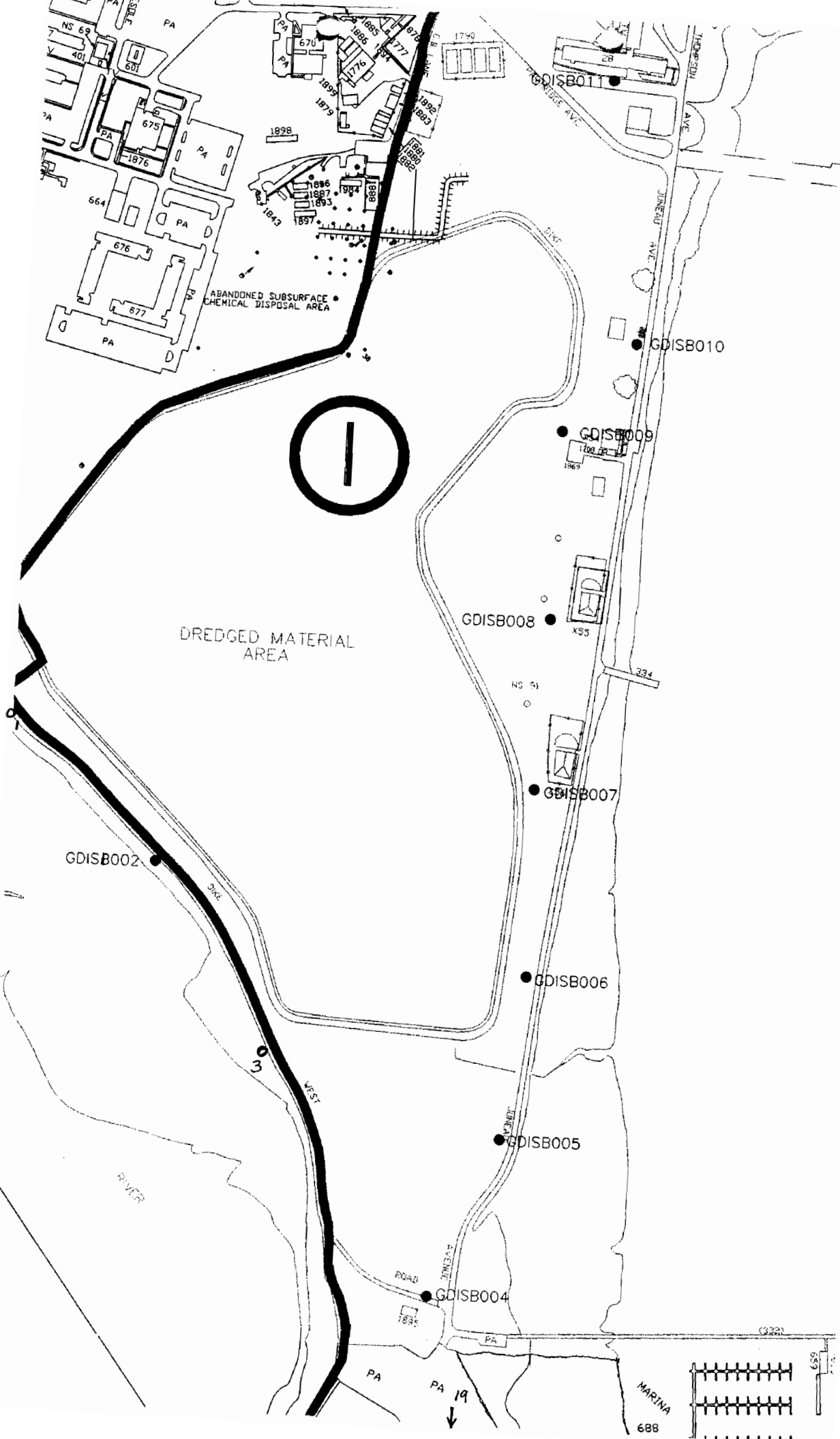
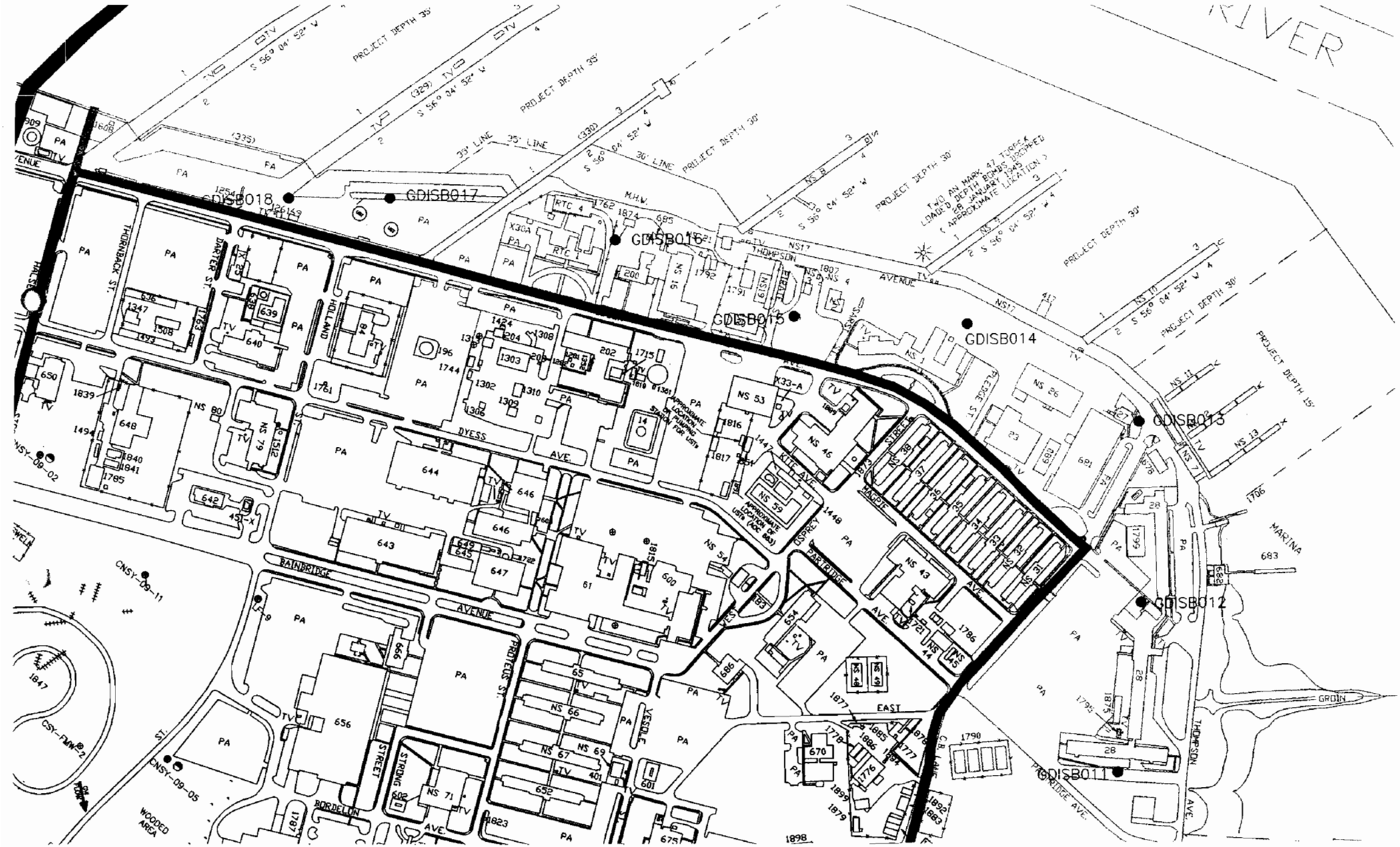
N61165.AR.003842
CNC CHARLESTON
5090.3a

ZONE I BACKGROUND INFORMATION CNC CHARLESTON SC
5/20/1997
NAVFAC SOUTHERN

ZONE I BACKGROUND



GDISB011
GDISB010
GDISB009
GDISB008
GDISB007
GDISB006
GDISB005
GDISB004
GDISB002
ABANDONED SUBSURFACE CHEMICAL DISPOSAL AREA
DREDGED MATERIAL AREA
DIKE
WEST
RIVER
ROAD
AVENUE
JUNEAU AVE
THOMPSON AVE
P-860
MARINA
688
PA



GDISB018
GDISB017
GDISB016
GDISB015
GDISB014
GDISB013
GDISB012
GDISB011
RIVER
PROJECT DEPTH 35'
PROJECT DEPTH 30'
PROJECT DEPTH 15'
35' LINE
30' LINE
M.H.W.
THOMPSON AVENUE
DYESS AVE.
BAINBRIDGE AVENUE
PROTEUS ST.
BORDELON AVE.
KITE AVE.
PARTRIDGE AVE.
MAGPIE
OSPREY
EAST
THORNBACK ST.
DARTER ST.
HOLLAND
PLEDGE ST.
MARINA
GROIN
WOODED AREA
CNSY-09-11
CNSY-09-05
CSY-FMW-2

DATALCP3
05/20/97

CHARLESTON - ZONE I
Background Sample Results
Shallow Groundwater: Round 1

SW846-META	SAMPLE ID ------->	GDI-G-W001-01		GDI-G-W002-01		GDI-G-W003-01		GDI-G-W004-01		GDI-G-W005-01		GDI-G-W006-01	
	ORIGINAL ID ----->	GRDGW00101		GRDGW00201		GRDGW00301		GRDGW00401		GRDGW00501		GRDGW00601	
	LAB SAMPLE ID --->	707010		707023		707039		706205		709156		709181	
	ID FROM REPORT -->	GRDGW00101		GRDGW00201		GRDGW00301		GRDGW00401		GRDGW00501		GRDGW00601	
	SAMPLE DATE ----->	04/24/95		04/24/95		04/24/95		04/21/95		04/25/95		04/25/95	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	00575M	VAL	00575M	VAL	00575M	VAL	00575M	VAL	00575M	VAL	00575M	VAL
7429-90-5	Aluminum (Al)	19.2	U	19.2	U	19.2	U	1190.		19.2	U	19.2	U
7439-89-6	Iron (Fe)	981.		23700.		8530.		10700.		4280.		15.7	U
7439-92-1	Lead (Pb)	8.5		15.6		2.7	J	3.9	J	1.9	J	2.6	J
7440-02-0	Nickel (Ni)	4.9	J	4.4	J	2.	J	4.9	J	1.4	U	1.4	U
7440-09-7	Potassium (K)	86900.	J	222000.	J	302000.	J	95100.	J	368000.	J	319000.	J
7440-22-4	Silver (Ag)	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
7440-23-5	Sodium (Na)	854000.		4050000.		4720000.		823000.		5970000.		4940000.	
7440-28-0	Thallium (Tl)	4.5	UJ	4.5	UJ	4.5	UJ	4.5	UJ	4.5	UJ	4.5	UJ
7440-36-0	Antimony (Sb)	1.9	U	1.9	U	1.9	U	1.9	U	1.9	U	1.9	U
7440-38-2	Arsenic (As)	3.2	U	6.4	J	3.2	U	10.		3.2	U	3.2	U
7440-39-3	Barium (Ba)	38.	J	102.	J	78.6	J	33.7	J	124.	J	66.9	J
7440-41-7	Beryllium (Be)	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
7440-43-9	Cadmium (Cd)	0.3	U	0.76	J	0.3	U	0.3	U	0.3	U	0.3	U
7440-48-4	Cobalt (Co)	0.7	J	2.1	J	1.	J	1.2	J	0.6	U	0.96	J
7440-50-8	Copper (Cu)	1.6	J	0.7	U	0.7	UJ	2.5	J	0.7	UJ	0.7	UJ
7440-62-2	Vanadium (V)	1.3	J	2.3	J	1.3	J	3.3	J	2.6	J	2.7	J
7440-66-6	Zinc (Zn)	7.1	J	11.3	J	18.	J	16.7	J	11.4	J	15.7	J
7782-49-2	Selenium (Se)	4.4	U	4.4	U	6.1	U	4.4	U	4.4	U	4.4	U
7439-97-6	Mercury (Hg)	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
7439-95-4	Magnesium (Mg)	150000.		582000.		598000.		118000.		878000.		754000.	
7439-96-5	Manganese (Mn)	3060.		1470.		616.		546.		360.		102.	
7440-70-2	Calcium (Ca)	394000.		396000.		213000.		222000.		311000.		225000.	
7440-47-3	Chromium (Cr)	1.1	J	0.9	U	2.3	J	4.	J	1.9	J	1.9	J
7440-31-5	Tin (Sn)	5.9	U	5.9	U	5.9	U	5.9	U	5.9	U	5.9	U

*** Validation Complete ***

CHARLESTON - ZONE I
Background Sample Results
Shallow Groundwater: Round 1

SW846-META															
		SAMPLE ID ------->	GDI-G-W007-01		GDI-G-W008-01		GDI-H-W008-01		GDI-G-W009-01		GDI-H-W009-01		GDI-G-W010-01		
		ORIGINAL ID ----->	GRDGW00701		GRDGW00801		GRDHW00801		GRDGW00901		GRDHN00901		GRDGW01001		
		LAB SAMPLE ID --->	710916		711566		711588		711552		713827		711607		
		ID FROM REPORT -->	GRDGW00701		GRDGW00801		GRDHW00801		GRDGW00901		GRDHN00901		GRDGW01001		
		SAMPLE DATE ----->	05/01/95		05/02/95		05/02/95		05/02/95		05/05/95		05/02/95		
		MATRIX ---------->	Water		Water		Water		Water		Water		Water		
		UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L		
CAS #	Parameter		00575M	VAL	00576M	VAL	00576M	VAL	00575M	VAL	00575M	VAL	00576M	VAL	
7429-90-5	Aluminum (Al)		19.2	U	451.		19.2	U	19.2	U	19.2	U	19.2	U	
7439-89-6	Iron (Fe)		4330.		6630.	J	6190.	J	31900.		27700.		175.		
7439-92-1	Lead (Pb)		12.7		4.4		3.8		1.9	U	1.9	U	3.6		
7440-02-0	Nickel (Ni)		3.8	J	2.3	J	1.4	U	1.4	U	1.4	U	1.4	U	
7440-09-7	Potassium (K)		329000.	J	104000.	J	116000.	J	180000.	J	153000.	J	155000.	J	
7440-22-4	Silver (Ag)		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	
7440-23-5	Sodium (Na)		5150000.		1050000.		1250000.		2140000.		1870000.		1560000.		
7440-28-0	Thallium (Tl)		4.5	UJ	4.5	U	4.5	U	4.5	UJ	4.5	UJ	4.5	U	
7440-36-0	Antimony (Sb)		1.9	U	1.9	U	1.9	U	1.9	U	1.9	U	1.9	U	
7440-38-2	Arsenic (As)		3.2	U	3.2	U	3.2	U	25.9		20.		3.2	U	
7440-39-3	Barium (Ba)		83.7	J	34.9	J	36.	J	65.6	J	56.	J	34.4	J	
7440-41-7	Beryllium (Be)		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	
7440-43-9	Cadmium (Cd)		0.3	U	0.3	U	0.3	U	0.52	J	0.34	J	0.3	U	
7440-48-4	Cobalt (Co)		0.66	J	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	
7440-50-8	Copper (Cu)		1.3	J	3.3	U	2.1	U	0.7	U	0.7	UJ	0.7	U	
7440-62-2	Vanadium (V)		4.4	J	3.7	J	3.6	J	2.7	J	2.5	J	4.	J	
7440-66-6	Zinc (Zn)		20.9		26.		14.6	J	12.4	J	6.3	J	10.9	J	
7782-49-2	Selenium (Se)		4.4	U	4.4	U	4.4	U	4.4	U	6.3	U	4.4	U	
7439-97-6	Mercury (Hg)		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	
7439-95-4	Magnesium (Mg)		795000.		183000.		210000.		319000.		267000.		243000.		
7439-96-5	Manganese (Mn)		824.		1630.		1580.		4850.		4200.		130.		
7440-70-2	Calcium (Ca)		294000.		245000.		249000.		403000.		356000.		337000.		
7440-47-3	Chromium (Cr)		7.	J	3.7	J	3.	J	1.6	J	1.8	J	2.8	J	
7440-31-5	Tin (Sn)		5.9	U	5.9	U	5.9	U	5.9	U	5.9	U	5.9	U	

*** Validation Complete ***

CHARLESTON - ZONE I
Background Sample Results
Shallow Groundwater: Round 1

SW846-META															
	SAMPLE ID ------->	GDI-G-W011-01		GDI-G-W012-01		GDI-H-W012-01		GDI-G-W013-01		GDI-G-W014-01		GDI-G-W015-01	
	ORIGINAL ID ------>	GDIGW01101		GD1GW01201		GD1HW01201		GRDGW01301		GDIGW01401		GDIGW01501	
	LAB SAMPLE ID --->	720438		718093		718134		709255		721537		721966	
	ID FROM REPORT -->	GDIGW01101		GD1GW01201		GD1HW01201		GRDGW01301		GDIGW01401		GDIGW01501	
	SAMPLE DATE ----->	05/19/95		05/15/95		05/15/95		04/26/95		05/22/95		05/23/95	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	00577M	VAL	00576M	VAL	00576M	VAL	00575M	VAL	00577M	VAL	00577M	VAL
7429-90-5	Aluminum (Al)	19.2	UJ	19.2	U	19.2	U	19.2	U	105.	UJ	67.6	U
7439-89-6	Iron (Fe)	632.	J	3950.	J	3670.	J	19000.		9620.	J	756.	
7439-92-1	Lead (Pb)	1.9	U	3.8		4.		2.	J	2.4	J	2.5	J
7440-02-0	Nickel (Ni)	3.6	J	2.4	J	1.6	J	1.4	U	1.5	J	3.4	J
7440-09-7	Potassium (K)	550000.	J	74600.	J	66000.	J	78300.	J	30600.	J	11200.	J
7440-22-4	Silver (Ag)	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
7440-23-5	Sodium (Na)	8120000.		843000.		752000.		532000.		54800.		84300.	
7440-28-0	Thallium (Tl)	4.5	U	4.5	U	4.5	U	4.5	UJ	4.5	U	4.5	U
7440-36-0	Antimony (Sb)	1.9	U	1.9	U	1.9	U	1.9	U	1.9	U	1.9	U
7440-38-2	Arsenic (As)	16.1		3.2	U	3.2	U	9.7	J	3.2	U	3.2	U
7440-39-3	Barium (Ba)	278.		21.2	J	19.9	J	37.8	J	18.	J	11.7	J
7440-41-7	Beryllium (Be)	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
7440-43-9	Cadmium (Cd)	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U
7440-48-4	Cobalt (Co)	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U
7440-50-8	Copper (Cu)	0.7	U	1.8	U	3.6	U	0.7	UJ	3.2	J	1.7	J
7440-62-2	Vanadium (V)	10.9	J	0.4	U	0.44	J	0.67	J	2.3	U	4.3	U
7440-66-6	Zinc (Zn)	24.2	J	15.7	J	15.4	J	7.3	J	15.4	J	13.6	J
7782-49-2	Selenium (Se)	4.4	U	4.4	U	4.4	U	4.6	U	4.4	U	4.4	U
7439-97-6	Mercury (Hg)	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
7439-95-4	Magnesium (Mg)	1410000.		125000.		112000.		105000.		31700.		20500.	
7439-96-5	Manganese (Mn)	172.		101.		94.6		236.		512.		49.1	
7440-70-2	Calcium (Ca)	964000.		173000.		161000.		308000.		144000.		89400.	
7440-47-3	Chromium (Cr)	6.9	J	2.2	J	5.1	J	0.9	U	2.	U	2.3	U
7440-31-5	Tin (Sn)	5.9	U	5.9	U	5.9	U	5.9	U	5.9	U	5.9	U

*** Validation Complete ***

CHARLESTON - ZONE I
Background Sample Results
Shallow Groundwater: Round 1

SW846-META											
	SAMPLE ID ------->	GDI-H-W015-01		GDI-G-W016-01		GDI-G-W017-01		GDI-G-W018-01		GDI-G-W019-01	
	ORIGINAL ID ----->	GDIHW01501		GDIGW01601		GDIGW01701		GDIGW01801		GRDGW01901	
	LAB SAMPLE ID --->	722040		723425		721995		723353		706159	
	ID FROM REPORT -->	GDIHW01501		GDIGW01601		GDIGW01701		GDIGW01801		GRDGW01901	
	SAMPLE DATE ----->	05/23/95		05/24/95		05/23/95		05/24/95		04/21/95	
	MATRIX ---------->	Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	00577M	VAL	00577M	VAL	00577M	VAL	00577M	VAL	00575M	VAL
7429-90-5	Aluminum (Al)	53.1	UJ	108.	UJ	103.	UJ	19.2	UJ	341.	
7439-89-6	Iron (Fe)	785.	J	1210.	J	9220.	J	102.	U	3450.	
7439-92-1	Lead (Pb)	3.5		2.9	J	3.4		1.9	U	3.3	J
7440-02-0	Nickel (Ni)	1.4	U	1.4	U	1.4	U	1.4	U	3.5	J
7440-09-7	Potassium (K)	15200.	J	11400.	J	11200.	J	104000.	J	105000.	J
7440-22-4	Silver (Ag)	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
7440-23-5	Sodium (Na)	115000.		20300.		44400.		1520000.		930000.	
7440-28-0	Thallium (Tl)	4.5	U	4.5	U	4.5	U	4.5	U	4.5	UJ
7440-36-0	Antimony (Sb)	1.9	U	1.9	U	1.9	U	1.9	U	1.9	U
7440-38-2	Arsenic (As)	3.2	U	3.2	U	20.9		3.2	U	3.2	U
7440-39-3	Barium (Ba)	13.2	J	7.1	J	18.7	J	83.1	J	29.9	J
7440-41-7	Beryllium (Be)	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
7440-43-9	Cadmium (Cd)	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U
7440-48-4	Cobalt (Co)	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U
7440-50-8	Copper (Cu)	0.95		0.7	U	0.7	U	0.7	U	1.2	J
7440-62-2	Vanadium (V)	3.2	U	2.7	U	2.5	U	3.7	U	3.3	J
7440-66-6	Zinc (Zn)	19.4	J	9.4	J	11.1	J	12.2	J	53.4	
7782-49-2	Selenium (Se)	4.4	U	4.4	U	4.4	U	4.4	U	4.4	U
7439-97-6	Mercury (Hg)	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
7439-95-4	Magnesium (Mg)	27500.		15100.		14700.		138000.		113000.	
7439-96-5	Manganese (Mn)	53.2		98.6		445.		23.4		663.	
7440-70-2	Calcium (Ca)	102000.		39000.		112000.		81700.		181000.	
7440-47-3	Chromium (Cr)	1.4	U	1.6	U	1.8	U	8.1	J	3.5	J
7440-31-5	Tin (Sn)	5.9	U	5.9	U	5.9	U	5.9	U	5.9	U

*** Validation Complete ***

DATALCP3
05/20/97

CHARLESTON - ZONE I
Background Sample Results
Shallow Groundwater: Rounds 2, 3, 4

SW846-META													
	SAMPLE ID ------->	GDI-G-W001-02		GDI-G-W001-03		GDI-G-W001-04		GDI-G-W002-02		GDI-G-W002-03		GDI-G-W002-04	
	ORIGINAL ID ----->	GDIGW00102		GDIGW00103		GDIGW00104		GDIGW00202		GDIGW00203		GDIGW00204	
	LAB SAMPLE ID --->	24290.07		25623.02		26670.01		24290.05		25639.01		26681.01	
	ID FROM REPORT -->	GDIGW00102		GDIGW00103		GDIGW00104		GDIGW00202		GDIGW00203		GDIGW00204	
	SAMPLE DATE ----->	12/12/95		05/15/96		08/19/96		12/12/95		05/16/96		08/20/96	
	DATE EXTRACTED -->	12/18/95		05/21/96		08/27/96		12/18/95		06/01/96		08/30/96	
	DATE ANALYZED --->	12/20/95		05/31/96		09/12/96		12/20/95		06/08/96		09/10/96	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	24276	VAL	25623	VAL	26670	VAL	24276	VAL	25623	VAL	26670	VAL
7429-90-5	Aluminum (Al)	274.		146.	U	155.	J	25.	U	18.	U	18.	U
7440-36-0	Antimony (Sb)	4.	U	30.	U	2.1	U	4.	U	3.1	J	2.1	U
7440-38-2	Arsenic (As)	9.8	J	11.7		6.5	J	10.4		11.9		5.4	J
7440-39-3	Barium (Ba)	38.7	J	46.6	U	36.1	J	68.1	J	62.	UJ	87.6	J
7440-41-7	Beryllium (Be)	1.	U	1.	U	0.67	U	1.	U	0.73	J	0.7	U
7440-43-9	Cadmium (Cd)	1.	U	4.	U	0.5	UJ	1.	U	0.5	U	0.5	UJ
7440-70-2	Calcium (Ca)	386000.	J	475000.		324000.		668000.	J	481000.	J	434000.	
7440-47-3	Chromium (Cr)	1.	U	5.	U	5.7	J	1.	U	0.94	J	0.8	UJ
7440-48-4	Cobalt (Co)	2.	U	5.	U	1.4	UJ	4.2	J	6.3	UJ	0.9	UJ
7440-50-8	Copper (Cu)	2.	UJ	2.	U	1.9	UJ	2.	UJ	0.6	U	0.6	UJ
7439-89-6	Iron (Fe)	1770.		7110.		5530.	J	3990.		5930.	J	15600.	J
7439-92-1	Lead (Pb)	3.	U	4.7		1.7	UJ	3.	U	1.7	UJ	1.7	UJ
7439-95-4	Magnesium (Mg)	146000.	J	179000.		380000.		336000.	J	343000.	J	483000.	
7439-96-5	Manganese (Mn)	2920.	J	3230.		1280.	J	2580.	J	1860.	J	1300.	J
7439-97-6	Mercury (Hg)	1.1		0.2	U	0.1	U	0.2	U	0.1	U	0.1	U
7440-02-0	Nickel (Ni)	4.6	J	10.	U	3.	J	16.3	J	12.8	J	1.6	J
7440-09-7	Potassium (K)	54700.	J	53900.		115000.		124000.	J	94900.		126000.	
7782-49-2	Selenium (Se)	5.	U	5.	U	2.8	UJ	5.	U	2.8	UJ	2.8	UJ
7440-22-4	Silver (Ag)	2.	UJ	5.	U	3.9	UJ	2.	UJ	3.4	U	1.2	U
7440-23-5	Sodium (Na)	951000.		1170000.		3080000.		2620000.		2650000.		4230000.	
7440-31-5	Tin (Sn)	20.	U	20.	U	2.7	J	20.	U	5.2	U	2.6	UJ
7440-28-0	Thallium (Tl)	5.	U	5.5	J	6.2	UJ	6.6	J	3.5	J	2.7	UJ
7440-62-2	Vanadium (V)	9.8	J	6.5	J	11.3	J	1.2	J	2.9	J	1.5	UJ
7440-66-6	Zinc (Zn)	4.	U	4.	U	5.3	U	4.	U	5.3	U	5.3	U

*** Validation Complete ***

CHARLESTON - ZONE I
Background Sample Results
Shallow Groundwater: Rounds 2, 3, 4

SW846-META													
	SAMPLE ID ------->	GDI-G-W003-02		GDI-G-W003-03		GDI-G-W003-04		GDI-G-W004-02		GDI-G-W004-03		GDI-G-W004-04	
	ORIGINAL ID ----->	GDIGW00302		GDIGW00303		GDIGW00304		GDIGW00402		GDIGW00403		GDIGW00404	
	LAB SAMPLE ID --->	24325.01		25675.02		26693.01		24310.06		25705.01		26711.01	
	ID FROM REPORT -->	GDIGW00302		GDIGW00303		GDIGW00304		GDIGW00402		GDIGW00403		GDIGW00404	
	SAMPLE DATE ----->	12/14/95		05/20/96		08/21/96		12/13/95		05/21/96		08/22/96	
	DATE EXTRACTED -->	12/18/95		06/01/96		08/30/96		12/18/95		06/01/96		08/30/96	
	DATE ANALYZED --->	12/20/95		06/08/96		09/10/96		12/20/95		06/17/96		09/10/96	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	24310	VAL	25623	VAL	26670	VAL	24310	VAL	25623	VAL	26711	
7429-90-5	Aluminum (Al)	141.	J	86.1	U	67.8	J	1550.		814.		1440.	
7440-36-0	Antimony (Sb)	4.	U	3.1	J	2.1	UJ	4.	U	30.	U	2.1	U
7440-38-2	Arsenic (As)	5.	U	2.9	J	4.9	J	19.2		22.1		17.6	U
7440-39-3	Barium (Ba)	81.5	J	79.2	UJ	101.	J	33.4	J	39.7	U	39.2	J
7440-41-7	Beryllium (Be)	1.	UJ	0.96	J	0.96	U	1.	UJ	1.	U	0.74	U
7440-43-9	Cadmium (Cd)	1.	UJ	0.5	U	0.5	UJ	1.	U	4.	U	0.5	U
7440-70-2	Calcium (Ca)	219000.	J	224000.	J	214000.		239000.	J	271000.		252000.	
7440-47-3	Chromium (Cr)	1.	UJ	1.5	J	1.5	J	3.4	J	5.	U	7.1	J
7440-48-4	Cobalt (Co)	2.	UJ	2.7	UJ	0.9	UJ	2.	UJ	5.	U	0.9	UJ
7440-50-8	Copper (Cu)	2.	UJ	0.6	U	0.6	UJ	4.4	J	5.2	J	2.3	UJ
7439-89-6	Iron (Fe)	6430.	J	7180.	J	6190.	J	11900.	J	11600.		9320.	
7439-92-1	Lead (Pb)	3.	UJ	1.7	UJ	1.7	UJ	3.	UJ	3.	U	4.2	
7439-95-4	Magnesium (Mg)	755000.		814000.	J	941000.		111000.		144000.		146000.	
7439-96-5	Manganese (Mn)	543.	J	509.	J	409.	J	736.	J	913.		735.	
7439-97-6	Mercury (Hg)	0.2	U	0.1	U	0.1	U	0.2	U	0.2	U	0.1	U
7440-02-0	Nickel (Ni)	1.	UJ	1.3	J	0.8	UJ	6.8	J	10.	U	10.1	J
7440-09-7	Potassium (K)	230000.	J	204000.		217000.		74100.		69200.		88800.	
7782-49-2	Selenium (Se)	5.	U	2.8	UJ	2.8	UJ	5.	U	5.	U	2.8	U
7440-22-4	Silver (Ag)	2.	UJ	3.4	U	1.2	UJ	2.	UJ	5.	U	1.2	U
7440-23-5	Sodium (Na)	6940000.		6770000.		7080000.		915000.		1320000.		1470000.	
7440-31-5	Tin (Sn)	20.	U	3.8	U	2.9	J	20.	U	20.	U	2.6	U
7440-28-0	Thallium (Tl)	5.	UJ	2.8	J	2.7	UJ	5.	UJ	5.	U	2.7	UJ
7440-62-2	Vanadium (V)	2.5	J	5.4	J	3.3	UJ	4.	J	5.	U	4.	UJ
7440-66-6	Zinc (Zn)	4.	UJ	5.3	U	5.3	U	6.2	J	4.	U	10.	J

*** Validation Complete ***

CHARLESTON - ZONE I
Background Sample Results
Shallow Groundwater: Rounds 2, 3, 4

SW846-META													
	SAMPLE ID ------->	GDI-G-W005-02		GDI-G-W005-03		GDI-G-W005-04		GDI-G-W006-02		GDI-H-W006-02		GDI-G-W006-03	
	ORIGINAL ID ----->	GDIGW00502		GDIGW00503		GDIGW00504		GDIGW00602		GDIHW00602		GDIGW00603	
	LAB SAMPLE ID --->	24325.02		25675.03		26670.03		24263.02		24262.01		25659.01	
	ID FROM REPORT -->	GDIGW00502		GDIGW00503		GDIGW00504		GDIGW00602		GDIHW00602		GDIGW00603	
	SAMPLE DATE ----->	12/14/95		05/20/96		08/19/96		12/08/95		12/08/95		05/17/96	
	DATE EXTRACTED -->	12/18/95		06/01/96		08/27/96		12/11/95		12/11/95		06/01/96	
	DATE ANALYZED --->	12/20/95		06/08/96		09/12/96		12/14/95		12/14/95		06/08/96	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	24310	VAL	25623	VAL	26670	VAL	24229	VAL	24229	VAL	25623	VAL
7429-90-5	Aluminum (Al)	25.	U	18.	U	23.	U	25.	UJ	25.	UJ	18.	U
7440-36-0	Antimony (Sb)	4.	U	2.1	U	2.1	UJ	4.	U	4.	U	3.1	J
7440-38-2	Arsenic (As)	5.	U	2.5	U	2.5	U	5.	U	5.	U	4.8	J
7440-39-3	Barium (Ba)	147.	J	112.	UJ	120.	J	58.5	J	56.7	J	55.4	UJ
7440-41-7	Beryllium (Be)	1.	UJ	0.98	J	0.8	U	1.1	J	1.	U	0.94	J
7440-43-9	Cadmium (Cd)	1.	UJ	0.5	U	0.5	UJ	1.	U	1.	U	0.5	U
7440-70-2	Calcium (Ca)	233000.	J	281000.	J	249000.		200000.		196000.		204000.	J
7440-47-3	Chromium (Cr)	1.	UJ	23.8	J	0.8	UJ	1.5	J	1.	J	1.7	J
7440-48-4	Cobalt (Co)	2.	UJ	1.6	UJ	0.9	UJ	2.	U	2.	U	4.3	UJ
7440-50-8	Copper (Cu)	2.	UJ	0.6	U	0.6	UJ	2.	U	2.	U	1.6	J
7439-89-6	Iron (Fe)	1490.	J	876.	J	605.	J	111.		114.		74.5	J
7439-92-1	Lead (Pb)	3.	UJ	1.7	UJ	1.7	UJ	3.	U	3.	U	1.7	UJ
7439-95-4	Magnesium (Mg)	789000.		892000.	J	868000.		900000.		860000.		798000.	J
7439-96-5	Manganese (Mn)	277.	J	186.	J	167.	J	94.4		91.5		90.7	J
7439-97-6	Mercury (Hg)	0.2	U	0.1	U	0.1	U	0.2	U	0.2	U	0.1	U
7440-02-0	Nickel (Ni)	1.	UJ	10.7	J	0.8	UJ	1.	U	1.	U	1.4	J
7440-09-7	Potassium (K)	229000.	J	227000.		222000.		233000.	J	216000.		191000.	
7782-49-2	Selenium (Se)	5.	U	2.8	UJ	2.8	UJ	5.	UJ	5.	U	2.8	UJ
7440-22-4	Silver (Ag)	2.	UJ	3.4	U	1.2	UJ	2.	U	2.	U	3.4	U
7440-23-5	Sodium (Na)	7260000.		7530000.		7070000.		7110000.		6550000.		6230000.	
7440-31-5	Tin (Sn)	20.	U	5.2	U	2.6	UJ	20.	U	20.	U	5.4	U
7440-28-0	Thallium (Tl)	5.	UJ	3.	J	2.7	UJ	5.	U	5.	U	2.7	UJ
7440-62-2	Vanadium (V)	3.3	J	4.6	J	3.6	UJ	3.7	J	2.9	J	5.	J
7440-66-6	Zinc (Zn)	4.	UJ	5.3	U	5.3	U	4.	U	4.	U	5.3	U

*** Validation Complete ***

CHARLESTON - ZONE I
Background Sample Results
Shallow Groundwater: Rounds 2, 3, 4

SW846-META													
	SAMPLE ID ------->	GDI-H-W006-03		GDI-G-W006-04		GDI-H-W006-04		GDI-G-W007-02		GDI-G-W007-03		GDI-G-W007-04	
	ORIGINAL ID ----->	GDIHW00603		GDIGW00604		GDIHW00604		GDIGW00702		GDIGW00703		GDIGW00704	
	LAB SAMPLE ID --->	25660.01		26681.03		26682.01		24310.02		25705.02		26693.03	
	ID FROM REPORT -->	GDIHW00603		GDIGW00604		GDIHW00604		GDIGW00702		GDIGW00703		GDIGW00704	
	SAMPLE DATE ----->	05/17/96		08/20/96		08/20/96		12/13/95		05/21/96		08/21/96	
	DATE EXTRACTED -->	06/01/96		08/30/96		08/30/96		12/18/95		06/01/96		08/30/96	
	DATE ANALYZED --->	06/08/96		09/10/96		09/10/96		12/20/95		06/17/96		09/10/96	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	25623	VAL	26670	VAL	26670	VAL	24310	VAL	25623	VAL	26670	VAL
7429-90-5	Aluminum (Al)	25.	U	18.	U	18.	U	52.4	J	30.	U	18.	U
7440-36-0	Antimony (Sb)	4.	U	2.1	UJ	8.4	J	4.	U	30.	U	2.1	UJ
7440-38-2	Arsenic (As)	5.	U	5.8	J	2.5	U	5.	U	5.	U	3.8	J
7440-39-3	Barium (Ba)	55.9	U	65.2	J	64.9	J	58.	J	77.8	U	82.3	J
7440-41-7	Beryllium (Be)	1.	U	0.88	U	0.95	U	1.	UJ	1.	U	0.9	U
7440-43-9	Cadmium (Cd)	1.	U	0.5	UJ	0.5	U	2.3	J	4.	U	0.5	UJ
7440-70-2	Calcium (Ca)	209000.		204000.		213000.	J	201000.	J	246000.		240000.	
7440-47-3	Chromium (Cr)	1.	U	2.2	J	0.8	UJ	1.	UJ	5.	U	1.5	J
7440-48-4	Cobalt (Co)	2.1	U	0.9	UJ	2.2	J	2.	UJ	5.	U	0.9	UJ
7440-50-8	Copper (Cu)	2.	U	0.6	UJ	0.6	UJ	2.	UJ	2.	U	0.6	UJ
7439-89-6	Iron (Fe)	92.7	U	32.	UJ	67.9	J	9000.	J	6590.		4220.	J
7439-92-1	Lead (Pb)	3.	U	2.1	J	1.7	U	15.7	J	3.	U	1.7	UJ
7439-95-4	Magnesium (Mg)	825000.		894000.		795000.		579000.		852000.		1010000.	
7439-96-5	Manganese (Mn)	92.		97.6	J	102.	J	646.	J	634.		544.	J
7439-97-6	Mercury (Hg)	0.2	U	0.1	U	0.1	U	0.2	U	0.2	U	0.1	U
7440-02-0	Nickel (Ni)	1.	U	1.3	J	0.8	U	1.1	J	10.	U	0.8	UJ
7440-09-7	Potassium (K)	199000.		217000.		215000.		234000.	J	206000.		215000.	
7782-49-2	Selenium (Se)	5.	U	2.8	UJ	2.8	U	5.	U	5.	U	2.9	UJ
7440-22-4	Silver (Ag)	5.	U	1.2	UJ	4.6	J	2.	UJ	5.	U	1.2	UJ
7440-23-5	Sodium (Na)	6380000.		6550000.		5750000.		5380000.		6890000.		7380000.	
7440-31-5	Tin (Sn)	20.	U	3.3	J	2.6	U	20.	U	20.	U	2.6	UJ
7440-28-0	Thallium (Tl)	5.	U	2.7	UJ	2.7	UJ	5.	UJ	5.	U	2.7	UJ
7440-62-2	Vanadium (V)	4.3	U	5.4	UJ	7.3	J	2.6	J	5.	U	0.5	UJ
7440-66-6	Zinc (Zn)	4.	U	5.3	U	5.3	U	4.	UJ	4.	U	5.3	U

*** Validation Complete ***

CHARLESTON - ZONE I
Background Sample Results
Shallow Groundwater: Rounds 2, 3, 4

SW846-META													
	SAMPLE ID ------->	GDI-G-W008-02		GDI-G-W008-03		GDI-G-W008-04		GDI-G-W009-02		GDI-G-W009-03		GDI-G-W009-04	
	ORIGINAL ID ----->	GDIGW00802		GDIGW00803		GDIGW00804		GDIGW00902		GDIGW00903		GDIGW00904	
	LAB SAMPLE ID --->	24290.04		25724.01		26711.03		24276.02		25814.03		26724.01	
	ID FROM REPORT -->	GDIGW00802		GDIGW00803		GDIGW00804		GDIGW00902		GDIGW00903		GDIGW00904	
	SAMPLE DATE ----->	12/12/95		05/22/96		08/22/96		12/11/95		05/30/96		08/23/96	
	DATE EXTRACTED -->	12/14/95		06/01/96		08/30/96		12/14/95		06/17/96		09/03/96	
	DATE ANALYZED --->	12/18/95		06/17/96		09/10/96		12/18/95		07/01/96		09/12/96	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	24276	VAL	25724	VAL	26711	VAL	24276	VAL	25814	VAL	26711	VAL
7429-90-5	Aluminum (Al)	55.4	J	40.2	J	28.2	UJ	25.	U	25.	U	18.	UJ
7440-36-0	Antimony (Sb)	4.	U	5.6	J	6.2	U	4.	U	4.	U	2.1	U
7440-38-2	Arsenic (As)	5.	U	5.	U	2.5	U	31.		18.2		23.	
7440-39-3	Barium (Ba)	31.2	J	36.5	J	42.7	J	46.9	J	43.4	U	57.7	J
7440-41-7	Beryllium (Be)	1.	U	1.	U	0.8	U	1.	U	1.	U	0.49	U
7440-43-9	Cadmium (Cd)	1.	U	1.	U	0.5	U	1.	U	1.	U	0.5	U
7440-70-2	Calcium (Ca)	253000.	J	286000.		246000.		285000.	J	246000.		325000.	
7440-47-3	Chromium (Cr)	1.	U	1.	U	0.8	U	1.	U	1.2	J	1.3	J
7440-48-4	Cobalt (Co)	2.	U	2.	U	2.	UJ	2.	U	5.	U	0.9	UJ
7440-50-8	Copper (Cu)	2.	UJ	2.	U	0.6	UJ	2.	UJ	2.	U	0.6	UJ
7439-89-6	Iron (Fe)	7220.		4730.		379.		22400.		15300.		20600.	
7439-92-1	Lead (Pb)	3.	U	3.	U	1.7	U	3.	U	3.	U	1.7	U
7439-95-4	Magnesium (Mg)	193000.	J	232000.		311000.		208000.	J	192000.		255000.	
7439-96-5	Manganese (Mn)	1720.	J	1670.		917.		3560.	J	2830.		3560.	
7439-97-6	Mercury (Hg)	0.2	U	0.2	U	0.1	U	0.2	U	0.2	UJ	0.1	U
7440-02-0	Nickel (Ni)	1.9	J	1.	U	0.8	U	1.	J	1.1	U	1.	J
7440-09-7	Potassium (K)	76500.	J	66900.		111000.		98600.	J	82600.		160000.	U
7782-49-2	Selenium (Se)	5.	U	5.	U	2.8	U	5.	U	5.	U	3.1	U
7440-22-4	Silver (Ag)	2.	UJ	2.	U	4.6	UJ	2.	UJ	2.	UJ	1.2	U
7440-23-5	Sodium (Na)	1210000.		1800000.		2820000.		1860000.		1860000.		1460000.	
7440-31-5	Tin (Sn)	20.	U	20.	U	2.6	U	20.	U	20.	U	2.6	U
7440-28-0	Thallium (Tl)	5.	U	5.	U	2.7	UJ	7.5	J	5.	U	2.7	UJ
7440-62-2	Vanadium (V)	1.7	J	2.1	U	5.8	J	2.	J	1.3	J	0.5	UJ
7440-66-6	Zinc (Zn)	4.	U	4.	U	5.3	U	4.	U	4.	U	5.3	U

*** Validation Complete ***

CHARLESTON - ZONE I
Background Sample Results
Shallow Groundwater: Rounds 2, 3, 4

SW846-META															
		SAMPLE ID ------->	GDI-G-W010-02		GDI-G-W010-03		GDI-G-W010-04		GDI-G-W011-02		GDI-G-W011-03		GDI-G-W011-04		
		ORIGINAL ID ----->	GDIGW01002		GDIGW01003		GDIGW01004		GDIGW01102		GDIGW01103		GDIGW01104		
		LAB SAMPLE ID --->	24276.03		25826.01		26740.01		24325.05		25741.01		26796.05		
		ID FROM REPORT -->	GDIGW01002		GDIGW01003		GDIGW01004		GDIGW01102		GDIGW01103		GDIGW01104		
		SAMPLE DATE ----->	12/11/95		05/31/96		08/26/96		12/14/95		05/23/96		08/29/96		
		DATE EXTRACTED -->	12/14/95		06/17/96		09/03/96		12/18/95		06/01/96		09/06/96		
		DATE ANALYZED --->	12/18/95		07/01/96		09/12/96		12/20/95		06/17/96		09/08/96		
		MATRIX ---------->	Water		Water		Water		Water		Water		Water		
		UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L		
CAS #	Parameter		24276	VAL	25814	VAL	26711	VAL	24310	VAL	25724	VAL	26768	VAL	
7429-90-5	Aluminum (Al)		25.	U	25.	UJ	18.4	UJ	38.9	J	25.	U	18.	U	
7440-36-0	Antimony (Sb)		4.	U	4.	U	2.1	U	4.	U	6.1	J	2.1	UJ	
7440-38-2	Arsenic (As)		5.	U	5.1	J	8.5	U	5.	U	5.	U	3.7	U	
7440-39-3	Barium (Ba)		34.7	J	55.8	U	25.3	J	140.	J	163.	J	153.	J	
7440-41-7	Beryllium (Be)		1.	U	1.	J	0.62	U	1.	J	1.2	J	1.4	U	
7440-43-9	Cadmium (Cd)		1.	U	1.	U	0.5	U	1.	UJ	1.	UJ	0.5	U	
7440-70-2	Calcium (Ca)		357000.	J	252000.		303000.	J	857000.	J	980000.		829000.	J	
7440-47-3	Chromium (Cr)		1.	U	2.1	J	0.9	J	2.1	J	5.2	J	14.3		
7440-48-4	Cobalt (Co)		2.	U	5.	U	0.9	UJ	2.	UJ	2.	U	0.9	U	
7440-50-8	Copper (Cu)		2.	UJ	2.	U	0.6	UJ	2.	UJ	2.	U	1.1	U	
7439-89-6	Iron (Fe)		6710.		20.	UJ	1440.		1380.	J	189.		222.		
7439-92-1	Lead (Pb)		3.	U	8.6	U	1.7	U	4.	J	3.	U	13.		
7439-95-4	Magnesium (Mg)		228000.	J	1210000.		190000.		876000.		1010000.		63200.	J	
7439-96-5	Manganese (Mn)		1300.	J	3.6	UJ	280.		92.7	J	160.		144.	J	
7439-97-6	Mercury (Hg)		0.2	U	0.2	UJ	0.1	U	0.2	U	0.2	U	0.1	U	
7440-02-0	Nickel (Ni)		1.	J	2.1	U	0.8	U	1.2	J	3.3	J	8.7	J	
7440-09-7	Potassium (K)		90100.	J	297000.		85400.	J	285000.	J	252000.		301000.		
7782-49-2	Selenium (Se)		5.	U	5.	UJ	2.8	U	5.	U	5.	UJ	2.8	U	
7440-22-4	Silver (Ag)		2.	UJ	2.	UJ	1.2	UJ	2.	UJ	2.	U	1.2	U	
7440-23-5	Sodium (Na)		1470000.		9040000.		1270000.	J	7170000.		6780000.		405000.		
7440-31-5	Tin (Sn)		20.	U	20.	U	3.3	J	20.	U	20.	U	2.6	U	
7440-28-0	Thallium (Tl)		5.	U	5.	U	2.7	UJ	5.	UJ	5.	UJ	4.1	J	
7440-62-2	Vanadium (V)		3.	J	2.5	UJ	4.3	UJ	18.8	J	8.3	J	13.9	J	
7440-66-6	Zinc (Zn)		4.	U	4.	U	5.3	U	4.	UJ	4.	UJ	5.3	U	

*** Validation Complete ***

CHARLESTON - ZONE I
Background Sample Results
Shallow Groundwater: Rounds 2, 3, 4

SW846-META													
	SAMPLE ID ------->	GDI-G-W012-02		GDI-G-W012-03		GDI-G-W012-04		GDI-G-W013-02		GDI-G-W013-03		GDI-G-W013-04	
	ORIGINAL ID ------>	GDIGW01202		GDIGW01203		GDIGW01204		GDIGW01302		GDIGW01303		GDIGW01304	
	LAB SAMPLE ID --->	24290.01		25789.07		26798.02		24243.08		25776.04		26836.01	
	ID FROM REPORT -->	GDIGW01202		GDIGW01203		GDIGW01204		GDIGW01302		GDIGW01303		GDIGW01304	
	SAMPLE DATE ----->	12/12/95		05/29/96		08/30/96		12/06/95		05/28/96		09/04/96	
	DATE EXTRACTED -->	12/14/95		06/04/96		09/06/96		12/11/95		06/04/96		09/10/96	
	DATE ANALYZED --->	12/18/95		06/23/96		09/09/96		12/14/95		06/23/96		09/14/96	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	24276	VAL	25724	VAL	26768	VAL	24229	VAL	25724	VAL	26836	VAL
7429-90-5	Aluminum (Al)	25.	U	30.	U	18.	U	25.	UJ	30.	U	18.	U
7440-36-0	Antimony (Sb)	4.	U	30.	U	2.1	UJ	4.	U	30.	U	2.1	UJ
7440-38-2	Arsenic (As)	5.	U	5.	U	2.5	U	12.		19.		23.8	
7440-39-3	Barium (Ba)	8.3	J	12.6	J	25.3	J	50.9	J	47.7	J	37.4	J
7440-41-7	Beryllium (Be)	1.	U	1.	U	0.69	U	1.	U	1.	U	0.46	J
7440-43-9	Cadmium (Cd)	1.	U	4.	U	0.5	U	1.	U	4.	U	0.5	U
7440-70-2	Calcium (Ca)	107000.	J	130000.		167000.	J	263000.		292000.		193000.	
7440-47-3	Chromium (Cr)	1.	U	5.	U	0.8	U	1.	U	5.	U	0.8	UJ
7440-48-4	Cobalt (Co)	2.	U	5.	U	0.9	U	2.	U	5.	U	0.9	UJ
7440-50-8	Copper (Cu)	2.	UJ	10.	U	0.6	U	2.	U	10.	U	0.72	UJ
7439-89-6	Iron (Fe)	2440.		2760.		299.		8950.		14500.		11500.	
7439-92-1	Lead (Pb)	3.	U	3.	U	1.7	U	3.	U	3.	U	1.7	U
7439-95-4	Magnesium (Mg)	48600.	J	51600.		388000.	J	67600.		92700.		53800.	
7439-96-5	Manganese (Mn)	44.3	J	62.7		65.6	J	148.		176.		134.	
7439-97-6	Mercury (Hg)	0.2	U	0.2	U	0.1	U	0.2	U	0.2	U	0.13	U
7440-02-0	Nickel (Ni)	1.1	J	10.	U	0.8	U	2.4	J	10.	U	2.1	UJ
7440-09-7	Potassium (K)	19300.	J	17500.		127000.		35200.	J	45800.		33200.	
7782-49-2	Selenium (Se)	5.	U	5.	UJ	2.8	U	5.	UJ	5.	UJ	2.8	U
7440-22-4	Silver (Ag)	2.	UJ	5.	U	1.2	UJ	2.	U	5.	U	1.2	UJ
7440-23-5	Sodium (Na)	288000.		309000.		3670000.		354000.		515000.		294000.	
7440-31-5	Tin (Sn)	20.	U	50.	U	2.6	U	20.	U	50.	U	2.6	U
7440-28-0	Thallium (Tl)	5.9	J	5.	U	2.7	U	5.	U	5.	U	2.7	UJ
7440-62-2	Vanadium (V)	1.	U	5.	U	0.5	U	1.	U	5.	U	1.3	UJ
7440-66-6	Zinc (Zn)	4.	U	10.	U	5.3	U	4.8	J	10.	U	5.3	U

*** Validation Complete ***

CHARLESTON - ZONE I
Background Sample Results
Shallow Groundwater: Rounds 2, 3, 4

SW846-META													
	SAMPLE ID ------->	GDI-G-W014-02		GDI-G-W014-03		GDI-G-W014-04		GDI-G-W015-02		GDI-G-W015-03		GDI-G-W015-04	
	ORIGINAL ID ----->	GDIGW01402		GDIGW01403		GDIGW01404		GDIGW01502		GDIGW01503		GDIGW01504	
	LAB SAMPLE ID --->	24492.01		25750.03		26863.01		24336.06		25741.04		26724.03	
	ID FROM REPORT -->	GDIGW01402		GDIGW01403		GDIGW01404		GDIGW01502		GDIGW01503		GDIGW01504	
	SAMPLE DATE ----->	01/15/96		05/24/96		09/09/96		12/15/95		05/23/96		08/23/96	
	DATE EXTRACTED -->	01/17/96		06/01/96		09/12/96		12/18/95		06/01/96		09/03/96	
	DATE ANALYZED --->	01/22/96		06/17/96		09/18/96		12/20/95		06/17/96		09/12/96	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	24492	VAL	25724	VAL	26836	VAL	24310	VAL	25724	VAL	26711	VAL
7429-90-5	Aluminum (Al)	25.	U	37.6	J	18.	U	57.8	J	25.1	J	21.3	UJ
7440-36-0	Antimony (Sb)	4.	U	4.	U	2.1	UJ	5.5	J	4.	U	2.1	U
7440-38-2	Arsenic (As)	12.4		11.1		6.1	U	5.	U	5.	U	2.5	U
7440-39-3	Barium (Ba)	15.5	J	18.2	J	15.4	J	30.6	J	52.7	J	51.2	J
7440-41-7	Beryllium (Be)	1.	U	1.	U	0.32	J	1.	UJ	1.	U	0.48	U
7440-43-9	Cadmium (Cd)	1.	U	1.	U	0.5	U	1.	UJ	1.	U	0.5	U
7440-70-2	Calcium (Ca)	163000.		181000.		128000.		239000.	J	287000.		246000.	
7440-47-3	Chromium (Cr)	1.	U	1.	U	0.8	UJ	1.	UJ	1.	U	0.8	U
7440-48-4	Cobalt (Co)	2.	U	2.	U	0.9	UJ	2.	UJ	2.	U	0.9	UJ
7440-50-8	Copper (Cu)	2.	U	2.	U	0.6	UJ	2.	UJ	2.	U	0.6	UJ
7439-89-6	Iron (Fe)	14200.		13500.		5530.		4160.	J	18500.		2490.	
7439-92-1	Lead (Pb)	3.	U	3.	U	1.7	U	3.	UJ	3.	U	1.7	U
7439-95-4	Magnesium (Mg)	38000.		38300.		29100.		63800.		139000.		125000.	
7439-96-5	Manganese (Mn)	790.		832.		448.		181.	J	192.		207.	
7439-97-6	Mercury (Hg)	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.1	U
7440-02-0	Nickel (Ni)	1.	U	1.	U	0.8	UJ	1.	UJ	1.3	J	2.3	J
7440-09-7	Potassium (K)	27200.	J	30800.		23800.		26700.		52400.		58200.	
7782-49-2	Selenium (Se)	5.	U	5.	UJ	2.8	U	5.	U	5.	UJ	2.8	U
7440-22-4	Silver (Ag)	2.	U	3.1	U	1.2	UJ	2.	UJ	2.	U	1.2	UJ
7440-23-5	Sodium (Na)	48500.		56500.		52100.		352000.		879000.		702000.	
7440-31-5	Tin (Sn)	20.	U	20.	U	2.6	U	20.	U	20.	U	2.6	U
7440-28-0	Thallium (Tl)	5.	U	5.	U	2.7	UJ	5.	UJ	5.	U	2.7	UJ
7440-62-2	Vanadium (V)	1.3	J	1.5	U	0.5	UJ	1.4	J	1.	U	1.1	UJ
7440-66-6	Zinc (Zn)	4.	U	4.	U	24.4		4.1	J	4.	U	21.	

*** Validation Complete ***

CHARLESTON - ZONE I
Background Sample Results
Shallow Groundwater: Rounds 2, 3, 4

SW846-META													
	SAMPLE ID ------->	GDI-G-W016-02		GDI-H-W016-02		GDI-G-W016-03		GDI-H-W016-03		GDI-G-W016-04		GDI-H-W016-04	
	ORIGINAL ID ----->	GDIGW01602		GDIHW01602		GDIGW01603		GDIHW01603		GDIGW01604		GDIHW01604	
	LAB SAMPLE ID --->	24243.05		24244.01		25776.01		25777.01		26740.03		26741.01	
	ID FROM REPORT -->	GDIGW01602		GDIHW01602		GDIGW01603		GDIHW01603		GDIGW01604		GDIHW01604	
	SAMPLE DATE ----->	12/06/95		12/06/95		05/28/96		05/28/96		08/26/96		08/26/96	
	DATE EXTRACTED -->	12/11/95		12/11/95		06/04/96		06/04/96		09/03/96		09/03/96	
	DATE ANALYZED --->	12/14/95		12/14/95		06/23/96		06/23/96		09/12/96		09/12/96	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	24229	VAL	24229	VAL	25724	VAL	25724	VAL	26711	VAL	26711	VAL
7429-90-5	Aluminum (Al)	25.	UJ	25.	UJ	33.7	J	30.	U	17.9	UJ	11.	U
7440-36-0	Antimony (Sb)	4.	U	4.	U	30.	U	30.	U	2.1	U	2.1	U
7440-38-2	Arsenic (As)	5.	U	5.	U	5.	U	5.	U	2.5	U	2.5	U
7440-39-3	Barium (Ba)	2.5	J	2.5	J	5.	U	5.	U	4.4	J	5.2	J
7440-41-7	Beryllium (Be)	1.	U	1.	U	1.	U	1.	U	0.41	U	0.39	U
7440-43-9	Cadmium (Cd)	1.	U	1.	U	4.	U	4.	U	0.5	U	0.5	U
7440-70-2	Calcium (Ca)	56100.		56800.		68800.		68500.		85200.	J	79700.	
7440-47-3	Chromium (Cr)	1.	U	1.	U	5.	U	5.	U	0.8	U	0.8	U
7440-48-4	Cobalt (Co)	2.	U	2.	U	5.	U	5.	U	0.9	UJ	0.9	UJ
7440-50-8	Copper (Cu)	2.	U	2.	U	10.	U	10.	U	0.6	UJ	0.88	UJ
7439-89-6	Iron (Fe)	2520.		2660.		694.		689.		4460.		4080.	
7439-92-1	Lead (Pb)	3.	U	3.	U	3.	U	3.	U	1.7	U	1.7	U
7439-95-4	Magnesium (Mg)	12500.		12500.		12900.		12900.		14500.		13500.	
7439-96-5	Manganese (Mn)	133.		133.		93.3		92.8		179.		166.	
7439-97-6	Mercury (Hg)	0.2	U	0.2	U	0.2	U	0.2	U	0.1	U	0.1	U
7440-02-0	Nickel (Ni)	1.	U	1.	U	10.	U	10.	U	0.8	U	1.1	J
7440-09-7	Potassium (K)	9010.	J	8660.		10600.		10800.		10300.		9780.	
7782-49-2	Selenium (Se)	5.	UJ	5.	U	5.	UJ	5.	U	2.8	U	2.8	U
7440-22-4	Silver (Ag)	2.	U	2.	U	5.	U	5.	U	1.2	UJ	1.2	UJ
7440-23-5	Sodium (Na)	21100.		20900.		30300.		30300.		40600.	J	39800.	
7440-31-5	Tin (Sn)	20.	U	20.	U	50.	U	50.	U	2.6	U	2.6	U
7440-28-0	Thallium (Tl)	5.	U	5.	U	5.	U	5.	U	2.7	UJ	2.7	UJ
7440-62-2	Vanadium (V)	1.	U	1.	U	5.	U	5.	U	0.5	UJ	0.5	UJ
7440-66-6	Zinc (Zn)	4.	U	4.	U	10.	U	10.	U	13.	J	14.8	J

*** Validation Complete ***

CHARLESTON - ZONE I
Background Sample Results
Shallow Groundwater: Rounds 2, 3, 4

SW846-META													
	SAMPLE ID ------->	GDI-G-W017-02		GDI-G-W017-03		GDI-G-W017-04		GDI-G-W018-02		GDI-G-W018-03		GDI-G-W018-04	
	ORIGINAL ID ----->	GDIGW01702		GDIGW01703		GDIGW01704		GDIGW01802		GDIGW01803		GDIGW01804	
	LAB SAMPLE ID --->	24229.01		25776.03		26754.01		24243.02		25789.02		26796.01	
	ID FROM REPORT -->	GDIGW01702		GDIGW01703		GDIGW01704		GDIGW01802		GDIGW01803		GDIGW01804	
	SAMPLE DATE ----->	12/05/95		05/28/96		08/27/96		12/06/95		05/29/96		08/29/96	
	DATE EXTRACTED -->	12/07/95		06/04/96		09/05/96		12/11/95		06/04/96		09/06/96	
	DATE ANALYZED --->	12/08/95		06/23/96		09/16/96		12/14/95		06/23/96		09/08/96	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	24229	VAL	25724	VAL	26711	VAL	24229	VAL	25724	VAL	26768	VAL
7429-90-5	Aluminum (Al)	25.	UJ	30.	U	11.3	UJ	42.8	J	139.	J	62.9	J
7440-36-0	Antimony (Sb)	4.	U	30.	U	2.1	U	4.	U	30.	U	2.1	UJ
7440-38-2	Arsenic (As)	66.3		33.5		46.2		5.	U	5.	U	2.5	U
7440-39-3	Barium (Ba)	20.8	J	15.3	J	19.1	J	18.6	J	19.1	J	21.3	J
7440-41-7	Beryllium (Be)	1.	U	1.	U	0.37	U	1.	U	1.	U	0.42	U
7440-43-9	Cadmium (Cd)	1.	U	4.	U	0.5	U	1.	U	4.	U	0.5	U
7440-70-2	Calcium (Ca)	92600.		125000.		104000.	J	74900.		83500.		80600.	J
7440-47-3	Chromium (Cr)	1.	U	5.	U	0.8	U	1.8	J	5.	U	3.6	U
7440-48-4	Cobalt (Co)	2.	U	5.	U	0.9	UJ	2.	U	5.	U	0.9	U
7440-50-8	Copper (Cu)	3.8	U	10.	U	2.2	UJ	2.	U	10.	U	0.6	U
7439-89-6	Iron (Fe)	9880.		9750.		6280.		48.9	J	133.		155.	
7439-92-1	Lead (Pb)	3.	U	3.	U	1.7	U	3.	U	3.	U	1.7	U
7439-95-4	Magnesium (Mg)	8580.		15900.		8810.		154000.		157000.		154000.	J
7439-96-5	Manganese (Mn)	369.		372.		272.		36.6		41.7		46.2	J
7439-97-6	Mercury (Hg)	0.2	U	0.2	U	0.12	J	0.2	U	0.2	U	0.1	U
7440-02-0	Nickel (Ni)	1.7	J	10.	U	4.9	J	1.1	J	10.	U	2.2	U
7440-09-7	Potassium (K)	7200.	J	11400.		7060.		109000.	J	104000.		116000.	
7782-49-2	Selenium (Se)	5.	UJ	5.	UJ	2.8	U	5.	UJ	5.	UJ	2.8	U
7440-22-4	Silver (Ag)	2.	U	5.	U	1.2	UJ	2.	U	5.	U	1.3	U
7440-23-5	Sodium (Na)	13900.		39600.		10400.	J	2090000.		2040000.		2000000.	
7440-31-5	Tin (Sn)	20.	U	50.	U	2.6	U	20.	U	50.	U	2.6	U
7440-28-0	Thallium (Tl)	5.4	J	5.	U	2.7	UJ	5.	U	5.	U	2.7	U
7440-62-2	Vanadium (V)	5.	J	5.	U	1.3	UJ	5.4	J	5.	U	5.4	J
7440-66-6	Zinc (Zn)	11.1	J	10.	U	14.3	J	4.	U	10.	U	5.3	U

*** Validation Complete ***

CHARLESTON - ZONE I
Background Sample Results
Shallow Groundwater: Rounds 2, 3, 4

SW846-META													
	SAMPLE ID ------->	GDI-G-W019-02		GDI-H-W019-02		GDI-G-W019-03		GDI-H-W019-03		GDI-G-W019-04		GDI-H-W019-04	
	ORIGINAL ID ----->	GDIGW01902		GDIHW01902		GDIGW01903		GDIHW01903		GDIGW01904		GDIHW01904	
	LAB SAMPLE ID --->	24310.04		24311.01		25814.01		25815.01		26768.01		26769.01	
	ID FROM REPORT -->	GDIGW01902		GDIHW01902		GDIGW01903		GDIHW01903		GDIGW01904		GDIHW01904	
	SAMPLE DATE ----->	12/13/95		12/13/95		05/30/96		05/30/96		08/28/96		08/28/96	
	DATE EXTRACTED -->	12/18/95		12/18/95		06/17/96		06/17/96		09/06/96		09/06/96	
	DATE ANALYZED --->	12/20/95		12/20/95		07/01/96		07/01/96		09/08/96		09/08/96	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	24310	VAL	24310	VAL	25814	VAL	25814	VAL	26768	VAL	26768	VAL
7429-90-5	Aluminum (Al)	235.		280.		50.5	UJ	48.5	UJ	36.5	J	27.6	J
7440-36-0	Antimony (Sb)	4.	U	4.	U	4.	U	4.	U	2.1	UJ	2.1	UJ
7440-38-2	Arsenic (As)	12.5		13.2		11.		10.5		21.2		21.3	
7440-39-3	Barium (Ba)	19.5	J	20.5	J	15.	U	15.3	U	20.5	J	20.5	J
7440-41-7	Beryllium (Be)	1.	UJ	1.	U	1.	U	1.	U	0.58	U	0.62	U
7440-43-9	Cadmium (Cd)	1.	UJ	1.	U	1.	U	1.	U	0.5	U	0.5	U
7440-70-2	Calcium (Ca)	173000.	J	185000.		142000.		150000.		193000.	J	196000.	
7440-47-3	Chromium (Cr)	1.	UJ	1.	J	1.	U	1.	U	1.	U	1.3	U
7440-48-4	Cobalt (Co)	2.	UJ	2.	U	5.	U	5.	U	0.9	U	0.9	U
7440-50-8	Copper (Cu)	2.	UJ	2.	U	2.	U	2.	U	3.2	U	4.2	U
7439-89-6	Iron (Fe)	4970.	J	5350.		3860.		4020.		4900.		4820.	
7439-92-1	Lead (Pb)	3.	UJ	3.	U	3.	U	3.	U	1.7	U	1.7	U
7439-95-4	Magnesium (Mg)	85300.		91800.		67700.		68600.		60900.	J	61800.	
7439-96-5	Manganese (Mn)	1010.	J	1070.		791.		811.		660.	J	667.	
7439-97-6	Mercury (Hg)	0.2	U	0.2	U	0.2	UJ	0.2	U	0.1	U	0.1	U
7440-02-0	Nickel (Ni)	5.9	J	6.5	J	4.9	U	7.3	J	11.8	J	11.4	J
7440-09-7	Potassium (K)	54600.		57700.		48300.		51300.		39100.		40200.	
7782-49-2	Selenium (Se)	5.	U	5.	U	5.	U	5.	U	2.8	U	2.8	U
7440-22-4	Silver (Ag)	2.	UJ	2.	U	2.	UJ	2.	UJ	1.2	UJ	1.2	UJ
7440-23-5	Sodium (Na)	684000.		691000.		520000.		683000.		299000.		302000.	
7440-31-5	Tin (Sn)	20.	U	20.	U	20.	U	20.	U	2.6	U	2.6	U
7440-28-0	Thallium (Tl)	5.	UJ	5.9	J	5.	U	5.	U	2.7	U	3.5	J
7440-62-2	Vanadium (V)	2.	J	2.5	J	1.5	UJ	2.5	UJ	2.3	J	2.4	J
7440-66-6	Zinc (Zn)	4.	UJ	4.	U	4.	U	4.	U	10.8	U	5.4	U

*** Validation Complete ***

CHARLESTON - ZONE I
Background Sample Results
Surface Soil: Samples 2-18 (n = 15)

SW846-META	SAMPLE ID ------->	GDI-S-B002-01		GDI-S-B005-01		GDI-S-B006-01		GDI-C-B006-01		GDI-S-B007-01		GDI-S-B008-01	
	ORIGINAL ID ----->	GRDSB00201		GRDSB00501		GRDSB00601		GRDCB00601		GRDSB00701		GRDSB00801	
	LAB SAMPLE ID --->	685234		685244		685229		685256		685249		685239	
	ID FROM REPORT -->	MAC014		MAC016		MAC013		MAC018		MAC017		MAC015	
	SAMPLE DATE ----->	02/16/95		02/16/95		02/16/95		02/16/95		02/16/95		02/16/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	MG/KG		MG/KG		MG/KG		MG/KG		MG/KG		MG/KG	
CAS #	Parameter	571331	VAL	571331	VAL	571331	VAL	571331	VAL	571331	VAL	571331	VAL
7429-90-5	Aluminum (Al)	4480.		5360.		19900.		19700.		27400.		25700.	
7439-89-6	Iron (Fe)	5240.	J	1730.	J	16600.	J	14200.	J	21800.	J	21500.	J
7439-92-1	Lead (Pb)	27.3	J	8.6	J	47.	J	43.	J	24.8	J	46.5	J
7440-02-0	Nickel (Ni)	11.4		1.5	J	14.4		14.5		15.3		16.3	
7440-09-7	Potassium (K)	954.	J	493.	J	2230.	J	2150.	J	2560.	J	2490.	J
7440-22-4	Silver (Ag)	0.07	UJ	0.09	UJ	0.08	UJ	0.08	UJ	0.09	UJ	0.09	UJ
7440-23-5	Sodium (Na)	324.	J	2030.	J	1180.	J	1090.	J	400.	J	367.	J
7440-28-0	Thallium (Tl)	0.64	U	0.79	U	0.76	U	0.72	U	0.83	U	0.84	U
7440-36-0	Antimony (Sb)	0.51	UJ	0.27	UJ	0.69	UJ	0.62	UJ	0.32	UJ	0.37	UJ
7440-38-2	Arsenic (As)	4.		0.5	U	7.2		6.5		9.3		11.	
7440-39-3	Barium (Ba)	40.3		24.9	J	29.1		28.7		38.5		43.4	
7440-41-7	Beryllium (Be)	0.4	J	0.29	U	0.75	J	0.72	J	0.88	J	0.87	J
7440-43-9	Cadmium (Cd)	0.13	J	0.07	U	0.44	J	0.41	J	0.61	J	0.59	J
7440-48-4	Cobalt (Co)	2.6	J	0.64	J	4.5	J	4.4	J	5.7	J	5.5	J
7440-50-8	Copper (Cu)	49.3	J	4.3	J	40.4	J	42.5	J	24.6	J	34.6	J
7440-62-2	Vanadium (V)	15.		8.6		41.1		36.		49.3		51.6	
7440-66-6	Zinc (Zn)	46.	J	5.9	J	80.4	J	88.1	J	84.8	J	92.2	J
7782-49-2	Selenium (Se)	0.9	J	0.96	J	0.86	J	0.95	J	0.66	UJ	1.1	J
7439-97-6	Mercury (Hg)	0.12	U	0.15	U	0.16		0.16		0.21		0.3	
7439-95-4	Magnesium (Mg)	1400.	J	889.	J	3810.	J	3420.	J	3610.	J	3430.	J
7439-96-5	Manganese (Mn)	77.1		15.1		426.		276.		419.		275.	
7440-70-2	Calcium (Ca)	59500.	J	1670.	J	32800.	J	30700.	J	46200.	J	33600.	J
7440-47-3	Chromium (Cr)	25.4		7.5		45.5		42.1		47.		49.9	
7440-31-5	Tin (Sn)	2.5	J	1.1	U	1.1	U	1.1	J	1.2	U	2.2	J

*** Validation Complete ***

CHARLESTON - ZONE I
Background Sample Results
Surface Soil: Samples 2-18 (n = 15)

SW846-META	SAMPLE ID ------->	GDI-S-B009-01		GDI-S-B010-01		GDI-S-B011-01		GDI-S-B012-01		GDI-S-B013-01		GDI-S-B014-01	
	ORIGINAL ID ----->	GRDSB00901		GRDSB01001		GRDSB01101		GRDSB01201		GRDSB01301		GRDSB01401	
	LAB SAMPLE ID --->	685729		685732		685735		685738		685744		685723	
	ID FROM REPORT -->	GRDSB00901		GRDSB01001		GRDSB01101		GRDSB01201		GRDSB01301		GRDSB01401	
	SAMPLE DATE ----->	02/17/95		02/17/95		02/17/95		02/17/95		02/17/95		02/17/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	MG/KG		MG/KG		MG/KG		MG/KG		MG/KG		MG/KG	
CAS #	Parameter	572571	VAL	572571	VAL	572571	VAL	572571	VAL	572571	VAL	572571	VAL
7429-90-5	Aluminum (Al)	26400.	J	23100.	J	5630.	J	6170.	J	11000.	J	8680.	J
7439-89-6	Iron (Fe)	22700.	J	19200.	J	3620.	J	3920.	J	7750.	J	5000.	J
7439-92-1	Lead (Pb)	20.2	J	203.	J	21.1	J	140.	J	33.3	J	5.8	J
7440-02-0	Nickel (Ni)	15.9		18.1		4.2	J	5.6		5.4		7.3	
7440-09-7	Potassium (K)	2730.	J	2370.	J	359.	U	431.	U	530.	U	675.	U
7440-22-4	Silver (Ag)	0.67	UJ	0.64	UJ	0.53	UJ	0.5	UJ	0.51	UJ	0.49	UJ
7440-23-5	Sodium (Na)	1080.	J	951.	J	400.	J	209.	J	155.	U	174.	U
7440-28-0	Thallium (Tl)	0.82	UJ	0.78	UJ	0.64	UJ	0.61	UJ	0.63	UJ	0.6	UJ
7440-36-0	Antimony (Sb)	6.1	UJ	5.8	UJ	4.8	UJ	4.6	UJ	4.7	UJ	4.5	UJ
7440-38-2	Arsenic (As)	11.	J	9.2	J	0.46	J	1.6	J	2.1	J	1.9	J
7440-39-3	Barium (Ba)	31.5	J	37.9		14.4	J	20.7	J	20.1	J	1180.	
7440-41-7	Beryllium (Be)	0.95		0.73		0.22	U	0.22	U	0.18	U	0.24	U
7440-43-9	Cadmium (Cd)	0.66	UJ	0.63	UJ	0.51	UJ	0.49	UJ	0.5	UJ	0.48	UJ
7440-48-4	Cobalt (Co)	5.8	J	4.4	J	1.5	U	1.4	U	1.4	U	4.	J
7440-50-8	Copper (Cu)	19.1		95.9		4.2		6.		18.9		6.2	
7440-62-2	Vanadium (V)	53.3		43.9		15.3		20.6		19.4		17.5	
7440-66-6	Zinc (Zn)	62.9	J	150.	J	16.7	J	22.1	J	28.	J	9.6	J
7782-49-2	Selenium (Se)	0.7	J	1.	J	0.51	UJ	0.5	J	0.5	UJ	0.82	J
7439-97-6	Mercury (Hg)	0.23		0.29		0.12	U	0.12	U	0.13		0.11	U
7439-95-4	Magnesium (Mg)	3820.	J	3690.	J	496.	J	835.	J	597.	J	4570.	J
7439-96-5	Manganese (Mn)	266.	J	291.	J	21.5	J	37.2	J	28.6	J	254.	J
7440-70-2	Calcium (Ca)	28200.	J	44000.	J	12900.	J	11400.	J	13300.	J	9870.	J
7440-47-3	Chromium (Cr)	53.7		49.4		12.5		18.7		18.4		268.	
7440-31-5	Tin (Sn)	1.2	U	6.8	J	0.92	U	0.88	U	0.98	J	0.86	U

*** Validation Complete ***

CHARLESTON - ZONE I
Background Sample Results
Surface Soil: Samples 2-18 (n = 15)

SW846-META	SAMPLE ID ------->	GDI-S-B015-01		GDI-S-B016-01		GDI-S-B017-01		GDI-S-B018-01	
	ORIGINAL ID ----->	GRDSB01501		GRDSB01601		GRDSB01701		GRDSB01801	
	LAB SAMPLE ID --->	685717		685707		685221		685697	
	ID FROM REPORT -->	GRDSB01501		GRDSB01601		MAC012		MAC019	
	SAMPLE DATE ----->	02/17/95		02/17/95		02/16/95		02/17/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil	
	UNITS ---------->	MG/KG		MG/KG		MG/KG		MG/KG	
CAS #	Parameter	572571	VAL	572571	VAL	571331	VAL	571331	VAL
7429-90-5	Aluminum (Al)	10100.	J	3470.	J	9860.		5230.	
7439-89-6	Iron (Fe)	6760.	J	3630.	J	12700.	J	6080.	J
7439-92-1	Lead (Pb)	24.3	J	5.	J	95.5	J	73.4	J
7440-02-0	Nickel (Ni)	6.1		2.	U	5.5		11.	
7440-09-7	Potassium (K)	522.	U	393.	U	945.	J	839.	J
7440-22-4	Silver (Ag)	0.53	UJ	0.51	UJ	0.07	UJ	1.5	J
7440-23-5	Sodium (Na)	267.	J	181.	J	264.	J	604.	J
7440-28-0	Thallium (Tl)	0.64	UJ	0.63	UJ	0.68	U	0.66	U
7440-36-0	Antimony (Sb)	4.8	UJ	4.7	UJ	0.37	UJ	0.89	UJ
7440-38-2	Arsenic (As)	2.4	J	1.	J	19.7		8.5	
7440-39-3	Barium (Ba)	24.		7.8	J	18.3	J	22.7	J
7440-41-7	Beryllium (Be)	0.2	U	0.22	U	0.46	J	0.34	J
7440-43-9	Cadmium (Cd)	0.52	UJ	0.5	UJ	0.06	U	0.21	J
7440-48-4	Cobalt (Co)	1.5	U	1.4	U	2.6	J	4.1	J
7440-50-8	Copper (Cu)	13.9		2.4	J	9.	J	556.	J
7440-62-2	Vanadium (V)	26.6		8.5		25.5		12.9	
7440-66-6	Zinc (Zn)	36.5	J	11.4	J	37.4	J	113.	J
7782-49-2	Selenium (Se)	0.68	J	0.5	UJ	0.58	J	1.1	J
7439-97-6	Mercury (Hg)	0.15		0.12	U	0.12	U	0.47	
7439-95-4	Magnesium (Mg)	668.	J	424.	J	1080.	J	1350.	J
7439-96-5	Manganese (Mn)	30.4	J	33.3	J	187.		40.5	
7440-70-2	Calcium (Ca)	8240.	J	3550.	J	5580.	J	20700.	J
7440-47-3	Chromium (Cr)	17.7		8.6		21.9		18.1	
7440-31-5	Tin (Sn)	0.93	U	0.9	U	1.	J	7.5	

*** Validation Complete ***

CHARLESTON - ZONE I
Background Sample Results
Subsurface Soil: Samples 12-18 (n=6)

SW846-META													
	SAMPLE ID ------->	GDI-S-B012-02		GDI-S-B013-02		GDI-S-B014-02		GDI-S-B015-02		GDI-S-B017-02		GDI-S-B018-02	
	ORIGINAL ID ----->	GRDSB01202		GRDSB01302		GRDSB01402		GRDSB01502		GRDSB01702		GRDSB01802	
	LAB SAMPLE ID --->	685741		685750		685726		685720		685216		685700	
	ID FROM REPORT -->	GRDSB01202		GRDSB01302		GRDSB01402		GRDSB01502		MAC011		MAC020	
	SAMPLE DATE ----->	02/17/95		02/17/95		02/17/95		02/17/95		02/16/95		02/17/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	MG/KG		MG/KG		MG/KG		MG/KG		MG/KG		MG/KG	
CAS #	Parameter	572571	VAL	572571	VAL	572571	VAL	572571	VAL	571331	VAL	571331	VAL
7429-90-5	Aluminum (Al)	4590.	J	6540.	J	7800.	J	19300.	J	6880.		11700.	
7439-89-6	Iron (Fe)	3730.	J	4680.	J	3840.	J	14200.	J	6900.	J	7250.	J
7439-92-1	Lead (Pb)	3.1	J	4.6	J	6.4	J	11.2	J	4.4	J	7.2	J
7440-02-0	Nickel (Ni)	11.7		2.1	U	3.3	J	11.3		3.5	J	16.1	
7440-09-7	Potassium (K)	1310.	J	200.	U	308.	U	2560.	J	930.	J	2230.	J
7440-22-4	Silver (Ag)	0.58	UJ	0.53	UJ	0.51	UJ	0.63	UJ	0.09	UJ	0.08	UJ
7440-23-5	Sodium (Na)	1130.	J	167.	U	145.	U	1390.	J	226.	J	1770.	J
7440-28-0	Thallium (Tl)	0.71	UJ	0.64	UJ	0.63	UJ	0.77	UJ	0.82	U	0.7	U
7440-36-0	Antimony (Sb)	5.3	UJ	4.8	UJ	4.7	UJ	5.8	UJ	0.28	UJ	0.54	UJ
7440-38-2	Arsenic (As)	4.4	J	0.88	J	0.4	UJ	6.3	J	3.5		4.1	
7440-39-3	Barium (Ba)	9.5	J	13.8	J	29.8		25.1	J	10.5	J	19.4	J
7440-41-7	Beryllium (Be)	0.33	J	0.07	U	0.09	U	0.68	J	0.4	J	0.51	J
7440-43-9	Cadmium (Cd)	0.57	UJ	0.51	UJ	0.5	UJ	0.62	UJ	0.07	U	0.48	J
7440-48-4	Cobalt (Co)	1.6	U	1.5	U	1.4	U	3.9	J	2.1	J	2.2	J
7440-50-8	Copper (Cu)	8.6		1.2	J	1.7	J	8.5		2.1	J	12.4	J
7440-62-2	Vanadium (V)	17.9		10.5		12.4		35.2		14.6		23.7	
7440-66-6	Zinc (Zn)	21.4	J	4.7	J	6.4	J	34.3	J	12.4	J	29.4	J
7782-49-2	Selenium (Se)	1.4	J	0.59	J	0.5	UJ	0.88	J	0.99	J	1.2	J
7439-97-6	Mercury (Hg)	0.13	U	0.12	U	0.11	U	0.14	U	0.15	U	0.13	U
7439-95-4	Magnesium (Mg)	3440.	J	196.	J	663.	J	3270.	J	1030.	J	3990.	J
7439-96-5	Manganese (Mn)	44.4	J	8.6	J	62.7	J	131.	J	53.7		54.5	
7440-70-2	Calcium (Ca)	63900.	J	528.	J	4070.	J	33600.	J	4790.	J	56800.	J
7440-47-3	Chromium (Cr)	31.1		7.6		23.2		35.9		14.9		41.2	
7440-31-5	Tin (Sn)	1.	U	0.92	U	0.9	U	1.1	U	1.2	U	1.	U

*** Validation Complete ***

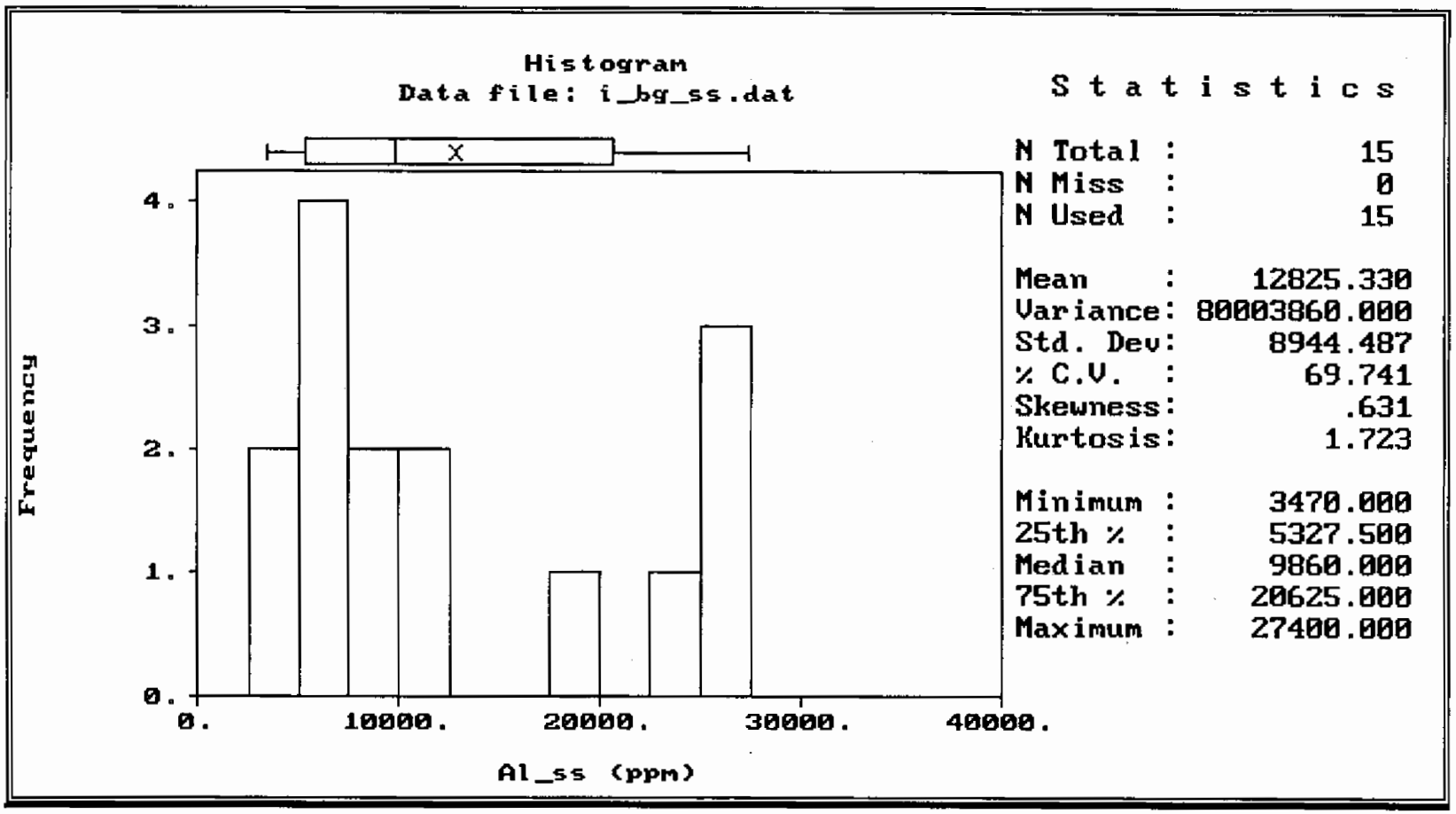
Zone I

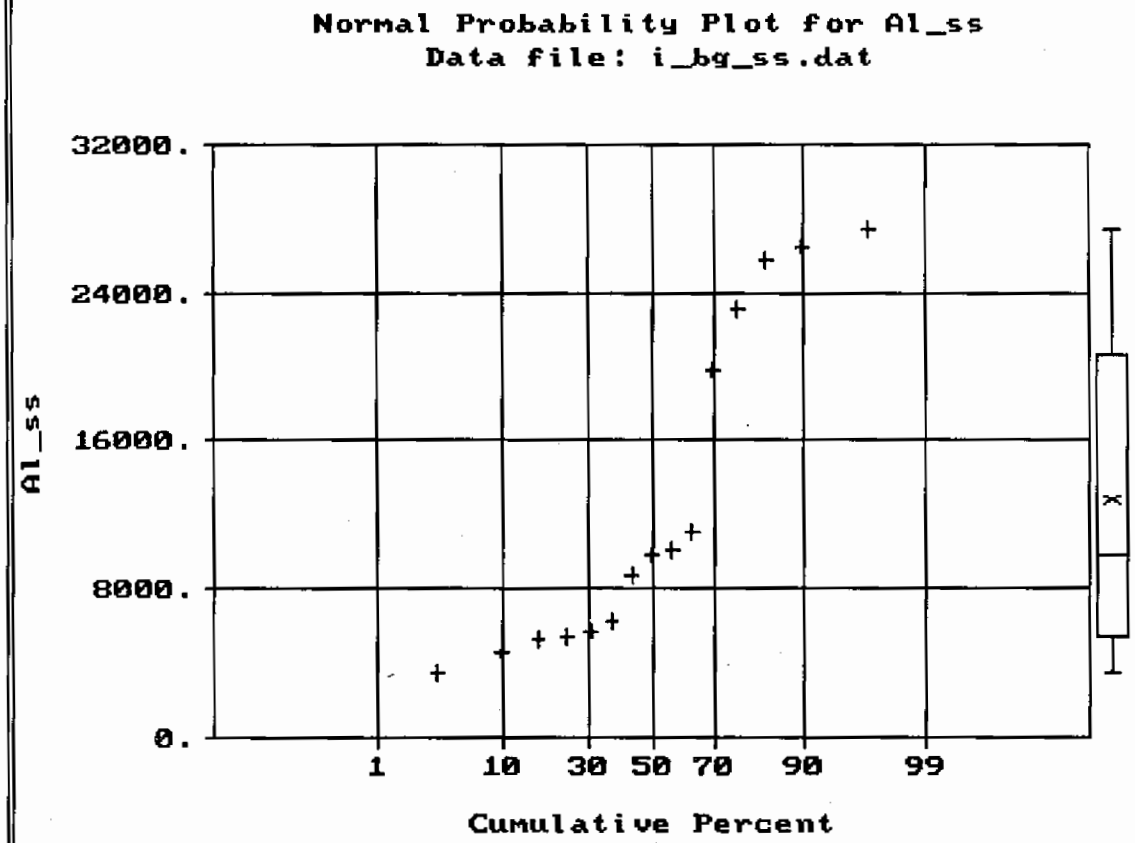
Aluminum in surface soil grid samples

Original dataset (N = 15)

Original values

1a





Statistics

N Total :	15
N Miss :	0
N Used :	15
Mean :	12825.330
Variance:	80003860.000
Std. Dev:	8944.487
% C.V. :	69.741
Skewness:	.631
Kurtosis:	1.723
Minimum :	3470.000
25th % :	5327.500
Median :	9860.000
75th % :	20625.000
Maximum :	27400.000

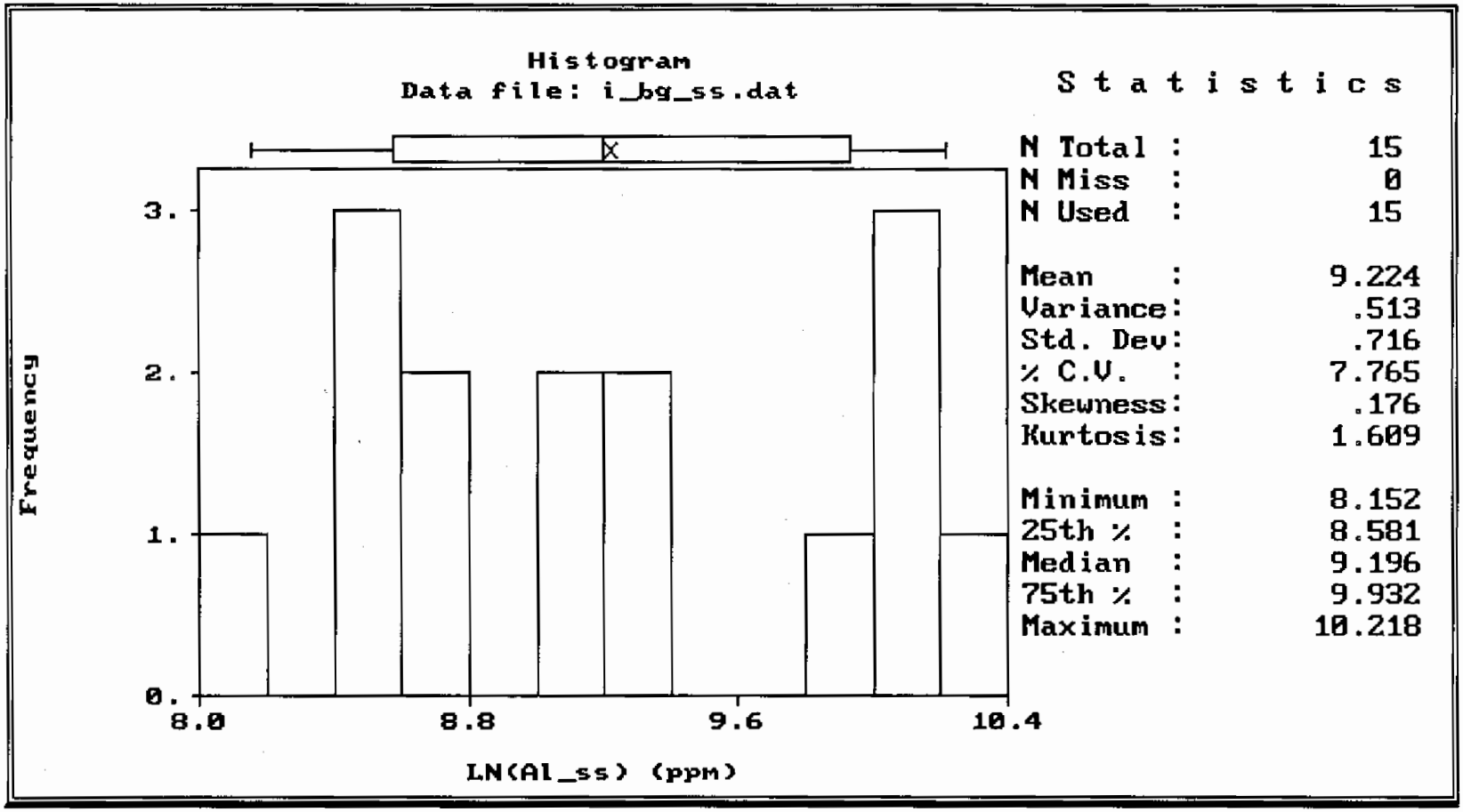
Zone I

Aluminum in surface soil grid samples

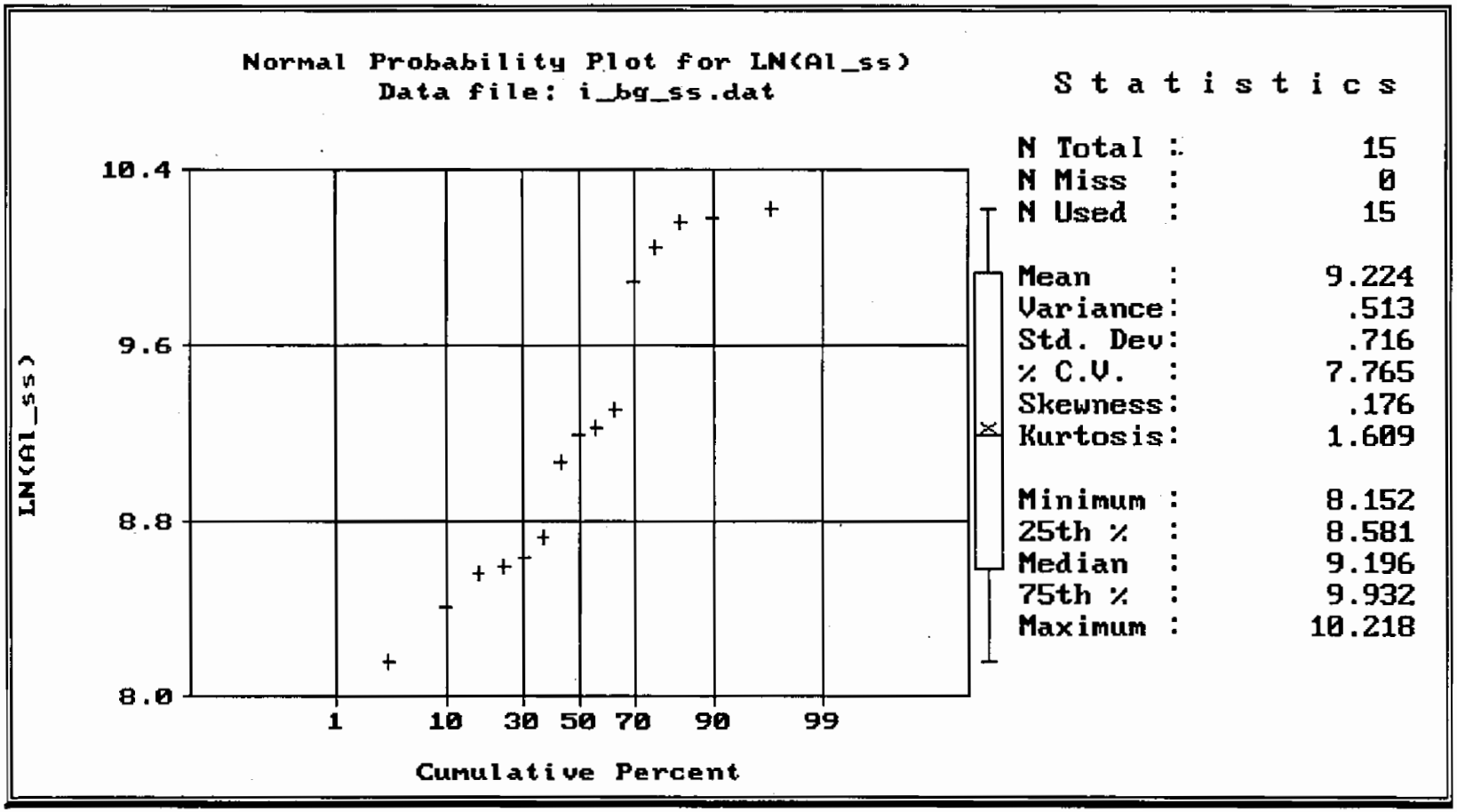
Original dataset (N = 15)

LN-transformed values

2a

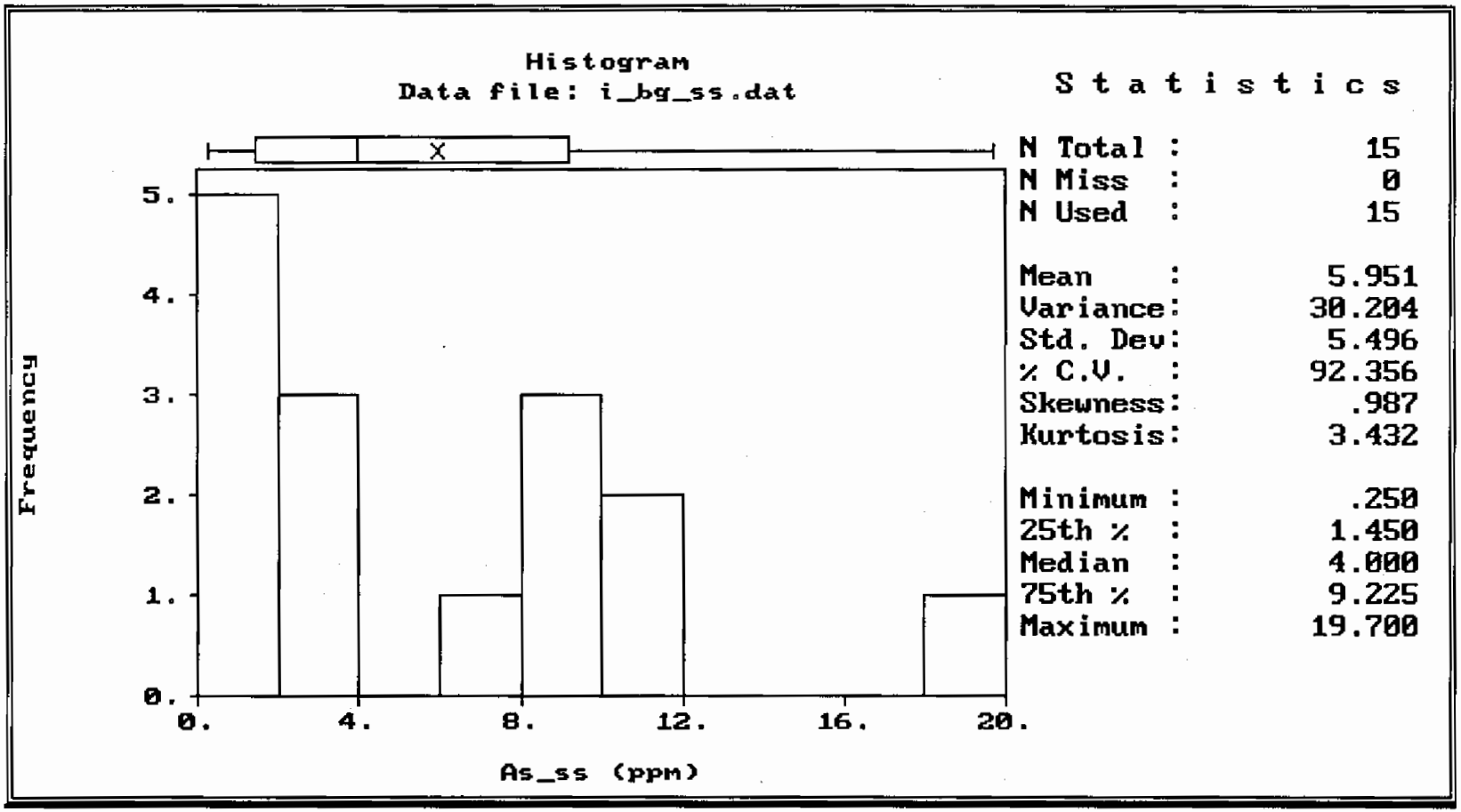


2b

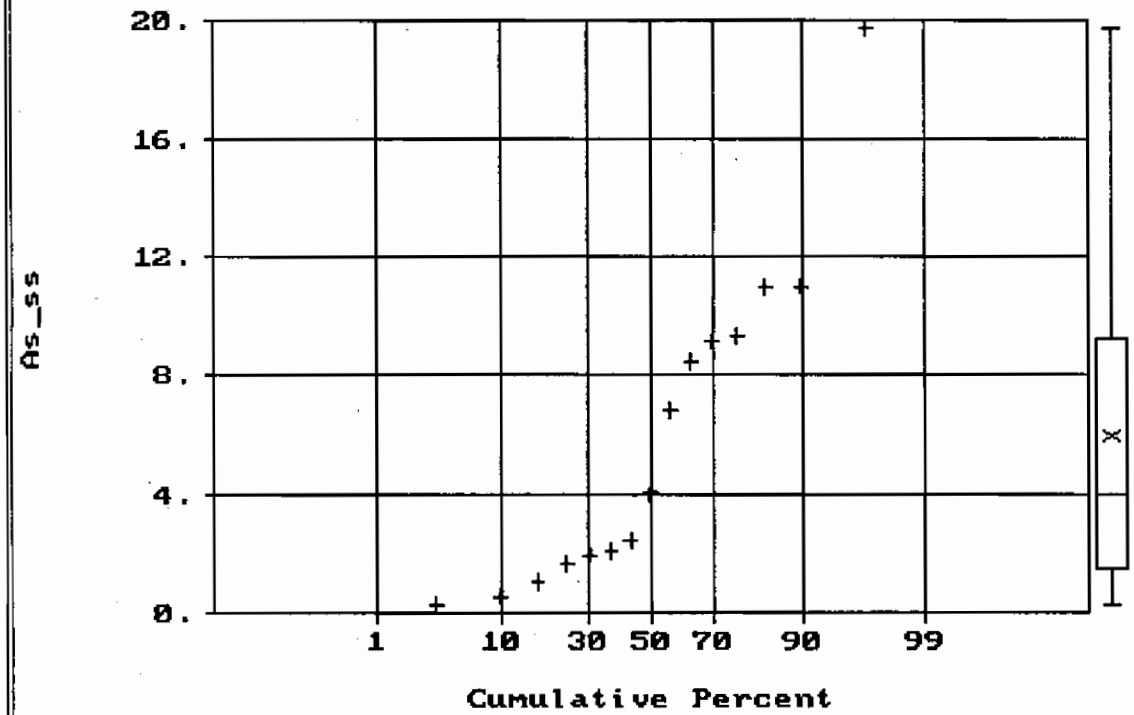

Normal Probability Plot for LN(Al_ss)
Data file: i_bg_ss.dat
LN(Al_ss)
10.4
9.6
8.8
8.0
1
10
30
50
70
90
99
Cumulative Percent
Statistics
N Total : 15
N Miss : 0
N Used : 15
Mean : 9.224
Variance: .513
Std. Dev: .716
% C.V. : 7.765
Skewness: .176
Kurtosis: 1.609
Minimum : 8.152
25th % : 8.581
Median : 9.196
75th % : 9.932
Maximum : 10.218

Zone I
Arsenic in surface soil grid samples
Original dataset (N=15)
Original values

1a



Normal Probability Plot for As_ss
Data file: i_bg_ss.dat

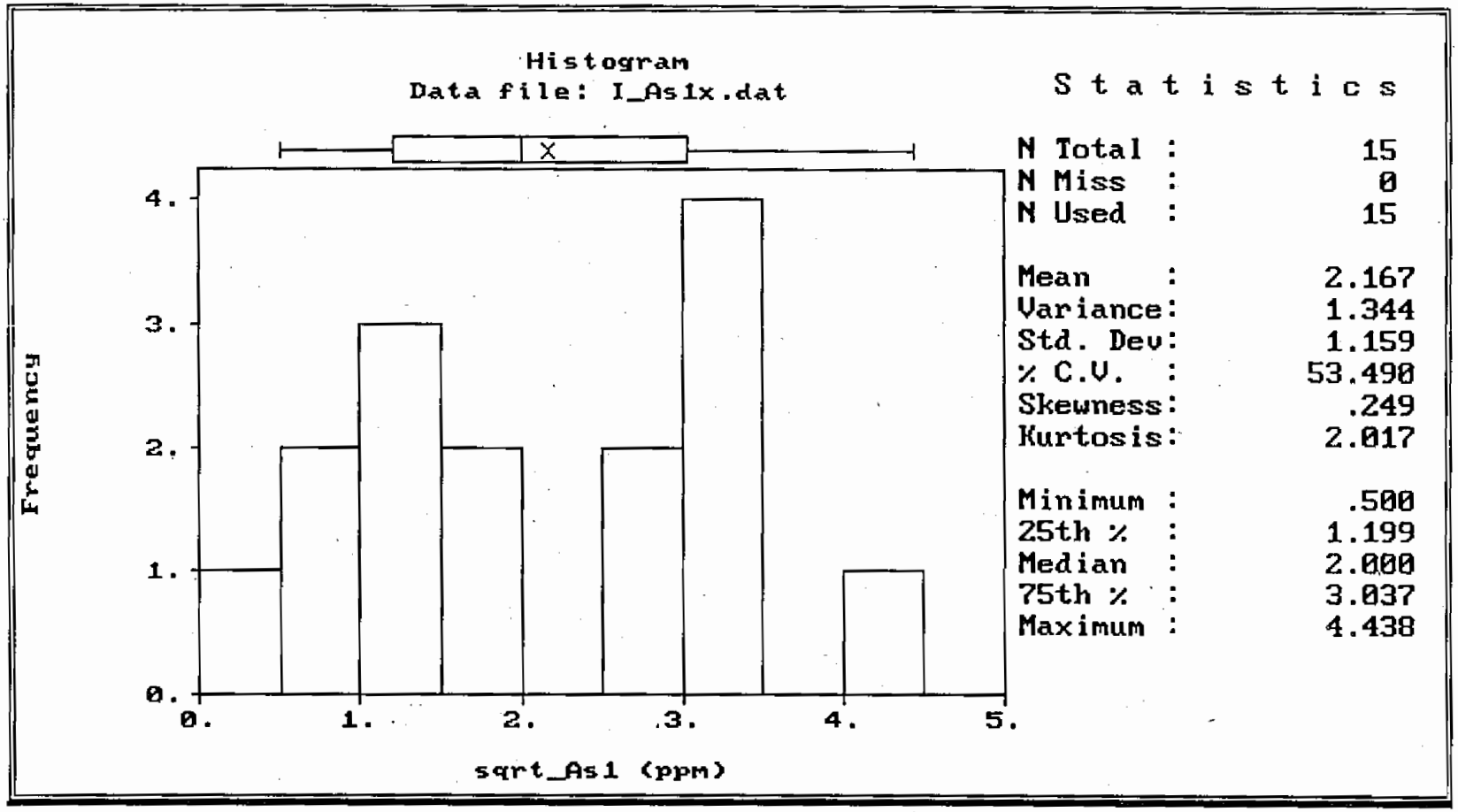


Statistics

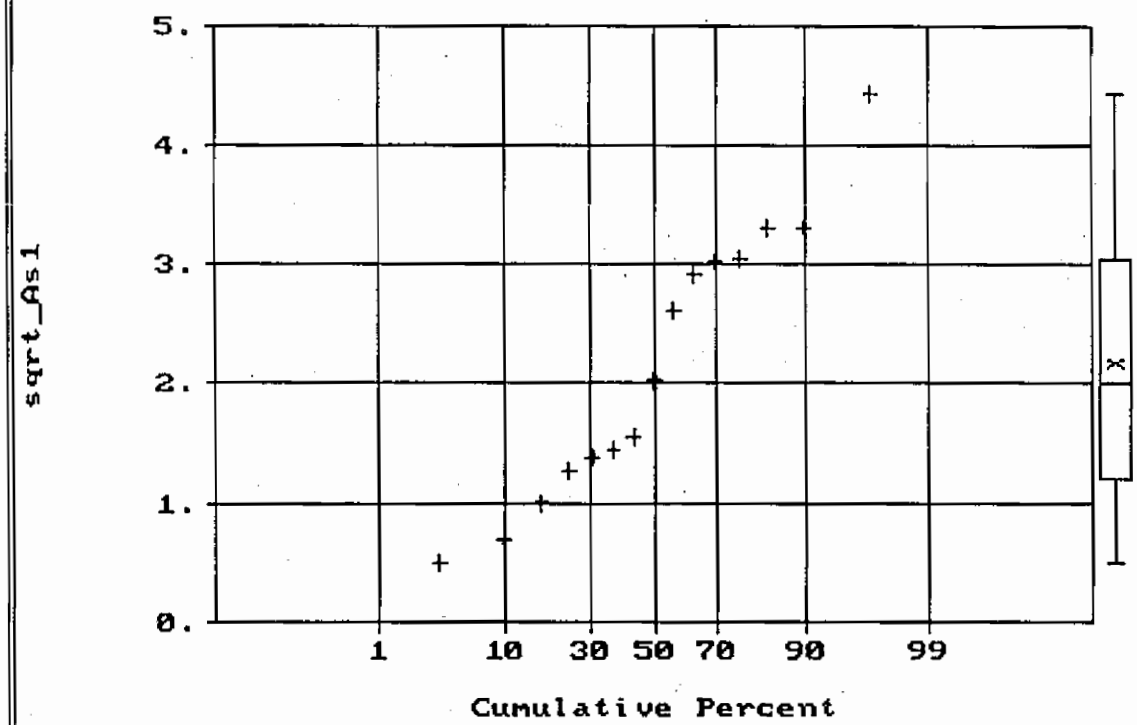
N Total :	15
N Miss :	0
N Used :	15
Mean :	5.951
Variance:	30.204
Std. Dev:	5.496
% C.V. :	92.356
Skewness:	.987
Kurtosis:	3.432
Minimum :	.250
25th % :	1.450
Median :	4.000
75th % :	9.225
Maximum :	19.700

Zone I
Arsenic in surface soil grid samples
Original dataset (N=15)
Square-root transformed values

2a



Normal Probability Plot for sqrt_As1
Data file: I_As1x.dat

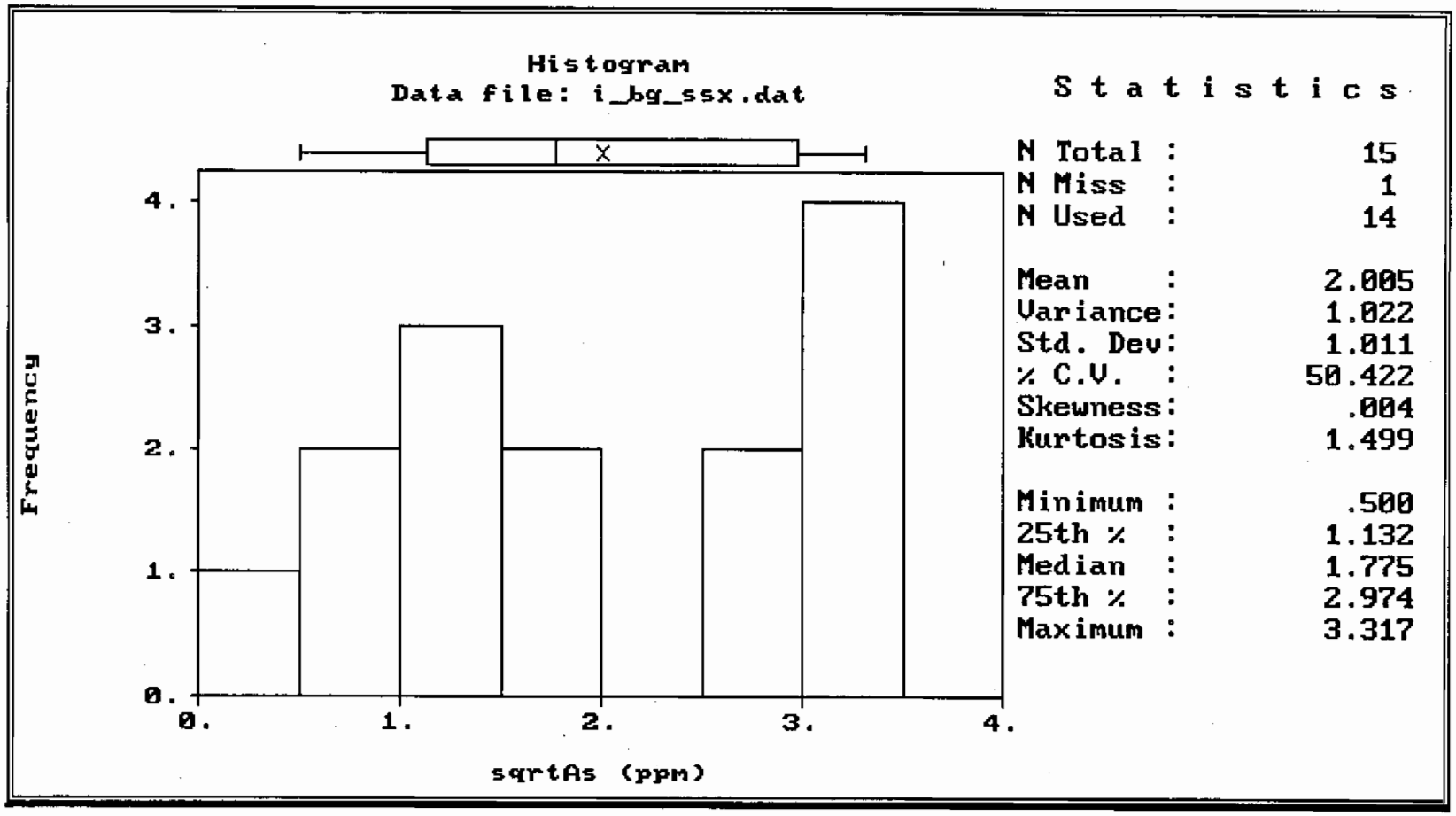


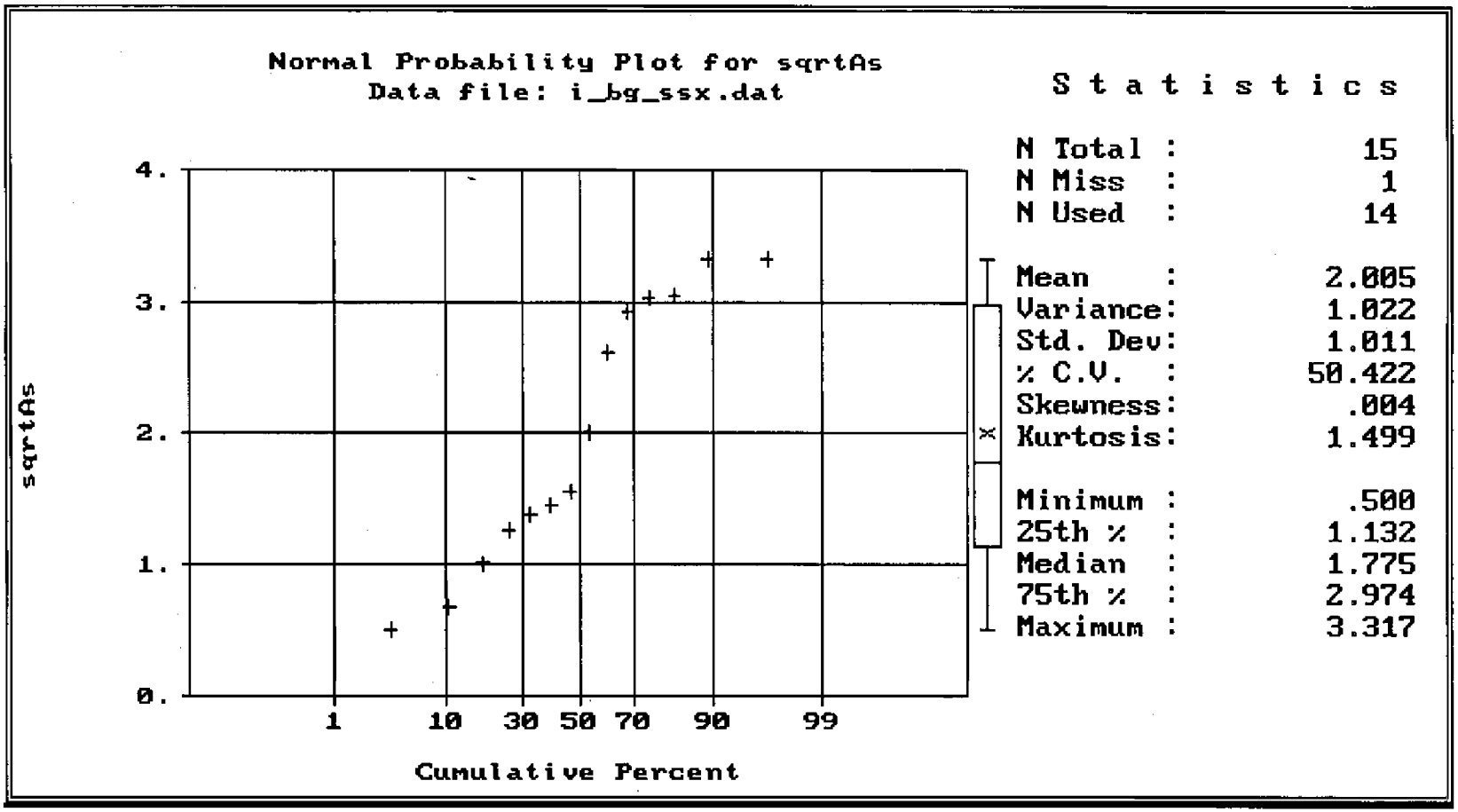
Statistics

N Total :	15
N Miss :	0
N Used :	15
Mean :	2.167
Variance:	1.344
Std. Dev:	1.159
% C.V. :	53.490
Skewness:	.249
Kurtosis:	2.017
Minimum :	.500
25th % :	1.199
Median :	2.000
75th % :	3.037
Maximum :	4.438

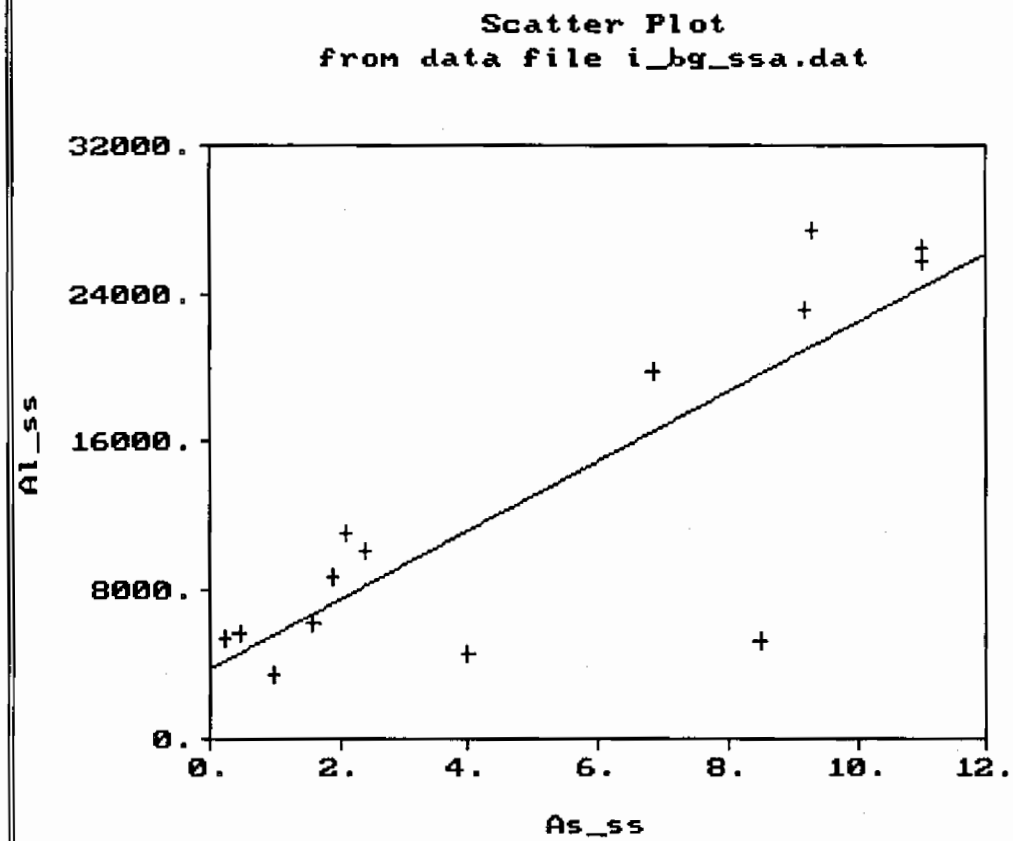
Zone I
Arsenic in surface soil grid samples
Sample 017-01 removed (N = 14)
Square-root transformed values

3a




Normal Probability Plot for sqrtAs
Data file: i_bg_ssx.dat
sqrtAs
4.
3.
2.
1.
0.
1
10
30
50
70
90
99
Cumulative Percent
Statistics
N Total : 15
N Miss : 1
N Used : 14
Mean : 2.005
Variance: 1.022
Std. Dev: 1.011
% C.V. : 50.422
Skewness: .004
Kurtosis: 1.499
Minimum : .500
25th % : 1.132
Median : 1.775
75th % : 2.974
Maximum : 3.317

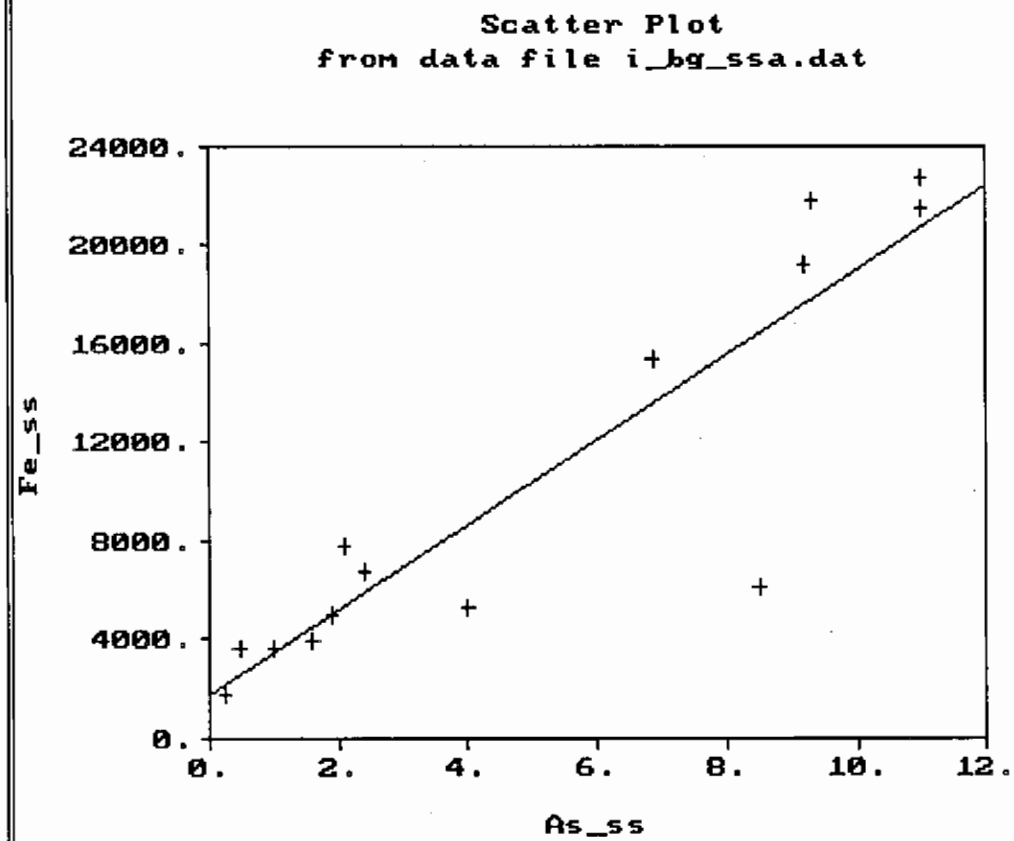
Zone I
Surface soil grid samples
Arsenic vs. aluminum
N = 14



Regression Results:

# Pairs	:	14
Slope	:	1873.264
Intercept	:	3729.699
Correl. coeff.	:	.834

Zone I
Surface soil grid samples
Arsenic vs. iron
N = 14



Regression Results:

# Pairs	:	14
Slope	:	1727.599
Intercept	:	1725.589
Correl. coeff.	:	.901

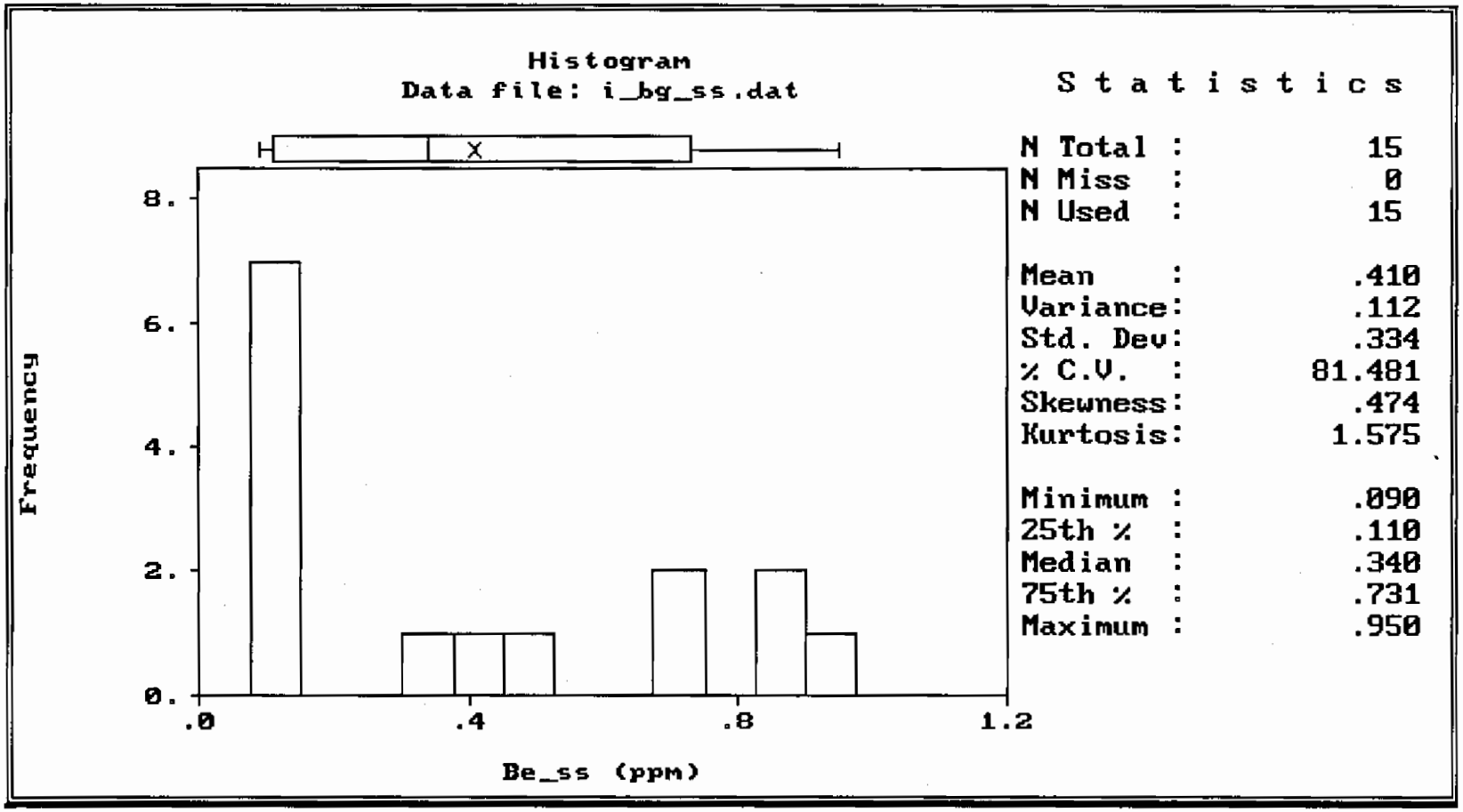
Zone I

Beryllium in surface soil grid samples

Original dataset (N = 15)

Original values

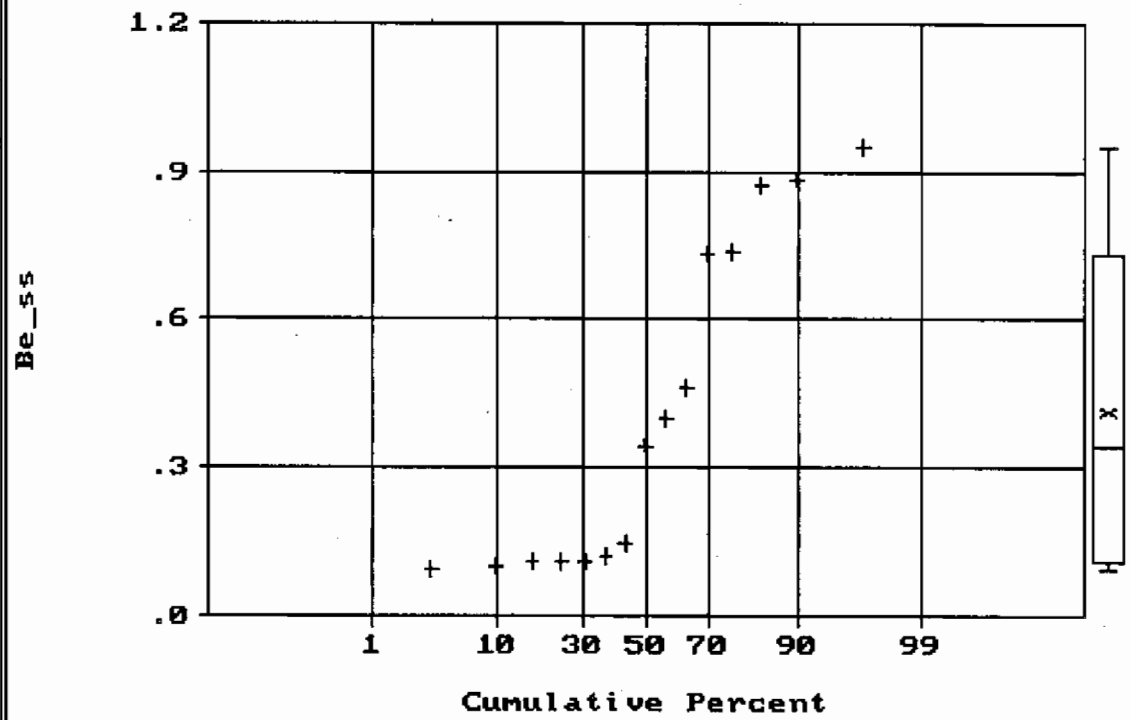
1a



Statistics

N Total :	15
N Miss :	0
N Used :	15
Mean :	.410
Variance:	.112
Std. Dev:	.334
% C.V. :	81.481
Skewness:	.474
Kurtosis:	1.575
Minimum :	.090
25th % :	.110
Median :	.340
75th % :	.731
Maximum :	.950

Normal Probability Plot for Be_ss
Data file: i_bg_ss.dat

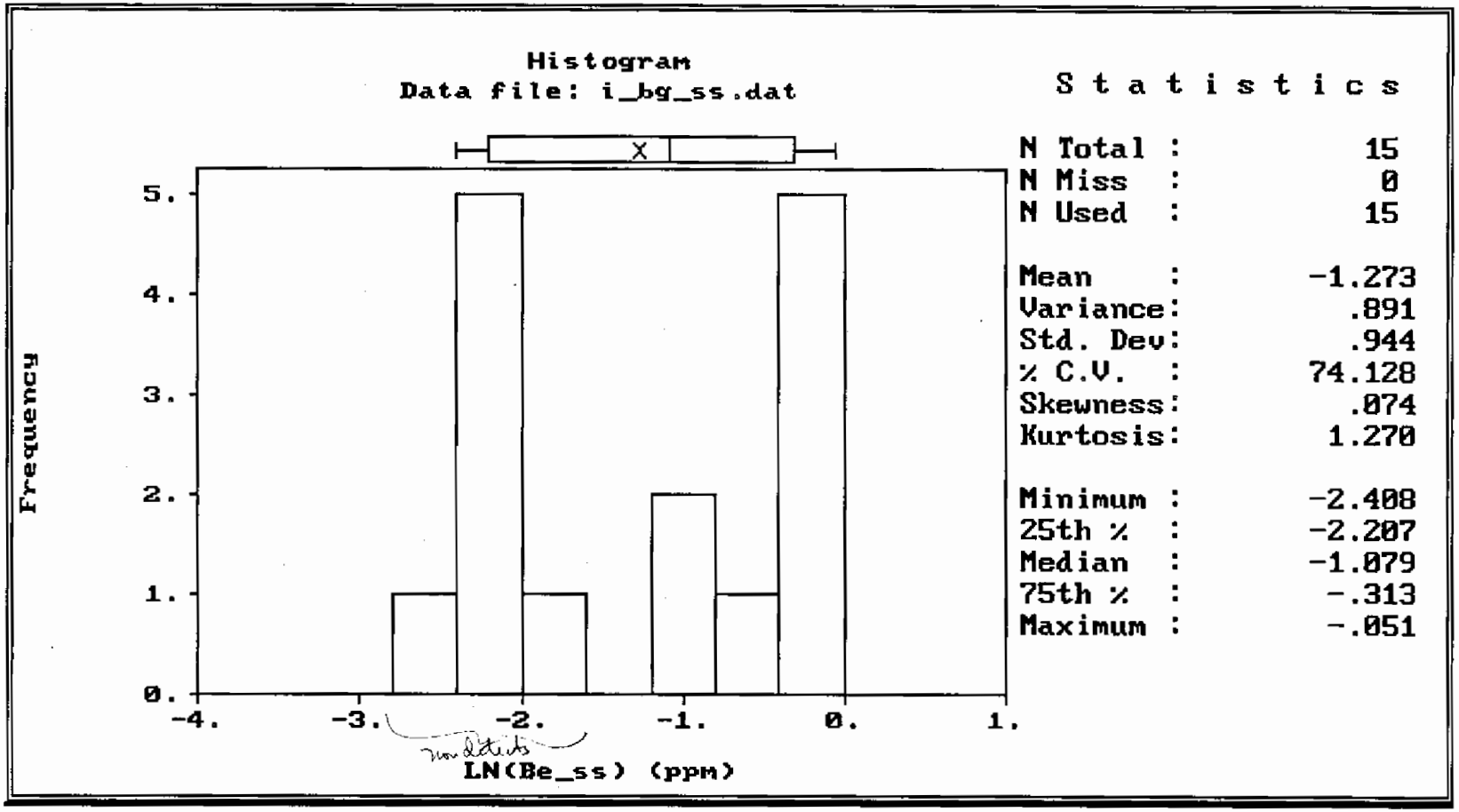


Statistics

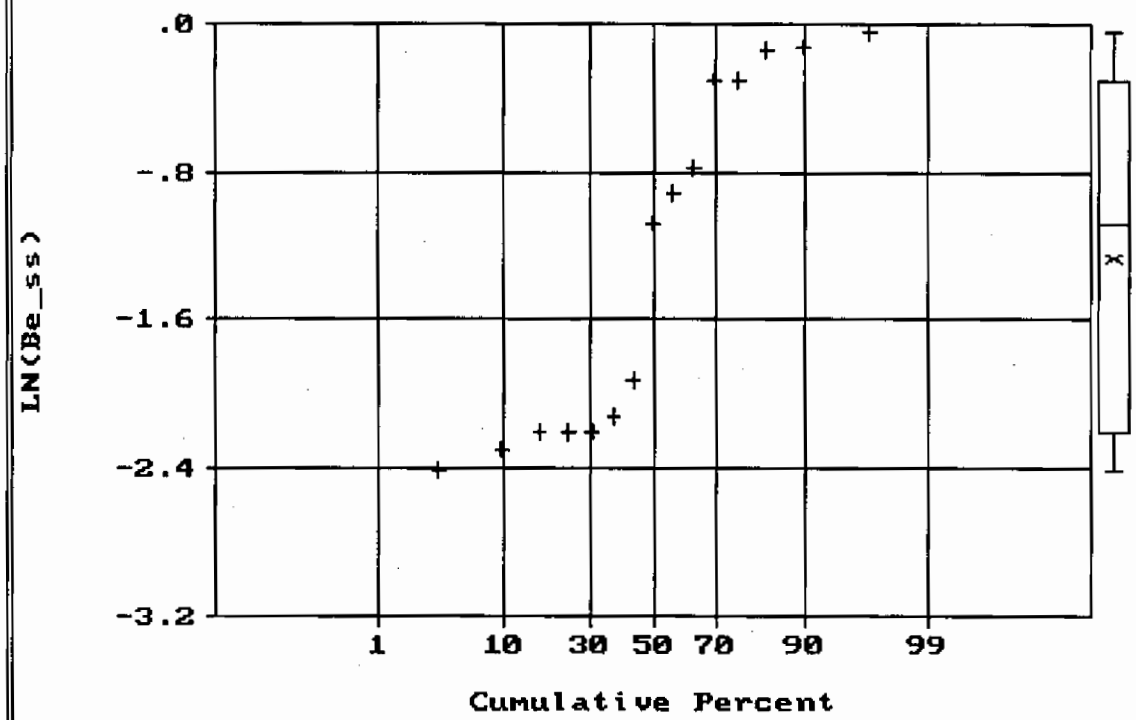
N Total :	15
N Miss :	0
N Used :	15
Mean :	.410
Variance:	.112
Std. Dev:	.334
% C.V. :	81.481
Skewness:	.474
Kurtosis:	1.575
Minimum :	.090
25th % :	.110
Median :	.340
75th % :	.731
Maximum :	.950

Zone I
Beryllium in surface soil grid samples
Original dataset (N=15)
LN-transformed values

2a



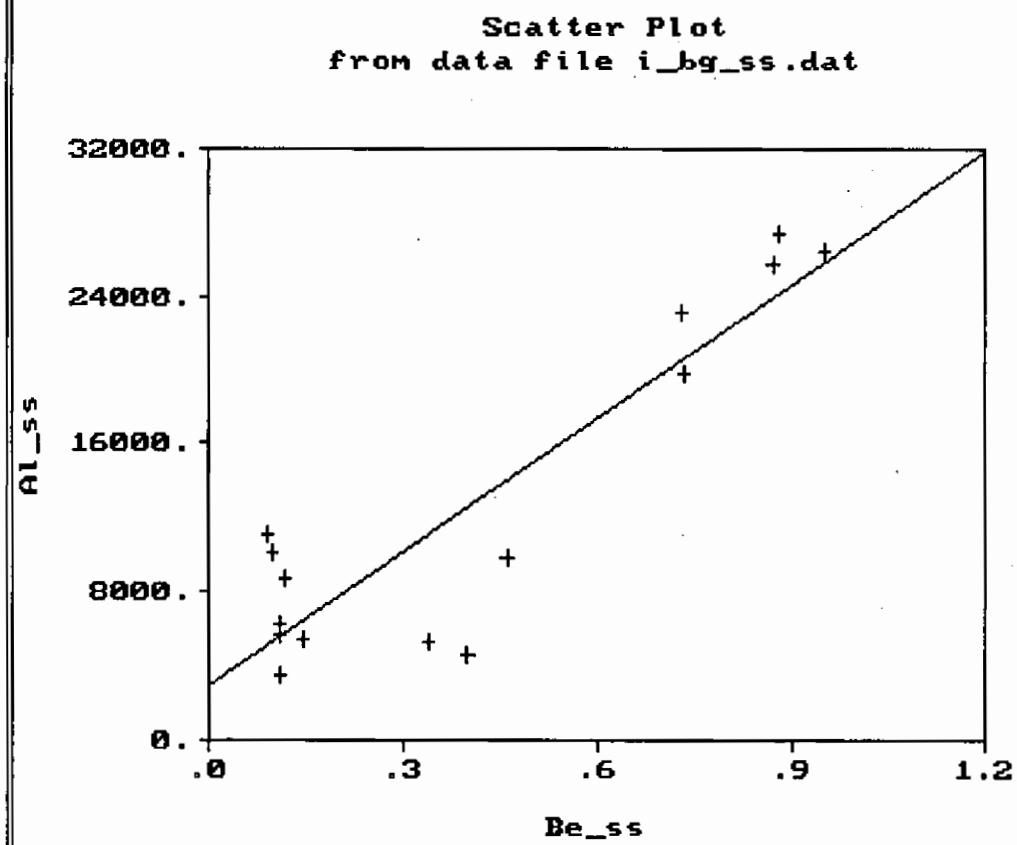
Normal Probability Plot for LN(Be_ss)
Data file: i_bg_ss.dat



Statistics

N Total :	15
N Miss :	0
N Used :	15
Mean :	-1.273
Variance:	.891
Std. Dev:	.944
% C.V. :	74.128
Skewness:	.074
Kurtosis:	1.270
Minimum :	-2.408
25th % :	-2.207
Median :	-1.079
75th % :	-.313
Maximum :	-.051

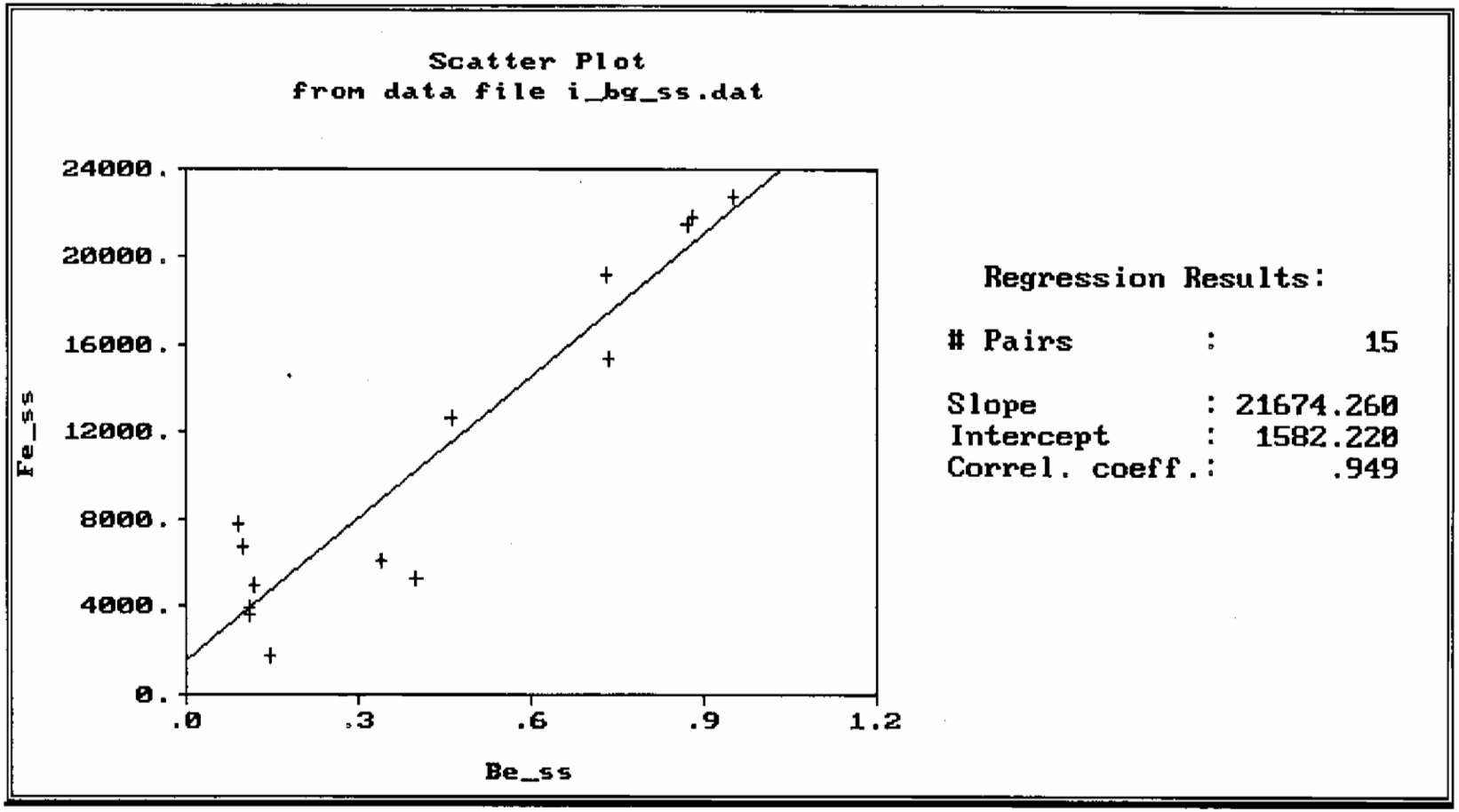
Zone I
Surface soil grid samples
Beryllium vs. aluminum
N = 15



Regression Results:

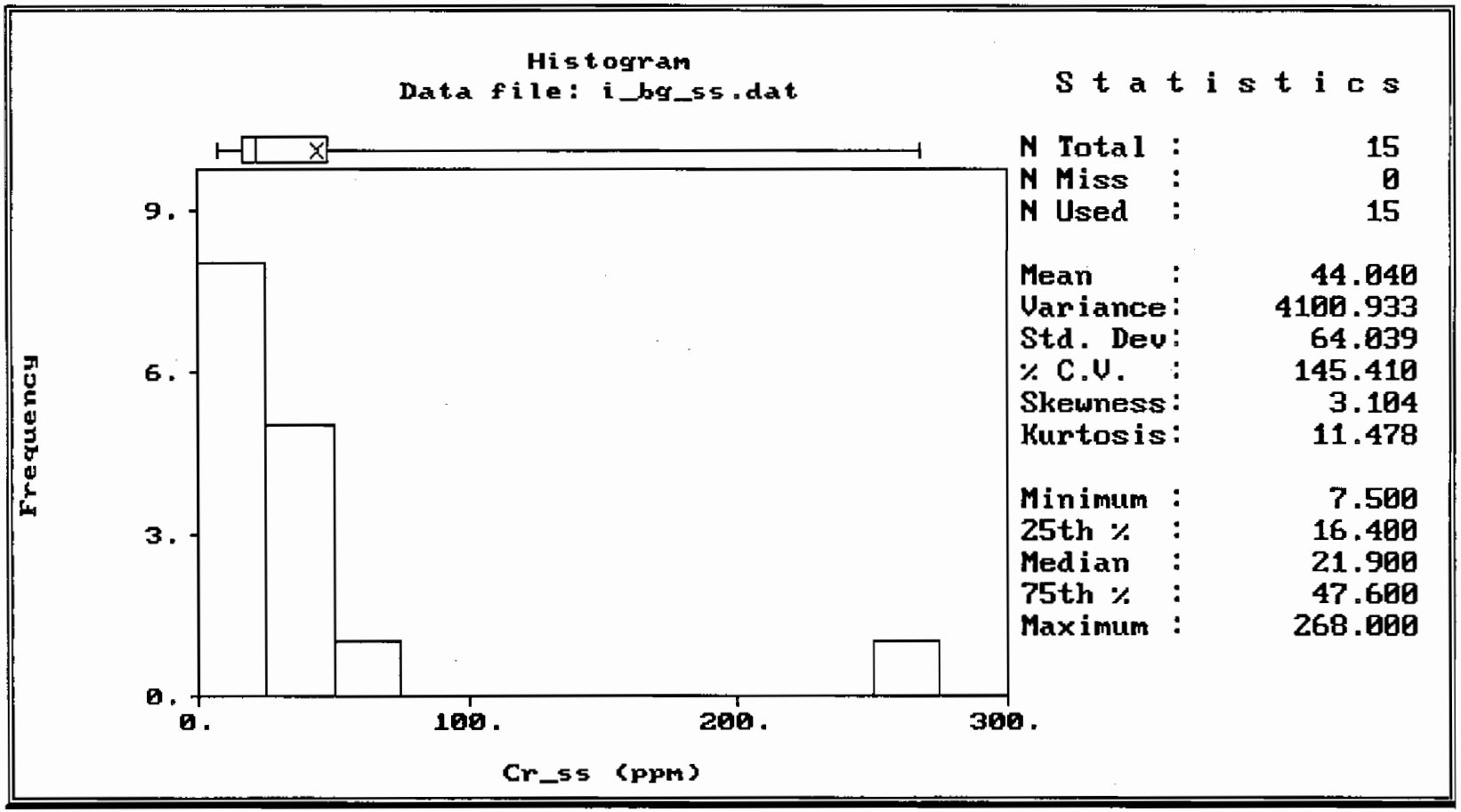
# Pairs	:	15
Slope	:	24125.890
Intercept	:	2933.717
Correl. coeff.	:	.901

Zone I
Surface soil grid samples
Beryllium vs. iron
N = 15



Zone I
Chromium in surface soil grid samples
Original dataset (N = 15)
Original values

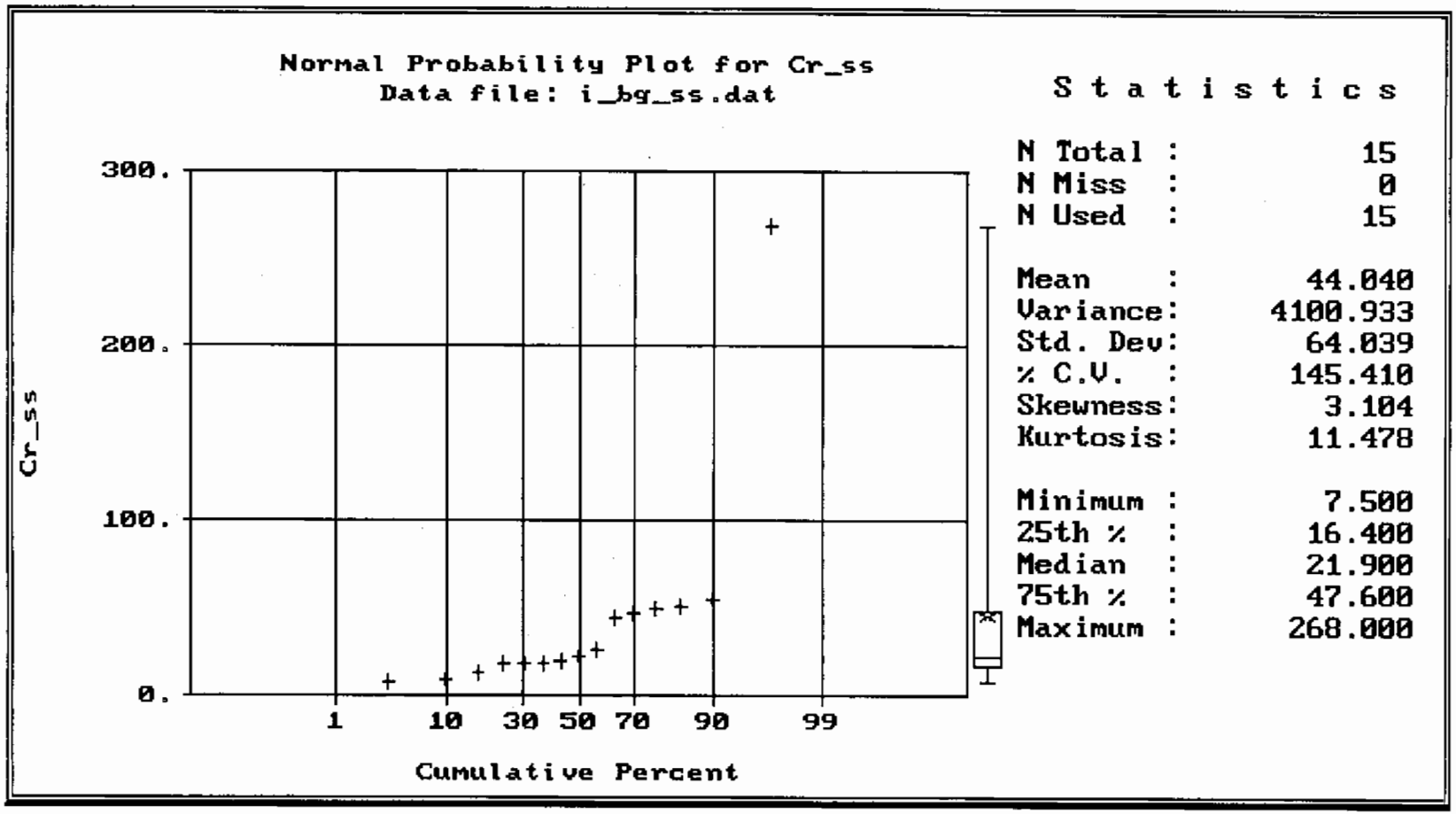
1a



Statistics

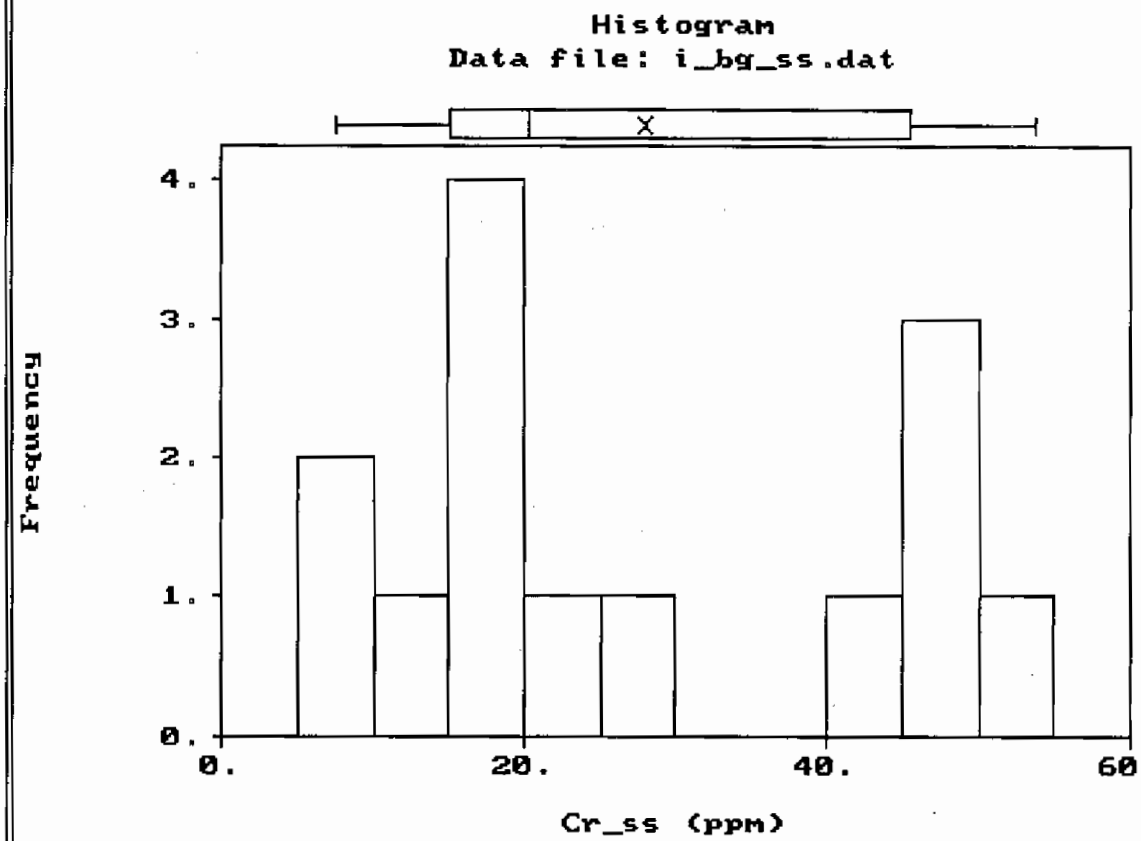
N Total :	15
N Miss :	0
N Used :	15
Mean :	44.040
Variance:	4100.933
Std. Dev:	64.039
% C.V. :	145.410
Skewness:	3.104
Kurtosis:	11.478
Minimum :	7.500
25th % :	16.400
Median :	21.900
75th % :	47.600
Maximum :	268.000

1b


Normal Probability Plot for Cr_ss
Data file: i_bg_ss.dat
300.
200.
100.
0.
Cr_ss
1
10
30
50
70
90
99
Cumulative Percent
Statistics
N Total : 15
N Miss : 0
N Used : 15
Mean : 44.040
Variance: 4100.933
Std. Dev: 64.039
% C.V. : 145.410
Skewness: 3.104
Kurtosis: 11.478
Minimum : 7.500
25th % : 16.400
Median : 21.900
75th % : 47.600
Maximum : 268.000

Zone I
Chromium in surface soil grid samples
Sample 014-01 removed (N = 14)
Original values

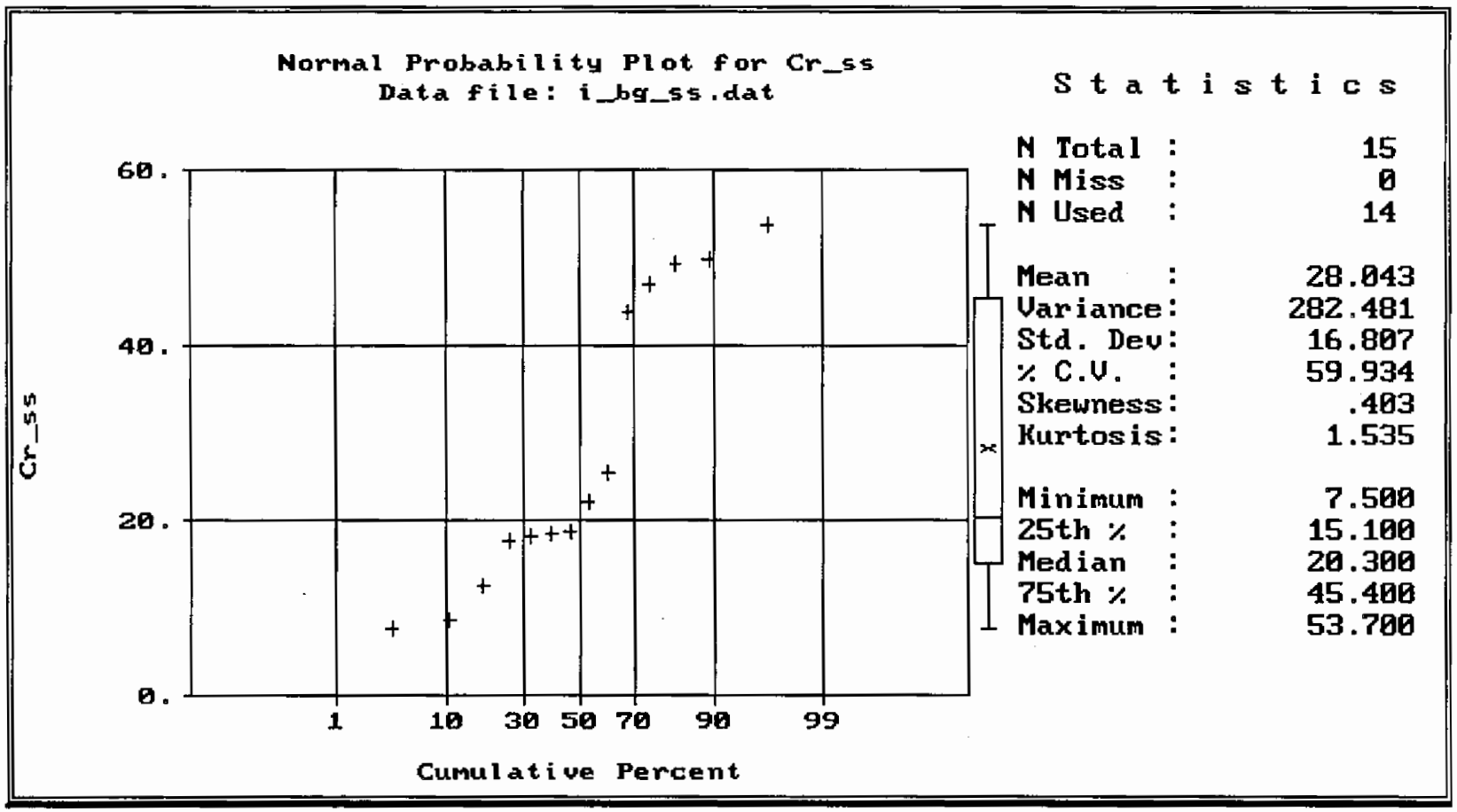
2a



Statistics

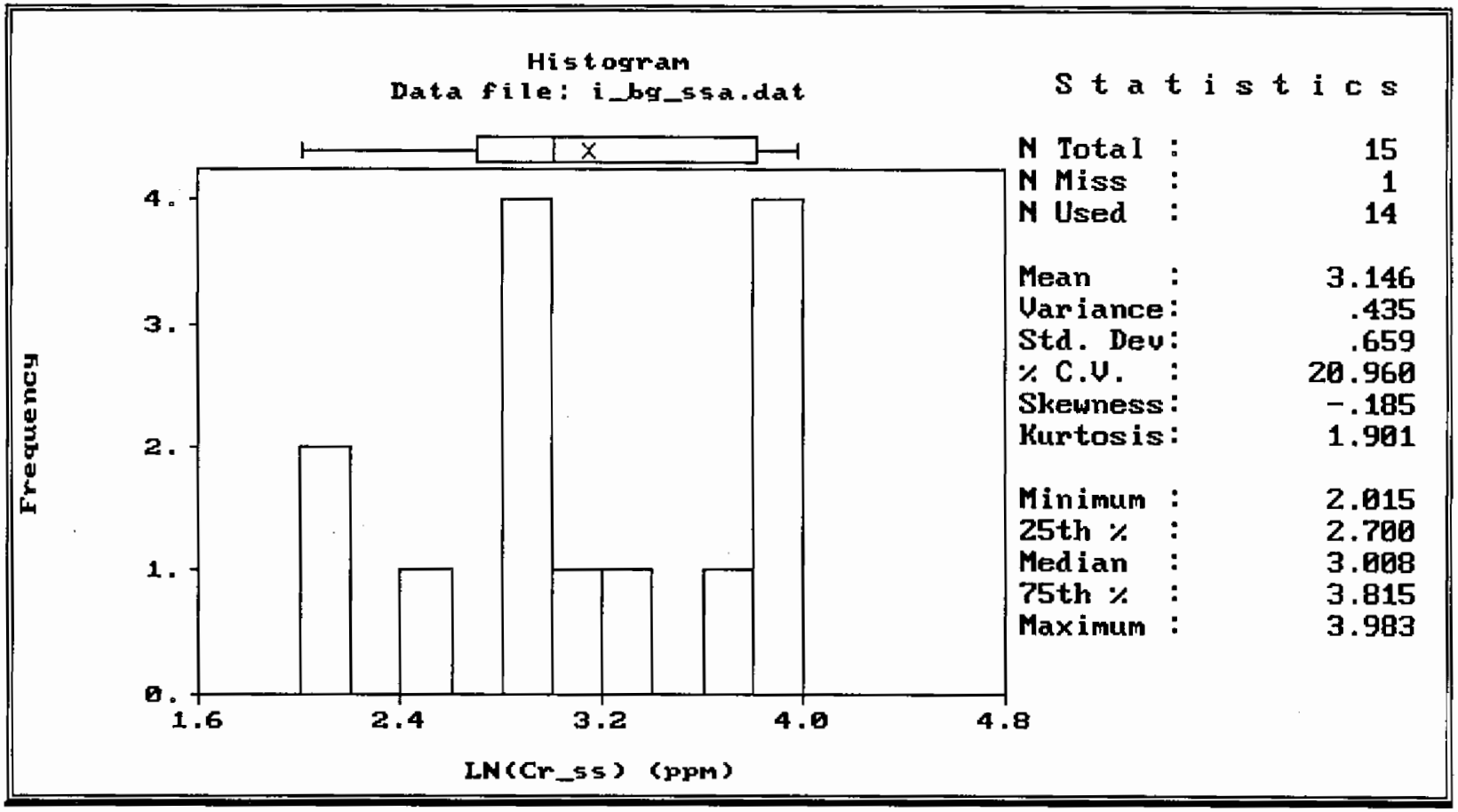
N Total :	15
N Miss :	0
N Used :	14
Mean :	28.043
Variance:	282.481
Std. Dev:	16.807
% C.V. :	59.934
Skewness:	.403
Kurtosis:	1.535
Minimum :	7.500
25th % :	15.100
Median :	20.300
75th % :	45.400
Maximum :	53.700

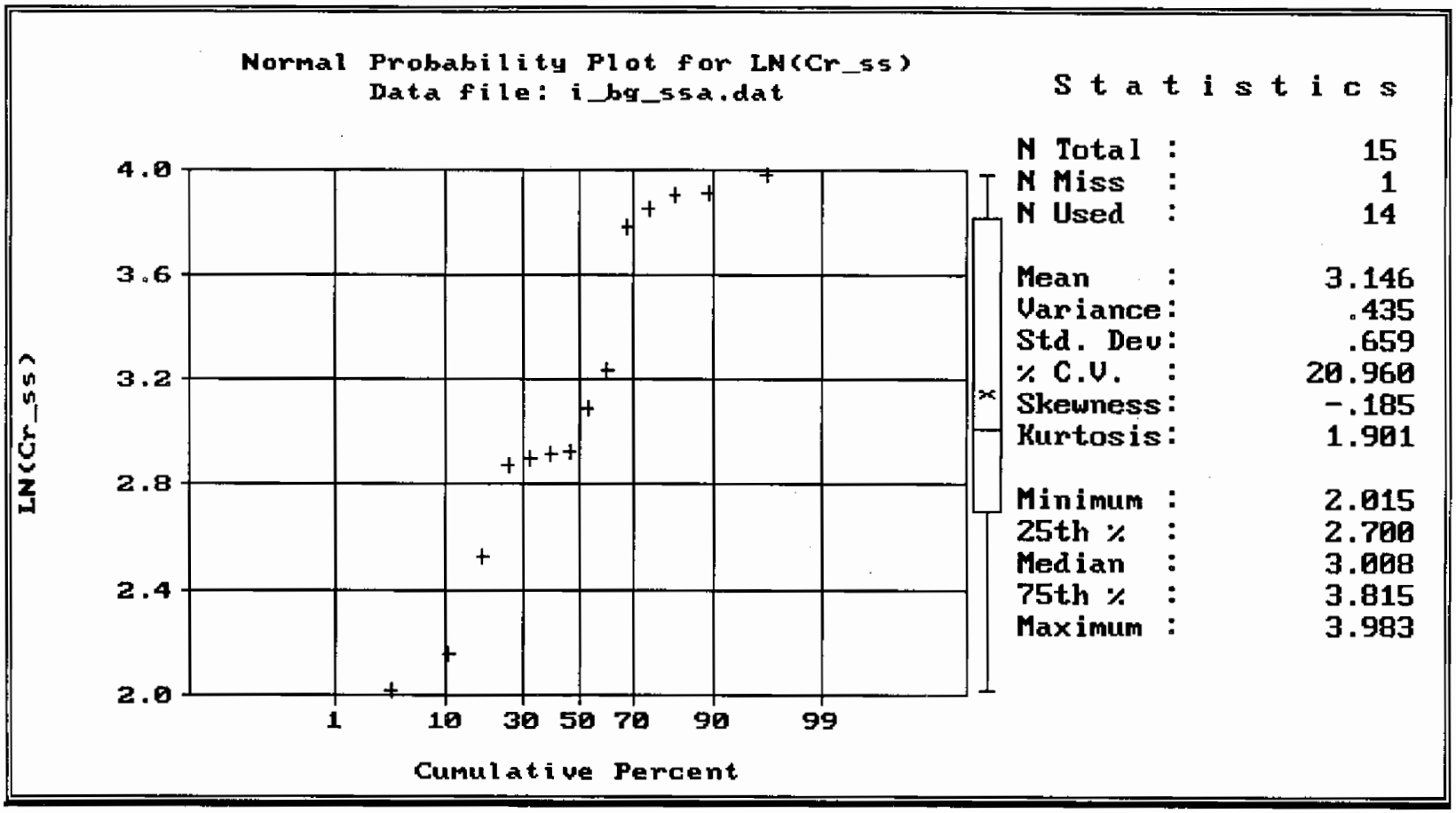
2b


Normal Probability Plot for Cr_ss
Data file: i_bg_ss.dat
60.
40.
20.
0.
Cr_ss
1
10
30
50
70
90
99
Cumulative Percent
Statistics
N Total : 15
N Miss : 0
N Used : 14
Mean : 28.043
Variance: 282.481
Std. Dev: 16.807
% C.V. : 59.934
Skewness: .403
Kurtosis: 1.535
Minimum : 7.500
25th % : 15.100
Median : 20.300
75th % : 45.400
Maximum : 53.700

Zone I
Chromium in surface soil grid samples
Sample 014-01 removed (N = 14)
LN-transformed values

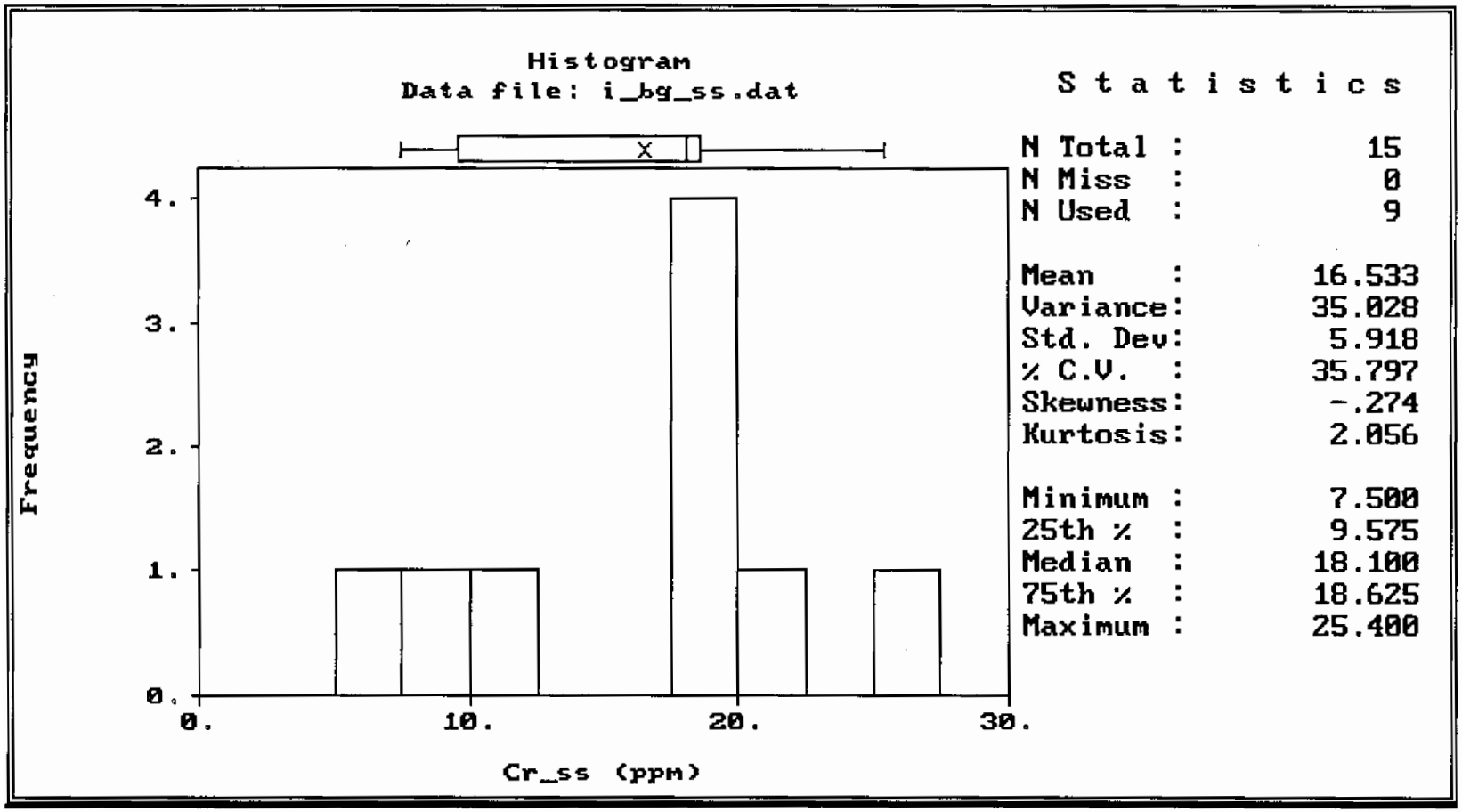
3a



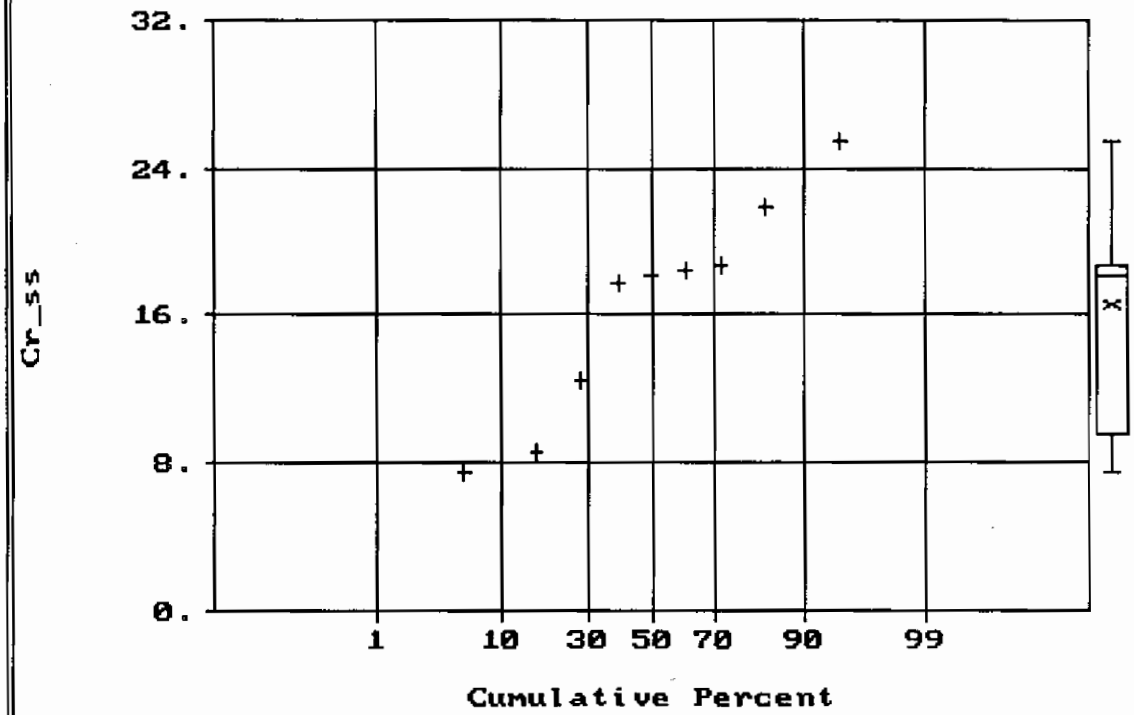

Normal Probability Plot for LN(Cr_ss)
Data file: i_bg_ssa.dat
LN(Cr_ss)
4.0
3.6
3.2
2.8
2.4
2.0
1
10
30
50
70
90
99
Cumulative Percent
x
Statistics
N Total : 15
N Miss : 1
N Used : 14
Mean : 3.146
Variance: .435
Std. Dev: .659
% C.V. : 20.960
Skewness: -.185
Kurtosis: 1.901
Minimum : 2.015
25th % : 2.700
Median : 3.008
75th % : 3.815
Maximum : 3.983

Zone I
Chromium in surface soil grid samples
Outlier sample 014-01 and upper group of five samples removed (N=9)
Original values

4a



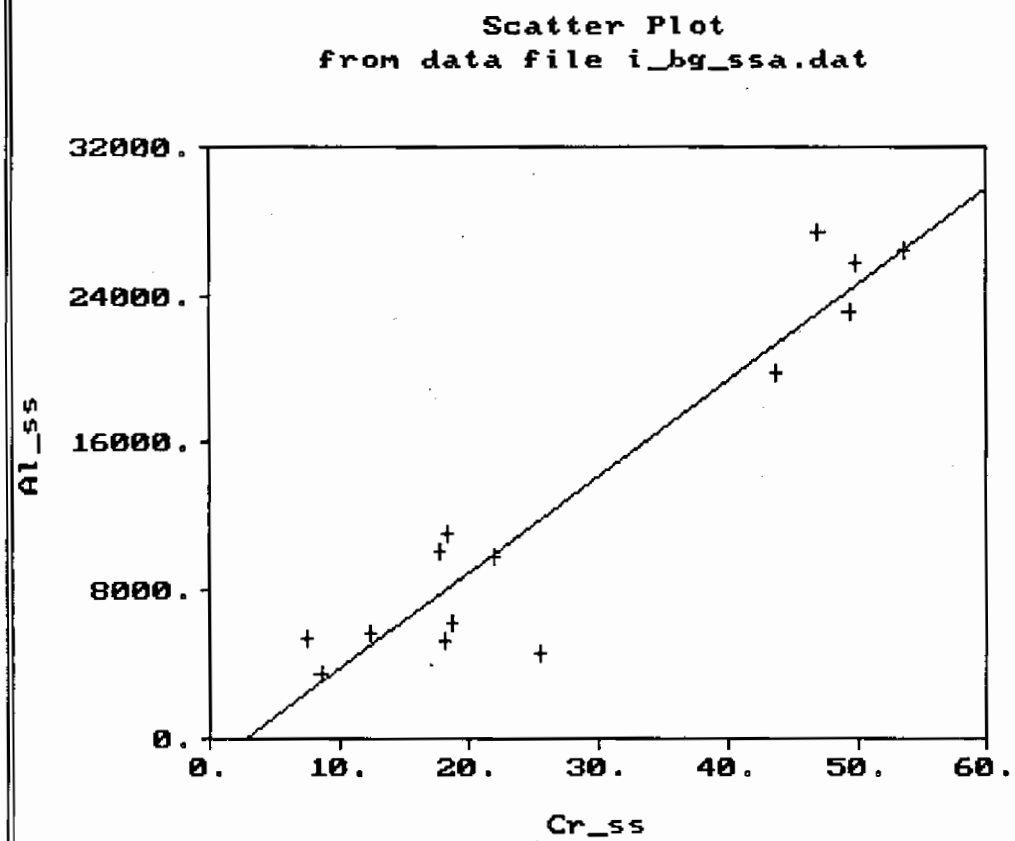
Normal Probability Plot for Cr_ss
Data file: i_bg_ss.dat



Statistics

N Total :	15
N Miss :	0
N Used :	9
Mean :	16.533
Variance:	35.028
Std. Dev:	5.918
% C.V. :	35.797
Skewness:	-.274
Kurtosis:	2.056
Minimum :	7.500
25th % :	9.575
Median :	18.100
75th % :	18.625
Maximum :	25.400

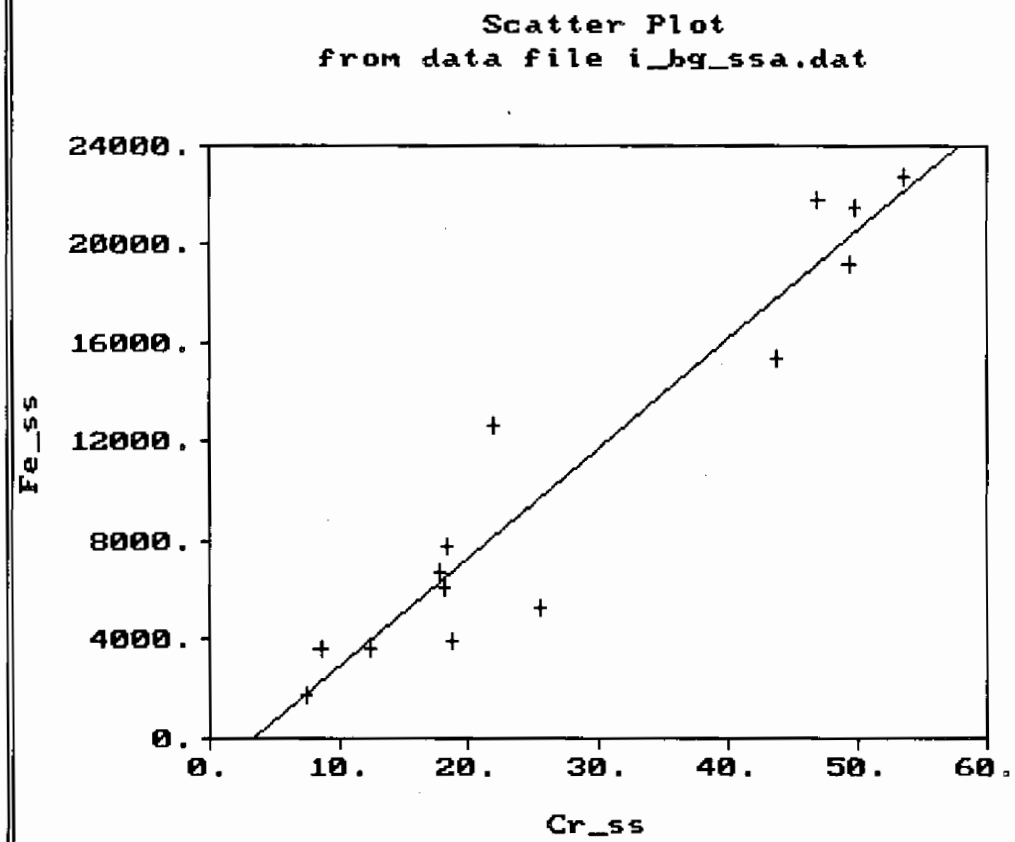
Zone I
Surface soil grid samples
Chromium vs. aluminum
N = 14



Regression Results:

# Pairs	:	14
Slope	:	519.074
Intercept	:	-1434.893
Correl. coeff.	:	.948

Zone I
Surface soil grid samples
Chromium vs. iron
N = 14



Regression Results:

# Pairs	:	14
Slope	:	441.788
Intercept	:	-1529.708
Correl. coeff.	:	.956

E N V I R O N M E N T A L S A F E T Y & D E S I G N S

2909-00001 - CHARLESTON ZONE I SOIL ~~& 1ST GW~~

Samples by Chemical Report

18540-29-9 - Chromium (Hexavalent)

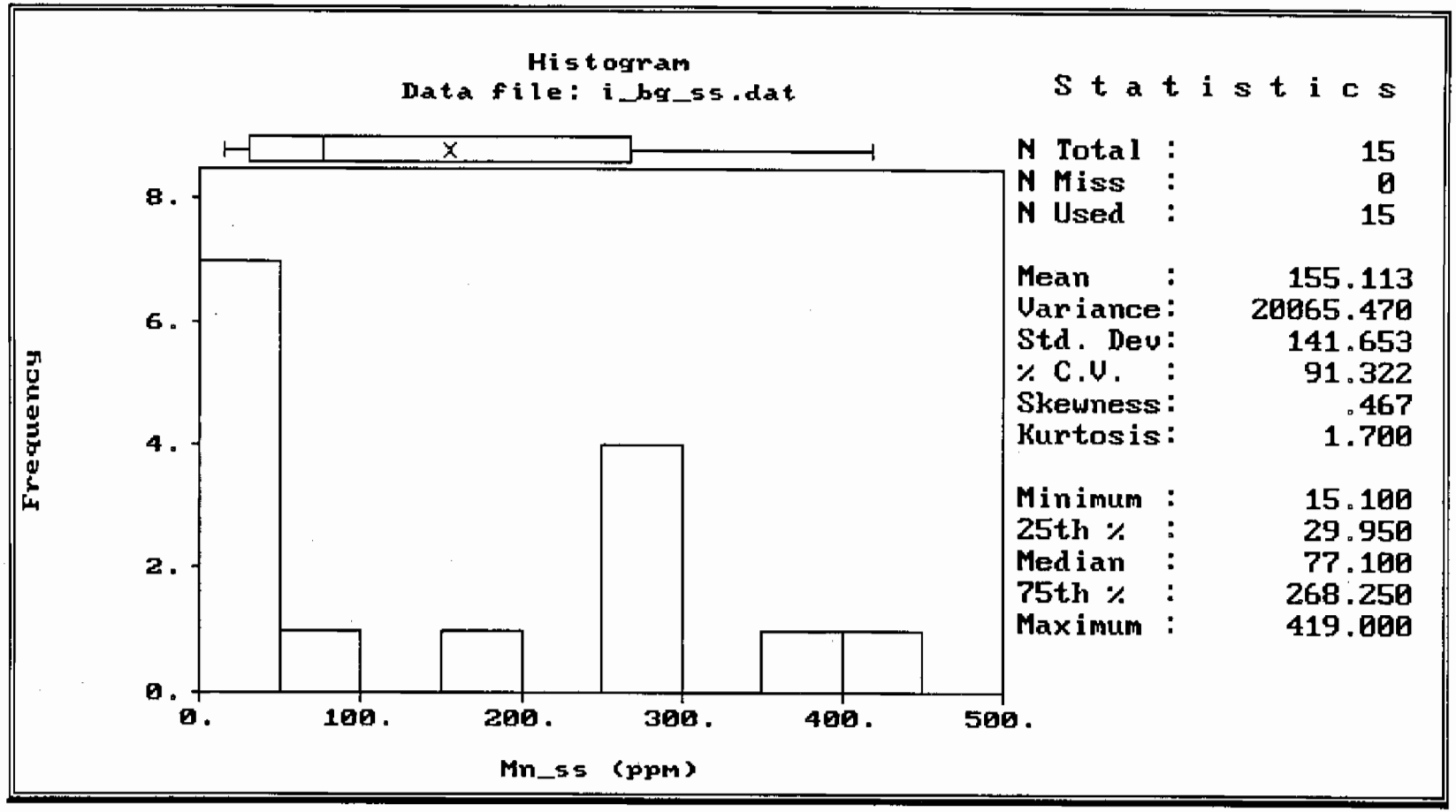
>= 0.0000 for MG/KG

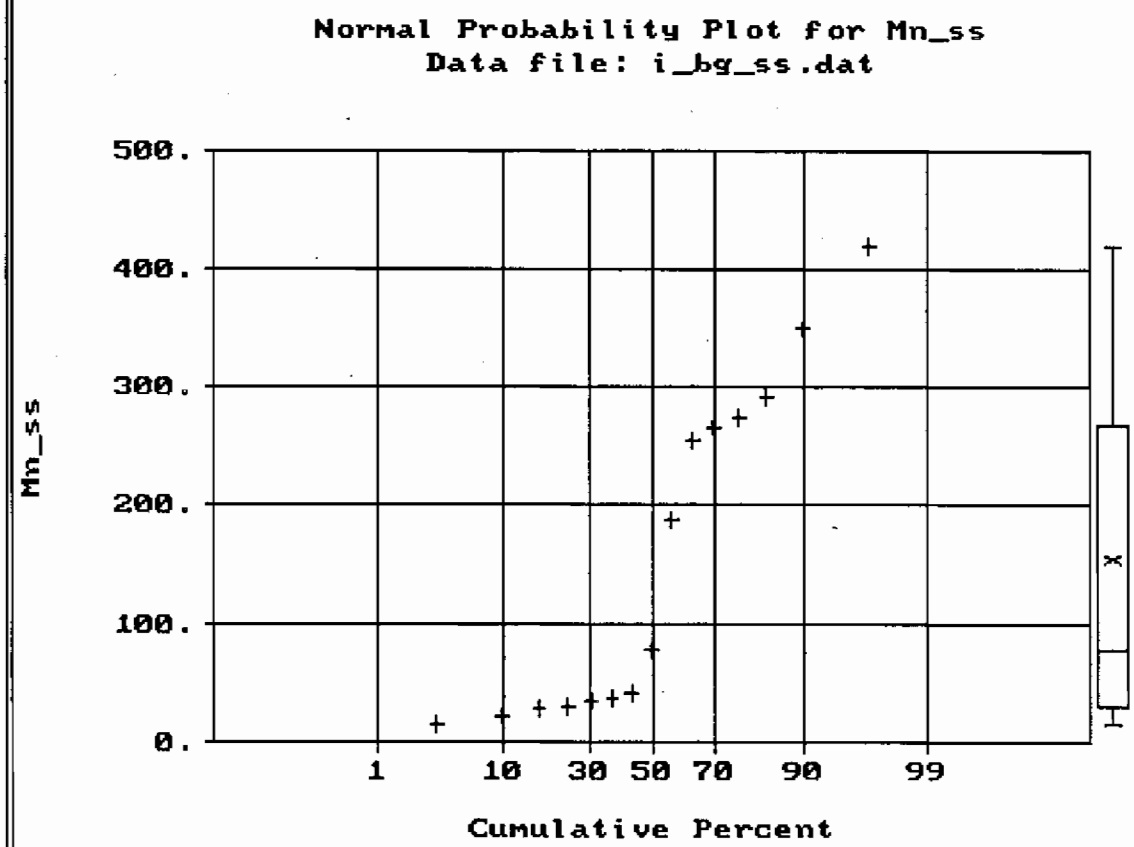
Sample ID	Ext. Orig. ID	Type	Date	Result	VQual	Units	SDG #	
012-C-B001-01	012CB00101	Soil	03/08/95	0.0100	UJ	MG/KG	30057.786	VAL
012-C-B010-01	012CB01001	Soil	03/09/95	0.0100	J	MG/KG	30057.786	VAL
177-C-B003-01	177CB00301	Soil	06/07/96	0.2800	U	MG/KG	25933	VAL
671-C-B002-01	671CB00201	Soil	02/20/95	0.0100	J	MG/KG	291	VAL
671-C-B005-01	671CB00501	Soil	02/27/95	0.0100	J	MG/KG	291	VAL
673-C-B003-01	673CB00301	Soil	02/21/95	0.0100	J	MG/KG	291	VAL
673-C-B006-01	673CB00601	Soil	02/21/95	0.0100	J	MG/KG	291	VAL
676-C-B001-01	676CB00101	Soil	02/21/95	0.0100	J	MG/KG	291	VAL
676-C-B002-01	676CB00201	Soil	02/28/95	0.0100	J	MG/KG	291	VAL
677-C-B010-01	677CB01001	Soil	02/28/95	0.0100	J	MG/KG	291	VAL
678-C-B006-02	678CB00602	Soil	03/06/95	0.0100	UJ	MG/KG	30057.786	VAL
679-C-B002-01	679CB00201	Soil	03/10/95	0.0100	UJ	MG/KG	30057.786	VAL
679-C-B011-01	679CB01101	Soil	03/09/95	0.0100	UJ	MG/KG	30057.786	VAL
681-C-B004-01	681CB00401	Soil	06/21/95	0.0100	U	MG/KG	30057.11T	VAL
684-S-B040-01	684SB04001	Soil	09/07/95	10.0000	U	MG/KG	30057.13X	VAL
684-S-B041-01	684SB04101	Soil	09/07/95	10.0000	U	MG/KG	30057.13X	VAL
684-S-B042-01	684SB04201	Soil	09/07/95	10.0000	U	MG/KG	30057.13X	VAL
685-C-B004-01	685CB00401	Soil	02/22/95	0.0100	J	MG/KG	291	VAL
685-C-B015-01	685CB01501	Soil	06/20/95	0.0100	U	MG/KG	30057.11T	VAL
687-N-0002-01	688N000201	Soil	06/22/95	0.0100	U	MG/KG	30057.11T	VAL
690-C-B002-01	690CB00201	Soil	12/14/94	0.0100	UJ	MG/KG	APX15	VAL
690-C-B015-01	690CB01501	Water	02/08/95	0.0100	UJ	MG/KG	30057.39	VAL
690-C-B026-01	690CB02601	Water	02/13/95	0.0100	UJ	MG/KG	30057.39	VAL
DMA-C-B001-01	DMACB00101	Soil	03/16/95	0.0100	UJ	MG/KG	30057.786	VAL
DMA-C-B002-01	DMACB00201	Soil	04/04/95	0.6280	U	MG/KG	1T	VAL
GDI-C-B006-01	GRDCB00601	Water	02/16/95	0.0100	UJ	MG/KG	30057.39	VAL

*** End of Report ***

Zone I
Manganese in surface soil grid samples
Original dataset (N = 15)
Original values

1a





Statistics

N Total :	15
N Miss :	0
N Used :	15
Mean :	155.113
Variance:	20065.470
Std. Dev:	141.653
% C.V. :	91.322
Skewness:	.467
Kurtosis:	1.700
Minimum :	15.100
25th % :	29.950
Median :	77.100
75th % :	268.250
Maximum :	419.000

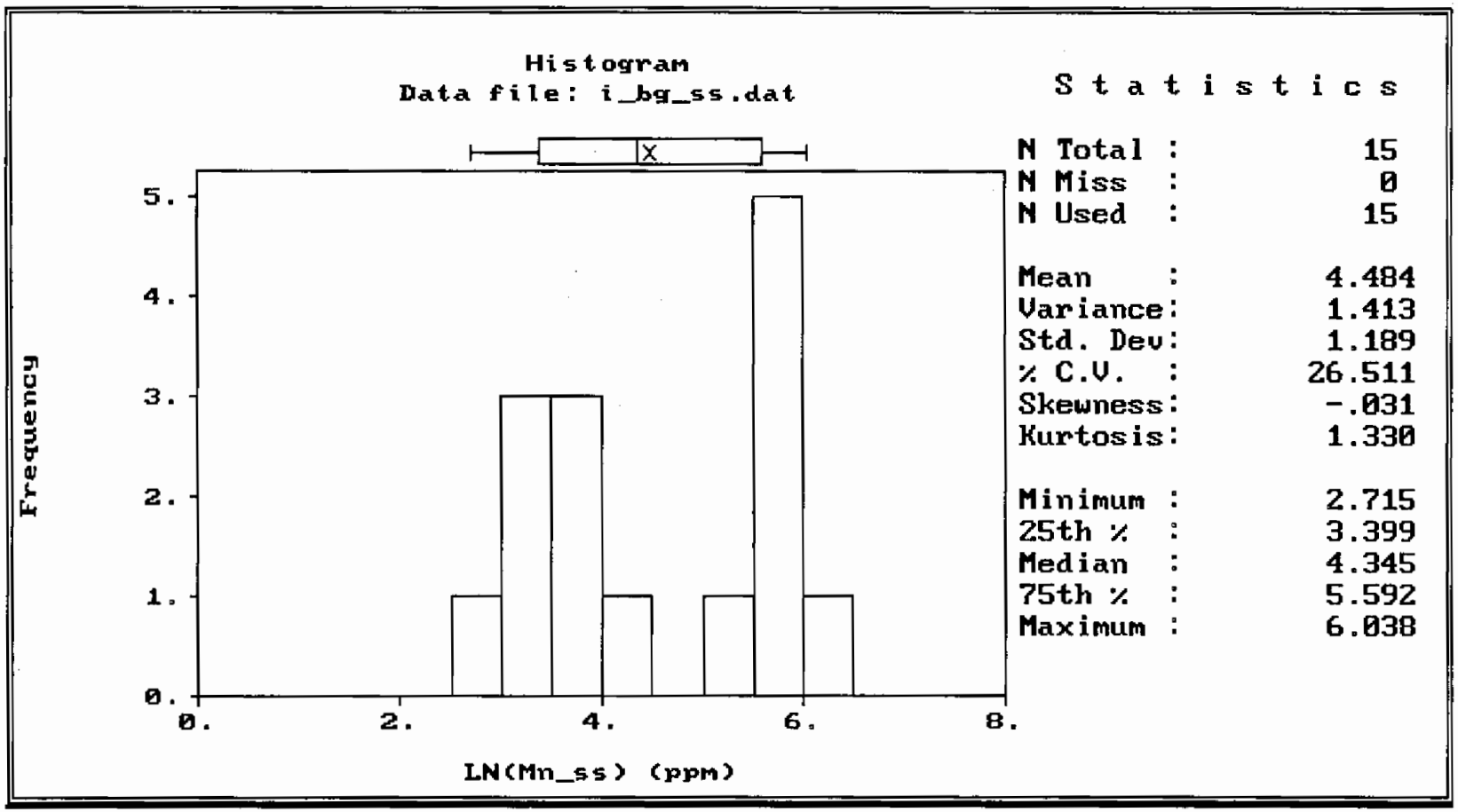
Zone I

Manganese in surface soil grid samples

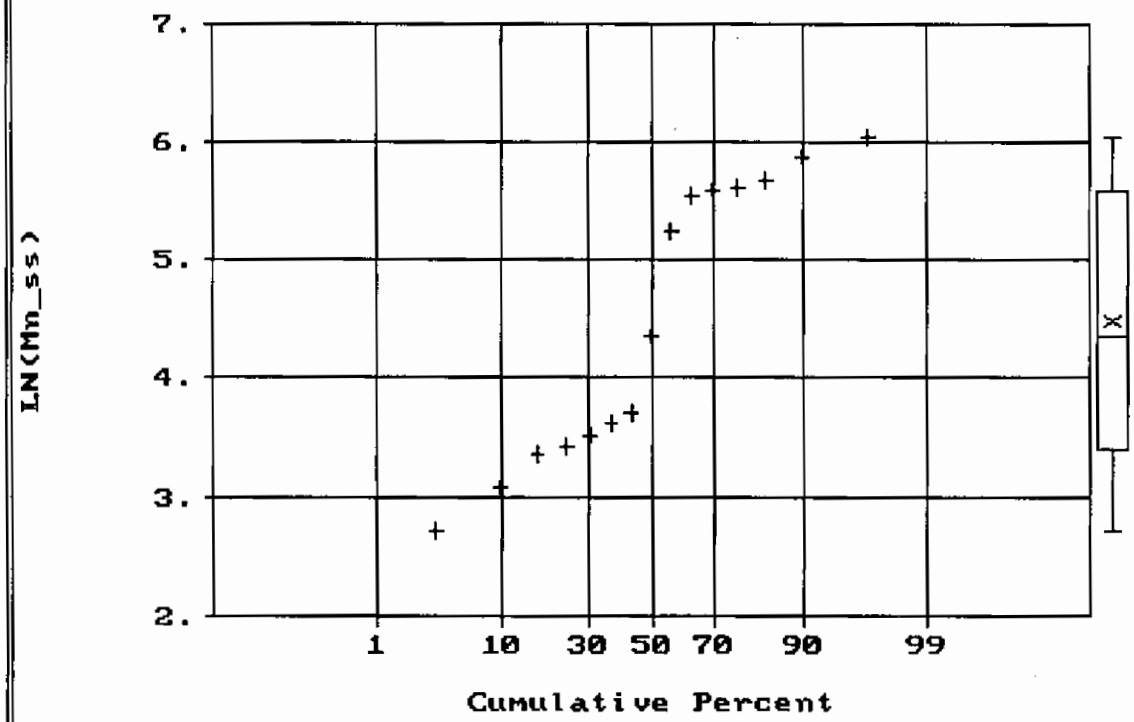
Original dataset (N=15)

LN-transformed values

2a



Normal Probability Plot for LN(Mn_ss)
Data file: i_bg_ss.dat

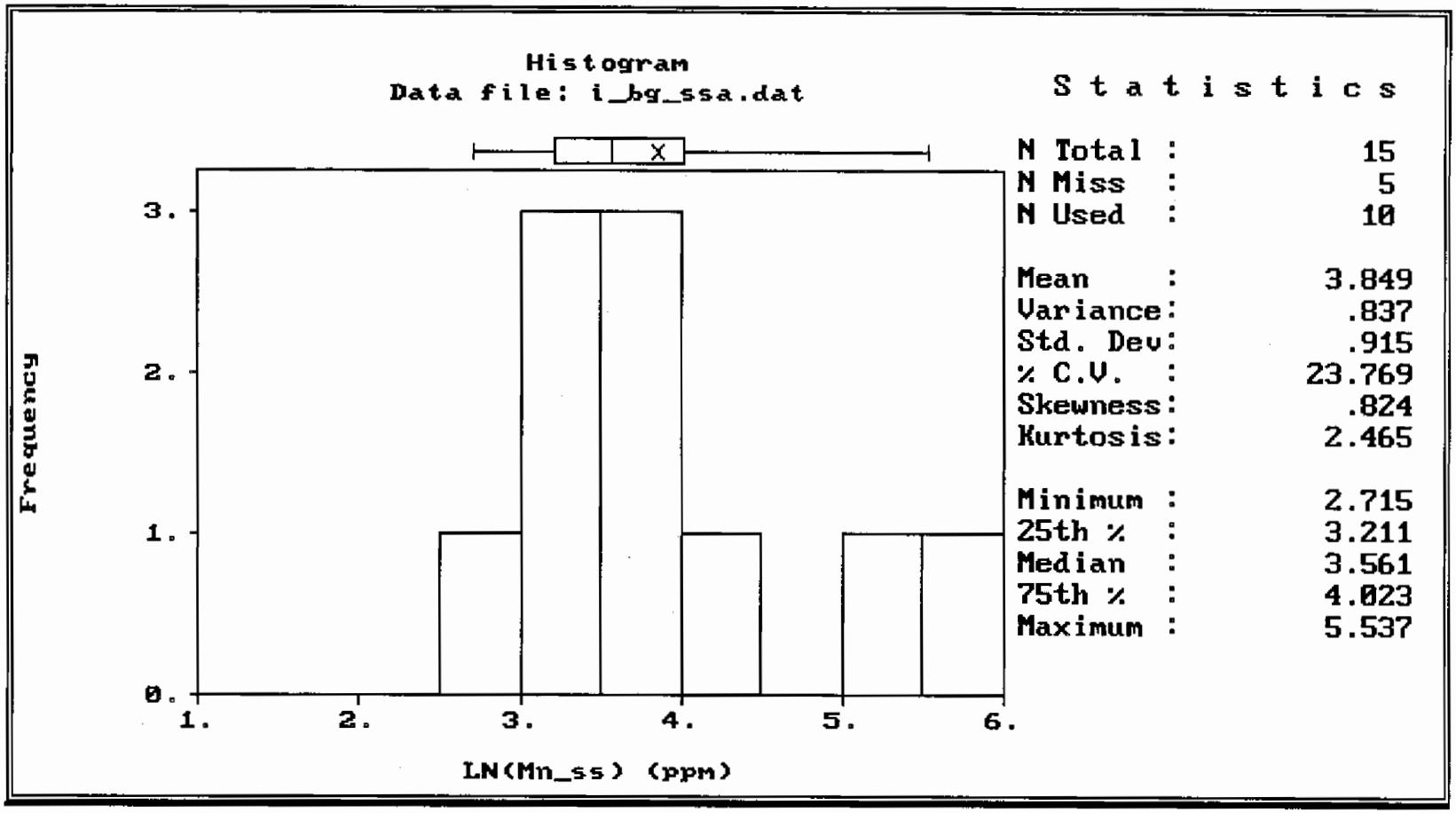


Statistics

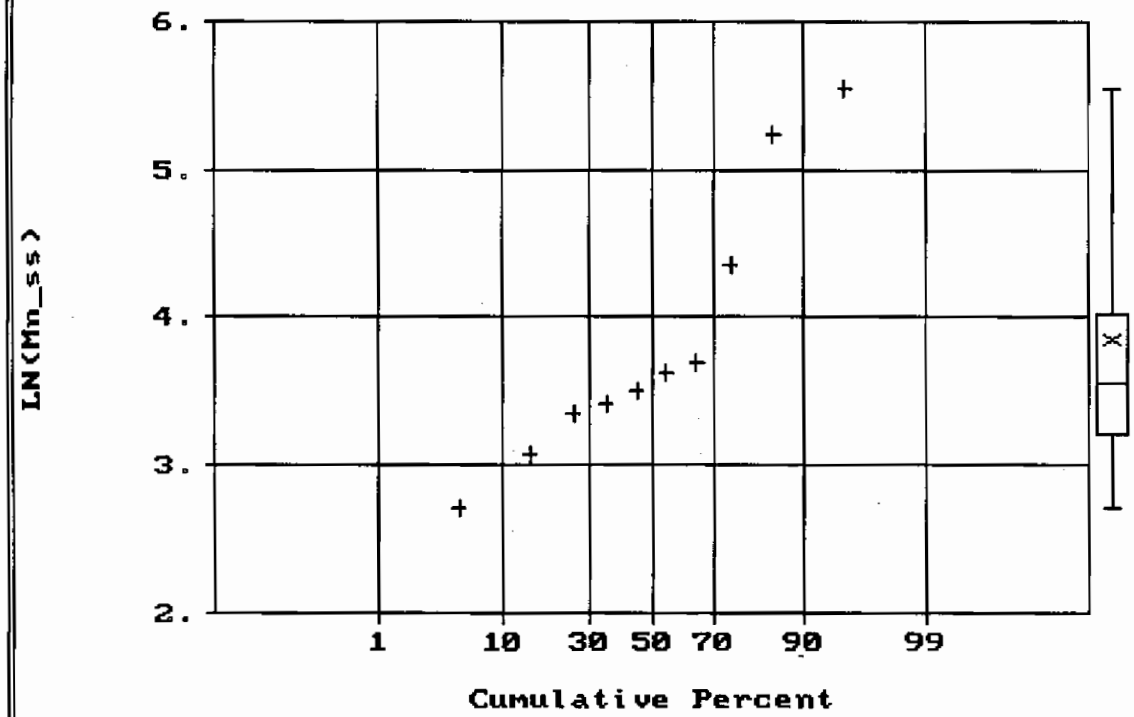
N Total :	15
N Miss :	0
N Used :	15
Mean :	4.484
Variance:	1.413
Std. Dev:	1.189
% C.V. :	26.511
Skewness:	-.031
Kurtosis:	1.330
Minimum :	2.715
25th % :	3.399
Median :	4.345
75th % :	5.592
Maximum :	6.038

Zone I
Manganese in surface soil grid samples
Five clay-rich samples removed (N=10)
LN-transformed values

3a



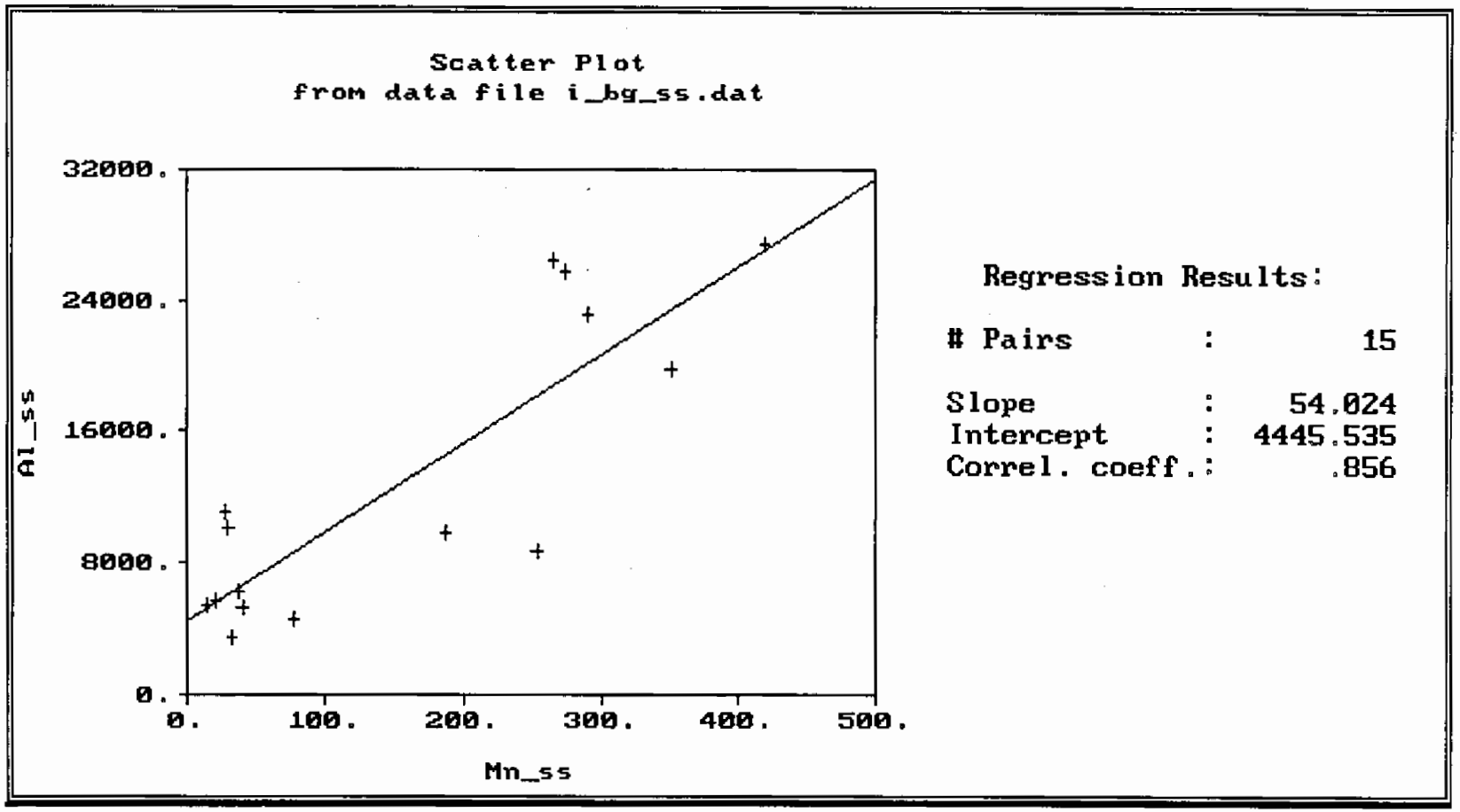
Normal Probability Plot for LN(Mn_ss)
Data file: i_bg_ssa.dat



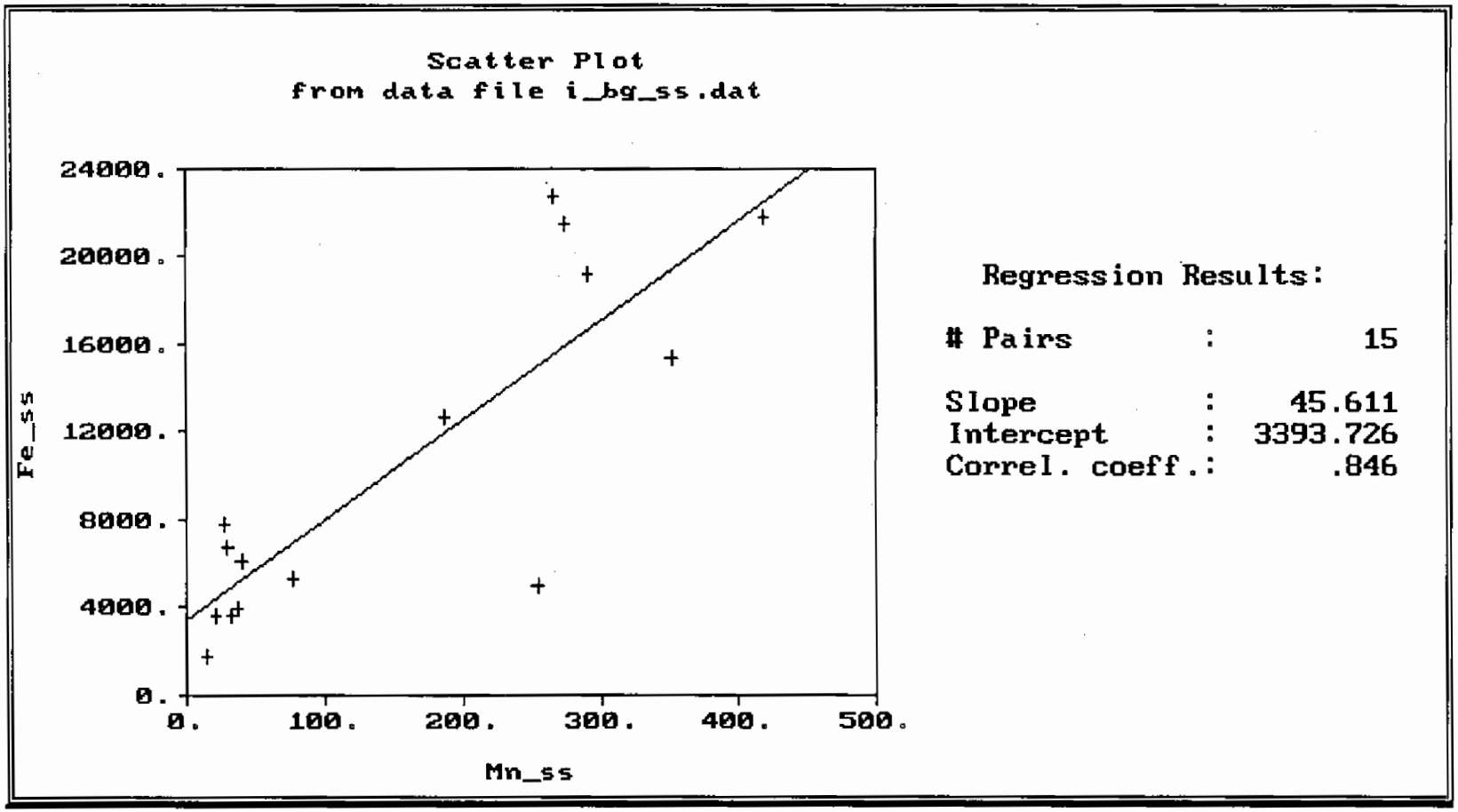
S t a t i s t i c s

N Total :	15
N Miss :	5
N Used :	10
Mean :	3.849
Variance:	.837
Std. Dev:	.915
% C.V. :	23.769
Skewness:	.824
Kurtosis:	2.465
Minimum :	2.715
25th % :	3.211
Median :	3.561
75th % :	4.023
Maximum :	5.537

Zone I
Surface soil grid samples
MN vs. Al
N = 15

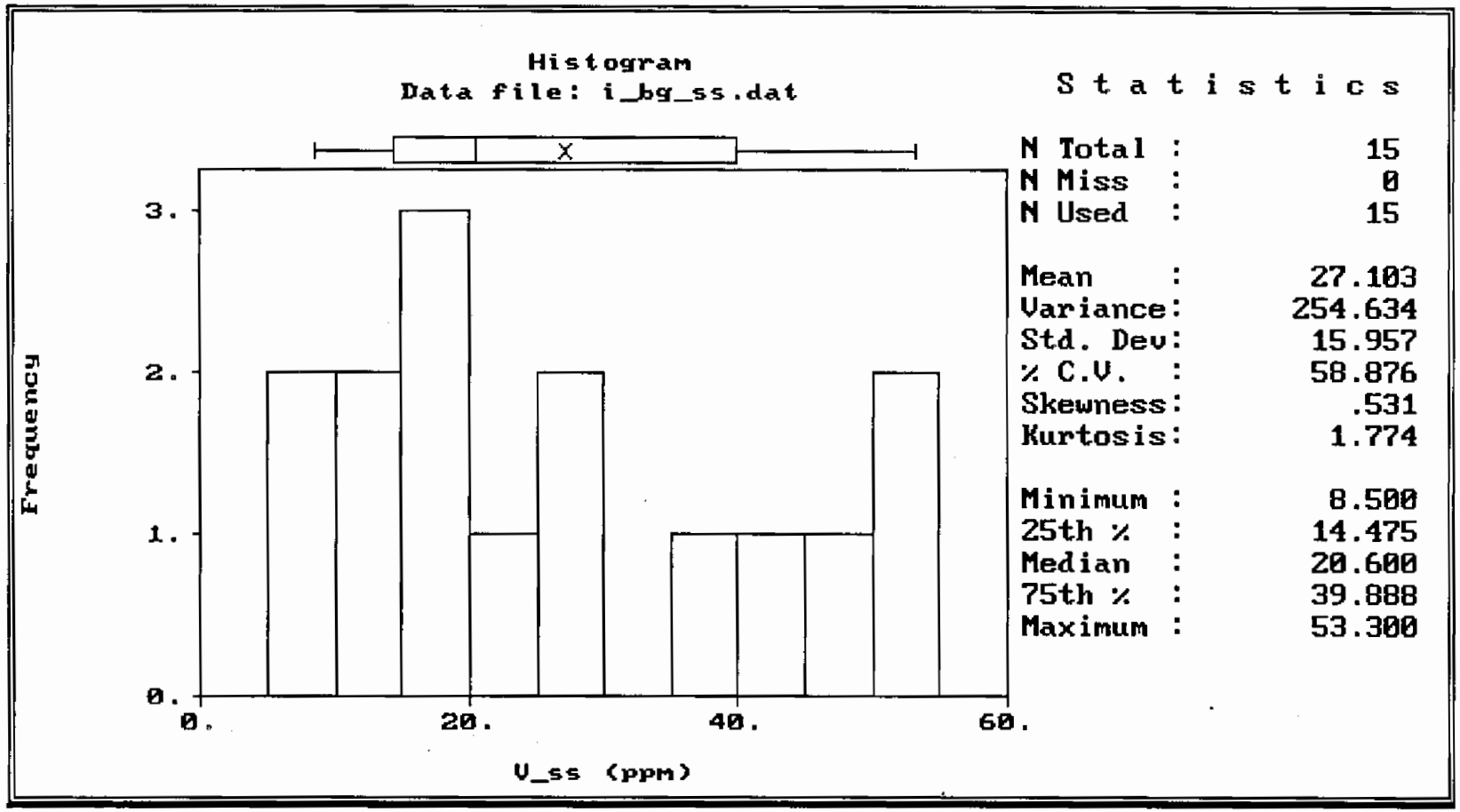


Zone I
Surface soil grid samples
Mn vs. Fe
n = 15

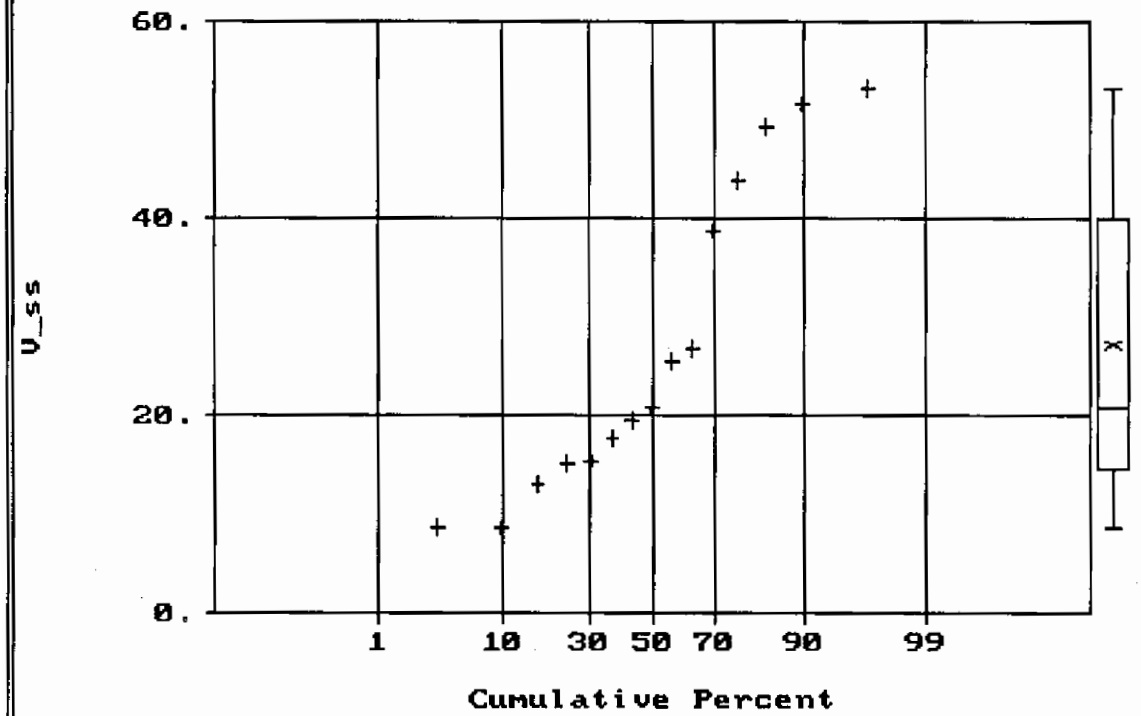


Zone I
Vanadium in surface soil grid samples
Original dataset (N = 15)
Original values

1a



Normal Probability Plot for V_ss
Data file: i_bg_ss.dat

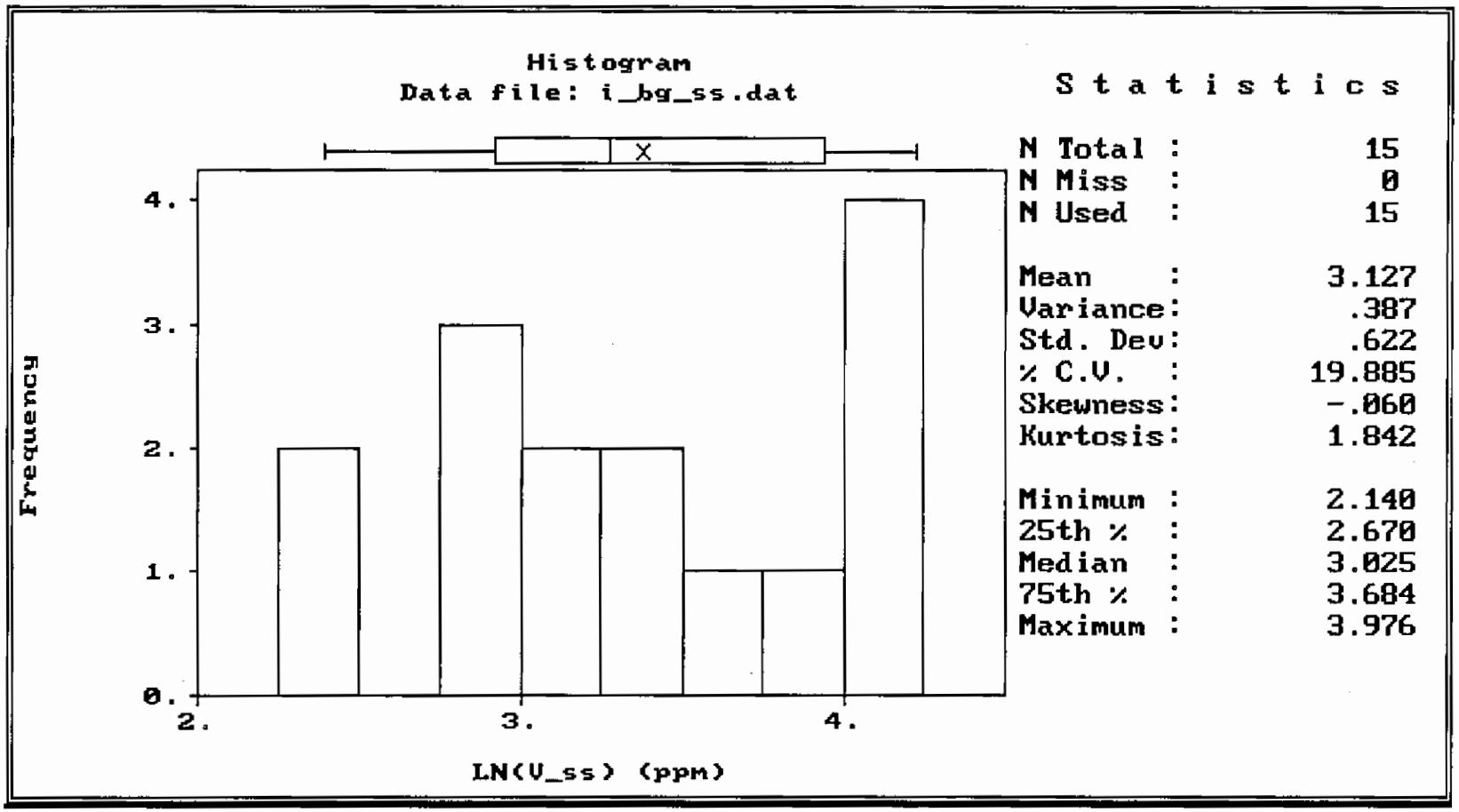


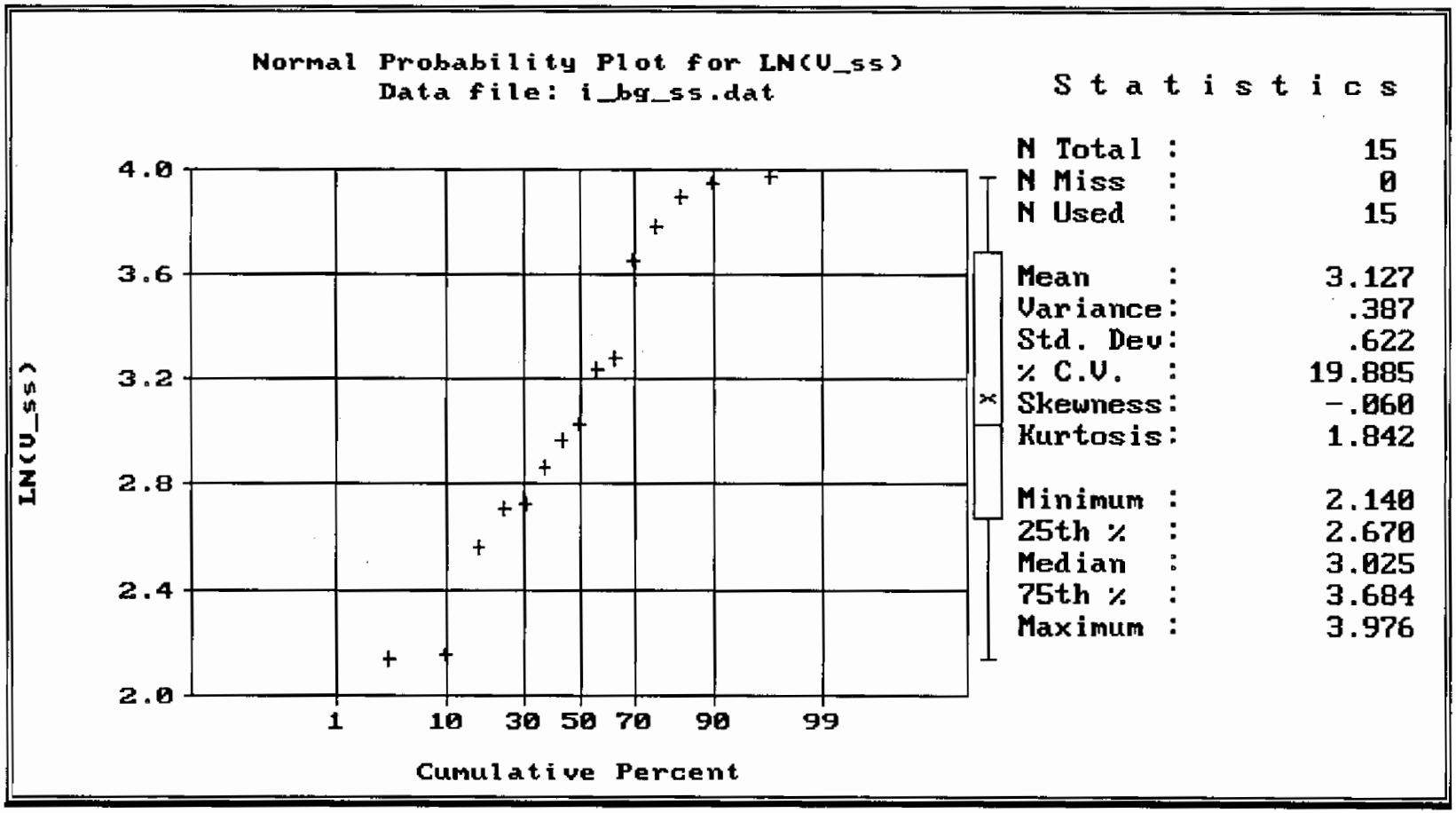
Statistics

N Total :	15
N Miss :	0
N Used :	15
Mean :	27.103
Variance:	254.634
Std. Dev:	15.957
% C.V. :	58.876
Skewness:	.531
Kurtosis:	1.774
Minimum :	8.500
25th % :	14.475
Median :	20.600
75th % :	39.888
Maximum :	53.300

Zone I
Vanadium in surface soil grid samples
Original dataset (N=15)
LN-transformed values

2a




Normal Probability Plot for LN(U_ss)
Data file: i_bg_ss.dat
LN(U_ss)
4.0
3.6
3.2
2.8
2.4
2.0
1
10
30
50
70
90
99
Cumulative Percent
x
Statistics
N Total : 15
N Miss : 0
N Used : 15
Mean : 3.127
Variance: .387
Std. Dev: .622
% C.V. : 19.885
Skewness: -.060
Kurtosis: 1.842
Minimum : 2.140
25th % : 2.670
Median : 3.025
75th % : 3.684
Maximum : 3.976

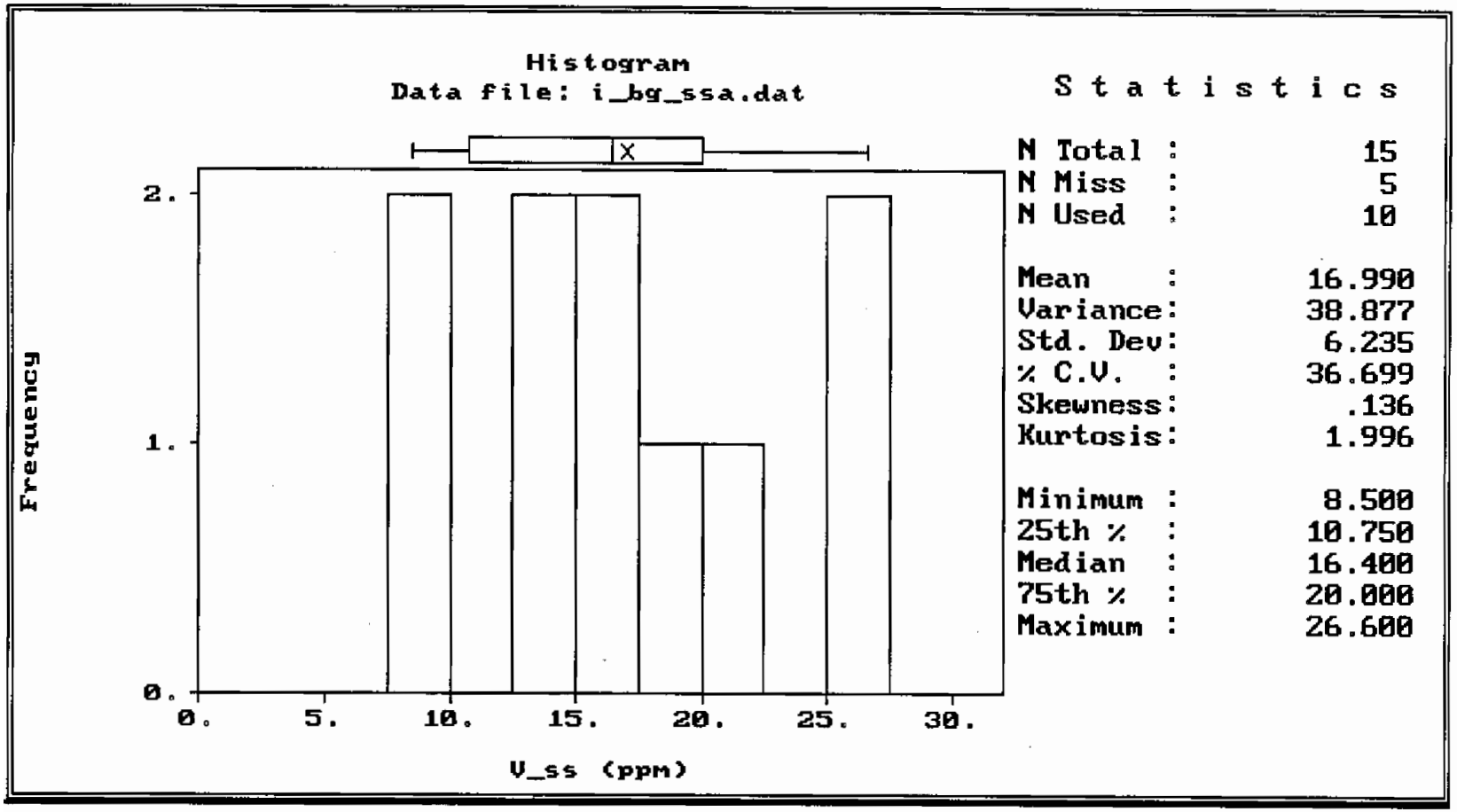
Zone I

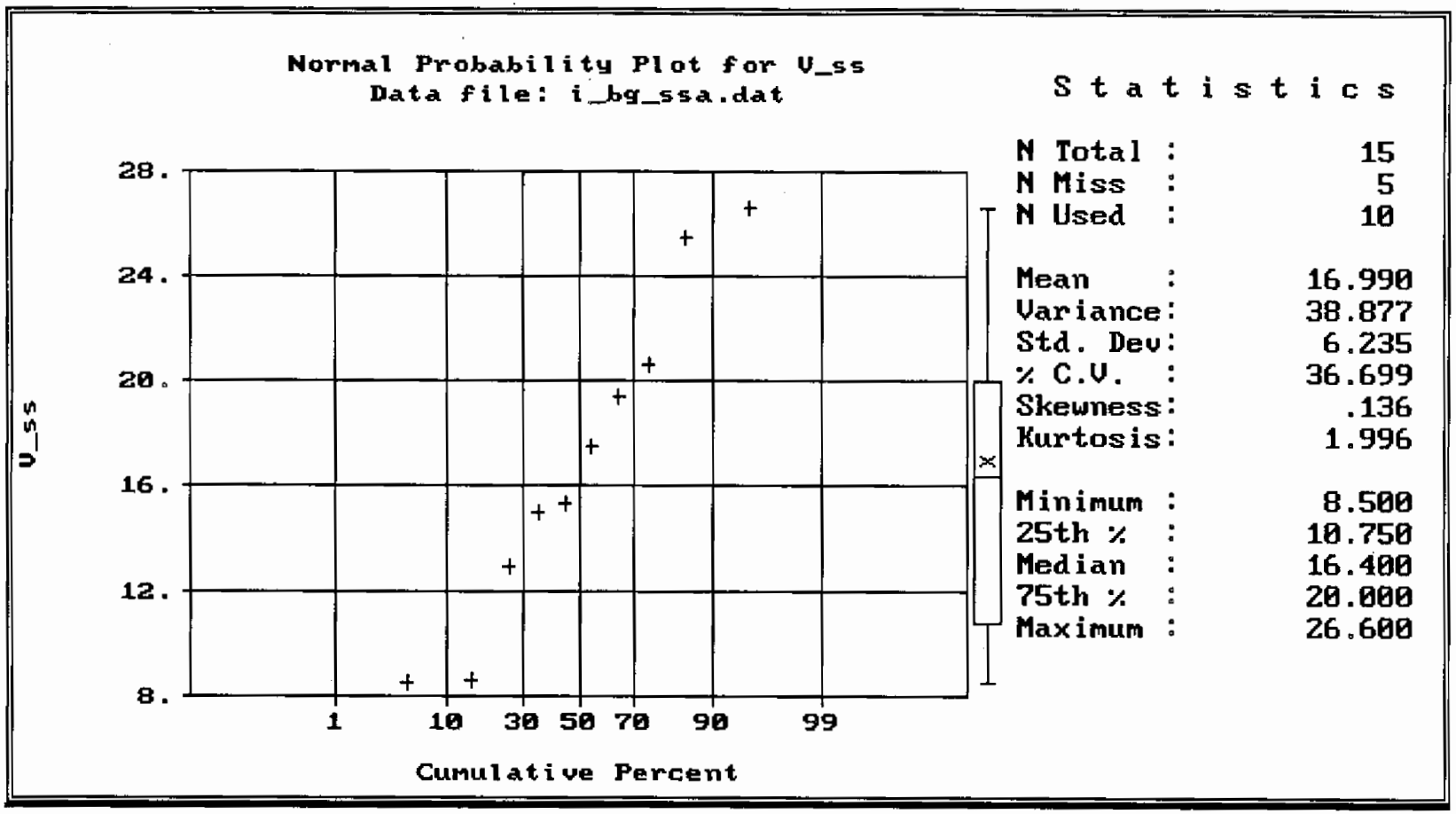
Vanadium in surface soil grid samples

Five clay-rich samples removed (N = 10)

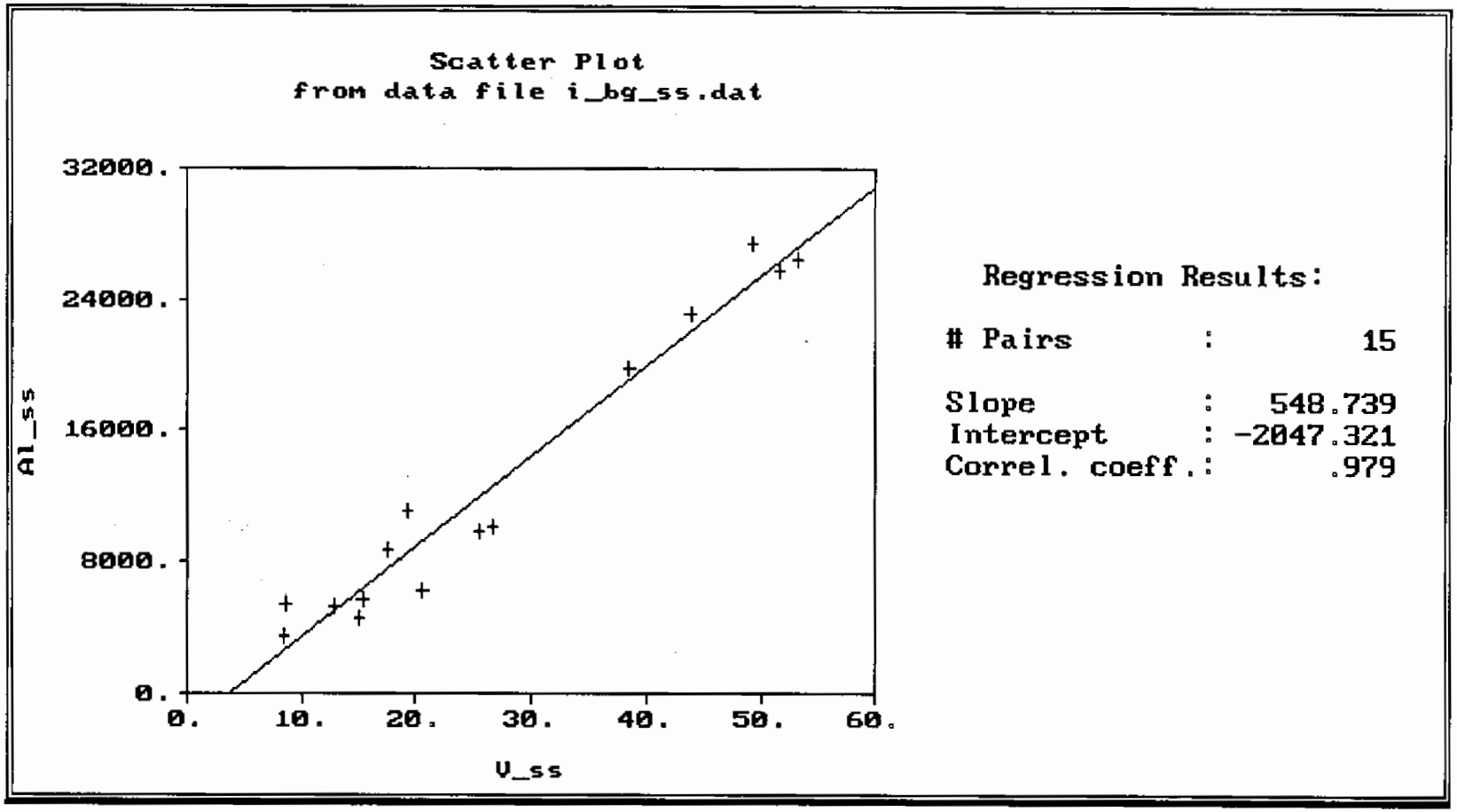
Original values

3a

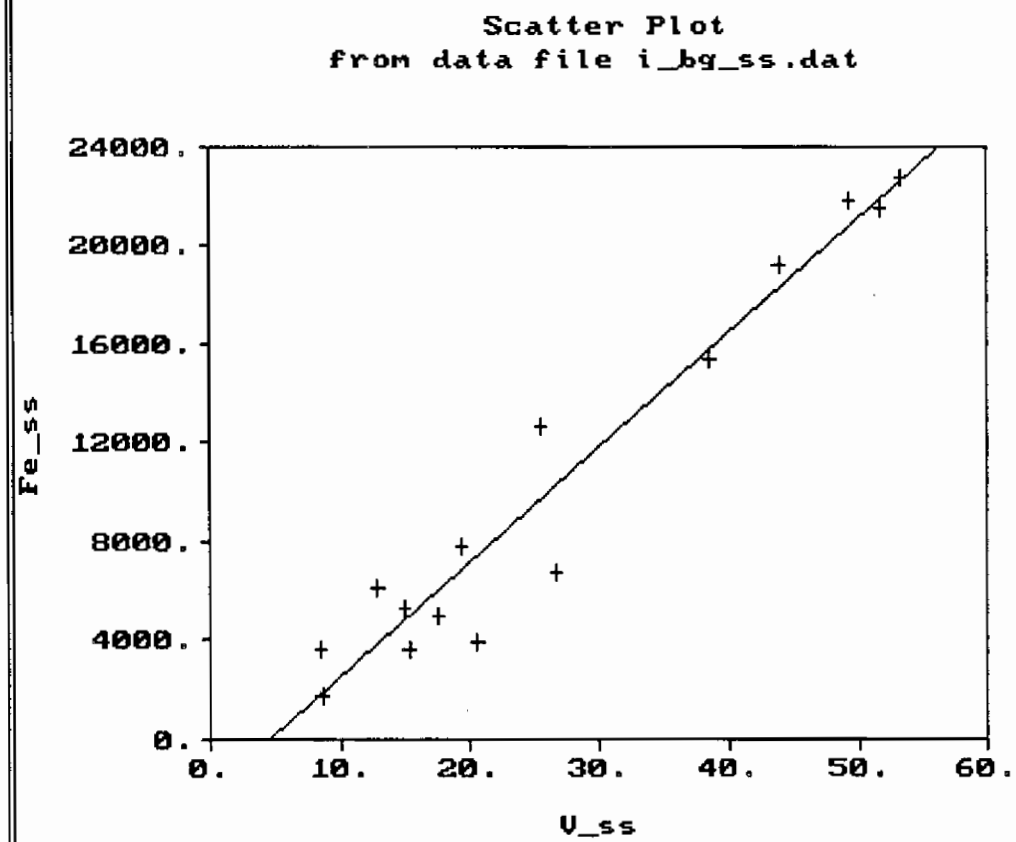



Normal Probability Plot for V_ss
Data file: i_bg_ssa.dat
V_ss
28.
24.
20.
16.
12.
8.
1
10
30
50
70
90
99
Cumulative Percent
Statistics
N Total : 15
N Miss : 5
N Used : 10
Mean : 16.990
Variance: 38.877
Std. Dev: 6.235
% C.V. : 36.699
Skewness: .136
Kurtosis: 1.996
Minimum : 8.500
25th % : 10.750
Median : 16.400
75th % : 20.000
Maximum : 26.600

Zone I
Surface soil grid samples
Vanadium vs. aluminum
N = 15



Zone I
Surface soil grid samples
Vanadium vs. iron
N = 15



Regression Results:

# Pairs	:	15
Slope	:	464.246
Intercept	:	-2113.948
Correl. coeff.	:	.970