONC (mg/L)
(Thousands)
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
0
2
4
6
8
DEPTH (ft)

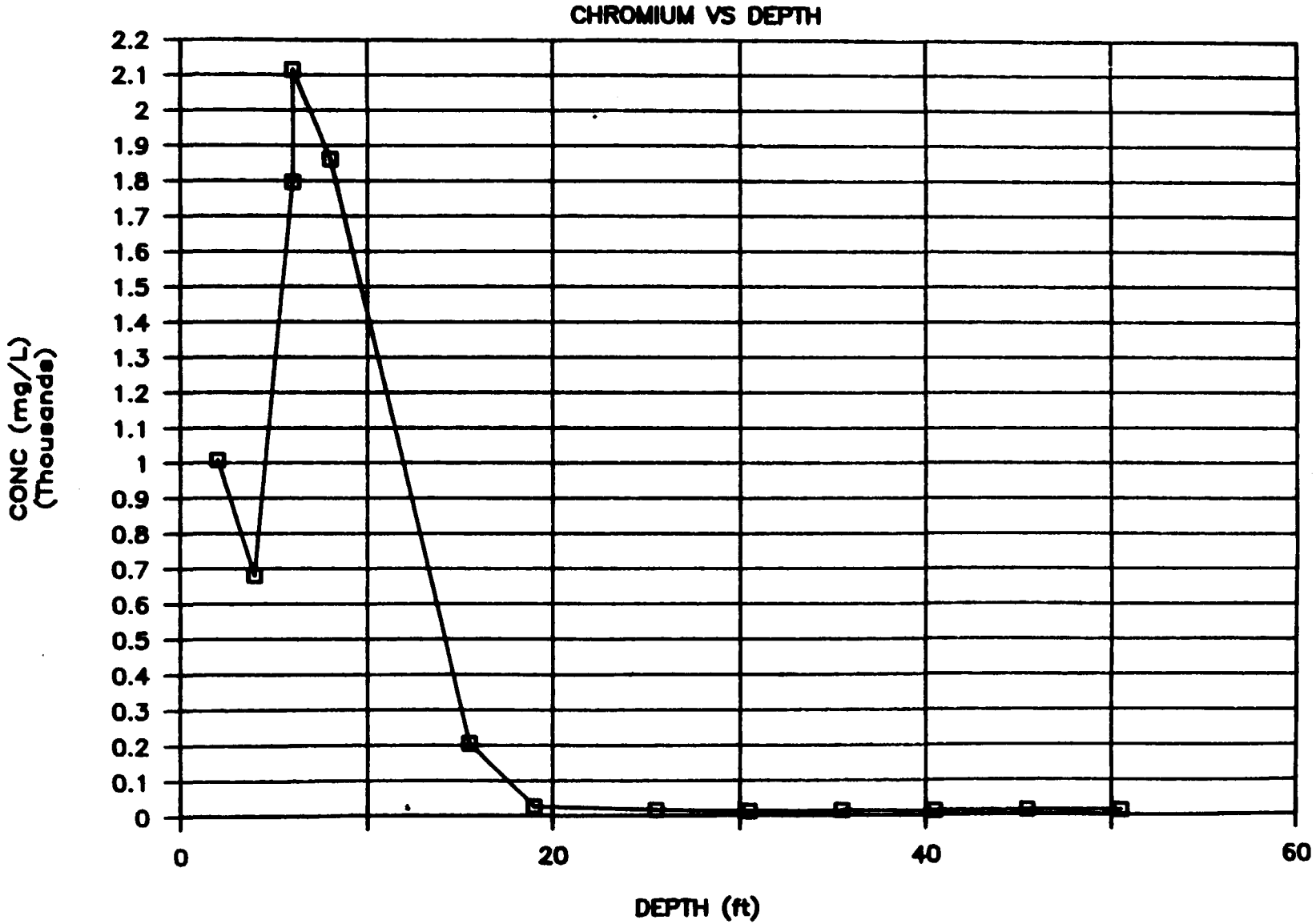
BORING 7


CHROMIUM VS DEPTH
CONC (mg/L)
(Thousands)
4
3.5
3
2.5
2
1.5
1
0.5
0
2
4
6
8
DEPTH (ft)

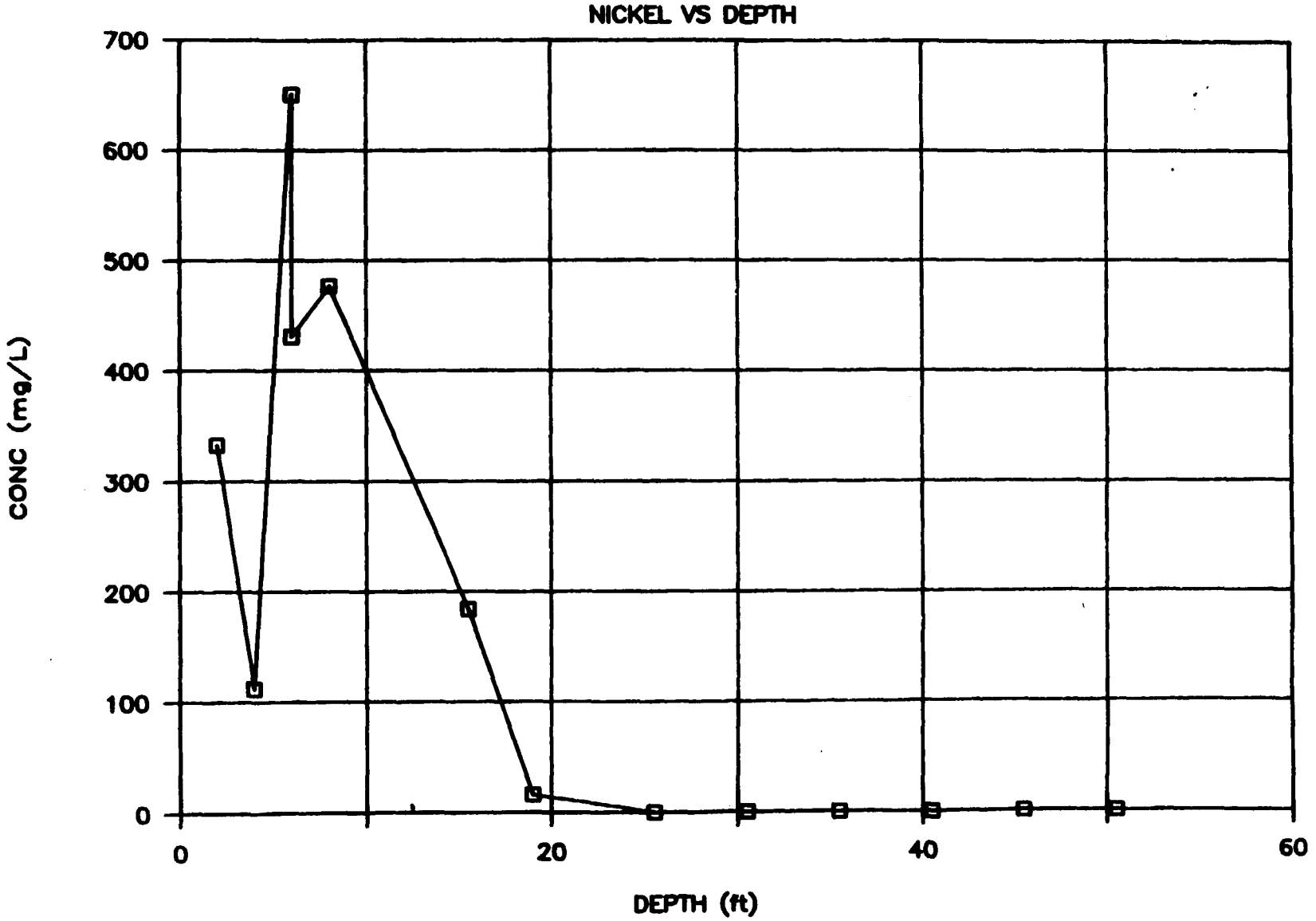
MONITORING WELL 3



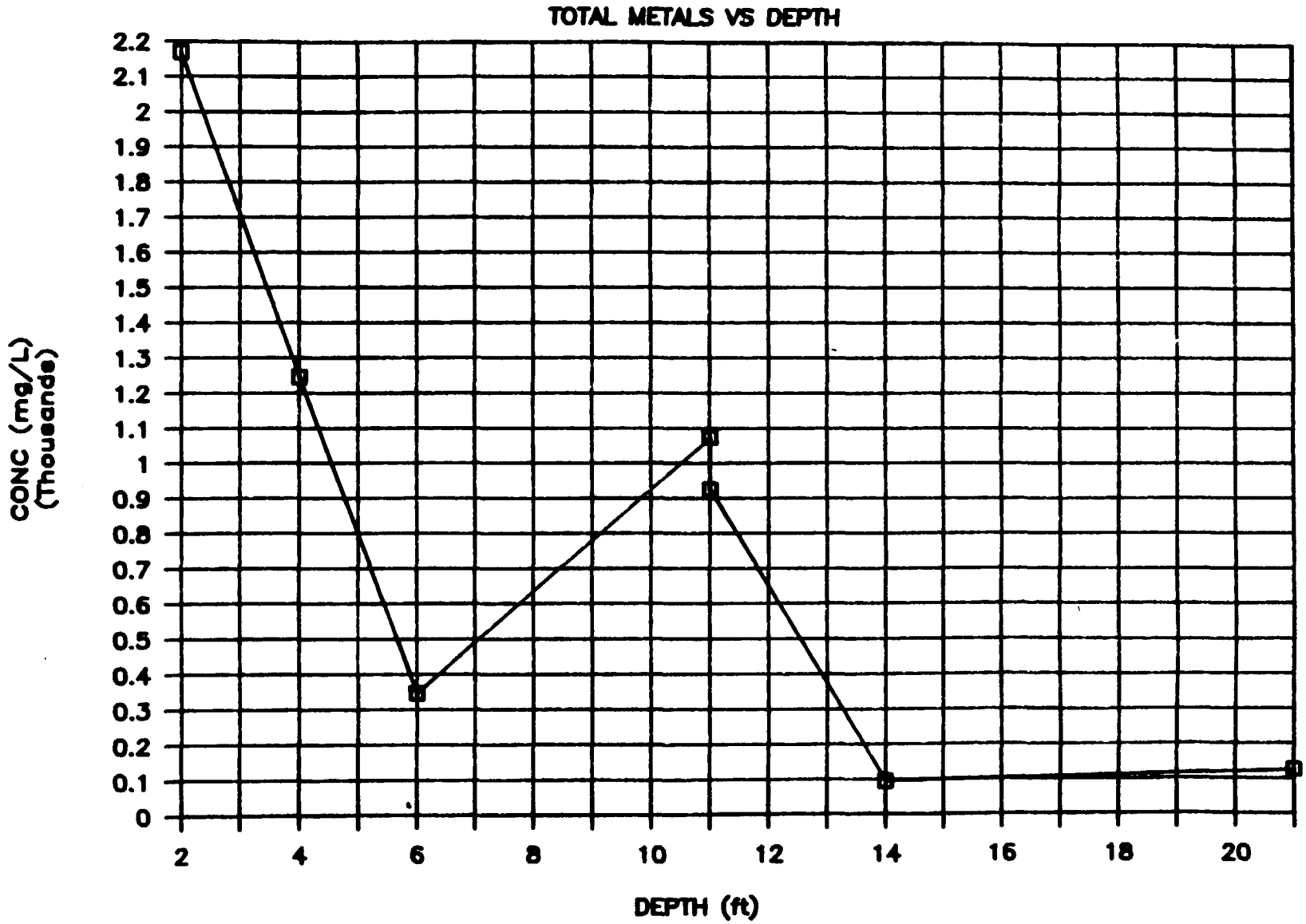
MONITORING WELL 3



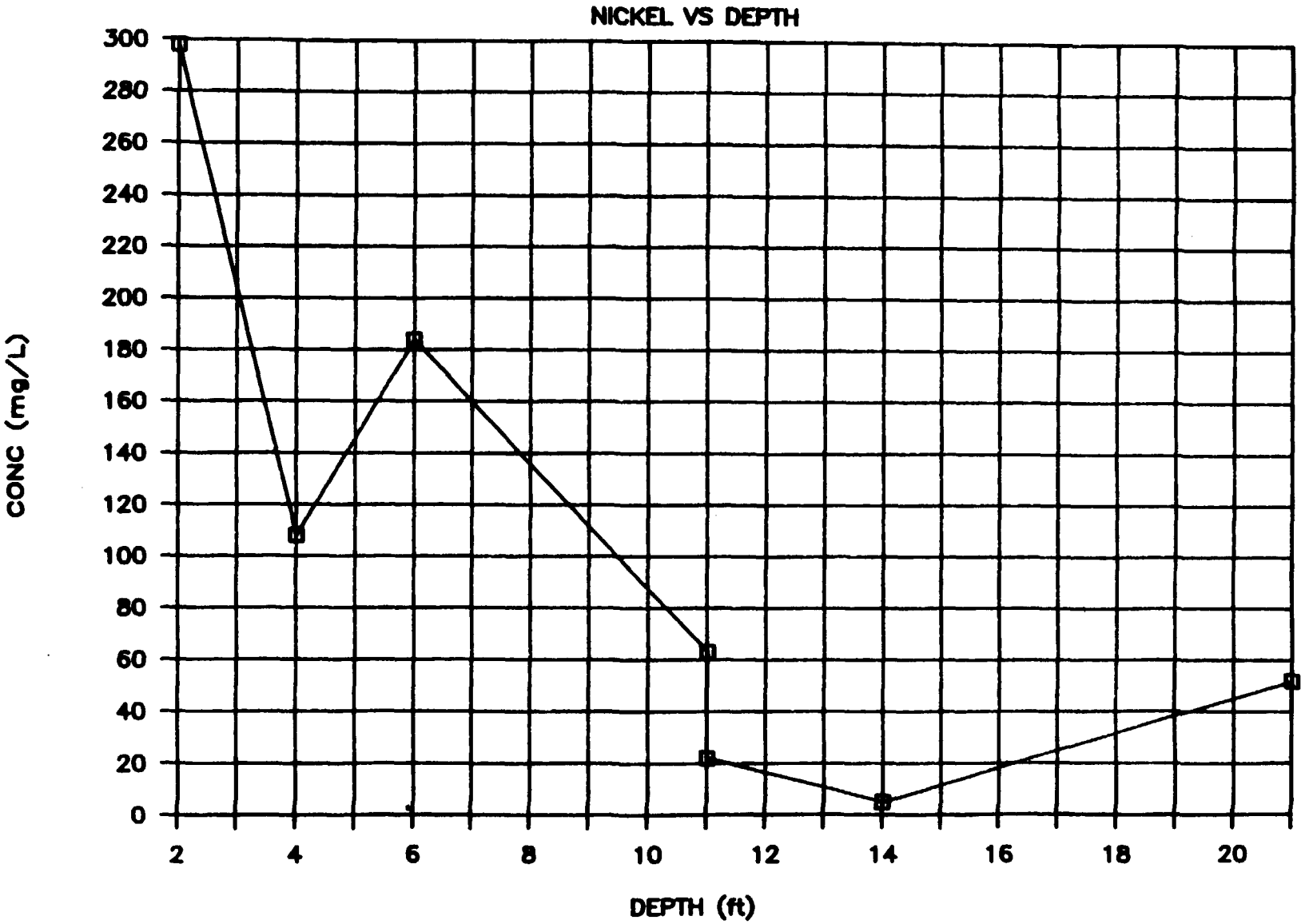
MONITORING WELL 3



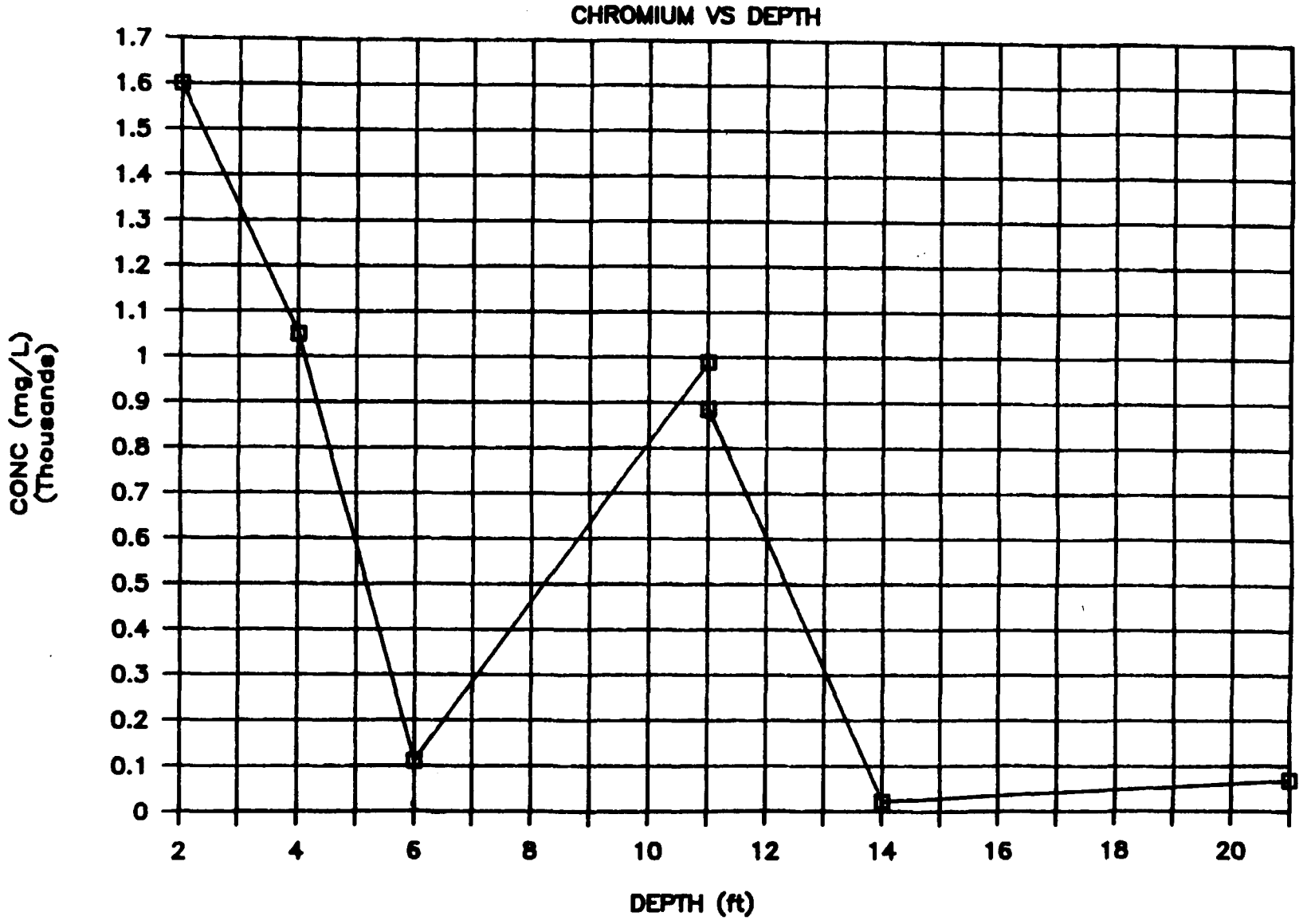
MONITORING WELL 4



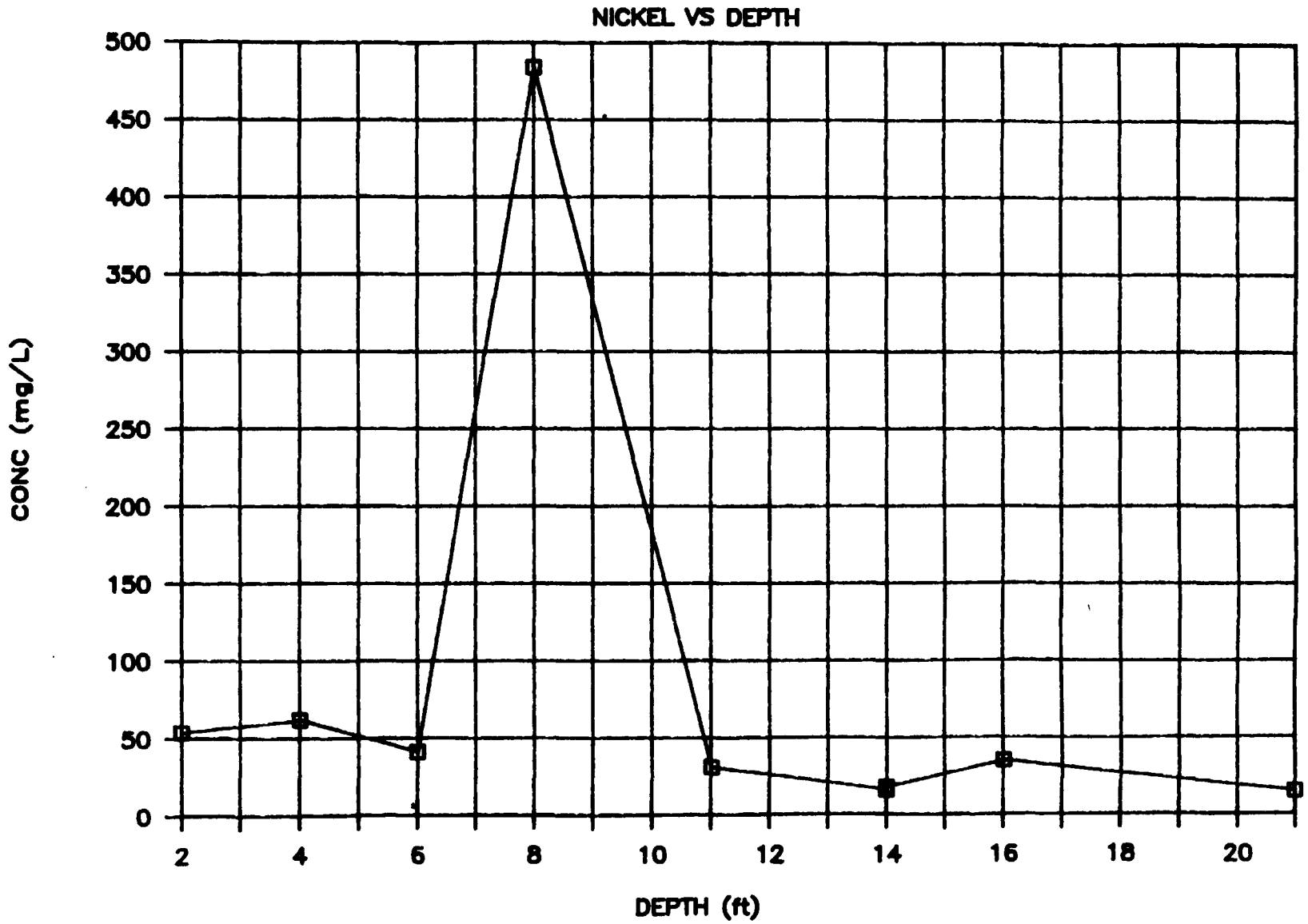
MONITORING WELL 4



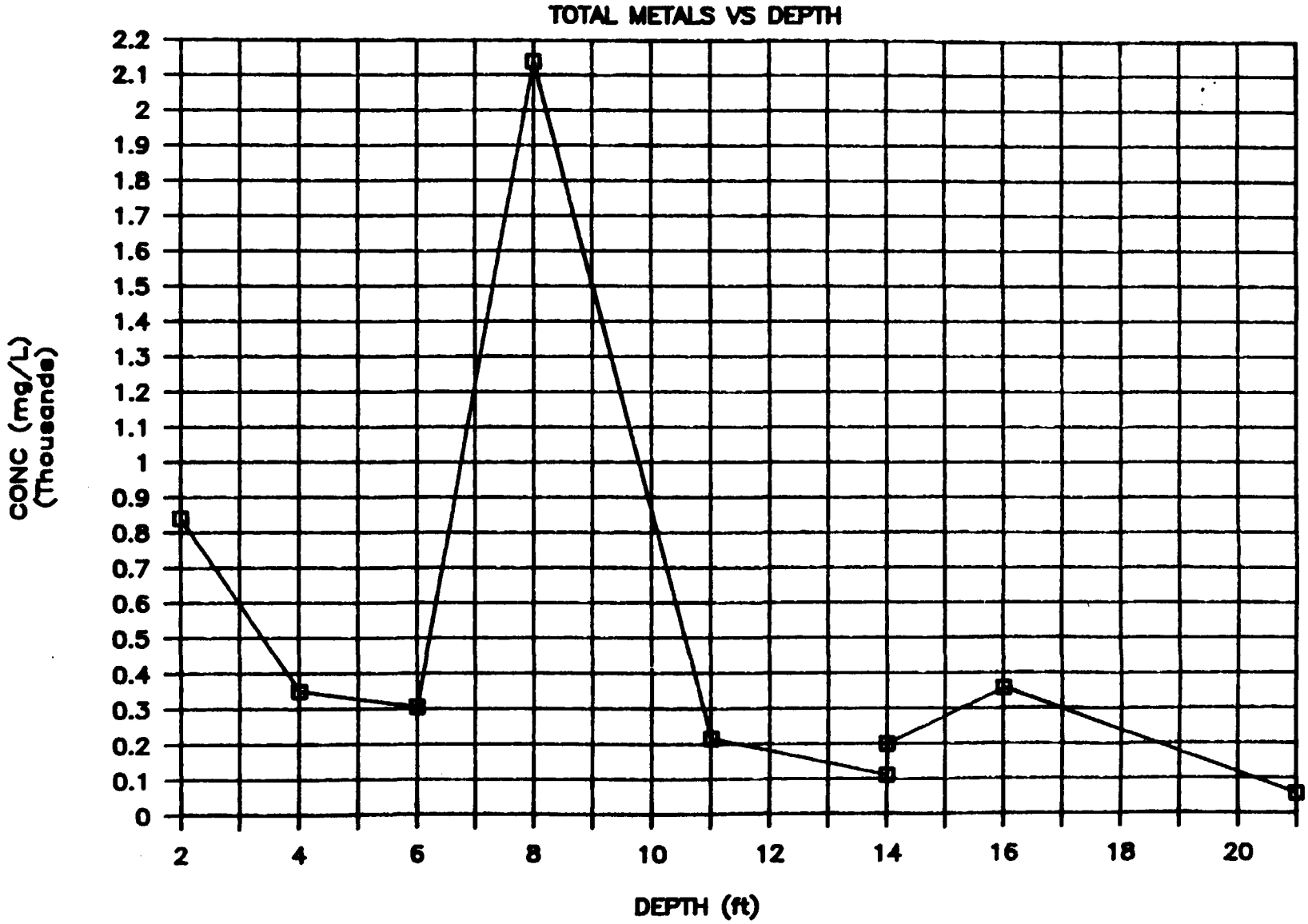
MONITORING WELL 4



MONITORING WELL 6



MONITORING WELL 6



APPENDIX E

QUANTITY ESTIMATE CALCULATIONS

BY VT DATE 5/3/85

CHK'D _____ DATE _____

HART ENGINEERS, INC.

SUBJECT ~~Auto Lon~~

Soil Quantity Estimates

Entire Site:

$250' \times 270' - (\frac{1}{2}(20' \times 160')) - (50' \times 110')$

$= 60{,}400$ sq. ft.

Areas:

Quadrangle I: $(135' \times 100') = 13{,}500$ sq ft

Quadrangle II: $(80' \times 50') + (60' \times 50') = 7{,}000$ sq ft

Quadrangle III: $(160' \times 110') = 17{,}600$ sq ft

Quadrangle IV: $(135' \times 160') = 21{,}600$ sq ft

$59{,}700$ sq ft

Depth to groundwater:

Quadrangle I: 8'

Quadrangle II: 9.5'

Quadrangle III: 8'

Quadrangle IV: 8.5'

Volume to groundwater:

Quad I: $8' \times 13500 = 108{,}000$ cu ft

Quad II: $9.5' \times 7000 = 66{,}500$ cu ft

Quad III: $8' \times 17600 = 140{,}800$ cu ft

Quad IV: $8.5' \times 21600 = 183{,}600$ cu ft

$498{,}900$ cu. ft

$= 18478$ cu yd

BY _____ DATE _____	HART ENGINEERS, INC.	SHEET 2 OF ___ PAGE
CHK'D _____ DATE _____		

SUBJECT Quantity of Soils to be Excavated JOB NO.
Clean-up levels As = 15 ppm (Above)
Pb = 20 ppm (Below)

Quad I:

Volume (0'-8') = 108,000 cu.ft.

Quad II: Volume (0'-4') = 28,000 cu.ft.

Quad III: Volume (0'-8') = 140,800 cu.ft.

Quad IV: Volume (0'-4') = 86,400 cu.ft.

Total 363,200 cu.ft.

= 13,452 cu.yd.

BY _____ DATE _____ CHK'D _____ DATE _____	HART ENGINEERS, INC.	SHEET 3 OF ___ PAGE

SUBJECT Quantity of Soil above background and above g/w JOB NO.

Quad I : (0'-8') Volume = 108,000 cu ft

Quad II : (0'-9.5') Volume = 66,500 cu ft

Quad III : (0'-8') Volume = 140,800 cu ft

Quad IV : (0'-8.5') Volume = 183,600 cu ft

498,900 cu ft
= 18478 cu. yd

BY _____ DATE _____ CHK'D _____ DATE _____	HART ENGINEERS, INC.	SHEET 1 OF ___ PAGE

SUBJECT Quantity Estimates for each Alternative JOB NO.

Alternative 1 — 0

Alternative 3 —

Stabilization — ~~363,200~~ 498,900 cu.ft.

Capping — 60,400 sq. ft.

Alternative 7 —

Excavation — ~~363,200~~ 498,900 cu.ft.

Stabilization — ~~363,200~~ 498,900 cu. ft.

Disposal — ~~365,000~~ cu. ft

Alternative 5 —

Excavate — 498,900 cu. ft

Stabilize — 498,900 cu. ft

Disposal — 500,000 cu. ft

Alternative 10 —

Excavate — 498,900 cu. ft

Incinerate — 498,900 cu. ft.

Ash Disposal — ~~85~~ %

Capping — ~~[illegible]~~ sq ft

[illegible]

[illegible]

[illegible]

[illegible] sq. ft.

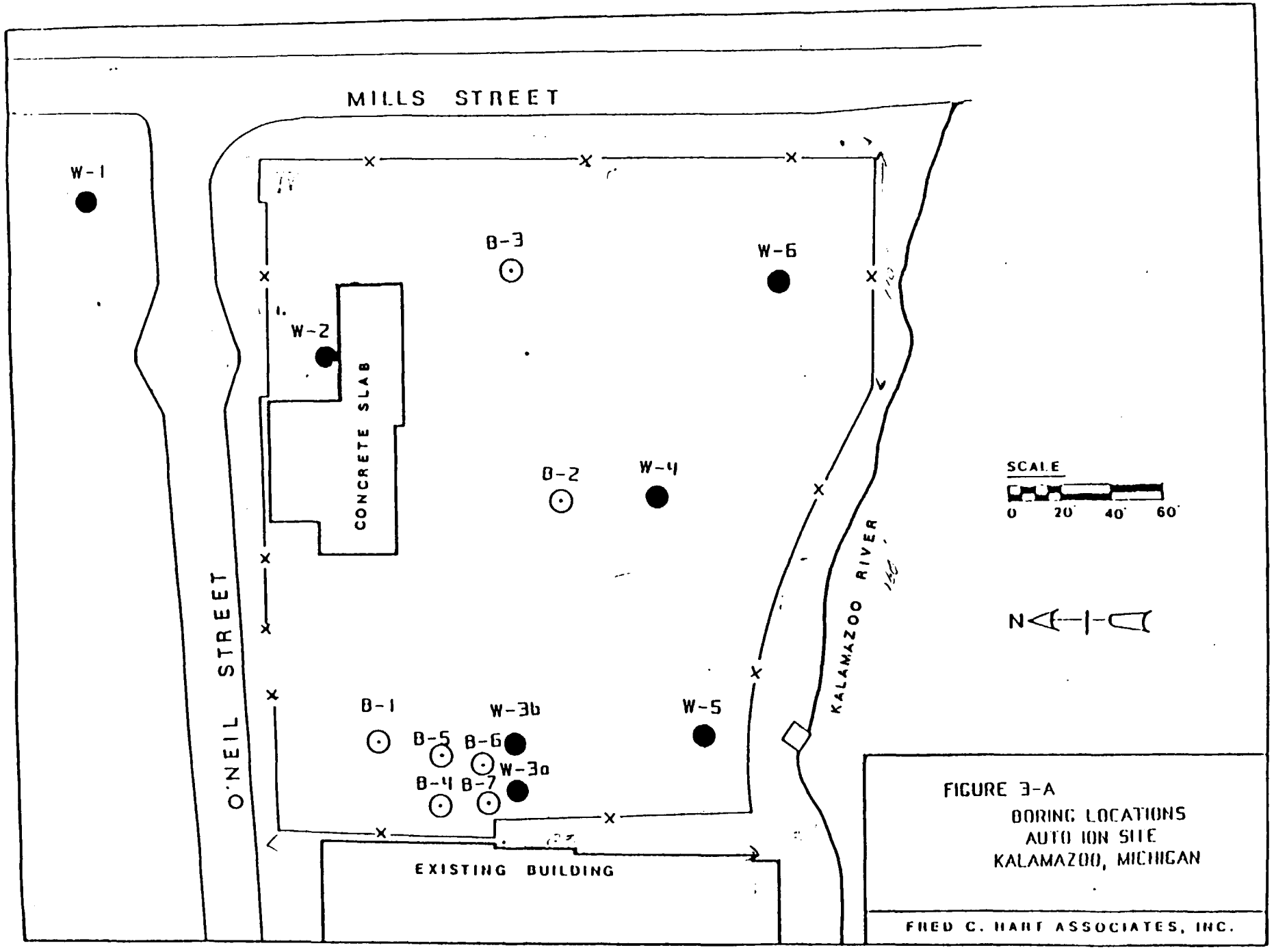


FIGURE 3-A
BORING LOCATIONS
AUTO ION SITE
KALAMAZOO, MICHIGAN

FRED C. HART ASSOCIATES, INC.

BY JEC DATE 6-26-89	HART ENGINEERS, INC.	SHEET 1 OF 5 PAGE
CHK'D ____ DATE ____		

SUBJECT QUANTITY ESTIMATE - LIMITED VADOSE ZONE EXCAVATION JOB NO. ____

1. BASIS.

[As] = 6.5 mg/kg

2. APPROACH

USE ARSENIC CONTOUR MAPS TO DETERMINE AREA WHERE [As] > 6.5, then multiply surface area by thickness of depth interval. Note that contour maps are limited by available data for a given depth interval. The quantities thus calculated should therefore be considered "rough estimates" and should not be used as absolute values.

3. SURFACE AREAS

A. Border AREA of contour maps represents the following area:

x = 380 - 50 = 330 linear feet

y = 285 linear feet

AREA = 94,030 ft²

Using planimeter w/ arm length set at 155 mm, measured area = 2157 units

∴ conversion = $\frac{94030 \text{ ft}^2}{2157 \text{ units}}$ = 43.60 ft²/unit

B 0-2' Depth interval

Measured AREA = 799 units

Actual AREA = 799 x 43.60 = 34,838 ft²

Volume = $\frac{34,838 \times 2}{27}$ = 2580 CY

BY JEC DATE 6-26-87
CHK'D _____ DATE _____

HART ENGINEERS, INC.

SHEET 2 OF 5 PAGE

SUBJECT QUANTITY ESTIMATE JOB NO. _____
LIMITED VADOSE ZONE EXCAVATION

C. 2-4' Depth Interval

Measured Area = 684 units
Actual Area = 684 x 43.60 = 29,824 ft²
Volume = $\frac{29,824 \times 2}{27}$ = 2209 CY

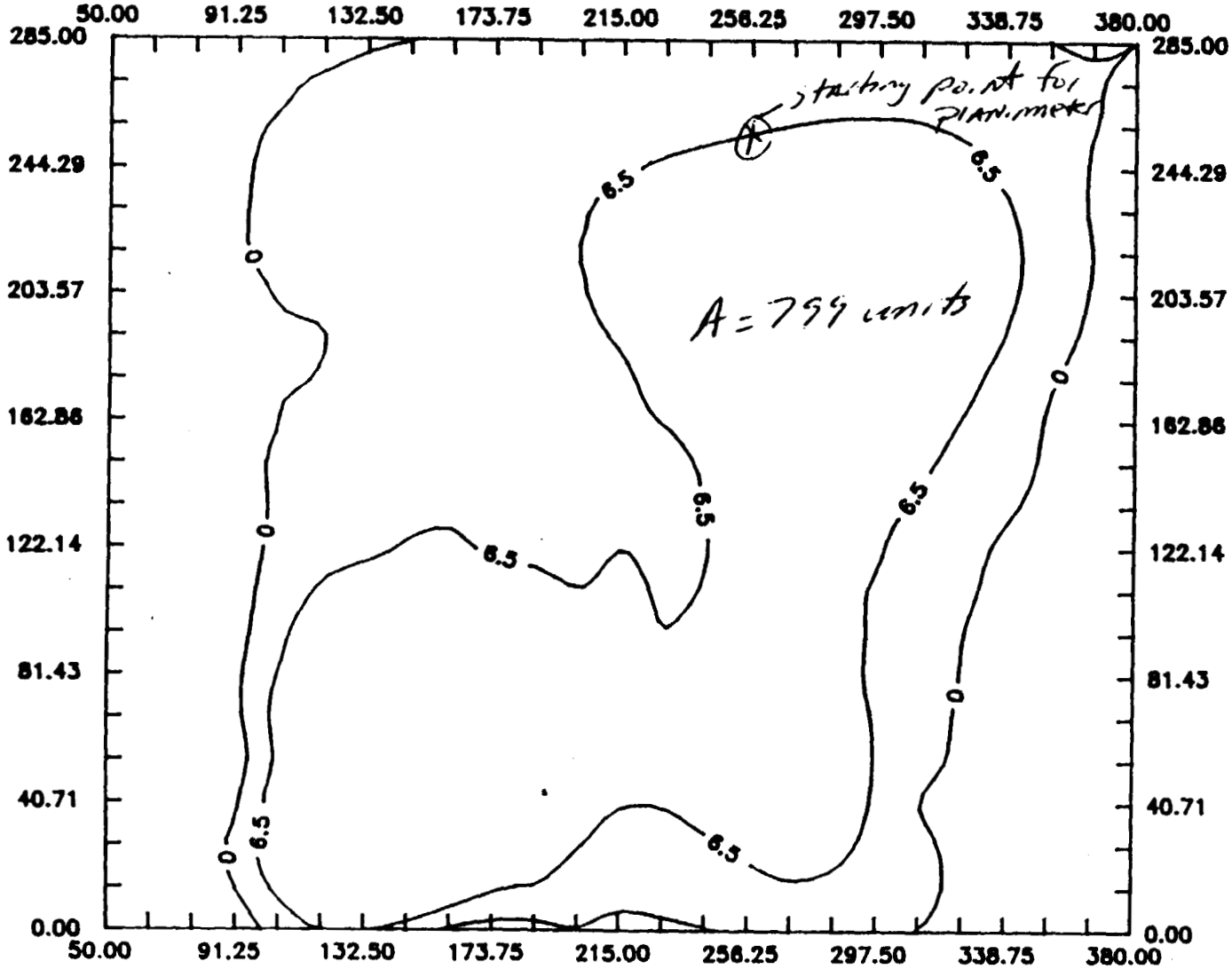
D. 4-7.5' DEPTH INTERVAL

Measured Area = 420 units
Actual Area = 420 x 43.60 = 18,313 ft²
Volume = $\frac{18,313 \times 3.5}{27}$ = 2374 CY

SUMMARY

0-2'	2580 CY
2-4'	2209 CY
4-7.5'	2374 CY
	7163 CY
	(ROUND TO 7160 CY)

J&C / 6-26-81
PAGE 3 of 5



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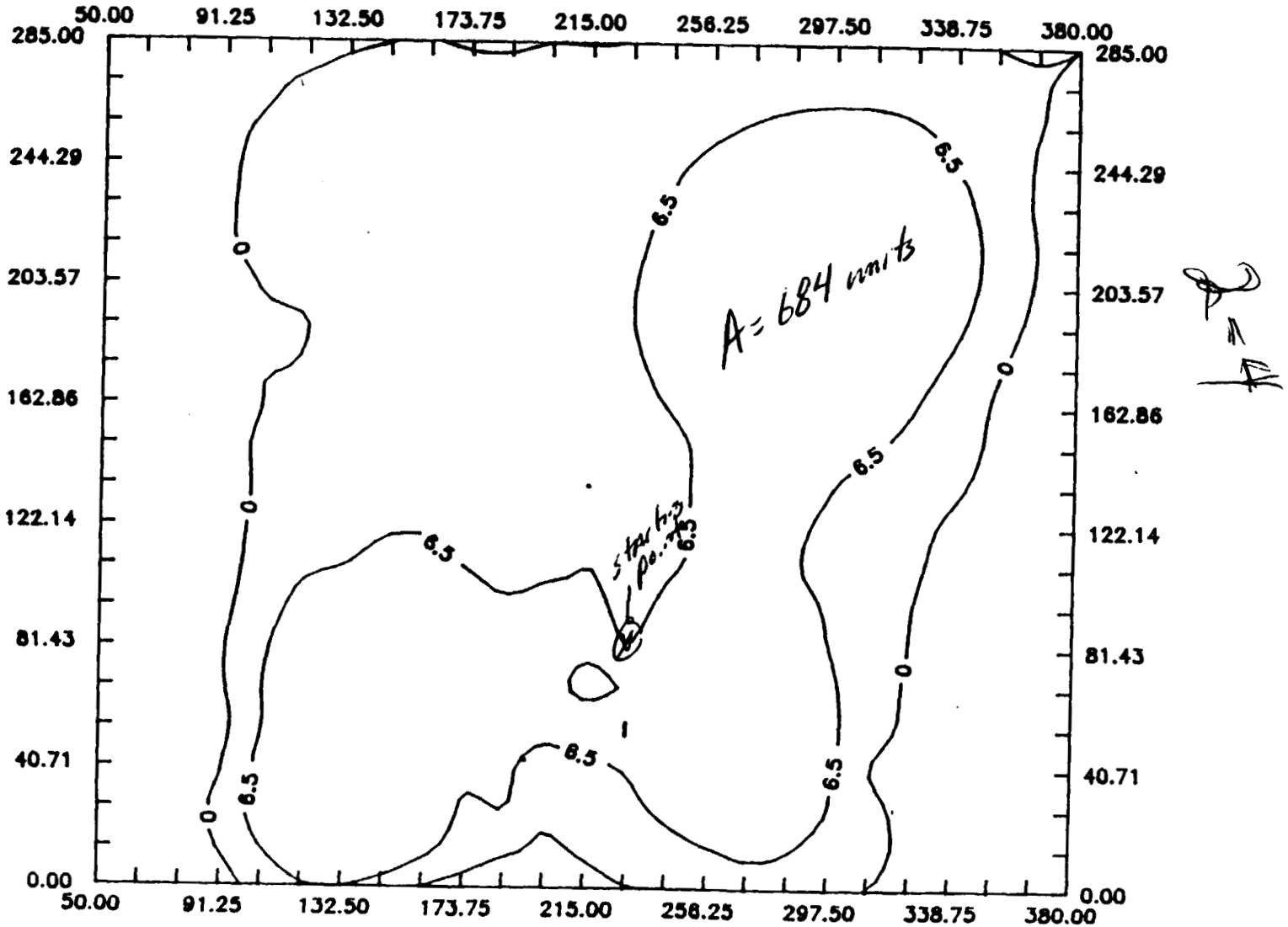

JEC / 6-26-89
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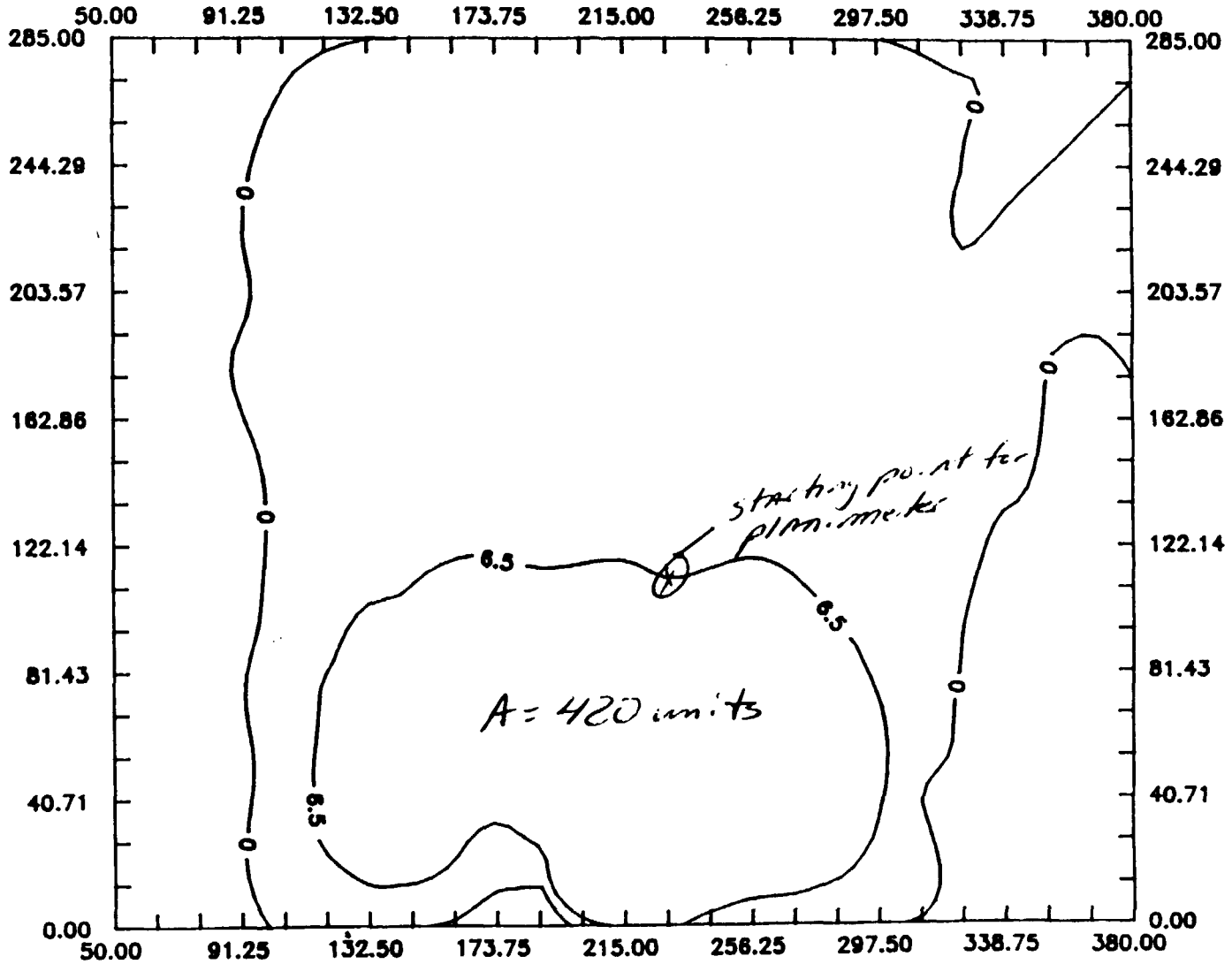

APPENDIX G

DETAILED COST CALCULATIONS

(CL5177B/6)

HART ENGINEERS, INC
ALTERNATIVE 3
AUTO ION COST ESTIMATE : STABILIZATION AND CAPPING

EXCAVATION STABILIZATION AND BACKFILLING CONTAMINATED SOIL

ASSUMPTIONS: EXCAVATE 16,800 CUBIC YARDS SOIL
STABILIZE SOIL WITH 1:1 RATIO KILN DUST/CHLORANAN
PRODUCTIVITY @ 360 EXCAVATED CUBIC YARDS PER DAY
TOTAL DURATION 47 DAYS @ 12 HOUR DAYS

CATEGORY:	ITEM	RATE	UNIT	QUAN	EXT	TOTAL	SUB TOTALS
LABOR:							
	FOREMAN	60	HR	1	564	$33,840	
	EQUIPMENT OPERATOR	40	HR	4	564	$90,240	
	LABORERS	30	HR	4	564	$67,680	
					SUBTOTAL LABOR		$191,760
EQUIPMENT:							
	TRACKED EXCAVATOR	1,150	DY	1	47	$54,050	
	DOZER	405	DY	1	47	$19,035	
	FRONTEND LOADER	930	DY	1	47	$43,710	
	COMBINATION BACKHOE	250	DY	1	47	$11,750	
	PUGMILL	500	DY	1	47	$23,500	
	UTILITY TRUCK	250	DY	1	47	$11,750	
	COMPACTOR	320	DY	1	47	$15,040	
					SUBTOTAL EQUIPMENT		$178,835
EXPENDABLES:							
	STABILIZATION MATERIAL	16.50	CY	1	16800	$277,200	
	PROTECTIVE GEAR	75	MNDY	9	47	$31,725	
					SUBTOTAL EXPENDABLES		$308,925
PER DIEMS:							
	PER DIEMS	60	DY	9	47	$25,380	
					SUBTOTAL PER DIEMS		$25,380
SUBCONTRACTORS:							
	LABORATORY TCLP ANALSIS	350	EA	1	84	$29,400	
					SUBTOTAL SUBCONTRACT		$29,400
					TASK 1 ESTIMATED TOTAL		$734,300

BY DATE
CK DATE

HART ENGINEERS, INC
ALTERNATIVE 3
AUTO ION COST ESTIMATE : STABILIZATION AND CAPPING

2 INSTALLATION OF SYNTHETIC LINER

ASSUMPTIONS: INSTALL 65,340 SQ FT 40 MIL HDPE LINER
INSTALL 65,340 SQ FT GEO FABRIC
PRODUCTIVITY ESTIMATE 3 DAYS @ 12 HOUR DAYS

CATEGORY:	ITEM	RATE	UNIT	QUAN	EXT	TOTAL	SUB TOTALS
LABOR:							
	FOREMAN	60	HR	1	36	$2,160	
	EQUIPMENT OPERATOR	40	HR	1	36	$1,440	
	LABORERS	30	HR	4	36	$4,320	
	LINER INSPECTOR	50	HR	1	36	$1,800	
					SUBTOTAL LABOR		$9,720
EQUIPMENT:							
	FRONTEND LOADER	930	DY	1	3	$2,790	
					SUBTOTAL EQUIPMENT		$2,790
EXPENDABLES:							
	40 MIL HDPE LINER & GEO	0.80	SQFT	1	65340	$52,272	
					SUBTOTAL EXPENDABLES		$52,272
PER DIEMS:							
	PER DIEMS	60	DY	7	3	$1,260	
					SUBTOTAL PER DIEMS		$1,260
SUBCONTRACTORS:							
	LABORATORY SEAM TEST	250	EA	1	10	$2,500	
					SUBTOTAL SUBCONTRACT		$2,500
					TASK 2 ESTIMATED TOTAL		$68,542

BY: JEC DATE HART ENGINEERS, INC
CK DATE ALTERNATIVE 3
AUTO ION COST ESTIMATE : STABILIZATION AND CAPPING

3 BACKFILL AND CLAY CAP PLACEMENT
ASSUMPTIONS: ESTIMATED QUANTITES = DRAINAGE & CLAY BARRIER 3,355 CUBIC YARDS EA.
GENERAL FILL MATERIAL IS STABILIZED SOIL(SEE TASK 1)
PRODUCTIVITY @ 450 EXCAVATED CUBIC YARDS PER DAY
TOTAL DURATION 16 DAYS @ 12 HOUR DAYS

CATEGORY:	ITEM	RATE	UNIT	QUAN	EXT	TOTAL	SUB TOTALS
LABOR:							
	FOREMAN	60	HR	1	192	$11,520	
	EQUIPMENT OPERATOR	40	HR	2	192	$15,360	
	LABORERS	30	HR	2	192	$11,520	
					SUBTOTAL LABOR		$38,400
EQUIPMENT:							
	COMPACTOR	320	DY	1	16	$5,120	
	DOZER	405	DY	1	16	$6,480	
					SUBTOTAL EQUIPMENT		$11,600
EXPENDABLES:							
	DRAINAGE LAYER	13.65	CY	1	3,355	$45,796	
	CLAY BARRIER	17.50	CY	1	3,355	$58,713	
	TOPSOIL	0.44	SF	1	65,340	$28,750	
					SUBTOTAL EXPENDABLES		$133,258
PER DIEMS:							
	PER DIEMS	60	DY	5	21	$6,300	
					SUBTOTAL PER DIEMS		$6,300
SUBCONTRACTORS:							
	LABORATORY PERMEABILITY	100	EA	1	20	$2,000	
	DENSITY TEST/MATERIAL	225	EA	1	3	$675	
					SUBTOTAL SUBCONTRACT		$2,675
					TASK 3 ESTIMATED TOTAL		$192,233

BY: JEC DATE HART ENGINEERS, INC
CK DATE ALTERNATIVE 3
AUTO ION COST ESTIMATE : STABILIZATION AND CAPPING

4 INSTALL COLLECTOR MANIFOLD, PIPE, STONE, FILTER FABRIC
ASSUMPTIONS: ESTIMATE 1,040 FEET OF TRENCH
12 TONS OF RIP RAP
PRODUCTIVITY @ 200 LINEAR FEET OF TRENCH PER DAY
TOTAL DURATION 5 DAYS @ 12 HOUR DAYS

CATEGORY:	ITEM	RATE	UNIT	QUAN	EXT	TOTAL	SUB TOTALS
LABOR:							
	FOREMAN	60	HR	1	60	$3,600	
	EQUIPMENT OPERATOR	40	HR	2	60	$4,800	
	LABORERS	30	HR	3	60	$5,400	
	PIPE WELDER	50	HR	1	60	$3,000	
					SUBTOTAL LABOR		$16,800
EQUIPMENT:							
	COMBINATION BACKHOE	250	DY	1	5	$1,250	
	COMPACTOR	320	DY	1	5	$1,600	
	WELDING MACHINE	450	DY	1	5	$2,250	
					SUBTOTAL EQUIPMENT		$5,100
EXPENDABLES:							
	RIP RAP	115.00	TON	1	12	$1,380	
	PIPE & FILTER FABRIC	14.15	LF	1	1,040	$14,716	
					SUBTOTAL EXPENDABLES		$16,096
PER DIEMS:							
	PER DIEMS	80	DY	7	5	$2,800	
					SUBTOTAL PER DIEMS		$2,800
SUBCONTRACTORS:							
					SUBTOTAL SUBCONTRACT		$0
					TASK 4 ESTIMATED TOTAL		$40,796

BY: JEC DATE HART ENGINEERS, INC
CK DATE ALTERNATIVE 3
AUTO ION COST ESTIMATE : STABILIZATION AND CAPPING

5 FINAL GRADING AND SEEDING
ASSUMPTIONS: SEED & GRADE 65,340 SQ FT
10 BAGS OF SEED
PRODUCTIVITY @ 20,000 SQUARE FEET PER DAY
TOTAL DURATION 3 DAYS @ 12 HOUR DAYS

CATEGORY:	ITEM	RATE	UNIT	QUAN	EXT	TOTAL	SUB TOTALS
LABOR:							
	FOREMAN	60	HR	1	36	$2,160	
	EQUIPMENT OPERATOR	40	HR	1	36	$1,440	
	LABORERS	30	HR	1	36	$1,080	
					SUBTOTAL LABOR		$4,680
EQUIPMENT:							
	TRACTOR	450	DY	1	3	$1,350	
					SUBTOTAL EQUIPMENT		$1,350
EXPENDABLES:							
	SEED	60.00	BAG	1	10	$600	
					SUBTOTAL EXPENDABLES		$600
PER DIEMS:							
	PER DIEMS	60	DY	3	3	$540	
					SUBTOTAL PER DIEMS		$540
SUBCONTRACTORS:							
					SUBTOTAL SUBCONTRACT		$0
					TASK 5 ESTIMATED TOTAL		$7,170

BY: JEC DATE HART ENGINEERS, INC
CK DATE ALTERNATIVE 3
AUTO ION COST ESTIMATE : STABILIZATION AND CAPPING

6 SUPPORT SERVICES, SITE RESTORATION, ETC.
ASSUMPTIONS: ESTIMATE SITE RESTORATION & TEARDOWN @ 10 DAYS
TOTAL PROJECT DURATION 84 DAYS, 12 WEEKS

CATEGORY:	ITEM	RATE	UNIT	QUAN	EXT	TOTAL	SUB TOTALS
LABOR:							
	PROJECT MANAGER	80	HR	10	12	$9,600	
	SITE SAFETY OFFICER	75	HR	1	480	$36,000	
	PROJECT ACCOUNTANT	30	HR	1	672	$20,160	
	SUPPORT PERSONNEL	50	HR	1	672	$33,600	
					SUBTOTAL LABOR		$99,360
EQUIPMENT:							
	OFFICE TRAILER	175	MO	1	3	$525	
	DECON TRAILER	350	DY	1	79	$27,650	
	SUPPORT VEHICLES	50	DY	2	89	$8,900	
					SUBTOTAL EQUIPMENT		$37,075
EXPENDABLES:							
	OFFICE SUPPLIES/MISC.	50.00	DY	1	89	$4,450	
	CONSTRUCT DECON PAD	3,000	EST	1	1	$3,000	
	HEALTH & SAFETY PLAN	3,500	EST	1	1	$3,500	
	PERMITS	1,000	EST	1	1	$1,000	
					SUBTOTAL EXPENDABLES		$11,950
PER DIEMS:							
	PER DIEMS	60	DY	2	89	$10,680	
					SUBTOTAL PER DIEMS		$10,680
SUBCONTRACTORS:							
	UTILITY HOOKUPS,WATER &	10,000	EA	1	1	$10,000	
	SECURITY	12	HR	12	89	$12,816	
	SANITARY	150	MO	2	3	$900	
	SURVEYING	25,000	EST	1	1	$25,000	
	MOBE & DEMOBE	25,000	EST	1	1	$25,000	
					SUBTOTAL SUBCONTRACT		$73,716
					TASK 6 ESTIMATED TOTAL		$232,79[illegible]

BY: JEC DATE HART ENGINEERS, INC
CK DATE ALTERNATIVE 3
AUTO ION COST ESTIMATE : STABILIZATION AND CAPPING

STABILIZATION & CAPPING SUMMARY

		SUB TOTALS
1 EXCAVATION STABILIZATION AND BACKFILLING CONTAMINATED SOIL		
	TASK 1 ESTIMATED TOTAL	$734,300
2 INSTALLATION OF SYNTHETIC LINER		
	TASK 2 ESTIMATED TOTAL	$68,542
3 BACKFILL AND CLAY CAP PLACEMENT		
	TASK 3 ESTIMATED TOTAL	$192,233
4 INSTALL COLLECTOR MANIFOLD, PIPE, STONE, FILTER FABRIC		
	TASK 4 ESTIMATED TOTAL	$40,796
5 FINAL GRADING AND SEEDING		
	TASK 5 ESTIMATED TOTAL	$7,170
6 SUPPORT SERVICES, SITE RESTORATION, ETC.		
	TASK 6 ESTIMATED TOTAL	$232,781
	ESTIMATED TOTAL TASKS 1-6	$1,275,822
	ENGINEERING ESTIMATE @ 12%	$153,099
	PROJECT ESTIMATE	$1,428,920
	CONTINGENCY @ 30%	$428,676
	PROJECT ESTIMATE W/ CONTINGENCY	$1,857,597

HART ENGINEERS, INC
BY: JEC DATE ALTERNATIVE 4
CK DATE AUTO ION COST ESTIMATE :EXCAVATION,OFF-SITE DISPOSAL,BACKFILL

EXCAVATION, STABILIZE AND LOAD OUT OF CONTAMINATED SOIL
ASSUMPTIONS: ESTIMATE 16,800 CUBIC YARDS CONTAMINATED SOIL EXCAVATED
PRODUCTIVITY @ 360 CUBIC YARDS PER DAY LOADOUT
TOTAL DURATION 47 DAYS @ 12 HOUR DAYS

CATEGORY:	ITEM	RATE	UNIT	QUAN	EXT	TOTAL	SUB TOTALS
LABOR:							
	FOREMAN	60	HR	1	564	$33,840	
	EQUIPMENT OPERATOR	40	HR	2	564	$45,120	
	LABORERS	30	HR	3	564	$50,760	
					SUBTOTAL LABOR		$129,720
EQUIPMENT:							
	TRACKED EXCAVATOR	1,150	DY	1	47	$54,050	
	UTILITY TRUCK	250	DY	1	47	$11,750	
	FRONTEND LOADER	930	DY	1	47	$43,710	
					SUBTOTAL EQUIPMENT		$109,510
EXPENDABLES:							
	PROTECTIVE GEAR	75	MNDY	6	47	$21,150	
	TRUCK LINERS	25	EA	1	932	$23,300	
					SUBTOTAL EXPENDABLES		$44,450
PER DIEMS:							
	PER DIEMS	60	DY	6	47	$16,920	
					SUBTOTAL PER DIEMS		$16,920
SUBCONTRACTORS:							
	LABORATORY TCLP	350	EA	1	84	$29,400	
	WASTE PROFILE	1,200	EA	1	4	$4,800	
	TRANSPORTATION	25	TON	1	16,800	$371,000	
	DISPOSAL INC TAXES	105	TON	1	16,800	$1,764,000	
					SUBTOTAL SUBCONTRACT		$2,169,200
					TASK 1 ESTIMATED TOTAL		$2,469,800

BY DATE HART ENGINEERS, INC
CK DATE AUTO ION COST ESTIMATE :EXCAVATION,OFF-SITE DISPOSAL,BACKFILL

---

2 BACKFILL AND SITE RESTORATION
ASSUMPTIONS:ESTIMATE BACKFILL MATERIALS:
GENERAL FILL = 15,680 CUBIC YARDS, TOPSOIL = 1,120 CUBIC YARDS
PRODUCTIVITY @ 925 CUBIC YARDS PER DAY
TOTAL DURATION 18 DAYS @ 10 HOUR DAYS

CATEGORY:	ITEM	RATE	UNIT	QUAN	EXT	TOTAL	SUB TOTALS
LABOR:							
	FOREMAN	60	HR	1	180	$10,800	
	EQUIPMENT OPERATOR	40	HR	2	180	$14,400	
	LABORERS	30	HR	2	180	$10,800	
					SUBTOTAL LABOR		$36,000
EQUIPMENT:							
	COMPACTOR	320	DY	1	18	$5,760	
	DOZER	405	DY	1	18	$7,290	
					SUBTOTAL EQUIPMENT		$13,050
EXPENDABLES:							
	GENERAL FILL	4.30	CY	1	15,680	$67,424	
	TOPSOIL(6 inches)	0.44	SF	1	65,340	$28,750	
	SEED	60.00	BAG	1	10	$600	
					SUBTOTAL EXPENDABLES		$96,774
PER DIEMS:							
	PER DIEMS	60	DY	6	18	$6,480	
					SUBTOTAL PER DIEMS		$6,480
SUBCONTRACTORS:							
	DENSITY TEST/MATERIAL	225	EA	1	1	$225	
					SUBTOTAL SUBCONTRACT		$225
					TASK 2 ESTIMATED TOTAL		$152,529

BY DATE HART ENGINEERS, INC
CK DATE AUTO ION COST ESTIMATE :EXCAVATION,OFF-SITE DISPOSAL,BACKFILL

3 SUPPORT SERVICES, SITE RESTORATION, ETC.
ASSUMPTIONS:ESTIMATE SITE RESTORATION & TEARDOWN @ 5 DAYS
TOTAL PROJECT DURATION 70 DAYS, 10 WEEKS

CATEGORY:	ITEM	RATE	UNIT	QUAN	EXT	TOTAL	SUB TOTALS
LABOR:							
	PROJECT MANAGER	80	HR	10	10	$8,000	
	SITE SAFETY OFFICER	75	HR	1	420	$31,500	
	PROJECT ACCOUNTANT	30	HR	1	560	$16,800	
	SUPPORT PERSONNEL	50	HR	1	560	$28,000	
					SUBTOTAL LABOR		$84,300
EQUIPMENT:							
	OFFICE TRAILER	175	MO	1	3	$525	
	DECON TRAILER	350	DY	1	47	$16,450	
	SUPPORT VEHICLES	50	DY	1	70	$3,500	
					SUBTOTAL EQUIPMENT		$20,475
EXPENDABLES:							
	OFFICE SUPPLIES/MISC.	50.00	DY	1	70	$3,500	
	CONSTRUCT DECON PAD	3,000	EST	1	1	$3,000	
	HEALTH & SAFETY PLAN	3,500	EST	1	1	$3,500	
	PERMITS	1,000	EST	1	1	$1,000	
					SUBTOTAL EXPENDABLES		$11,000
PER DIEMS:							
					SUBTOTAL PER DIEMS		$0
SUBCONTRACTORS:							
	UTILITY HOOKUPS,WATER &	10,000	EA	1	1	$10,000	
	SECURITY	12	HR	12	70	$10,080	
	SANITARY	150	MO	2	3	$900	
	SURVEYING	15,000	EST	1	1	$15,000	
	MOBE & DEMOBE	20,000	EST	1	1	$20,000	
					SUBTOTAL SUBCONTRACT		$55,980
					TASK 3 ESTIMATED TOTAL		$171,755

HART ENGINEERS, INC
BY DATE ALTERNATIVE 4
CK DATE AUTO ION COST ESTIMATE : EXCAVATION/STABILIZATION/DISPOSAL

4 SUMMARY EXCAVATION,OFF-SITE DISPOSAL

		SUB TOTALS
1 EXCAVATION, STABILIZE AND LOAD OUT OF CONTAMINATED SOIL	TASK 1 ESTIMATED TOTAL	$2,469,800
2 BACKFILL AND SITE RESTORATION, NO CAP	TASK 2 ESTIMATED TOTAL	$152,529
3 SUPPORT SERVICES, SITE RESTORATION, ETC.	TASK 3 ESTIMATED TOTAL	$171,755
	ESTIMATED TOTAL TASKS 1-3	$2,794,084
	ENGINEERING ESTIMATE @ 12%	$335,290
	PROJECT ESTIMATE	$3,129,374
	CONTINGENCY @ 20%	$625,875
	PROJECT ESTIMATE W/ CONTINGENCY	$3,755,248

-ART ENGINEERS, INC
ALTERNATIVE 5

BY DATE
CK DATE AUTO ION COST ESTIMATE :EXCAVATION,OFF-SITE DISPOSAL,BACKFILL

---

1 EXCAVATION AND LOAD OUT OF CONTAMINATED SOIL
ASSUMPTIONS:ESTIMATE 7,160 CUBIC YARDS CONTAMINATED SOIL EXCAVATED
PRODUCTIVITY @ 360 CUBIC YARDS PER DAY LOADOUT
TOTAL DURATION 20 DAYS @ 12 HOUR DAYS

CATEGORY:	ITEM	RATE	UNIT	QUAN	EXT	TOTAL	SUB TOTALS
LABOR:							
	FOREMAN	60	HR	1	240	$14,400	
	EQUIPMENT OPERATOR	40	HR	2	240	$19,200	
	LABORERS	30	HR	3	240	$21,600	
					SUBTOTAL LABOR		$55,200
EQUIPMENT:							
	TRACKED EXCAVATOR	1,150	DY	1	20	$23,000	
	UTILITY TRUCK	250	DY	1	20	$5,000	
	FRONTEND LOADER	930	DY	1	20	$18,600	
					SUBTOTAL EQUIPMENT		$46,600
EXPENDABLES:							
	PROTECTIVE GEAR	75	MNDY	6	20	$9,000	
	TRUCK LINERS	25	TRK	1	400	$10,000	
					SUBTOTAL EXPENDABLES		$19,000
PER DIEMS:							
	PER DIEMS	60	DY	6	20	$7,200	
					SUBTOTAL PER DIEMS		$7,200
SUBCONTRACTORS:							
	LABORATORY TCLP	350	EA	1	36	$12,600	
	WASTE PROFILE	1,200	EA	1	4	$4,800	
	TRANSPORTATION	25	TON	1	7,160	$158,117	
	DISPOSAL INC TAXES	105	TON	1	7,160	$751,800	
					SUBTOTAL SUBCONTRACT		$927,317
					TASK 1 ESTIMATED TOTAL		$1,055,317

HART ENGINEERS, INC
BY DATE ALTERNATIVE 5
CK DATE AUTO ION COST ESTIMATE :EXCAVATION,OFF-SITE DISPOSAL,BACKFILL

2 BACKFILL AND SITE RESTORATION

ASSUMPTIONS: ESTIMATE BACKFILL MATERIALS:
GENERAL FILL = 6040 CUBIC YARDS, TOPSOIL = 1,120 CUBIC YARDS
PRODUCTIVITY @ 925 CUBIC YARDS PER DAY
TOTAL DURATION 8 DAYS @ 10 HOUR DAYS

CATEGORY:	ITEM	RATE	UNIT	QUAN	EXT	TOTAL	SUB TOTALS
LABOR:							
	FOREMAN	60	HR	1	80	$4,800	
	EQUIPMENT OPERATOR	40	HR	2	80	$6,400	
	LABORERS	30	HR	2	80	$4,800	
					SUBTOTAL LABOR		$16,000
EQUIPMENT:							
	COMPACTOR	320	DY	1	8	$2,560	
	DOZER	405	DY	1	8	$3,240	
					SUBTOTAL EQUIPMENT		$5,800
EXPENDABLES:							
	GENERAL FILL	4.30	CY	1	6,040	$25,972	
	TOPSOIL	0.44	SF	1	65,340	$28,750	
	SEED	60.00	BAG	1	10	$600	
					SUBTOTAL EXPENDABLES		$55,322
PER DIEMS:							
	PER DIEMS	60	DY	6	8	$2,880	
					SUBTOTAL PER DIEMS		$2,880
SUBCONTRACTORS:							
	DENSITY TEST/MATERIAL	225	EA	1	1	$225	
					SUBTOTAL SUBCONTRACT		$225
					TASK 2 ESTIMATED TOTAL		$80,227

HART ENGINEERS, INC

BY DATE ALTERNATIVE 5

CK DATE AUTO ION COST ESTIMATE :EXCAVATION,OFF-SITE DISPOSAL,BACKFILL

3 SUPPORT SERVICES, SITE RESTORATION, ETC.

ASSUMPTIONS:ESTIMATE SITE RESTORATION & TEARDOWN @ 5 DAYS

TOTAL PROJECT DURATION 33 DAYS, 5 WEEKS

CATEGORY:	ITEM	RATE	UNIT	QUAN	EXT	TOTAL	SUB TOTALS
LABOR:							
	PROJECT MANAGER	80	HR	10	5	$4,000	
	SITE SAFETY OFFICER	75	HR	1	200	$15,000	
	PROJECT ACCOUNTANT	30	HR	1	264	$7,920	
	SUPPORT PERSONNEL	50	HR	1	264	$13,200	
					SUBTOTAL LABOR		$40,120
EQUIPMENT:							
	OFFICE TRAILER	175	MO	1	2	$350	
	DECON TRAILER	350	DY	1	20	$7,000	
	SUPPORT VEHICLES	50	DY	1	33	$1,650	
					SUBTOTAL EQUIPMENT		$9,000
EXPENDABLES:							
	OFFICE SUPPLIES/MISC.	50.00	DY	1	33	$1,650	
	CONSTRUCT DECON PAD	3,000	EST	1	1	$3,000	
	HEALTH & SAFETY PLAN	3,500	EST	1	1	$3,500	
	PERMITS	1,000	EST	1	1	$1,000	
					SUBTOTAL EXPENDABLES		$9,150
PER DIEMS:							
					SUBTOTAL PER DIEMS		$0
SUBCONTRACTORS:							
	UTILITY HOOKUPS,WATER &	10,000	EA	1	1	$10,000	
	SECURITY	12	HR	12	33	$4,752	
	SANITARY	150	MO	2	2	$600	
	SURVEYING	15,000	EST	1	1	$15,000	
	MOBE & DEMOBE	20,000	EST	1	1	$20,000	
					SUBTOTAL SUBCONTRACT		$50,352
					TASK 3 ESTIMATED TOTAL		$108,622

HART ENGINEERS, INC
BY DATE ALTERNATIVE 5
CK DATE AUTO ION COST ESTIMATE : EXCAVATION/DISPOSAL

1 SUMMARY EXCAVATION,OFF-SITE DISPOSAL

		SUB TOTALS
1 EXCAVATION AND LOAD OUT OF CONTAMINATED SOIL	TASK 1 ESTIMATED TOTAL	$1,055,317
2 BACKFILL AND SITE RESTORATION	TASK 2 ESTIMATED TOTAL	$80,227
3 SUPPORT SERVICES, SITE RESTORATION, ETC.	TASK 3 ESTIMATED TOTAL	$108,622
	ESTIMATED TOTAL TASKS 1-3	$1,244,165
	ENGINEERING ESTIMATE @ 12%	$149,300
	PROJECT ESTIMATE	$1,393,465
	CONTINGENCY @ 20%	$278,693
	PROJECT ESTIMATE W/ CONTINGENCY	$1,672,158

HART ENGINEERS, INC
ALTERNATIVE 7

DATE AUTO ION COST ESTIMATE :EXCAVATION,STABILIZATION,OFF-SITE DISPOSAL.BAC

EXCAVATION, STABILIZE AND LOAD OUT OF CONTAMINATED SOIL

ASSUMPTIONS: ESTIMATE 16,800 CUBIC YARDS CONTAMINATED SOIL EXCAVATED
ESTIMATE 1:1(soil:reagent) RATIO STABILIZATION MATERIAL NET 33600 CY DISPO
PRODUCTIVITY @ 360 CUBIC YARDS PER DAY LOADOUT
TOTAL DURATION 93 DAYS @ 12 HOUR DAYS

CATEGORY:	ITEM	RATE	UNIT	QUAN	EXT	TOTAL	SUB TOTALS
LABOR:							
	FOREMAN	60	HR	1	1,116	$66,960	
	EQUIPMENT OPERATOR	40	HR	3	1,116	$133,920	
	LABORERS	30	HR	4	1,116	$133,920	
					SUBTOTAL LABOR		$334,800
EQUIPMENT:							
	TRACKED EXCAVATOR	1,150	DY	1	93	$106,950	
	UTILITY TRUCK	250	DY	1	93	$23,250	
	FRONTEND LOADER	930	DY	1	93	$86,490	
	COMBINATION BACKHOE	250	DY	1	93	$23,250	
	PUGMILL	500	DY	1	93	$46,500	
					SUBTOTAL EQUIPMENT		$286,440
EXPENDABLES:							
	STABILIZATION MATERIAL	16.50	CY	1	16800	$277,200	
	PROTECTIVE GEAR	75	MNDY	8	93	$55,800	
	TRUCK LINERS	25	EA	1	1,870	$46,750	
					SUBTOTAL EXPENDABLES		$379,750
PER DIEMS:							
	PER DIEMS	60	DY	8	93	$44,640	
					SUBTOTAL PER DIEMS		$44,640
SUBCONTRACTORS:							
	LABORATORY TCLP	350	EA	1	170	$59,500	
	WASTE PROFILE	1,200	EA	1	4	$4,800	
	STABILIZE TEST/MIX RATI	2,500	EA	1	1	$2,500	
	TRANSPORTATION	25	TON	1	33,600	$742,000	
	DISPOSAL INC TAXES	105	TON	1	33,600	$3,528,000	
					SUBTOTAL SUBCONTRACT		$4,336,800
					TASK 1 ESTIMATED TOTAL		$5,382,430

2 BACKFILL AND SITE RESTORATION

ASSUMPTIONS: ESTIMATE BACKFILL MATERIALS:
GENERAL FILL = 15,680 CUBIC YARDS, TOPSOIL = 1,120 CUBIC YARDS
PRODUCTIVITY @ 925 CUBIC YARDS PER DAY
TOTAL DURATION 18 DAYS @ 10 HOUR DAYS

CATEGORY:	ITEM	RATE	UNIT	QUAN	EXT	TOTAL	SUB TOTALS
LABOR:							
	FOREMAN	50	HR	1	180	$10,800	
	EQUIPMENT OPERATOR	40	HR	2	180	$14,400	
	LABORERS	30	HR	2	180	$10,800	
					SUBTOTAL LABOR		$36,000
EQUIPMENT:							
	COMPACTOR	320	DY	1	18	$5,760	
	DOZER	405	DY	1	18	$7,290	
					SUBTOTAL EQUIPMENT		$13,050
EXPENDABLES:							
	GENERAL FILL	4.30	CY	1	15,680	$67,424	
	TOPSOIL	0.44	SF	1	65,340	$28,750	
	SEED	60.00	BAG	1	10	$600	
					SUBTOTAL EXPENDABLES		$96,774
PER DIEMS:							
	PER DIEMS	60	DY	6	18	$6,480	
					SUBTOTAL PER DIEMS		$6,480
SUBCONTRACTORS:							
	DENSITY TEST/MATERIAL	225	EA	1	1	$225	
					SUBTOTAL SUBCONTRACT		$225
					TASK 2 ESTIMATED TOTAL		$152,529

3 SUPPORT SERVICES, SITE RESTORATION, ETC.

ASSUMPTIONS: ESTIMATE SITE RESTORATION & TEARDOWN @ 10 DAYS
TOTAL PROJECT DURATION 121 DAYS, 17 WEEKS

CATEGORY:	ITEM	RATE	UNIT	QUAN	EXT	TOTAL	SUB TOTALS
LABOR:							
	PROJECT MANAGER	80	HR	10	17	$13,600	
	SITE SAFETY OFFICER	75	HR	1	720	$54,000	
	PROJECT ACCOUNTANT	30	HR	1	968	$29,040	
	SUPPORT PERSONNEL	50	HR	1	968	$48,400	
					SUBTOTAL LABOR		$145,040
EQUIPMENT:							
	OFFICE TRAILER	175	MO	1	4	$700	
	DECON TRAILER	350	DY	1	93	$32,550	
	SUPPORT VEHICLES	50	DY	1	121	$6,050	
					SUBTOTAL EQUIPMENT		$39,300
EXPENDABLES:							
	OFFICE SUPPLIES/MISC.	50.00	DY	1	121	$6,050	
	CONSTRUCT DECON PAD	3,000	EST	1	1	$3,000	
	HEALTH & SAFETY PLAN	3,500	EST	1	1	$3,500	
	PERMITS	1,000	EST	1	1	$1,000	
					SUBTOTAL EXPENDABLES		$13,550
PER DIEMS:							
					SUBTOTAL PER DIEMS		$0
SUBCONTRACTORS:							
	UTILITY HOOKUPS,WATER &	10,000	EA	1	1	$10,000	
	SECURITY	12	HR	12	121	$17,424	
	SANITARY	150	MO	2	4	$1,200	
	SURVEYING	15,000	EST	1	1	$15,000	
	MOBE & DEMOBE	25,000	EST	1	1	$25,000	
					SUBTOTAL SUBCONTRACT		$68,624
					TASK 3 ESTIMATED TOTAL		$266,514

HART ENGINEERS, INC
BY DATE ALTERNATIVE 7
CK DATE AUTO ION COST ESTIMATE : EXCAVATION/STABILIZATION/DISPOSAL

1 SUMMARY EXCAVATION,STABILIZATION,
OFF-SITE DISPOSAL,BACKFILL,NO CAP

		SUB TOTALS
1 EXCAVATION, STABILIZE AND LOAD OUT OF CONTAMINATED SOIL	TASK 1 ESTIMATED TOTAL	$5,382,430
2 BACKFILL AND SITE RESTORATION, NO CAP	TASK 2 ESTIMATED TOTAL	$152,529
3 SUPPORT SERVICES, SITE RESTORATION, ETC.	TASK 3 ESTIMATED TOTAL	$266,514
	ESTIMATED TOTAL TASKS 1-3	$5,801,473
	ENGINEERING ESTIMATE @ 12%	$696,177
	PROJECT ESTIMATE	$6,497,649
	CONTINGENCY @ 20%	$1,299,530
	PROJECT ESTIMATE W/ CONTINGENCY	$7,797,179

HART ENGINEERS, INC
BY DATE ALTERNATIVE 8
CK DATE AUTO ION COST ESTIMATE :EXCAVATION,STABILIZATION,OFF-SITE DISPOSAL,BACKFI

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1 EXCAVATION, STABILIZE AND LOAD OUT OF CONTAMINATED SOIL
ASSUMPTIONS:ESTIMATE 7,160 CUBIC YARDS CONTAMINATED SOIL EXCAVATED
ESTIMATE 1:1(soil:reagent) RATIO STABILIZATION MATERIAL NET 14,320 CY DISP
PRODUCTIVITY @ 360 CUBIC YARDS PER DAY LOADOUT
TOTAL DURATION 40 DAYS @ 12 HOUR DAYS

CATEGORY:	ITEM	RATE	UNIT	QUAN	EXT	TOTAL	SUB TOTALS
LABOR:							
	FOREMAN	60	HR	1	480	$28,800	
	EQUIPMENT OPERATOR	40	HR	2	480	$38,400	
	LABORERS	30	HR	3	480	$43,200	
					SUBTOTAL LABOR		$110,400
EQUIPMENT:							
	TRACKED EXCAVATOR	1,150	DY	1	40	$46,000	
	UTILITY TRUCK	250	DY	1	40	$10,000	
	FRONTEND LOADER	930	DY	1	40	$37,200	
	COMBINATION BACKHOE	250	DY	1	40	$10,000	
	PUGMILL	500	DY	1	40	$20,000	
					SUBTOTAL EQUIPMENT		$123,200
EXPENDABLES:							
	STABILIZATION MATERIAL	16.50	CY	1	7160	$118,140	
	PROTECTIVE GEAR	75	MNDY	6	40	$18,000	
	TRUCK LINERS	25	TRK	1	800	$20,000	
					SUBTOTAL EXPENDABLES		$156,140
PER DIEMS:							
	PER DIEMS	60	DY	6	40	$14,400	
					SUBTOTAL PER DIEMS		$14,400
SUBCONTRACTORS:							
	LABORATORY TCLP	350	EA	1	72	$25,200	
	WASTE PROFILE	1,200	EA	1	4	$4,800	
	STABILIZE TEST/MIX RATI	2,500	EA	1	1	$2,500	
	TRANSPORTATION	25	TON	1	14,320	$316,233	
	DISPOSAL INC TAXES	105	TON	1	14,320	$1,503,500	
					SUBTOTAL SUBCONTRACT		$1,852,333
					TASK 1 ESTIMATED TOTAL		$2,256,473

HART ENGINEERS, INC
ALTERNATIVE 8

BY DATE
CK DATE AUTO ION COST ESTIMATE :EXCAVATION,STABILIZATION,OFF-SITE DISPOSAL,BACKFI

2 BACKFILL AND SITE RESTORATION

ASSUMPTIONS:ESTIMATE BACKFILL MATERIALS:
GENERAL FILL = 6040 CUBIC YARDS, TOPSOIL = 1,120 CUBIC YARDS
PRODUCTIVITY @ 925 CUBIC YARDS PER DAY
TOTAL DURATION 8 DAYS @ 10 HOUR DAYS

CATEGORY:	ITEM	RATE	UNIT	QUAN	EXT	TOTAL	SUB TOTALS
LABOR:							
	FOREMAN	60	HR	1	80	$4,800	
	EQUIPMENT OPERATOR	40	HR	2	80	$6,400	
	LABORERS	30	HR	2	80	$4,800	
					SUBTOTAL LABOR		$16,000
EQUIPMENT:							
	COMPACTOR	320	DY	1	8	$2,560	
	DOZER	405	DY	1	8	$3,240	
					SUBTOTAL EQUIPMENT		$5,800
EXPENDABLES:							
	GENERAL FILL	4.30	CUYD	1	6,040	$25,972	
	TOPSOIL	0.44	SF	1	65,340	$28,750	
	SEED	60.00	BAG	1	10	$600	
					SUBTOTAL EXPENDABLES		$55,322
PER DIEMS:							
	PER DIEMS	60	DY	6	8	$2,880	
					SUBTOTAL PER DIEMS		$2,880
SUBCONTRACTORS:							
	DENSITY TEST/MATERIAL	225	EA	1	1	$225	
					SUBTOTAL SUBCONTRACT		$225
					TASK 2 ESTIMATED TOTAL		$80,227

HART ENGINEERS, INC
BY DATE ALTERNATIVE 8
CK DATE AUTO ION COST ESTIMATE :EXCAVATION,STABILIZATION,OFF-SITE DISPOSAL,BACKFI

3 SUPPORT SERVICES, SITE RESTORATION, ETC.
ASSUMPTIONS:ESTIMATE SITE RESTORATION & TEARDOWN @ 5 DAYS
TOTAL PROJECT DURATION 53 DAYS, 8 WEEKS

CATEGORY:	ITEM	RATE	UNIT	QUAN	EXT	TOTAL	SUB TOTALS
LABOR:							
	PROJECT MANAGER	80	HR	10	8	$6,400	
	SITE SAFETY OFFICER	75	HR	1	300	$22,500	
	PROJECT ACCOUNTANT	30	HR	1	424	$12,720	
	SUPPORT PERSONNEL	50	HR	1	424	$21,200	
					SUBTOTAL LABOR		$62,820
EQUIPMENT:							
	OFFICE TRAILER	175	MO	1	2	$350	
	DECON TRAILER	350	DY	1	40	$14,000	
	SUPPORT VEHICLES	50	DY	1	53	$2,650	
					SUBTOTAL EQUIPMENT		$17,000
EXPENDABLES:							
	OFFICE SUPPLIES/MISC.	50.00	DY	1	53	$2,650	
	CONSTRUCT DECON PAD	3,000	EST	1	1	$3,000	
	HEALTH & SAFETY PLAN	3,500	EST	1	1	$3,500	
	PERMITS	1,000	EST	1	1	$1,000	
					SUBTOTAL EXPENDABLES		$10,150
PER DIEMS:							
					SUBTOTAL PER DIEMS		$0
SUBCONTRACTORS:							
	UTILITY HOOKUPS,WATER &	10,000	EA	1	1	$10,000	
	SECURITY	12	HR	12	53	$7,632	
	SANITARY	150	MO	2	2	$600	
	SURVEYING	15,000	EST	1	1	$15,000	
	MOBE & DEMOBE	20,000	EST	1	1	$20,000	
					SUBTOTAL SUBCONTRACT		$53,232
					TASK 3 ESTIMATED TOTAL		$143,202

HART ENGINEERS, INC
ALTERNATIVE 8

BY DATE
CK DATE

AUTO ION COST ESTIMATE : EXCAVATION/STABILIZATION/DISPOSAL

1 SUMMARY EXCAVATION,STABILIZATION,
OFF-SITE DISPOSAL,BACKFILL

		SUB TOTALS
1 EXCAVATION, STABILIZE AND LOAD OUT OF CONTAMINATED SOIL	TASK 1 ESTIMATED TOTAL	$2,256,473
2 BACKFILL AND SITE RESTORATION, NO CAP	TASK 2 ESTIMATED TOTAL	$80,227
3 SUPPORT SERVICES, SITE RESTORATION, ETC.	TASK 3 ESTIMATED TOTAL	$143,202
	ESTIMATED TOTAL TASKS 1-3	$2,479,902
	ENGINEERING ESTIMATE @ 12%	$297,588
	PROJECT ESTIMATE	$2,777,490
	CONTINGENCY @ 20%	$555,498
	PROJECT ESTIMATE W/ CONTINGENCY	$3,332,988