N61165.AR.003084
CNC CHARLESTON
5090.3a

FUEL DISTRIBUTION SYSTEM CONTAMINATION ASSESSMENT REPORT ZONE G VOLUME 3 OF 3 APPENDICES C THROUGH G CNC CHARLESTON SC

9/10/1998

ENSAFE INC.

ZONE G
FUEL DISTRIBUTION SYSTEM CONTAMINATION ASSESSMENT REPORT
NAVBASE CHARLESTON
NORTH CHARLESTON, SOUTH CAROLINA

Volume III of III
Appendices C to G

CTO-029
Contract Number: N62467-89-D-0318

Prepared for:

Department of the Navy
Southern Division
Naval Facilities Engineering Command
North Charleston, South Carolina

Prepared by:

EnSafe Inc.
5724 Summer Trees Drive
Memphis, Tennessee 38134
(901) 372-7962

September 10, 1998
Revision: 0

Release of this document requires prior notification of the Commanding Officer of the Southern Division, Naval Facilities Engineering Command, North Charleston, South Carolina.

Appendix C

Fuel Distribution System
Analytical Data Summary

DPT, Soil
and Groundwater

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

APX9 HERB							
	SAMPLE ID ------->	FDS-C-C067-01					
	ORIGINAL ID ----->	FDSCC06701					
	LAB SAMPLE ID --->	27867.01					
	ID FROM REPORT -->	FDSCC06701					
	SAMPLE DATE ----->	12/04/96					
	DATE EXTRACTED -->	12/09/96					
	DATE ANALYZED --->	12/18/96					
	MATRIX ---------->	Soil					
	UNITS ---------->	UG/KG					

CAS #	Parameter	27869	VAL				
94-75-7	2,4-D	81.	U				
93-72-1	2,4,5-TP (Silvex)	18.	U				
93-76-5	2,4,5-T	21.	U				
88-85-7	Dinoseb	48.	U				

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

APX9 PEST

SAMPLE ID ------->	FDS-C-C067-01
ORIGINAL ID ----->	FDSCC06701
LAB SAMPLE ID --->	27867.01
ID FROM REPORT -->	FDSCC06701
SAMPLE DATE ----->	12/04/96
DATE EXTRACTED -->	12/09/96
DATE ANALYZED --->	12/16/96
MATRIX ---------->	Soil
UNITS ----------->	UG/KG

CAS #	Parameter	27869	VAL
319-84-6	alpha-BHC	1.7	UJ
319-85-7	beta-BHC	1.7	UJ
319-86-8	delta-BHC	1.7	UJ
58-89-9	gamma-BHC (Lindane)	2.2	J
76-44-8	Heptachlor	1.7	UJ
309-00-2	Aldrin	1.7	UJ
1024-57-3	Heptachlor epoxide	1.7	UJ
959-98-8	Endosulfan I	1.7	UJ
60-57-1	Dieldrin	3.2	UJ
72-55-9	4,4'-DDE	14.	UJ
72-20-8	Endrin	3.2	UJ
33213-65-9	Endosulfan II	3.2	UJ
72-54-8	4,4'-DDD	8.4	UJ
1031-07-8	Endosulfan sulfate	3.2	UJ
50-29-3	4,4'-DDT	3.2	UJ
72-43-5	Methoxychlor	17.	UJ
53494-70-5	Endrin ketone	3.2	UJ
7421-93-4	Endrin aldehyde	3.2	UJ
5103-71-9	alpha-Chlordane	1.7	UJ
5103-74-2	gamma-Chlordane	1.7	UJ
8001-35-2	Toxaphene	110.	UJ
12674-11-2	Aroclor-1016	43.	UJ
11104-28-2	Aroclor-1221	43.	UJ
11141-16-5	Aroclor-1232	43.	UJ
53469-21-9	Aroclor-1242	43.	UJ
12672-29-6	Aroclor-1248	43.	UJ
11097-69-1	Aroclor-1254	87.	UJ
11096-82-5	Aroclor-1260	87.	UJ

*** Validatio. Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

APX9 SVOA							
	SAMPLE ID ------->	FDS-C-C067-01					
	ORIGINAL ID ----->	FDSCC06701					
	LAB SAMPLE ID --->	27867.01					
	ID FROM REPORT -->	FDSCC06701					
	SAMPLE DATE ----->	12/04/96					
	DATE EXTRACTED -->	12/07/96					
	DATE ANALYZED --->	12/20/96					
	MATRIX ---------->	Soil					
	UNITS ---------->	UG/KG					

CAS #	Parameter	27869	VAL				
108-95-2	Phenol	430.	U				
111-44-4	bis(2-Chloroethyl)ether	430.	U				
95-57-8	2-Chlorophenol	430.	U				
541-73-1	1,3-Dichlorobenzene	430.	U				
106-46-7	1,4-Dichlorobenzene	430.	U				
100-51-6	Benzyl alcohol	430.	U				
95-50-1	1,2-Dichlorobenzene	430.	U				
95-48-7	2-Methylphenol (o-Cresol)	430.	U				
108-60-1	2,2'-oxybis(1-Chloropropane)	430.	U				
106-44-5	4-Methylphenol (p-Cresol)	430.	U				
621-64-7	N-Nitroso-di-n-propylamine	430.	U				
67-72-1	Hexachloroethane	430.	U				
98-95-3	Nitrobenzene	430.	U				
78-59-1	Isophorone	430.	U				
88-75-5	2-Nitrophenol	430.	U				
105-67-9	2,4-Dimethylphenol	430.	U				
111-91-1	bis(2-Chloroethoxy)methane	430.	U				
120-83-2	2,4-Dichlorophenol	430.	U				
120-82-1	1,2,4-Trichlorobenzene	430.	U				
91-20-3	Naphthalene	430.	U				
106-47-8	4-Chloroaniline	430.	U				
87-68-3	Hexachlorobutadiene	430.	U				
59-50-7	4-Chloro-3-methylphenol	430.	U				
91-57-6	2-Methylnaphthalene	4100.					
77-47-4	Hexachlorocyclopentadiene	430.	U				
88-06-2	2,4,6-Trichlorophenol	430.	U				
95-95-4	2,4,5-Trichlorophenol	2100.	U				
91-58-7	2-Chloronaphthalene	430.	U				
88-74-4	2-Nitroaniline	2100.	U				
131-11-3	Dimethyl phthalate	430.	U				
208-96-8	Acenaphthylene	430.	U				
606-20-2	2,6-Dinitrotoluene	430.	U				
99-09-2	3-Nitroaniline	2100.	U				
83-32-9	Acenaphthene	1200.					
51-28-5	2,4-Dinitrophenol	2100.	U				
100-02-7	4-Nitrophenol	2100.	U				

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

APX9 SVOA

SAMPLE ID ------->	FDS-C-C067-01
ORIGINAL ID ----->	FDSCC06701
LAB SAMPLE ID --->	27867.01
ID FROM REPORT -->	FDSCC06701
SAMPLE DATE ----->	12/04/96
DATE EXTRACTED -->	12/07/96
DATE ANALYZED --->	12/20/96
MATRIX ---------->	Soil
UNITS ---------->	UG/KG

CAS #	Parameter	27869	VAL
132-64-9	Dibenzofuran	970.	
121-14-2	2,4-Dinitrotoluene	430.	U
84-66-2	Diethylphthalate	430.	U
7005-72-3	4-Chlorophenylphenylether	430.	U
86-73-7	Fluorene	2000.	
100-01-6	4-Nitroaniline	2100.	U
534-52-1	2-Methyl-4,6-Dinitrophenol	2100.	U
86-30-6	N-Nitrosodiphenylamine	430.	U
101-55-3	4-Bromophenyl-phenylether	430.	U
118-74-1	Hexachlorobenzene	430.	U
87-86-5	Pentachlorophenol	2100.	U
85-01-8	Phenanthrene	4900.	
120-12-7	Anthracene	1200.	
86-74-8	Carbazole	430.	UR
84-74-2	Di-n-butylphthalate	430.	U
206-44-0	Fluoranthene	1200.	J
129-00-0	Pyrene	3500.	
85-68-7	Butylbenzylphthalate	430.	U
91-94-1	3,3'-Dichlorobenzidine	860.	U
56-55-3	Benzo(a)anthracene	610.	J
218-01-9	Chrysene	720.	J
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	430.	U
117-84-0	Di-n-octyl phthalate	45.	J
205-99-2	Benzo(b)fluoranthene	230.	J
207-08-9	Benzo(k)fluoranthene	140.	J
50-32-8	Benzo(a)pyrene	370.	J
193-39-5	Indeno(1,2,3-cd)pyrene	130.	J
53-70-3	Dibenz(a,h)anthracene	110.	J
191-24-2	Benzo(g,h,i)perylene	450.	J
110-86-1	Pyridine	430.	U
62-75-9	N-Nitrosodimethylamine	430.	U
66-27-3	Methyl methanesulfonate	2100.	U
62-53-3	Aniline	430.	U
10595-95-6	N-Nitrosomethylethylamine	430.	U
55-18-5	N-Nitrosodiethylamine	430.	U
62-50-0	Ethyl methanesulfonate	430.	U

*** Validatic. Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

APX9 SVOA

SAMPLE ID ------->	FDS-C-C067-01
ORIGINAL ID ----->	FDSCC06701
LAB SAMPLE ID --->	27867.01
ID FROM REPORT -->	FDSCC06701
SAMPLE DATE ----->	12/04/96
DATE EXTRACTED -->	12/07/96
DATE ANALYZED --->	12/20/96
MATRIX ---------->	Soil
UNITS ----------->	UG/KG

CAS #	Parameter	27869	VAL
109-06-8	2-Picoline	430.	U
98-86-2	Acetophenone	430.	U
930-55-2	N-Nitrosopyrrolidine	430.	U
108-39-4	3-Methylphenol (m-Cresol)	430.	UJ
59-89-2	N-Nitrosomorpholine	430.	U
95-53-4	o-Toluidine	430.	UJ
96-12-8	1,2-Dibromo-3-Chloropropane	430.	UR
100-75-4	N-Nitrosopiperidine	430.	U
126-68-1	O,O,O-Triethylphosphorothioate	430.	U
122-09-8	a,a-Dimethylphenethylamine	430.	UR
87-65-0	2,6-Dichlorophenol	430.	U
1888-71-7	Hexachloropropene	430.	U
106-50-3	p-Phenylenediamine	2100.	UJ
924-16-3	N-Nitroso-di-n-butylamine	430.	U
95-94-3	1,2,4,5-Tetrachlorobenzene	430.	U
94-59-7	Safrole	430.	U
120-58-1	Isosafrole	430.	U
130-15-4	1,4-Naphthoquinone	430.	U
99-65-0	1,3-Dinitrobenzene	430.	U
58-90-2	2,3,4,6-Tetrachlorophenol	430.	U
608-93-5	Pentachlorobenzene	430.	U
134-32-7	1-Naphthylamine	430.	U
56-57-5	4-Nitroquinoline 1-oxide	2100.	U
91-59-8	2-Naphthylamine	430.	U
297-97-2	Thionazin	860.	U
99-55-8	5-Nitro-o-toluidine	430.	U
122-39-4	Diphenylamine	430.	UJ
3689-24-5	Sulfotep	860.	UR
99-35-4	1,3,5-Trinitrobenzene	430.	U
298-02-2	Phorate	430.	U
62-44-2	Phenacetin	430.	U
2303-16-4	Diallate	430.	U
60-51-5	Dimethoate	430.	U
92-67-1	4-Aminobiphenyl	430.	U
23950-58-5	Pronamide	430.	U
82-68-8	Pentachloronitrobenzene	2100.	UJ

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

APX9 SVOA							
	SAMPLE ID ------->	FDS-C-C067-01					
	ORIGINAL ID ----->	FDSCC06701					
	LAB SAMPLE ID --->	27867.01					
	ID FROM REPORT -->	FDSCC06701					
	SAMPLE DATE ----->	12/04/96					
	DATE EXTRACTED -->	12/07/96					
	DATE ANALYZED --->	12/20/96					
	MATRIX ---------->	Soil					
	UNITS ----------->	UG/KG					
CAS #	Parameter	27869	VAL				
298-04-4	Disulfoton	430.	U				
88-85-7	Dinoseb	430.	U				
298-00-0	Methyl parathion	860.	U				
56-38-2	Parathion	860.	U				
91-80-5	Methapyrilene	860.	U				
465-73-6	Isodrin	860.	U				
140-57-8	Aramite	2100.	U				
60-11-7	p-(Dimethylamino)azobenzene	430.	U				
510-15-6	Chlorobenzilate	430.	U				
119-93-7	3,3-Dimethylbenzidine	430.	UJ				
143-50-0	Kepone	2100.	U				
52-85-7	Famphur	430.	UR				
53-96-3	Acetamidofluorene	430.	U				
57-97-6	7,12-Dimethylbenz(a)anthracene	2100.	U				
70-30-4	Hexachlorophene	8600.	UR				
56-49-5	3-Methyl cholanthrene	430.	UR				

*** Validatio.. Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

APX9 VOA

SAMPLE ID ------->	FDS-C-C067-01 RE
ORIGINAL ID ----->	FDSCC06701
LAB SAMPLE ID --->	27867.01
ID FROM REPORT -->	FDSCC06701
SAMPLE DATE ----->	12/04/96
DATE ANALYZED --->	12/11/96
MATRIX ---------->	Soil
UNITS ----------->	UG/KG

CAS #	Parameter	27869	VAL
74-87-3	Chloromethane	13.	U
74-83-9	Bromomethane	13.	U
75-01-4	Vinyl chloride	13.	U
75-00-3	Chloroethane	13.	U
75-09-2	Methylene chloride	4.	U
67-64-1	Acetone	220.	U
75-15-0	Carbon disulfide	1.	J
75-35-4	1,1-Dichloroethene	6.	U
75-34-3	1,1-Dichloroethane	6.	U
540-59-0	1,2-Dichloroethene (total)	6.	U
67-66-3	Chloroform	6.	U
107-06-2	1,2-Dichloroethane	6.	U
78-93-3	2-Butanone (MEK)	10.	U
71-55-6	1,1,1-Trichloroethane	6.	UJ
56-23-5	Carbon tetrachloride	6.	UJ
75-27-4	Bromodichloromethane	6.	UJ
78-87-5	1,2-Dichloropropane	6.	UJ
10061-01-5	cis-1,3-Dichloropropene	6.	UJ
79-01-6	Trichloroethene	6.	UJ
124-48-1	Dibromochloromethane	6.	UJ
79-00-5	1,1,2-Trichloroethane	6.	UJ
71-43-2	Benzene	6.	UJ
10061-02-6	trans-1,3-Dichloropropene	6.	UJ
75-25-2	Bromoform	6.	UJ
108-10-1	4-Methyl-2-Pentanone (MIBK)	13.	UJ
591-78-6	2-Hexanone	13.	UJ
127-18-4	Tetrachloroethene	6.	UJ
79-34-5	1,1,2,2-Tetrachloroethane	6.	UJ
108-88-3	Toluene	12.	J
108-90-7	Chlorobenzene	6.	UJ
100-41-4	Ethylbenzene	6.	UJ
100-42-5	Styrene	6.	UJ
1330-20-7	Xylene (Total)	3.	J
108-05-4	Vinyl acetate	13.	U
110-75-8	2-Chloroethyl vinyl ether	13.	UJ
107-02-8	Acrolein	65.	UR
74-88-4	Methyl iodide	6.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

APX9 VOA

SAMPLE ID ------->	FDS-C-C067-01 RE
ORIGINAL ID ----->	FDSCC06701
LAB SAMPLE ID --->	27867.01
ID FROM REPORT -->	FDSCC06701
SAMPLE DATE ----->	12/04/96
DATE ANALYZED --->	12/11/96
MATRIX ---------->	Soil
UNITS ----------->	UG/KG

CAS #	Parameter	27869	VAL
76-01-7	Pentachloroethane	6.	U
107-05-1	3-Chloropropene	6.	U
126-99-8	Chloroprene	6.	U
110-57-6	trans-1,4-Dichloro-2-butene	6.	U
75-05-8	Acetonitrile	260.	UR
107-13-1	Acrylonitrile	65.	U
107-12-0	Propionitrile	130.	U
126-98-7	Methacrylonitrile	130.	U
78-83-1	Isobutyl alcohol	260.	UR
123-91-1	1,4-Dioxane	650.	UR
80-62-6	Methyl methacrylate	6.	UJ
97-63-2	Ethyl methacrylate	6.	UJ
106-93-4	1, 2-Dibromoethane	6.	UJ
630-20-6	1,1,1,2-Tetrachloroethane	6.	UJ
96-18-4	1,2,3-Trichloropropane	6.	UJ
75-71-8	Dichlorodifluoromethane	6.	U
75-69-4	Trichlorofluoromethane	6.	UJ
74-95-3	Methylene bromide	13.	UJ
96-12-8	1,2-Dibromo-3-Chloropropane	13.	UJ

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

CYANIDE													
	SAMPLE ID ------>	FDS-S-C002-01		FDS-S-C011-01		FDS-S-C012-01		FDS-S-C013-01		FDS-S-C014-01		FDS-S-C016-01	
	ORIGINAL ID ----->	FDSSC00201		FDSSC01101		FDSSC01201		FDSSC01301		FDSSC01401		FDSSC01601	
	LAB SAMPLE ID --->	27869.01		27869.02		27869.05		27869.06		27869.07		27869.08	
	ID FROM REPORT -->	FDSSC00201		FDSSC01101		FDSSC01201		FDSSC01301		FDSSC01401		FDSSC01601	
	SAMPLE DATE ----->	12/04/96		12/04/96		12/04/96		12/04/96		12/05/96		12/04/96	
	DATE EXTRACTED -->	12/12/96		12/12/96		12/12/96		12/12/96		12/12/96		12/12/96	
	DATE ANALYZED --->	12/17/96		12/17/96		12/17/96		12/17/96		12/17/96		12/17/96	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	MG/KG		MG/KG		MG/KG		MG/KG		MG/KG		MG/KG	
CAS #	Parameter	27869	VAL	27869	VAL	27869	VAL	27869	VAL	27869	VAL	27869	VAL
57-12-5	Cyanide (CN)	0.21	U	0.16	U	0.75	U	0.26	U	0.19	U	0.32	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

CYANIDE													
	SAMPLE ID ------>	FDS-S-C030-01		FDS-S-C051-01		FDS-S-C055-01		FDS-S-C062-01		FDS-S-C066-01		FDS-S-C067-01	
	ORIGINAL ID ----->	FDSSC03001		FDSSC05101		FDSSC05501		FDSSC06201		FDSSC06601		FDSSC06701	
	LAB SAMPLE ID --->	27869.09		28157.01		27869.10		27934.01		27869.11		27869.12	
	ID FROM REPORT -->	FDSSC03001		FDSSC05101		FDSSC05501		FDSSC06201		FDSSC06601		FDSSC06701	
	SAMPLE DATE ----->	12/04/96		01/13/97		12/05/96		12/10/96		12/04/96		12/04/96	
	DATE EXTRACTED -->	12/12/96		01/20/97		12/12/96		12/12/96		12/12/96		12/12/96	
	DATE ANALYZED --->	12/17/96		01/20/97		12/17/96		12/17/96		12/17/96		12/17/96	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	MG/KG		MG/KG		MG/KG		MG/KG		MG/KG		MG/KG	
CAS #	Parameter	27869	VAL	28134	VAL	27869	VAL	27934	VAL	27869	VAL	27869	VAL
57-12-5	Cyanide (CN)	0.35	U	0.12	U	0.15	U	0.34	U	0.21	U	0.2	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

CYANIDE	SAMPLE ID ------->	FDS-C-C067-01	FDS-S-C084-01	FDS-S-C094-01	FDS-S-C114-01	FDS-S-H023-01	FDS-S-H024-01
	ORIGINAL ID ----->	FDSCC06701	FDSSC08401	FDSSC09401	FDSSC11401	FDSSH02301	FDSSH02401
	LAB SAMPLE ID --->	27867.01	27178.21	27212.07	27869.14	27355.10	27377.09
	ID FROM REPORT -->	FDSCC06701	FDSSC08401	FDSSC09401	FDSSC11401	FDSSH02301	FDSSH02401
	SAMPLE DATE ----->	12/04/96	10/02/96	10/04/96	12/05/96	10/17/96	10/21/96
	DATE EXTRACTED -->	12/12/96	10/07/96		12/12/96	10/21/96	10/23/96
	DATE ANALYZED --->	12/17/96	10/09/96		12/17/96	10/24/96	10/24/96
	MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
	UNITS ---------->	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG

CAS #	Parameter	27869	VAL	27178	VAL	27212	VAL	27869	VAL	27339	VAL	27377	VAL
57-12-5	Cyanide (CN)	0.21	U	0.12	U	0.15	J	0.95		0.53	U	0.24	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

CYANIDE							
	SAMPLE ID ------->	FDS-S-H026-01					
	ORIGINAL ID ----->	FDSSH02601					
	LAB SAMPLE ID --->	27377.06					
	ID FROM REPORT -->	FDSSH02601					
	SAMPLE DATE ----->	10/21/96					
	MATRIX ---------->	Soil					
	UNITS ---------->	MG/KG					
CAS #	Parameter	27377 VAL					
57-12-5	Cyanide (CN)	0.21 U					

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

HEXACHROME							
	SAMPLE ID ------->	FDS-C-C067-01					
	ORIGINAL ID ----->	FDSCC06701					
	LAB SAMPLE ID --->	27867.01					
	ID FROM REPORT -->	FDSCC06701					
	SAMPLE DATE ----->	12/04/96					
	DATE EXTRACTED -->	12/18/96					
	DATE ANALYZED --->	12/18/96					
	MATRIX ---------->	Soil					
	UNITS ----------->	MG/KG					
CAS #	Parameter	27869 VAL					
18540-29-9	Chromium (Hexavalent)	0.325 U					

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

SW846-DIOX

SAMPLE ID ------->	FDS-C-C067-01
ORIGINAL ID ----->	FDSCC06701
LAB SAMPLE ID --->	27867.01
ID FROM REPORT -->	FDSCC06701
SAMPLE DATE ----->	12/04/96
DATE EXTRACTED -->	12/09/96
DATE ANALYZED --->	12/15/96
MATRIX ---------->	Soil
UNITS ----------->	NG/KG

CAS #	Parameter	27869	VAL
1746-01-6	2378-TCDD	0.254	U
40321-76-4	12378-PeCDD	0.245	U
39227-28-6	123478-HxCDD	0.672	U
57653-85-7	123678-HxCDD	0.559	U
19408-74-3	123789-HxCDD	0.564	U
35822-46-9	1234678-HpCDD	2.55	
3268-87-9	OCDD	57.8	
51207-31-9	2378-TCDF	0.313	U
57117-41-6	12378-PeCDF	0.246	U
57117-31-4	23478-PeCDF	0.262	U
70648-26-9	123478-HxCDF	0.382	U
57117-44-9	123678-HxCDF	0.311	U
72918-21-9	123789-HxCDF	0.415	U
60851-34-5	234678-HxCDF	0.381	U
67562-39-4	1234678-HpCDF	0.427	U
55673-89-7	1234789-HpCDF	0.509	U
39001-02-0	OCDF	1.36	J
41903-57-5	Total Tetra-Dioxins	0.254	U
36088-22-9	Total Penta-Dioxins	0.245	U
34465-46-8	Total Hexa-Dioxins	4.17	
37871-00-4	Total Hepta-Dioxins	10.5	
55722-27-5	Total Tetra-Furans	0.313	U
30602-15-4	Total Penta-Furans	0.262	U
55684-94-1	Total Hexa-Furans	0.311	U
38998-75-3	Total Hepta-Furans	0.427	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

SUB46-META													
	SAMPLE ID ------>	FDS-S-C002-01		FDS-S-C011-01		FDS-S-C012-01		FDS-S-C013-01		FDS-S-C014-01		FDS-S-C016-01	
	ORIGINAL ID ----->	FDSSC00201		FDSSC01101		FDSSC01201		FDSSC01301		FDSSC01401		FDSSC01601	
	LAB SAMPLE ID --->	27869.01		27869.02		27869.05		27869.06		27869.07		27869.08	
	ID FROM REPORT -->	FDSSC00201		FDSSC01101		FDSSC01201		FDSSC01301		FDSSC01401		FDSSC01601	
	SAMPLE DATE ----->	12/04/96		12/04/96		12/04/96		12/04/96		12/05/96		12/04/96	
	DATE EXTRACTED -->	12/16/96		12/16/96		12/16/96		12/16/96		12/16/96		12/16/96	
	DATE ANALYZED --->	12/17/96		12/17/96		12/17/96		12/17/96		12/17/96		12/17/96	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	MG/KG		MG/KG		MG/KG		MG/KG		MG/KG		MG/KG	
CAS #	Parameter	27869	VAL	27869	VAL	27869	VAL	27869	VAL	27869	VAL	27869	VAL
7439-97-6	Mercury (Hg)	0.04	U	0.19	J	0.21	J	0.17	J	0.45	J	0.67	J
7429-90-5	Aluminum (Al)	9080.		12700.		9000.		18800.		16300.		21700.	
7439-92-1	Lead (Pb)	6.8	J	17.3	J	44.5	J	38.7	J	46.5	J	58.	J
7440-36-0	Antimony (Sb)	0.39	UJ	0.47	UJ	0.62	UJ	0.5	UJ	0.49	UJ	0.71	UJ
7439-95-4	Magnesium (Mg)	1880.	J	3440.	J	4850.	J	4570.	J	4620.	J	6860.	J
7440-38-2	Arsenic (As)	10.8		13.4		4.1		27.5		15.3		28.8	
7782-49-2	Selenium (Se)	0.39	U	1.4		0.62	U	0.5	U	0.65	J	0.71	U
7440-39-3	Barium (Ba)	17.2		37.2		77.1		31.5		29.4		34.5	
7440-41-7	Beryllium (Be)	0.78		0.91		0.5		1.2		0.97		1.4	
7440-43-9	Cadmium (Cd)	0.05	U	0.32	J	0.56	J	0.07	U	0.07	U	0.1	U
7440-70-2	Calcium (Ca)	10300.	J	31500.	J	122000.	J	9130.	J	14100.	J	10200.	J
7440-47-3	Chromium (Cr)	17.7	J	38.3	J	25.5	J	34.8	J	30.8	J	40.8	J
7440-48-4	Cobalt (Co)	2.8		4.1		2.4	J	6.		5.3		7.6	
7440-50-8	Copper (Cu)	3.7		12.6		35.2		32.1		23.4		37.2	
7439-89-6	Iron (Fe)	13100.		15100.		11700.		29400.		25400.		34200.	
7439-96-5	Manganese (Mn)	124.	J	152.	J	263.	J	506.	J	385.	J	526.	J
7440-02-0	Nickel (Ni)	5.5	J	15.2	J	10.	J	11.3	J	9.4	J	12.2	J
7440-09-7	Potassium (K)	952.		1680.		417.	U	2450.		2140.		3370.	
7440-22-4	Silver (Ag)	0.25	U	0.3	U	0.4	U	0.32	U	0.31	U	0.45	U
7440-23-5	Sodium (Na)	391.		1380.		1450.		3090.		2380.		10600.	
7440-28-0	Thallium (Tl)	0.45	U	0.53	U	0.71	U	0.57	U	0.56	U	0.81	U
7440-31-5	Tin (Sn)	1.6	U	2.2	U	4.2	U	3.4	U	3.2	U	4.4	U
7440-62-2	Vanadium (V)	32.2		36.7		16.8		60.1		52.2		74.3	
7440-66-6	Zinc (Zn)	19.	J	69.4	J	264.	J	92.5	J	91.5	J	150.	J

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

SW846-META													
	SAMPLE ID ------->	FDS-S-C030-01		FDS-S-C051-01		FDS-S-C055-01		FDS-S-C058-01		FDS-S-C062-01		FDS-S-C065-01	
	ORIGINAL ID ----->	FDSSC03001		FDSSC05101		FDSSC05501		FDSSC05801		FDSSC06201		FDSSC06501	
	LAB SAMPLE ID --->	27869.09		28157.01		27869.10		27065.10		27934.01		27090.19	
	ID FROM REPORT -->	FDSSC03001		FDSSC05101		FDSSC05501		FDSSC05801		FDSSC06201		FDSSC06501	
	SAMPLE DATE ----->	12/04/96		01/13/97		12/05/96		09/24/96		12/10/96		09/25/96	
	DATE EXTRACTED -->	12/16/96		01/16/97		12/16/96				12/16/96			
	DATE ANALYZED --->	12/17/96		01/20/97		12/17/96				12/17/96			
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ----------->	MG/KG		MG/KG		MG/KG		MG/KG		MG/KG		MG/KG	
CAS #	Parameter	27869	VAL	28134	VAL	27869	VAL	27065	VAL	27934	VAL	27090	VAL
7439-97-6	Mercury (Hg)	0.31	J	0.25		0.04	U	0.05	U	0.06		0.22	
7429-90-5	Aluminum (Al)	26300.		5690.		3830.		6110.		5000.		28400.	
7439-92-1	Lead (Pb)	55.1	J	8.8		3.2	J	11.2		29.4		42.9	
7440-36-0	Antimony (Sb)	0.64	UJ	0.35	U	0.37	UJ	0.43	U	0.36	U	0.51	J
7439-95-4	Magnesium (Mg)	7060.	J	269.		534.	J	1670.		1100.		4840.	
7440-38-2	Arsenic (As)	33.5		2.5	U	1.3		5.4		4.9		17.	
7782-49-2	Selenium (Se)	1.5		0.35	U	0.37	U	0.43	U	0.36	U	1.1	J
7440-39-3	Barium (Ba)	38.5		23.3		5.9		10.1		10.4		40.6	
7440-41-7	Beryllium (Be)	1.4		0.24		0.09	J	0.45		0.25		1.3	
7440-43-9	Cadmium (Cd)	0.09	U	0.05	J	0.09	J	0.06	U	0.16	J	0.07	U
7440-70-2	Calcium (Ca)	13100.	J	1770.		22100.	J	15500.		55900.		14500.	
7440-47-3	Chromium (Cr)	47.3	J	6.1		7.3	J	12.8	J	8.3		42.9	J
7440-48-4	Cobalt (Co)	9.1		0.67	J	0.71	J	1.8	J	1.6	J	6.3	
7440-50-8	Copper (Cu)	34.6		2.6		1.8	J	5.9	U	6.7		24.8	
7439-89-6	Iron (Fe)	36800.		4300.		2560.		6960.		4750.		30700.	
7439-96-5	Manganese (Mn)	602.	J	27.1		18.2	J	87.8		95.3		582.	
7440-02-0	Nickel (Ni)	15.1	J	2.8	J	2.4	J	4.2	U	4.5	J	13.9	
7440-09-7	Potassium (K)	3380.		233.	U	247.	U	767.		326.	J	2580.	
7440-22-4	Silver (Ag)	0.41	U	0.22	U	0.23	U	0.27	U	0.23	U	0.32	U
7440-23-5	Sodium (Na)	11000.		175.	J	478.		2370.		466.		2380.	U
7440-28-0	Thallium (Tl)	0.73	U	0.41	J	0.42	U	0.49	UJ	0.41	U	0.57	J
7440-31-5	Tin (Sn)	4.7	U	0.58	U	1.5	U	1.5	U	1.8	U	3.4	U
7440-62-2	Vanadium (V)	92.4		15.5		5.2		15.2		9.4		69.1	
7440-66-6	Zinc (Zn)	126.	J	9.9		5.5	J	26.3	U	40.6		97.	

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

SW846-META													
	SAMPLE ID ------->	FDS-S-C066-01		FDS-S-C067-01		FDS-C-C067-01		FDS-S-C084-01		FDS-S-C094-01		FDS-S-C114-01	
	ORIGINAL ID ----->	FDSSC06601		FDSSC06701		FDSCC06701		FDSSC08401		FDSSC09401		FDSSC11401	
	LAB SAMPLE ID --->	27869.11		27869.12		27867.01		27178.21		27212.07		27869.14	
	ID FROM REPORT -->	FDSSC06601		FDSSC06701		FDSCC06701		FDSSC08401		FDSSC09401		FDSSC11401	
	SAMPLE DATE ----->	12/04/96		12/04/96		12/04/96		10/02/96		10/04/96		12/05/96	
	DATE EXTRACTED -->	12/16/96		12/16/96		12/16/96		10/09/96				12/16/96	
	DATE ANALYZED --->	12/17/96		12/17/96		12/17/96		10/17/96				12/17/96	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	MG/KG		MG/KG		MG/KG		MG/KG		MG/KG		MG/KG	
CAS #	Parameter	27869	VAL	27869	VAL	27869	VAL	27178	VAL	27212	VAL	27869	VAL
7439-97-6	Mercury (Hg)	0.2	J	0.11	J	0.24		0.04	U	0.04	U	0.04	U
7429-90-5	Aluminum (Al)	15400.		12600.		11500.		5060.		10200.		9220.	
7439-92-1	Lead (Pb)	28.2	J	37.9	J	17.3	J	5.6		4.2		9.9	J
7440-36-0	Antimony (Sb)	0.41	UJ	0.41	UJ	0.39	U	0.36	U	0.36	U	0.4	UJ
7439-95-4	Magnesium (Mg)	6460.	J	2920.	J	2250.		1150.		452.		680.	J
7440-38-2	Arsenic (As)	10.2		11.		9.7		2.2		2.8		1.7	
7782-49-2	Selenium (Se)	0.41	U	0.41	U	0.87		0.36	U	0.36	U	0.4	U
7440-39-3	Barium (Ba)	33.9		29.9		21.4		19.4		21.8		23.2	
7440-41-7	Beryllium (Be)	0.76		0.76		0.48		0.31		0.39	U	0.39	
7440-43-9	Cadmium (Cd)	0.05	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U
7440-70-2	Calcium (Ca)	40000.	J	32200.	J	16000.	J	1560.		689.		29100.	J
7440-47-3	Chromium (Cr)	28.7	J	25.6	J	23.5		8.1		8.5		12.5	J
7440-48-4	Cobalt (Co)	3.4		3.7		2.5	J	0.71	J	4.7		1.4	J
7440-50-8	Copper (Cu)	18.5		18.7	J	9.8	J	0.56	U	0.6	U	7.3	
7439-89-6	Iron (Fe)	17800.		34100.	J	13700.	J	6050.		5470.		4850.	
7439-96-5	Manganese (Mn)	163.	J	302.	J	175.	J	8.3		19.3		51.	J
7440-02-0	Nickel (Ni)	10.1	J	9.2	J	7.1		4.7		7.8		4.8	J
7440-09-7	Potassium (K)	2260.		1460.		1450.		440.	J	260.	U	443.	J
7440-22-4	Silver (Ag)	0.26	U	0.26	U	0.25	U	0.23	U	0.23	U	0.26	U
7440-23-5	Sodium (Na)	5770.		2370.		2310.		1830.	U	350.	U	450.	
7440-28-0	Thallium (Tl)	0.47	U	0.47	U	0.44	U	0.41	UJ	0.43	U	0.46	U
7440-31-5	Tin (Sn)	2.8	U	2.1	U	2.4	U	0.61	U	0.71	U	2.	U
7440-62-2	Vanadium (V)	30.2		35.6		34.		10.5		13.		13.2	
7440-66-6	Zinc (Zn)	69.	J	77.8	J	39.3	J	9.		2304.		16.5	J

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

SW846-META	SAMPLE ID ------->	FDS-S-C47A-01	FDS-S-H023-01	FDS-S-H024-01	FDS-S-H026-01
	ORIGINAL ID ----->	FDSSC47A01	FDSSH02301	FDSSH02401	FDSSH02601
	LAB SAMPLE ID --->	27065.12	27355.10	27377.09	27377.06
	ID FROM REPORT -->	FDSSC47A01	FDSSH02301	FDSSH02401	FDSSH02601
	SAMPLE DATE ----->	09/24/96	10/17/96	10/21/96	10/21/96
	DATE EXTRACTED -->		10/22/96	10/24/96	
	DATE ANALYZED --->		10/24/96	10/30/96	
	MATRIX ---------->	Soil	Soil	Soil	Soil
	UNITS ----------->	MG/KG	MG/KG	MG/KG	MG/KG

CAS #	Parameter	27065	VAL	27339	VAL	27377	VAL	27377	VAL
7439-97-6	Mercury (Hg)	0.09		0.07		0.06		0.04	U
7429-90-5	Aluminum (Al)	15000.		2820.		7850.		4500.	
7439-92-1	Lead (Pb)	30.3		29.5		350.		381.	
7440-36-0	Antimony (Sb)	0.4	U	0.33	U	0.33	U	0.33	U
7439-95-4	Magnesium (Mg)	4270.		499.		631.		432.	
7440-38-2	Arsenic (As)	16.		1.8		3.9		2.4	U
7782-49-2	Selenium (Se)	1.		0.33	U	0.33	U	0.47	J
7440-39-3	Barium (Ba)	27.3		13.1		41.5		28.3	
7440-41-7	Beryllium (Be)	1.		0.23	U	0.52		0.36	
7440-43-9	Cadmium (Cd)	0.08	J	0.19	J	0.04	U	0.04	J
7440-70-2	Calcium (Ca)	30800.		13100.		10300.		11200.	
7440-47-3	Chromium (Cr)	29.6	J	9.3		12.5		6.7	
7440-48-4	Cobalt (Co)	5.6		1.3	J	2.1	J	1.4	J
7440-50-8	Copper (Cu)	18.9		10.6	U	6.5	U	3.9	U
7439-89-6	Iron (Fe)	19600.		4860.		8180.		4180.	
7439-96-5	Manganese (Mn)	186.		29.6		109.		38.9	
7440-02-0	Nickel (Ni)	11.1	U	4.2	J	4.2	U	3.5	U
7440-09-7	Potassium (K)	1870.		240.	J	267.	J	218.	U
7440-22-4	Silver (Ag)	0.25	U	0.21	U	0.21	U	0.21	U
7440-23-5	Sodium (Na)	2300.		164.	U	90.9	U	107.	U
7440-28-0	Thallium (Tl)	0.46	UJ	0.47	J	0.38	U	0.37	U
7440-31-5	Tin (Sn)	2.3	U	2.	U	1.3	U	1.4	U
7440-62-2	Vanadium (V)	42.7		10.6		15.5		8.	
7440-66-6	Zinc (Zn)	77.9		66.8		30.7		30.5	

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

SW846-OP P

SAMPLE ID ------->	FDS-C-C067-01
ORIGINAL ID ----->	FDSCC06701
LAB SAMPLE ID --->	27867.01
ID FROM REPORT -->	FDSCC06701
SAMPLE DATE ----->	12/04/96
DATE EXTRACTED -->	12/07/96
DATE ANALYZED --->	12/13/96
MATRIX ---------->	Soil
UNITS ----------->	UG/KG

CAS #	Parameter	27869	VAL
298-02-2	Phorate	87.	UJ
298-04-4	Disulfoton	156.	UJ
298-00-0	Methyl parathion	22.	UJ

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

SW846-PEST													
	SAMPLE ID ------->	FDS-S-C002-01		FDS-S-C011-01		FDS-S-C012-01		FDS-S-C013-01		FDS-S-C014-01		FDS-S-C016-01	
	ORIGINAL ID ----->	FDSSC00201		FDSSC01101		FDSSC01201		FDSSC01301		FDSSC01401		FDSSC01601	
	LAB SAMPLE ID --->	27869.01		27869.02		27869.05		27869.06		27869.07		27869.08	
	ID FROM REPORT -->	FDSSC00201		FDSSC01101		FDSSC01201		FDSSC01301		FDSSC01401		FDSSC01601	
	SAMPLE DATE ----->	12/04/96		12/04/96		12/04/96		12/04/96		12/05/96		12/04/96	
	DATE EXTRACTED -->	12/08/96		12/08/96		12/08/96		12/08/96		12/08/96		12/08/96	
	DATE ANALYZED --->	12/18/96		12/18/96		12/18/96		12/19/96		12/19/96		12/19/96	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ----------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	27869	VAL	27869	VAL	27869	VAL	27869	VAL	27869	VAL	27869	VAL
319-84-6	alpha-BHC	1.7	U	2.	U	2.7	UJ	2.2	U	2.5	U	3.1	U
319-85-7	beta-BHC	1.7	U	2.	U	2.7	UJ	2.2	U	2.5	U	3.1	U
319-86-8	delta-BHC	1.7	U	2.	U	2.7	UJ	2.2	U	2.5	U	3.1	U
58-89-9	gamma-BHC (Lindane)	1.7	U	2.	U	2.7	UJ	2.2	U	2.5	U	3.1	U
76-44-8	Heptachlor	1.7	U	2.	U	2.7	UJ	2.2	U	2.5	U	3.1	U
309-00-2	Aldrin	1.7	U	2.	U	2.7	UJ	2.2	U	2.5	U	3.1	U
1024-57-3	Heptachlor epoxide	1.7	U	2.	U	2.7	UJ	2.2	U	2.5	U	3.1	U
959-98-8	Endosulfan I	1.7	U	2.	U	2.7	UJ	2.2	U	2.5	U	3.1	U
60-57-1	Dieldrin	3.3	U	3.9	U	5.2	UJ	4.2	U	4.9	U	6.	U
72-55-9	4,4'-DDE	3.3	U	3.9	U	8.2	UJ	4.2	U	4.9	U	6.	U
72-20-8	Endrin	3.3	U	3.9	U	5.2	UJ	4.2	U	4.9	U	6.	U
33213-65-9	Endosulfan II	3.3	U	3.9	U	14.	UJ	4.2	U	4.9	U	6.	U
72-54-8	4,4'-DDD	3.3	U	3.9	U	5.2	UJ	4.2	U	4.9	U	6.	U
1031-07-8	Endosulfan sulfate	3.3	U	3.9	U	7.2	UJ	4.2	U	4.9	U	6.	U
50-29-3	4,4'-DDT	3.3	U	3.9	U	5.2	UJ	4.2	U	4.9	U	6.	U
72-43-5	Methoxychlor	17.	U	20.	U	27.	UJ	22.	U	25.	U	31.	U
53494-70-5	Endrin ketone	3.3	U	3.9	U	5.2	UJ	4.2	U	4.9	U	6.	U
7421-93-4	Endrin aldehyde	3.3	U	3.9	U	5.2	UJ	4.2	U	4.9	U	6.	U
5103-71-9	alpha-Chlordane	1.7	U	2.	U	2.7	UJ	2.2	U	2.5	U	3.1	U
5103-74-2	gamma-Chlordane	1.7	U	2.	U	2.7	UJ	2.2	U	2.5	U	3.1	U
8001-35-2	Toxaphene	110.	U	130.	U	170.	UJ	140.	U	160.	U	200.	U
12674-11-2	Aroclor-1016	43.	U	52.	U	69.	UJ	55.	U	65.	U	78.	U
11104-28-2	Aroclor-1221	43.	U	52.	U	69.	UJ	55.	U	65.	U	78.	U
11141-16-5	Aroclor-1232	43.	U	52.	U	69.	UJ	55.	U	65.	U	78.	U
53469-21-9	Aroclor-1242	43.	U	52.	U	69.	UJ	55.	U	65.	U	78.	U
12672-29-6	Aroclor-1248	43.	U	52.	U	69.	UJ	55.	U	65.	U	78.	U
11097-69-1	Aroclor-1254	88.	U	100.	U	140.	UJ	110.	U	130.	U	160.	U
11096-82-5	Aroclor-1260	88.	U	100.	U	840.	J	110.	U	130.	U	160.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

SW846-PEST													
	SAMPLE ID ------->	FDS-S-C030-01		FDS-S-C051-01		FDS-S-C055-01		FDS-S-C058-01		FDS-S-C062-01		FDS-S-C065-01	
	ORIGINAL ID ----->	FDSSC03001		FDSSC05101		FDSSC05501		FDSSC05801		FDSSC06201		FDSSC06501	
	LAB SAMPLE ID --->	27869.09		28157.01		27869.10		27065.1		27934.01		27090.19	
	ID FROM REPORT -->	FDSSC03001		FDSSC05101		FDSSC05501		FDSSC05801		FDSSC06201		FDSSC06501	
	SAMPLE DATE ----->	12/04/96		01/13/97		12/05/96		09/24/96		12/10/96		09/25/96	
	DATE EXTRACTED -->	12/08/96		01/16/97		12/08/96		10/02/96		12/12/96		09/22/96	
	DATE ANALYZED --->	12/19/96		01/18/97		12/18/96		10/22/96		12/27/96		10/17/96	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	27869	VAL	28134	VAL	27869	VAL	27065	VAL	27934	VAL	27090	VAL
319-84-6	alpha-BHC	2.8	U	1.5	U	1.6	U	1.8	U	1.5	U	2.2	UJ
319-85-7	beta-BHC	2.8	U	1.5	U	1.6	U	1.8	U	1.5	U	2.2	UJ
319-86-8	delta-BHC	2.8	U	1.5	U	1.6	U	1.8	U	1.5	U	2.2	UJ
58-89-9	gamma-BHC (Lindane)	2.8	U	1.5	U	1.6	U	1.8	U	1.5	U	2.2	UJ
76-44-8	Heptachlor	2.8	U	1.5	U	1.6	U	1.8	U	1.5	U	2.2	UJ
309-00-2	Aldrin	2.8	U	1.5	U	1.6	U	1.8	U	1.5	U	2.2	UJ
1024-57-3	Heptachlor epoxide	2.8	U	1.5	U	1.6	U	1.8	U	1.5	U	2.2	UJ
959-98-8	Endosulfan I	2.8	U	1.5	U	1.6	U	1.8	U	1.5	U	2.2	UJ
60-57-1	Dieldrin	5.3	U	2.9	U	3.1	U	3.6	U	3.	U	4.2	UJ
72-55-9	4,4'-DDE	5.3	U	2.9	U	3.1	U	4.2	J	3.	U	4.2	UJ
72-20-8	Endrin	5.3	U	2.9	U	3.1	U	3.6	U	3.	U	4.2	UJ
33213-65-9	Endosulfan II	5.3	U	2.9	U	3.1	U	3.6	U	3.	U	4.2	UJ
72-54-8	4,4'-DDD	5.3	U	2.9	U	3.1	U	3.6	U	3.	U	4.2	UJ
1031-07-8	Endosulfan sulfate	5.3	U	2.9	U	3.1	U	3.6	U	3.	U	4.2	UJ
50-29-3	4,4'-DDT	5.3	U	2.9	U	3.1	U	3.6	U	3.	U	4.2	UJ
72-43-5	Methoxychlor	28.	U	15.	U	16.	U	18.	U	15.	U	22.	UJ
53494-70-5	Endrin ketone	5.3	U	2.9	U	3.1	U	3.6	U	3.	U	4.2	UJ
7421-93-4	Endrin aldehyde	5.3	U	2.9	U	3.1	U	3.6	U	3.	U	4.2	UJ
5103-71-9	alpha-Chlordane	2.8	U	1.5	U	1.6	U	3.4		1.5	U	2.2	UJ
5103-74-2	gamma-Chlordane	2.8	U	1.5	U	1.6	U	5.4		1.5	U	2.2	UJ
8001-35-2	Toxaphene	180.	U	96.	U	100.	U	120.	U	99.	U	140.	UJ
12674-11-2	Aroclor-1016	70.	U	38.	U	41.	U	47.	U	39.	U	56.	UJ
11104-28-2	Aroclor-1221	70.	U	38.	U	41.	U	47.	U	39.	U	56.	UJ
11141-16-5	Aroclor-1232	70.	U	38.	U	41.	U	47.	U	39.	U	56.	UJ
53469-21-9	Aroclor-1242	70.	U	38.	U	41.	U	47.	U	39.	U	56.	UJ
12672-29-6	Aroclor-1248	70.	U	38.	U	41.	U	47.	U	39.	U	56.	UJ
11097-69-1	Aroclor-1254	140.	U	78.	U	83.	U	96.	U	30.	J	110.	UJ
11096-82-5	Aroclor-1260	140.	U	78.	U	83.	U	96.	U	80.	U	110.	UJ

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

SW846-PEST													
	SAMPLE ID ------->	FDS-S-C066-01		FDS-S-C067-01		FDS-S-C084-01		FDS-S-C094-01		FDS-S-C114-01		FDS-S-C47A-01	
	ORIGINAL ID ----->	FDSSC06601		FDSSC06701		FDSSC08401		FDSSC09401		FDSSC11401		FDSSC47A01	
	LAB SAMPLE ID --->	27869.11		27869.12		27178.209999		27212.07		27869.14		27065.12	
	ID FROM REPORT -->	FDSSC06601		FDSSC06701		FDSSC08401		FDSSC09401		FDSSC11401		FDSSC47A01	
	SAMPLE DATE ----->	12/04/96		12/04/96		10/02/09		10/04/96		12/05/96		09/24/96	
	DATE EXTRACTED -->	12/08/96		12/08/96		10/08/96				12/08/96		09/26/96	
	DATE ANALYZED --->	12/18/96		12/19/96		10/29/96				12/18/96		10/08/96	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	27869	VAL	27869	VAL	27178	VAL	27212	VAL	27869	VAL	27065	VAL
319-84-6	alpha-BHC	1.8	U	1.8	U	1.6	U	1.6	U	1.8	U	1.7	U
319-85-7	beta-BHC	1.8	U	1.8	U	1.6	U	1.6	U	1.8	U	1.7	U
319-86-8	delta-BHC	1.8	U	1.8	U	1.6	U	1.6	U	1.8	U	1.7	U
58-89-9	gamma-BHC (Lindane)	1.8	U	1.8	U	1.6	U	1.6	U	1.8	U	1.7	U
76-44-8	Heptachlor	1.8	U	1.8	UJ	1.6	U	1.6	U	1.8	U	1.7	U
309-00-2	Aldrin	1.8	U	1.8	U	1.6	U	1.6	U	1.8	U	1.7	U
1024-57-3	Heptachlor epoxide	1.8	U	1.8	U	1.6	U	1.6	U	1.8	U	1.7	U
959-98-8	Endosulfan I	1.8	U	1.8	U	1.6	U	1.6	U	1.8	U	1.7	U
60-57-1	Dieldrin	6.7	U	3.4	U	3.2	U	3.	U	3.4	U	3.3	U
72-55-9	4,4'-DDE	82.	DJ	10.	J	3.2	U	3.	U	3.4	U	3.3	U
72-20-8	Endrin	3.4	U	3.4	U	3.2	U	3.	U	3.4	U	3.3	U
33213-65-9	Endosulfan II	3.4	U	3.4	U	3.2	U	3.	U	3.4	U	3.3	U
72-54-8	4,4'-DDD	3.4	U	9.9	J	3.2	U	3.	U	3.4	U	3.3	U
1031-07-8	Endosulfan sulfate	3.4	U	3.4	U	3.2	U	3.	U	3.4	U	3.3	U
50-29-3	4,4'-DDT	3.4	U	3.4	U	3.2	U	3.	U	3.4	U	3.3	U
72-43-5	Methoxychlor	18.	U	18.	U	16.	U	16.	U	18.	U	17.	U
53494-70-5	Endrin ketone	3.4	U	3.4	U	3.2	U	3.	U	3.4	U	3.3	U
7421-93-4	Endrin aldehyde	3.4	U	3.4	U	3.2	U	3.	U	3.4	U	3.3	U
5103-71-9	alpha-Chlordane	1.8	U	1.8	U	1.6	U	1.6	U	1.8	U	1.7	U
5103-74-2	gamma-Chlordane	1.8	U	1.8	U	1.6	U	1.6	U	1.8	U	1.7	U
8001-35-2	Toxaphene	110.	U	110.	U	100.	U	100.	U	110.	U	110.	U
12674-11-2	Aroclor-1016	45.	U	45.	U	42.	U	40.	U	44.	U	44.	U
11104-28-2	Aroclor-1221	45.	U	45.	U	42.	U	40.	U	44.	U	44.	U
11141-16-5	Aroclor-1232	45.	U	45.	U	42.	U	40.	U	44.	U	44.	U
53469-21-9	Aroclor-1242	45.	U	45.	U	42.	U	40.	U	44.	U	44.	U
12672-29-6	Aroclor-1248	45.	U	45.	U	42.	U	40.	U	44.	U	44.	U
11097-69-1	Aroclor-1254	92.	U	92.	U	85.	U	82.	U	90.	U	89.	U
11096-82-5	Aroclor-1260	92.	U	92.	U	85.	U	82.	U	90.	U	89.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

SW846-PEST								
SAMPLE ID ------->	FDS-S-H023-01		FDS-S-H024-01		FDS-S-H026-01			
ORIGINAL ID ----->	FDSSH02301		FDSSH02401		FDSSH02601			
LAB SAMPLE ID --->	FDSSH02301		27377.09		27377.06			
ID FROM REPORT -->	FDSSH02301		FDSSH02401		FDSSH02601			
SAMPLE DATE ----->	10/17/96		10/21/96		10/21/96			
DATE EXTRACTED -->	10/20/96		10/22/96		10/22/96			
DATE ANALYZED --->	10/28/96		11/01/96		11/01/96			
MATRIX ---------->	Soil		Soil		Soil			
UNITS ---------->	UG/KG		UG/KG		UG/KG			
CAS # Parameter	27339	VAL	27377	VAL	27377	VAL		
319-84-6 alpha-BHC	1.4	U	1.4	U	1.4	U		
319-85-7 beta-BHC	1.4	U	1.4	U	1.4	U		
319-86-8 delta-BHC	1.4	U	1.4	U	1.4	U		
58-89-9 gamma-BHC (Lindane)	1.4	U	1.4	U	1.4	U		
76-44-8 Heptachlor	5.3	J	1.4	U	1.4	U		
309-00-2 Aldrin	1.4	U	1.4	U	1.4	U		
1024-57-3 Heptachlor epoxide	1.4	U	1.4	U	1.4	U		
959-98-8 Endosulfan I	1.4	U	1.4	U	1.4	U		
60-57-1 Dieldrin	2.8	U	2.8	U	2.7	U		
72-55-9 4,4'-DDE	2.8	U	2.8	U	2.7	U		
72-20-8 Endrin	20.		2.8	U	2.7	U		
33213-65-9 Endosulfan II	2.8	U	2.8	U	2.7	U		
72-54-8 4,4'-DDD	2.8	U	2.8	U	2.7	U		
1031-07-8 Endosulfan sulfate	2.8	U	2.8	U	2.7	U		
50-29-3 4,4'-DDT	11.	U	2.8	U	2.7	U		
72-43-5 Methoxychlor	14.	U	14.	U	14.	U		
53494-70-5 Endrin ketone	2.8	U	2.8	U	2.7	U		
7421-93-4 Endrin aldehyde	2.8	U	2.8	U	2.7	U		
5103-71-9 alpha-Chlordane	1.4	U	1.4	U	1.4	U		
5103-74-2 gamma-Chlordane	3.4		1.4	U	1.4	U		
8001-35-2 Toxaphene	92.	U	92.	U	90.	U		
12674-11-2 Aroclor-1016	37.	U	37.	U	36.	U		
11104-28-2 Aroclor-1221	37.	U	37.	U	36.	U		
11141-16-5 Aroclor-1232	37.	U	37.	U	36.	U		
53469-21-9 Aroclor-1242	37.	U	37.	U	36.	U		
12672-29-6 Aroclor-1248	37.	U	37.	U	36.	U		
11097-69-1 Aroclor-1254	74.	U	74.	U	73.	U		
11096-82-5 Aroclor-1260	170.	U	74.	U	73.	U		

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

SW846-SVOA													
	SAMPLE ID ------>	FDS-S-C002-01		FDS-S-C011-01		FDS-S-C012-01		FDS-S-C013-01		FDS-S-C014-01		FDS-S-C016-01	
	ORIGINAL ID ----->	FDSSC00201		FDSSC01101		FDSSC01201		FDSSC01301		FDSSC01401		FDSSC01601	
	LAB SAMPLE ID --->	27869.01		27869.02		27869.05		27869.06		27869.07		27869.08	
	ID FROM REPORT -->	FDSSC00201		FDSSC01101		FDSSC01201		FDSSC01301		FDSSC01401		FDSSC01601	
	SAMPLE DATE ----->	12/04/96		12/04/96		12/04/96		12/04/96		12/05/96		12/04/96	
	DATE EXTRACTED -->	12/08/96		12/08/96		12/08/96		12/08/96		12/08/96		12/08/96	
	DATE ANALYZED --->	12/13/96		12/13/96		12/20/96		12/14/96		12/19/96		12/14/96	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	27869	VAL	27869	VAL	27869	VAL	27869	VAL	27869	VAL	27869	VAL
108-95-2	Phenol	430.	U	520.	U	10000.	U	550.	U	650.	UJ	780.	U
111-44-4	bis(2-Chloroethyl)ether	430.	U	520.	U	10000.	U	550.	U	650.	UJ	780.	U
95-57-8	2-Chlorophenol	430.	U	520.	U	10000.	U	550.	U	650.	UJ	780.	U
541-73-1	1,3-Dichlorobenzene	430.	U	520.	U	10000.	U	550.	U	650.	UJ	780.	U
106-46-7	1,4-Dichlorobenzene	430.	U	520.	U	10000.	U	550.	U	650.	UJ	780.	U
100-51-6	Benzyl alcohol	430.	U	520.	U	10000.	U	550.	U	650.	UJ	780.	U
95-50-1	1,2-Dichlorobenzene	430.	U	520.	U	10000.	U	550.	U	650.	UJ	780.	U
95-48-7	2-Methylphenol (o-Cresol)	430.	U	520.	U	10000.	U	550.	U	650.	UJ	780.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	430.	U	520.	U	10000.	U	550.	U	650.	UJ	780.	U
106-44-5	4-Methylphenol (p-Cresol)	430.	U	520.	U	10000.	U	550.	U	650.	UJ	780.	U
621-64-7	N-Nitroso-di-n-propylamine	430.	U	520.	U	10000.	U	550.	U	650.	UJ	780.	U
67-72-1	Hexachloroethane	430.	U	520.	U	10000.	U	550.	U	650.	UJ	780.	U
98-95-3	Nitrobenzene	430.	U	520.	U	10000.	U	550.	U	650.	UJ	780.	U
78-59-1	Isophorone	430.	U	520.	U	10000.	U	550.	U	650.	UJ	780.	U
88-75-5	2-Nitrophenol	430.	U	520.	U	10000.	U	550.	U	200.	J	780.	U
105-67-9	2,4-Dimethylphenol	430.	U	520.	U	10000.	U	550.	U	650.	UJ	780.	U
65-85-0	Benzoic acid	2100.	U	78.	J	50000.	U	2700.	U	120.	J	130.	J
111-91-1	bis(2-Chloroethoxy)methane	430.	U	520.	U	10000.	U	550.	U	650.	UJ	780.	U
120-83-2	2,4-Dichlorophenol	430.	U	520.	U	10000.	U	550.	U	650.	UJ	780.	U
120-82-1	1,2,4-Trichlorobenzene	430.	U	520.	U	10000.	U	550.	U	650.	UJ	780.	U
91-20-3	Naphthalene	420.	J	520.	U	39000.		290.	J	650.	UJ	780.	U
106-47-8	4-Chloroaniline	430.	U	520.	U	10000.	U	550.	U	650.	UJ	780.	U
87-68-3	Hexachlorobutadiene	430.	U	520.	U	10000.	U	550.	U	650.	UJ	780.	U
59-50-7	4-Chloro-3-methylphenol	430.	U	520.	U	10000.	U	550.	U	650.	UJ	780.	U
91-57-6	2-Methylnaphthalene	940.		520.	U	120000.		5200.		650.	UJ	780.	U
77-47-4	Hexachlorocyclopentadiene	430.	U	520.	U	10000.	U	550.	U	650.	UJ	780.	U
88-06-2	2,4,6-Trichlorophenol	430.	U	520.	U	10000.	U	550.	U	650.	UJ	780.	U
95-95-4	2,4,5-Trichlorophenol	2100.	U	2500.	U	50000.	U	2700.	U	3100.	UJ	3800.	U
91-58-7	2-Chloronaphthalene	430.	U	520.	U	10000.	U	550.	U	650.	UJ	780.	U
88-74-4	2-Nitroaniline	2100.	U	2500.	U	50000.	U	2700.	U	3100.	UJ	3800.	U
131-11-3	Dimethyl phthalate	430.	U	520.	U	10000.	U	550.	U	650.	UJ	780.	U
208-96-8	Acenaphthylene	430.	U	520.	U	10000.	U	550.	U	650.	UJ	780.	U
606-20-2	2,6-Dinitrotoluene	430.	U	520.	U	10000.	U	550.	U	650.	UJ	780.	U
99-09-2	3-Nitroaniline	2100.	U	2500.	U	50000.	U	2700.	U	3100.	UJ	3800.	U
83-32-9	Acenaphthene	430.	U	520.	U	10000.	U	2600.		650.	UJ	780.	U
51-28-5	2,4-Dinitrophenol	2100.	UJ	2500.	UJ	50000.	U	2700.	U	3100.	UJ	3800.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

SW846-SVOA													
	SAMPLE ID ------>	FDS-S-C002-01		FDS-S-C011-01		FDS-S-C012-01		FDS-S-C013-01		FDS-S-C014-01		FDS-S-C016-01	
	ORIGINAL ID ----->	FDSSC00201		FDSSC01101		FDSSC01201		FDSSC01301		FDSSC01401		FDSSC01601	
	LAB SAMPLE ID --->	27869.01		27869.02		27869.05		27869.06		27869.07		27869.08	
	ID FROM REPORT -->	FDSSC00201		FDSSC01101		FDSSC01201		FDSSC01301		FDSSC01401		FDSSC01601	
	SAMPLE DATE ----->	12/04/96		12/04/96		12/04/96		12/04/96		12/05/96		12/04/96	
	DATE EXTRACTED -->	12/08/96		12/08/96		12/08/96		12/08/96		12/08/96		12/08/96	
	DATE ANALYZED --->	12/13/96		12/13/96		12/20/96		12/14/96		12/19/96		12/14/96	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	27869	VAL	27869	VAL	27869	VAL	27869	VAL	27869	VAL	27869	VAL
100-02-7	4-Nitrophenol	2100.	U	2500.	U	50000.	U	2700.	U	3100.	UJ	3800.	U
132-64-9	Dibenzofuran	460.		520.	U	6200.	J	1500.		650.	UJ	780.	U
121-14-2	2,4-Dinitrotoluene	430.	U	520.	U	10000.	U	550.	U	650.	UJ	780.	U
84-66-2	Diethylphthalate	430.	U	520.	U	10000.	U	550.	U	650.	UJ	780.	U
7005-72-3	4-Chlorophenylphenylether	430.	U	520.	U	10000.	U	550.	U	650.	UJ	780.	U
86-73-7	Fluorene	1200.		520.	U	12000.		2700.		650.	UJ	780.	U
100-01-6	4-Nitroaniline	2100.	U	2500.	U	50000.	U	2700.	U	3100.	UJ	3800.	U
534-52-1	2-Methyl-4,6-Dinitrophenol	2100.	U	2500.	U	50000.	U	2700.	U	3100.	UJ	3800.	U
86-30-6	N-Nitrosodiphenylamine	430.	U	520.	U	10000.	U	550.	U	650.	UJ	780.	U
101-55-3	4-Bromophenyl-phenylether	430.	U	520.	U	10000.	U	550.	U	650.	UJ	780.	U
118-74-1	Hexachlorobenzene	430.	U	520.	U	10000.	U	550.	U	650.	UJ	780.	U
87-86-5	Pentachlorophenol	2100.	U	2500.	U	50000.	U	2700.	U	3100.	UJ	3800.	U
85-01-8	Phenanthrene	980.		520.	U	22000.		7700.		650.	UJ	780.	U
120-12-7	Anthracene	430.	U	520.	U	10000.	U	950.		650.	UJ	780.	U
84-74-2	Di-n-butylphthalate	430.	U	520.	U	10000.	U	550.	U	650.	UJ	780.	U
206-44-0	Fluoranthene	310.	J	150.	J	10000.	U	2000.		650.	UJ	780.	U
129-00-0	Pyrene	360.	J	230.	J	2200.	J	3300.	J	210.	J	190.	J
85-68-7	Butylbenzylphthalate	430.	U	520.	U	10000.	U	84.	J	650.	UJ	780.	UJ
91-94-1	3,3'-Dichlorobenzidine	870.	U	1000.	U	21000.	U	1100.	UJ	1300.	UJ	1600.	UJ
56-55-3	Benzo(a)anthracene	430.	U	74.	J	10000.	U	730.	J	650.	UJ	780.	UJ
218-01-9	Chrysene	50.	J	98.	J	1200.	J	1200.	J	650.	UJ	780.	UJ
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	430.	U	520.	U	10000.	U	550.	UJ	650.	UJ	780.	UJ
117-84-0	Di-n-octyl phthalate	430.	U	520.	U	10000.	U	550.	UJ	650.	UJ	780.	UJ
205-99-2	Benzo(b)fluoranthene	430.	U	66.	J	10000.	U	560.	J	120.	J	84.	J
207-08-9	Benzo(k)fluoranthene	430.	U	61.	J	10000.	U	410.	J	88.	J	86.	J
50-32-8	Benzo(a)pyrene	430.	U	65.	J	10000.	U	490.	J	130.	J	780.	UJ
193-39-5	Indeno(1,2,3-cd)pyrene	430.	U	72.	J	10000.	U	320.	J	130.	J	780.	UJ
53-70-3	Dibenz(a,h)anthracene	430.	U	520.	U	10000.	U	110.	J	650.	UJ	780.	UJ
191-24-2	Benzo(g,h,i)perylene	430.	U	520.	U	10000.	U	370.	J	110.	J	780.	UJ

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

SW846-SVOA	SAMPLE ID ------>	FDS-S-C030-01		FDS-S-C051-01		FDS-S-C055-01		FDS-S-C058-01		FDS-S-C062-01		FDS-S-C065-01	
	ORIGINAL ID ----->	FDSSC03001		FDSSC05101		FDSSC05501		FDSSC05801		FDSSC06201		FDSSC06501	
	LAB SAMPLE ID --->	27869.09		28157.01		27869.10		27065.10		27934.01		27090.19	
	ID FROM REPORT -->	FDSSC03001		FDSSC05101		FDSSC05501		FDSSC05801		FDSSC06201		FDSSC06501	
	SAMPLE DATE ----->	12/04/96		01/13/97		12/05/96		09/24/96		12/10/96		09/25/96	
	DATE EXTRACTED -->	12/08/96		01/14/97		12/08/96		09/26/96		12/12/96		09/27/96	
	DATE ANALYZED --->	12/19/96		01/16/97		12/19/96		10/16/96		01/06/97		10/17/96	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/L		UG/KG	
CAS #	Parameter	27869	VAL	28314	VAL	27869	VAL	27065	VAL	27934	VAL	27090	VAL
108-95-2	Phenol	700.	UJ	770.	U	410.	U	470.	U	390.	U	560.	U
111-44-4	bis(2-Chloroethyl)ether	700.	UJ	770.	U	410.	U	470.	U	390.	U	560.	U
95-57-8	2-Chlorophenol	700.	UJ	770.	U	410.	U	470.	U	390.	U	560.	U
541-73-1	1,3-Dichlorobenzene	700.	UJ	770.	U	410.	U	470.	U	390.	U	560.	U
106-46-7	1,4-Dichlorobenzene	700.	UJ	770.	U	410.	U	470.	U	390.	U	560.	U
100-51-6	Benzyl alcohol	700.	UJ	770.	U	410.	U	470.	U	390.	U	560.	U
95-50-1	1,2-Dichlorobenzene	700.	UJ	770.	U	410.	U	470.	U	390.	U	560.	U
95-48-7	2-Methylphenol (o-Cresol)	700.	UJ	770.	U	410.	U	470.	U	390.	U	560.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	700.	UJ	770.	U	410.	U	470.	U	390.	U	560.	U
106-44-5	4-Methylphenol (p-Cresol)	700.	UJ	770.	U	410.	U	470.	U	390.	U	560.	U
621-64-7	N-Nitroso-di-n-propylamine	700.	UJ	770.	U	410.	U	470.	U	390.	U	560.	U
67-72-1	Hexachloroethane	700.	UJ	770.	U	410.	U	470.	U	390.	U	560.	U
98-95-3	Nitrobenzene	700.	UJ	770.	U	410.	U	470.	U	390.	U	560.	U
78-59-1	Isophorone	700.	UJ	770.	U	410.	U	470.	U	390.	U	560.	U
88-75-5	2-Nitrophenol	700.	UJ	770.	U	410.	U	470.	U	390.	U	560.	U
105-67-9	2,4-Dimethylphenol	700.	UJ	770.	U	410.	U	470.	U	390.	U	560.	U
65-85-0	Benzoic acid	94.	J	3700.	U	61.	J	2300.	U	1900.	U	2700.	U
111-91-1	bis(2-Chloroethoxy)methane	700.	UJ	770.	U	410.	U	470.	U	390.	U	560.	U
120-83-2	2,4-Dichlorophenol	700.	UJ	770.	U	410.	U	470.	U	390.	U	560.	U
120-82-1	1,2,4-Trichlorobenzene	700.	UJ	770.	U	410.	U	470.	U	390.	U	560.	U
91-20-3	Naphthalene	700.	UJ	770.	U	410.	U	470.	U	390.	U	560.	U
106-47-8	4-Chloroaniline	700.	UJ	770.	U	410.	U	470.	U	390.	U	560.	U
87-68-3	Hexachlorobutadiene	700.	UJ	770.	U	410.	U	470.	U	390.	U	560.	U
59-50-7	4-Chloro-3-methylphenol	700.	UJ	770.	U	410.	U	470.	U	390.	U	560.	U
91-57-6	2-Methylnaphthalene	700.	UJ	770.	U	410.	U	250.	J	390.	U	62.	J
77-47-4	Hexachlorocyclopentadiene	700.	UJ	770.	U	410.	UJ	470.	U	390.	U	560.	U
88-06-2	2,4,6-Trichlorophenol	700.	UJ	770.	U	410.	UJ	470.	U	390.	U	560.	U
95-95-4	2,4,5-Trichlorophenol	3400.	UJ	3700.	U	2000.	UJ	2300.	U	1900.	U	2700.	U
91-58-7	2-Chloronaphthalene	700.	UJ	770.	U	410.	UJ	470.	U	390.	U	560.	U
88-74-4	2-Nitroaniline	3400.	UJ	3700.	U	2000.	UJ	2300.	U	1900.	U	2700.	U
131-11-3	Dimethyl phthalate	700.	UJ	770.	U	410.	UJ	470.	U	390.	U	560.	U
208-96-8	Acenaphthylene	700.	UJ	770.	U	410.	UJ	470.	U	390.	U	560.	U
606-20-2	2,6-Dinitrotoluene	700.	UJ	770.	U	410.	UJ	470.	U	390.	U	560.	U
99-09-2	3-Nitroaniline	3400.	UJ	3700.	U	2000.	UJ	2300.	U	1900.	U	2700.	U
83-32-9	Acenaphthene	700.	UJ	770.	U	410.	UJ	470.	U	390.	U	130.	J
51-28-5	2,4-Dinitrophenol	3400.	UJ	3700.	U	2000.	UJ	2300.	U	1900.	U	2700.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

SW846-SVOA	SAMPLE ID ------->	FDS-S-C030-01	FDS-S-C051-01	FDS-S-C055-01	FDS-S-C058-01	FDS-S-C062-01	FDS-S-C065-01
	ORIGINAL ID ----->	FDSSC03001	FDSSC05101	FDSSC05501	FDSSC05801	FDSSC06201	FDSSC06501
	LAB SAMPLE ID --->	27869.09	28157.01	27869.10	27065.10	27934.01	27090.19
	ID FROM REPORT -->	FDSSC03001	FDSSC05101	FDSSC05501	FDSSC05801	FDSSC06201	FDSSC06501
	SAMPLE DATE ----->	12/04/96	01/13/97	12/05/96	09/24/96	12/10/96	09/25/96
	DATE EXTRACTED -->	12/08/96	01/14/97	12/08/96	09/26/96	12/12/96	09/27/96
	DATE ANALYZED --->	12/19/96	01/16/97	12/19/96	10/16/96	01/06/97	10/17/96
	MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
	UNITS ---------->	UG/KG	UG/KG	UG/KG	UG/KG	UG/L	UG/KG

CAS #	Parameter	27869	VAL	28314	VAL	27869	VAL	27065	VAL	27934	VAL	27090	VAL
100-02-7	4-Nitrophenol	3400.	UJ	3700.	U	2000.	UJ	2300.	U	1900.	U	2700.	U
132-64-9	Dibenzofuran	700.	UJ	770.	U	410.	UJ	64.	J	390.	U	560.	U
121-14-2	2,4-Dinitrotoluene	700.	UJ	770.	U	410.	UJ	470.	U	390.	U	560.	U
84-66-2	Diethylphthalate	700.	UJ	770.	U	410.	UJ	470.	U	390.	U	560.	U
7005-72-3	4-Chlorophenylphenylether	700.	UJ	770.	U	410.	UJ	470.	U	390.	U	560.	U
86-73-7	Fluorene	700.	UJ	770.	U	410.	UJ	70.	J	390.	U	140.	J
100-01-6	4-Nitroaniline	3400.	UJ	3700.	U	2000.	UJ	2300.	U	1900.	U	2700.	U
534-52-1	2-Methyl-4,6-Dinitrophenol	3400.	UJ	3700.	U	2000.	UJ	2300.	U	1900.	U	2700.	U
86-30-6	N-Nitrosodiphenylamine	700.	UJ	770.	U	410.	UJ	470.	U	390.	U	560.	U
101-55-3	4-Bromophenyl-phenylether	700.	UJ	770.	U	410.	UJ	470.	U	390.	U	560.	U
118-74-1	Hexachlorobenzene	700.	UJ	770.	U	410.	UJ	470.	U	390.	U	560.	U
87-86-5	Pentachlorophenol	3400.	UJ	3700.	U	2000.	UJ	2300.	U	1900.	U	2700.	U
85-01-8	Phenanthrene	700.	UJ	770.	U	410.	UJ	160.	J	390.	U	240.	J
120-12-7	Anthracene	700.	UJ	770.	U	410.	UJ	470.	U	390.	U	110.	J
84-74-2	Di-n-butylphthalate	700.	UJ	770.	U	410.	UJ	470.	U	390.	U	560.	U
206-44-0	Fluoranthene	180.	J	770.	U	410.	UJ	88.	J	390.	U	120.	J
129-00-0	Pyrene	180.	J	770.	U	45.	J	160.	J	390.	U	290.	J
85-68-7	Butylbenzylphthalate	700.	UJ	770.	U	410.	UJ	470.	U	390.	U	560.	U
91-94-1	3,3'-Dichlorobenzidine	1400.	UJ	1500.	U	810.	UJ	940.	U	780.	U	1100.	U
56-55-3	Benzo(a)anthracene	96.	J	770.	U	74.	J	470.	U	390.	U	86.	J
218-01-9	Chrysene	94.	J	80.	J	150.	J	140.	J	390.	U	70.	J
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	86.	J	1500.		410.	UJ	470.	U	390.	U	560.	U
117-84-0	Di-n-octyl phthalate	700.	U	770.	U	410.	U	470.	U	390.	U	560.	U
205-99-2	Benzo(b)fluoranthene	76.	J	770.	U	53.	J	470.	U	43.	J	72.	J
207-08-9	Benzo(k)fluoranthene	87.	J	770.	U	410.	U	470.	U	390.	U	560.	U
50-32-8	Benzo(a)pyrene	91.	J	770.	U	68.	J	470.	U	390.	U	560.	U
193-39-5	Indeno(1,2,3-cd)pyrene	74.	J	770.	U	410.	U	470.	U	390.	U	560.	U
53-70-3	Dibenz(a,h)anthracene	700.	U	770.	U	410.	U	470.	U	390.	U	560.	U
191-24-2	Benzo(g,h,i)perylene	79.	J	770.	U	65.	J	470.	U	390.	U	560.	U

*** Validation Complete ***

SW846-SVOA	SAMPLE ID -------->	FDS-S-C066-01		FDS-S-C067-01		FDS-S-C084-01		FDS-S-C094-01		FDS-S-C114-01		FDS-S-C47A-01	
	ORIGINAL ID ----->	FDSSC06601		FDSSC06701		FDSSC08401		FDSSC09401		FDSSC11401		FDSSC47A01	
	LAB SAMPLE ID --->	27869.11		27869.12		27178.21		27212.07		27869.14		27065.12	
	ID FROM REPORT -->	FDSSC06601		FDSSC06701		FDSSC08401		FDSSC09401		FDSSC11401		FDSSC47A01	
	SAMPLE DATE ----->	12/04/96		12/04/96		10/02/96		10/03/96		12/05/96		09/24/96	
	DATE EXTRACTED -->	12/08/96		12/08/96		10/08/96		10/09/96		12/08/96		09/26/96	
	DATE ANALYZED --->	12/19/96		12/19/96		10/23/96		10/28/96		12/20/96		10/16/96	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ----------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	27869	VAL	27869	VAL	27178	VAL	27212	VAL	27869	VAL	27065	VAL
108-95-2	Phenol	900.	U	900.	U	420.	U	400.	U	440.	U	440.	U
111-44-4	bis(2-Chloroethyl)ether	900.	U	900.	U	420.	U	400.	U	440.	U	440.	U
95-57-8	2-Chlorophenol	900.	U	900.	U	420.	U	400.	U	440.	U	440.	U
541-73-1	1,3-Dichlorobenzene	900.	U	900.	U	420.	U	400.	U	440.	U	440.	U
106-46-7	1,4-Dichlorobenzene	900.	U	900.	U	420.	U	400.	U	440.	U	440.	U
100-51-6	Benzyl alcohol	900.	U	900.	U	420.	U	400.	U	440.	U	440.	U
95-50-1	1,2-Dichlorobenzene	900.	U	900.	U	420.	U	400.	U	440.	U	440.	U
95-48-7	2-Methylphenol (o-Cresol)	900.	U	900.	U	420.	U	400.	U	440.	U	440.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	900.	U	900.	U	420.	U	400.	U	440.	U	440.	U
106-44-5	4-Methylphenol (p-Cresol)	900.	U	900.	U	420.	U	400.	U	440.	U	440.	U
621-64-7	N-Nitroso-di-n-propylamine	900.	U	900.	U	420.	U	400.	U	440.	U	440.	U
67-72-1	Hexachloroethane	900.	U	900.	U	420.	U	400.	U	440.	U	440.	U
98-95-3	Nitrobenzene	900.	U	900.	U	420.	U	400.	U	440.	U	440.	U
78-59-1	Isophorone	900.	U	900.	U	420.	U	400.	U	440.	U	440.	U
88-75-5	2-Nitrophenol	900.	U	900.	U	420.	U	400.	U	440.	U	440.	U
105-67-9	2,4-Dimethylphenol	900.	U	900.	U	420.	U	400.	U	440.	U	440.	U
65-85-0	Benzoic acid	4400.	U	4400.	U	2000.	U	2000.	U	86.	J	2100.	U
111-91-1	bis(2-Chloroethoxy)methane	900.	U	900.	U	420.	U	400.	U	440.	U	440.	U
120-83-2	2,4-Dichlorophenol	900.	U	900.	U	420.	U	400.	U	440.	U	440.	U
120-82-1	1,2,4-Trichlorobenzene	900.	U	900.	U	420.	U	400.	U	440.	U	440.	U
91-20-3	Naphthalene	3400.		900.	U	420.	U	400.	U	440.	U	110.	J
106-47-8	4-Chloroaniline	900.	U	900.	U	420.	U	400.	U	440.	U	440.	U
87-68-3	Hexachlorobutadiene	900.	U	900.	U	420.	U	400.	U	440.	U	440.	U
59-50-7	4-Chloro-3-methylphenol	900.	U	900.	U	420.	U	400.	U	440.	U	440.	U
91-57-6	2-Methylnaphthalene	3100.		5300.		420.	U	400.	U	440.	U	5100.	
77-47-4	Hexachlorocyclopentadiene	900.	U	900.	UJ	420.	U	400.	U	440.	UJ	440.	U
88-06-2	2,4,6-Trichlorophenol	900.	U	900.	UJ	420.	U	400.	U	440.	UJ	440.	U
95-95-4	2,4,5-Trichlorophenol	4400.	U	4400.	UJ	2000.	U	2000.	U	2200.	UJ	2100.	U
91-58-7	2-Chloronaphthalene	900.	U	900.	UJ	420.	U	400.	U	440.	UJ	440.	U
88-74-4	2-Nitroaniline	4400.	U	4400.	UJ	2000.	U	2000.	U	2200.	UJ	2100.	U
131-11-3	Dimethyl phthalate	900.	U	900.	UJ	420.	U	400.	U	440.	UJ	440.	U
208-96-8	Acenaphthylene	900.	U	900.	UJ	420.	U	400.	U	440.	UJ	440.	U
606-20-2	2,6-Dinitrotoluene	900.	U	900.	UJ	420.	U	400.	U	440.	UJ	440.	U
99-09-2	3-Nitroaniline	4400.	U	4400.	UJ	2000.	U	2000.	U	2200.	UJ	2100.	U
83-32-9	Acenaphthene	3000.		1600.	J	420.	U	400.	U	440.	UJ	430.	J
51-28-5	2,4-Dinitrophenol	4400.	U	4400.	UJ	2000.	U	2000.	U	2200.	UJ	2100.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

SW846-SVOA													
	SAMPLE ID ------>	FDS-S-C066-01		FDS-S-C067-01		FDS-S-C084-01		FDS-S-C094-01		FDS-S-C114-01		FDS-S-C47A-01	
	ORIGINAL ID ----->	FDSSC06601		FDSSC06701		FDSSC08401		FDSSC09401		FDSSC11401		FDSSC47A01	
	LAB SAMPLE ID --->	27869.11		27869.12		27178.21		27212.07		27869.14		27065.12	
	ID FROM REPORT -->	FDSSC06601		FDSSC06701		FDSSC08401		FDSSC09401		FDSSC11401		FDSSC47A01	
	SAMPLE DATE ----->	12/04/96		12/04/96		10/02/96		10/03/96		12/05/96		09/24/96	
	DATE EXTRACTED -->	12/08/96		12/08/96		10/08/96		10/09/96		12/08/96		09/26/96	
	DATE ANALYZED --->	12/19/96		12/19/96		10/23/96		10/28/96		12/20/96		10/16/96	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	27869	VAL	27869	VAL	27178	VAL	27212	VAL	27869	VAL	27065	VAL
100-02-7	4-Nitrophenol	4400.	U	4400.	UJ	2000.	U	2000.	U	2200.	UJ	2100.	U
132-64-9	Dibenzofuran	2700.		1200.	J	420.	U	400.	U	440.	UJ	330.	J
121-14-2	2,4-Dinitrotoluene	900.	U	900.	UJ	420.	U	400.	U	440.	UJ	440.	U
84-66-2	Diethylphthalate	900.	U	900.	UJ	420.	U	400.	U	74.	J	440.	U
7005-72-3	4-Chlorophenylphenylether	900.	U	900.	UJ	420.	U	400.	U	440.	UJ	440.	U
86-73-7	Fluorene	4400.		2000.	J	420.	U	400.	U	440.	UJ	570.	
100-01-6	4-Nitroaniline	4400.	U	4400.	UJ	2000.	U	2000.	U	2200.	UJ	2100.	U
534-52-1	2-Methyl-4,6-Dinitrophenol	4400.	U	4400.	UJ	2000.	U	2000.	U	2200.	UJ	2100.	U
86-30-6	N-Nitrosodiphenylamine	900.	U	900.	UJ	420.	U	400.	U	440.	UJ	440.	U
101-55-3	4-Bromophenyl-phenylether	900.	U	900.	UJ	420.	U	400.	U	440.	UJ	440.	U
118-74-1	Hexachlorobenzene	900.	U	900.	UJ	420.	U	400.	U	440.	UJ	440.	U
87-86-5	Pentachlorophenol	4400.	U	4400.	UJ	2000.	U	2000.	U	2200.	UJ	2100.	U
85-01-8	Phenanthrene	15000.	DJ	7400.	J	100.	J	400.	U	130.	J	1600.	
120-12-7	Anthracene	3900.		1700.	J	420.	U	400.	U	49.	J	280.	J
84-74-2	Di-n-butylphthalate	900.	U	900.	UJ	420.	U	400.	U	440.	UJ	440.	U
206-44-0	Fluoranthene	6000.		4200.	J	75.	J	400.	U	520.	J	190.	J
129-00-0	Pyrene	5300.		3900.		54.	J	240.	J	470.	J	710.	
85-68-7	Butylbenzylphthalate	900.	U	900.	U	420.	U	400.	U	440.	UJ	440.	U
91-94-1	3,3'-Dichlorobenzidine	1800.	U	1800.	U	840.	U	800.	U	890.	UJ	880.	U
56-55-3	Benzo(a)anthracene	1800.		2100.	J	420.	U	49.	J	260.	J	300.	J
218-01-9	Chrysene	2000.		2300.	J	420.	U	62.	J	380.	J	440.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	900.	U	900.	U	420.	U	400.	U	46.	J	440.	U
117-84-0	Di-n-octyl phthalate	900.	U	900.	U	420.	U	400.	U	440.	UJ	440.	U
205-99-2	Benzo(b)fluoranthene	630.	J	1000.	J	420.	U	400.	U	120.	J	440.	U
207-08-9	Benzo(k)fluoranthene	710.	J	1200.	J	420.	U	400.	U	87.	J	440.	U
50-32-8	Benzo(a)pyrene	930.		1500.	J	420.	U	400.	U	60.	J	440.	U
193-39-5	Indeno(1,2,3-cd)pyrene	460.	J	790.	J	420.	U	400.	U	440.	UJ	440.	U
53-70-3	Dibenz(a,h)anthracene	120.	J	230.	J	420.	U	400.	U	440.	UJ	440.	U
191-24-2	Benzo(g,h,i)perylene	550.	J	860.	J	420.	U	400.	U	55.	J	440.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

SW846-SVOA	SAMPLE ID ------->	FDS-S-H023-01		FDS-S-H024-01		FDS-S-H026-01				
	ORIGINAL ID ----->	FDSSH02301		FDSSH02401		FDSSH02601				
	LAB SAMPLE ID --->	27355.10		27377.09		27377.06				
	ID FROM REPORT -->	FDSSH02301		FDSSH02401		FDSSH02601				
	SAMPLE DATE ----->	10/17/96		10/21/96		10/21/96				
	DATE EXTRACTED -->	10/20/96		10/22/96		10/22/96				
	DATE ANALYZED --->	11/01/96		11/05/96		11/06/96				
	MATRIX ---------->	Soil		Soil		Soil				
	UNITS ---------->	UG/KG		UG/KG		UG/KG				
CAS #	Parameter	27339	VAL	27377	VAL	27377	VAL			
108-95-2	Phenol	1800.	U	370.	U	720.	U			
111-44-4	bis(2-Chloroethyl)ether	1800.	U	370.	U	720.	U			
95-57-8	2-Chlorophenol	1800.	U	370.	U	720.	U			
541-73-1	1,3-Dichlorobenzene	1800.	U	370.	U	720.	U			
106-46-7	1,4-Dichlorobenzene	1800.	U	370.	U	720.	U			
100-51-6	Benzyl alcohol	1800.	U	370.	U	720.	U			
95-50-1	1,2-Dichlorobenzene	1800.	U	370.	U	720.	U			
95-48-7	2-Methylphenol (o-Cresol)	1800.	U	370.	U	720.	U			
108-60-1	2,2'-oxybis(1-Chloropropane)	1800.	U	370.	U	720.	U			
106-44-5	4-Methylphenol (p-Cresol)	1800.	U	370.	U	720.	U			
621-64-7	N-Nitroso-di-n-propylamine	1800.	U	370.	U	720.	U			
67-72-1	Hexachloroethane	1800.	U	370.	U	720.	U			
98-95-3	Nitrobenzene	1800.	U	370.	U	720.	U			
78-59-1	Isophorone	1800.	U	370.	U	720.	U			
88-75-5	2-Nitrophenol	1800.	U	370.	U	720.	U			
105-67-9	2,4-Dimethylphenol	1800.	U	370.	U	720.	U			
65-85-0	Benzoic acid	8900.	U	1800.	U	3500.	U			
111-91-1	bis(2-Chloroethoxy)methane	1800.	U	370.	U	720.	U			
120-83-2	2,4-Dichlorophenol	1800.	U	370.	U	720.	U			
120-82-1	1,2,4-Trichlorobenzene	1800.	U	370.	U	720.	U			
91-20-3	Naphthalene	1700.	J	370.	U	700.	J			
106-47-8	4-Chloroaniline	1800.	U	370.	U	720.	U			
87-68-3	Hexachlorobutadiene	1800.	U	370.	U	720.	U			
59-50-7	4-Chloro-3-methylphenol	1800.	U	370.	U	720.	U			
91-57-6	2-Methylnaphthalene	6800.		370.	U	890.	J			
77-47-4	Hexachlorocyclopentadiene	1800.	U	370.	U	720.	U			
88-06-2	2,4,6-Trichlorophenol	1800.	U	370.	U	720.	U			
95-95-4	2,4,5-Trichlorophenol	8900.	U	1800.	U	3500.	U			
91-58-7	2-Chloronaphthalene	1800.	U	370.	U	720.	U			
88-74-4	2-Nitroaniline	8900.	U	1800.	U	3500.	U			
131-11-3	Dimethyl phthalate	1800.	U	370.	U	720.	U			
208-96-8	Acenaphthylene	1800.	U	370.	U	720.	U			
606-20-2	2,6-Dinitrotoluene	1800.	U	370.	U	720.	U			
99-09-2	3-Nitroaniline	8900.	U	1800.	U	3500.	U			
83-32-9	Acenaphthene	1800.	U	370.	U	200.	J			
51-28-5	2,4-Dinitrophenol	8900.	U	1800.	U	3500.	U			

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

SW846-SVOA	SAMPLE ID ------->	FDS-S-H023-01	FDS-S-H024-01	FDS-S-H026-01
	ORIGINAL ID ----->	FDSSH02301	FDSSH02401	FDSSH02601
	LAB SAMPLE ID --->	27355.10	27377.09	27377.06
	ID FROM REPORT -->	FDSSH02301	FDSSH02401	FDSSH02601
	SAMPLE DATE ----->	10/17/96	10/21/96	10/21/96
	DATE EXTRACTED -->	10/20/96	10/22/96	10/22/96
	DATE ANALYZED --->	11/01/96	11/05/96	11/06/96
	MATRIX ---------->	Soil	Soil	Soil
	UNITS ---------->	UG/KG	UG/KG	UG/KG

CAS #	Parameter	27339	VAL	27377	VAL	27377	VAL
100-02-7	4-Nitrophenol	8900.	U	1800.	U	3500.	U
132-64-9	Dibenzofuran	1800.	U	370.	U	720.	U
121-14-2	2,4-Dinitrotoluene	1800.	U	370.	U	720.	U
84-66-2	Diethylphthalate	1800.	U	370.	U	720.	U
7005-72-3	4-Chlorophenylphenylether	1800.	U	370.	U	720.	U
86-73-7	Fluorene	1900.		370.	U	190.	J
100-01-6	4-Nitroaniline	8900.	U	1800.	U	3500.	U
534-52-1	2-Methyl-4,6-Dinitrophenol	8900.	U	1800.	U	3500.	UJ
86-30-6	N-Nitrosodiphenylamine	1800.	U	370.	U	720.	UJ
101-55-3	4-Bromophenyl-phenylether	1800.	U	370.	U	720.	UJ
118-74-1	Hexachlorobenzene	1800.	U	370.	U	720.	UJ
87-86-5	Pentachlorophenol	8900.	U	1800.	U	3500.	UJ
85-01-8	Phenanthrene	1900.		370.	U	2500.	J
120-12-7	Anthracene	1800.	U	370.	U	640.	J
84-74-2	Di-n-butylphthalate	1800.	U	64.	J	720.	UJ
206-44-0	Fluoranthene	1800.	U	74.	J	3400.	J
129-00-0	Pyrene	590.	J	96.	J	7500.	J
85-68-7	Butylbenzylphthalate	1800.	U	370.	U	720.	UJ
91-94-1	3,3'-Dichlorobenzidine	3700.	U	730.	U	1400.	UJ
56-55-3	Benzo(a)anthracene	1800.	U	38.	J	2500.	J
218-01-9	Chrysene	240.	J	57.	J	3200.	J
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	1800.	U	55.	J	720.	UJ
117-84-0	Di-n-octyl phthalate	1800.	U	370.	UJ	720.	UJ
205-99-2	Benzo(b)fluoranthene	1800.	U	51.	J	1600.	J
207-08-9	Benzo(k)fluoranthene	1800.	U	58.	J	1700.	J
50-32-8	Benzo(a)pyrene	1800.	U	42.	J	1700.	J
193-39-5	Indeno(1,2,3-cd)pyrene	1800.	U	370.	UJ	810.	J
53-70-3	Dibenz(a,h)anthracene	1800.	U	370.	UJ	290.	J
191-24-2	Benzo(g,h,i)perylene	1800.	U	370.	UJ	860.	J

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

SW846-VOA													
	SAMPLE ID ------>	FDS-S-C002-01		FDS-S-C011-01		FDS-S-C012-01		FDS-S-C013-01		FDS-S-C014-01		FDS-S-C016-01 RE	
	ORIGINAL ID ----->	FDSSC00201		FDSSC01101		FDSSC01201		FDSSC01301		FDSSC01401		FDSSC01601	
	LAB SAMPLE ID --->	27869.01		27869.02		27869.05		27869.06		27869.07		27869.08	
	ID FROM REPORT -->	FDSSC00201		FDSSC01101		FDSSC01201		FDSSC01301		FDSSC01401		FDSSC01601	
	SAMPLE DATE ----->	12/04/96		12/04/96		12/04/96		12/04/96		12/05/96		12/04/96	
	DATE ANALYZED --->	12/13/96		12/13/96		12/13/96		12/12/96		12/12/96		12/13/96	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	27869	VAL	27869	VAL	27869	VAL	27869	VAL	27869	VAL	27869	VAL
74-87-3	Chloromethane	13.	U	16.	U	100.	U	17.	UJ	16.	UJ	24.	U
74-83-9	Bromomethane	13.	U	16.	U	100.	U	17.	UJ	16.	UJ	24.	U
75-01-4	Vinyl chloride	13.	U	16.	U	100.	U	17.	UJ	16.	UJ	24.	U
75-00-3	Chloroethane	13.	U	16.	U	100.	U	17.	UJ	16.	UJ	24.	U
75-09-2	Methylene chloride	6.	U	26.	U	52.	U	16.	U	17.	U	12.	U
67-64-1	Acetone	25.	U	22.	U	10.	U	390.	U	390.	U	410.	U
75-15-0	Carbon disulfide	4.	J	8.	U	52.	U	7.	J	5.	J	7.	J
75-35-4	1,1-Dichloroethene	6.	U	8.	U	52.	U	8.	UJ	8.	UJ	12.	U
75-34-3	1,1-Dichloroethane	6.	U	8.	U	52.	U	8.	UJ	8.	UJ	12.	U
540-59-0	1,2-Dichloroethene (total)	6.	U	8.	U	52.	U	8.	UJ	8.	UJ	12.	U
67-66-3	Chloroform	6.	U	8.	U	52.	U	8.	UJ	8.	UJ	12.	U
107-06-2	1,2-Dichloroethane	6.	U	8.	U	52.	U	8.	UJ	8.	UJ	12.	U
78-93-3	2-Butanone (MEK)	13.	U	16.	U	100.	U	87.	UJ	99.	U	12.	U
71-55-6	1,1,1-Trichloroethane	6.	U	8.	U	52.	U	8.	UJ	8.	UJ	12.	U
56-23-5	Carbon tetrachloride	6.	U	8.	U	52.	U	8.	UJ	8.	UJ	12.	U
75-27-4	Bromodichloromethane	6.	U	8.	U	52.	U	8.	UJ	8.	UJ	12.	U
78-87-5	1,2-Dichloropropane	6.	U	8.	U	52.	U	8.	UJ	8.	UJ	12.	U
10061-01-5	cis-1,3-Dichloropropene	6.	U	8.	U	52.	U	8.	UJ	8.	UJ	12.	U
79-01-6	Trichloroethene	6.	U	8.	U	52.	U	8.	UJ	8.	UJ	12.	U
124-48-1	Dibromochloromethane	6.	U	8.	U	52.	U	8.	UJ	8.	UJ	12.	U
79-00-5	1,1,2-Trichloroethane	6.	U	8.	U	52.	U	8.	UJ	8.	UJ	12.	U
71-43-2	Benzene	6.	U	8.	U	100.		8.	UJ	8.	UJ	12.	U
10061-02-6	trans-1,3-Dichloropropene	6.	U	8.	U	52.	U	8.	UJ	8.	UJ	12.	U
75-25-2	Bromoform	6.	U	8.	U	52.	U	8.	UJ	8.	UJ	12.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	13.	U	16.	U	100.	U	17.	UJ	16.	UJ	24.	UJ
591-78-6	2-Hexanone	13.	U	16.	U	100.	U	17.	UJ	16.	UJ	24.	UJ
127-18-4	Tetrachloroethene	6.	U	8.	U	52.	U	8.	UJ	8.	UJ	12.	UJ
79-34-5	1,1,2,2-Tetrachloroethane	6.	U	8.	U	52.	U	8.	UJ	8.	UJ	12.	UJ
108-88-3	Toluene	7.		8.	U	430.		15.	J	17.	J	12.	UJ
108-90-7	Chlorobenzene	6.	U	8.	U	52.	U	8.	UJ	8.	UJ	12.	UJ
100-41-4	Ethylbenzene	4.	J	8.	U	740.		8.	UJ	8.	UJ	12.	UJ
100-42-5	Styrene	6.	U	8.	U	52.	U	8.	UJ	8.	UJ	12.	UJ
1330-20-7	Xylene (Total)	36.		8.	U	3700.		2.	J	8.	UJ	12.	UJ
108-05-4	Vinyl acetate	13.	U	16.	U	100.	U	17.	UJ	16.	UJ	24.	UJ
110-75-8	2-Chloroethyl vinyl ether	13.	UJ	16.	UJ	100.	UJ	17.	UJ	16.	UJ	24.	UJ

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

SW846-VOA	SAMPLE ID ------>	FDS-S-C030-01	FDS-S-C051-01	FDS-S-C055-01	FDS-S-C058-01	FDS-S-C062-01	FDS-S-C065-01
	ORIGINAL ID ----->	FDSSC03001	FDSSC05101	FDSSC05501	FDSSC05801	FDSSC06201	FDSSC06501
	LAB SAMPLE ID --->	27869.09	28157.01	27869.10	27065.10	27934.01	27090.19
	ID FROM REPORT -->	FDSSC03001	FDSSC05101	FDSSC05501	FDSSC05801	FDSSC06201	FDSSC06501
	SAMPLE DATE ----->	12/04/96	01/13/97	12/05/96	09/24/96	12/10/96	09/25/96
	DATE ANALYZED --->	12/13/96	01/15/97	12/12/96	09/27/96	12/17/96	10/03/96
	MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
	UNITS ---------->	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG

CAS #	Parameter	27869	VAL	28134	VAL	27869	VAL	27065	VAL	27934	VAL	27090	VAL
74-87-3	Chloromethane	21.	U	12.	U	12.	U	14.	U	12.	U	17.	U
74-83-9	Bromomethane	21.	U	12.	U	12.	U	14.	U	12.	U	17.	U
75-01-4	Vinyl chloride	21.	U	12.	U	12.	U	14.	U	12.	U	17.	U
75-00-3	Chloroethane	21.	U	12.	U	12.	U	14.	U	12.	U	17.	U
75-09-2	Methylene chloride	11.	U	6.	U	10.	U	7.	U	5.	U	8.	U
67-64-1	Acetone	1700.	U	94.	UJ	140.	U	100.	U	18.	U	92.	U
75-15-0	Carbon disulfide	11.	U	6.	U	6.	U	7.	U	6.	U	8.	U
75-35-4	1,1-Dichloroethene	11.	U	6.	U	6.	U	7.	U	6.	U	8.	U
75-34-3	1,1-Dichloroethane	11.	U	6.	U	6.	U	7.	U	6.	U	8.	U
540-59-0	1,2-Dichloroethene (total)	11.	U	6.	U	6.	U	7.	U	6.	U	8.	U
67-66-3	Chloroform	11.	U	6.	U	6.	U	7.	U	6.	U	8.	U
107-06-2	1,2-Dichloroethane	11.	U	6.	U	6.	U	7.	U	6.	U	8.	U
78-93-3	2-Butanone (MEK)	22.	U	12.	U	12.	U	14.	U	12.	U	14.	U
71-55-6	1,1,1-Trichloroethane	11.	U	6.	U	6.	U	7.	U	6.	U	8.	U
56-23-5	Carbon tetrachloride	11.	U	6.	U	6.	U	7.	U	6.	U	8.	U
75-27-4	Bromodichloromethane	11.	U	6.	U	6.	U	7.	U	6.	U	8.	U
78-87-5	1,2-Dichloropropane	11.	U	6.	U	6.	U	7.	U	6.	U	8.	U
10061-01-5	cis-1,3-Dichloropropene	11.	U	6.	U	6.	U	7.	U	6.	U	8.	U
79-01-6	Trichloroethene	11.	U	6.	U	6.	U	7.	U	6.	U	8.	U
124-48-1	Dibromochloromethane	11.	U	6.	U	6.	U	7.	U	6.	U	8.	U
79-00-5	1,1,2-Trichloroethane	11.	U	6.	U	6.	U	7.	U	6.	U	8.	U
71-43-2	Benzene	11.	U	6.	U	6.	U	7.	U	6.	U	8.	U
10061-02-6	trans-1,3-Dichloropropene	11.	U	6.	U	6.	U	7.	U	6.	U	8.	U
75-25-2	Bromoform	11.	U	6.	U	6.	U	7.	U	6.	U	8.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	21.	U	12.	U	12.	U	14.	U	12.	U	17.	U
591-78-6	2-Hexanone	21.	U	12.	U	12.	U	14.	U	12.	U	17.	U
127-18-4	Tetrachloroethene	11.	U	6.	U	6.	U	7.	U	6.	U	8.	U
79-34-5	1,1,2,2-Tetrachloroethane	11.	U	6.	U	6.	U	7.	U	6.	U	8.	U
108-88-3	Toluene	11.	U	6.	U	2.	J	7.	U	67.		47.	
108-90-7	Chlorobenzene	11.	U	6.	U	6.	U	7.	U	6.	U	8.	U
100-41-4	Ethylbenzene	11.	U	6.	U	6.	U	7.	U	6.	U	8.	U
100-42-5	Styrene	11.	U	6.	U	6.	U	7.	U	6.	U	8.	U
1330-20-7	Xylene (Total)	11.	U	6.	U	6.	U	7.	U	6.	U	8.	U
108-05-4	Vinyl acetate	21.	U	12.	U	12.	U	14.	U	12.	U	17.	UJ
110-75-8	2-Chloroethyl vinyl ether	21.	UJ	12.	U	12.	U	14.	U	12.	U	17.	UR

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

SW846-VOA													
	SAMPLE ID ------->	FDS-S-C066-01		FDS-S-C067-01		FDS-S-C084-01		FDS-S-C094-01		FDS-S-C114-01		FDS-S-C47A-01	
	ORIGINAL ID ----->	FDSSC06601		FDSSC06701		FDSSC08401		FDSSC09401		FDSSC11401		FDSSC47A01	
	LAB SAMPLE ID --->	27869.11		27869.12		27178.21		27212.07		27869.14		27065.12	
	ID FROM REPORT -->	FDSSC06601		FDSSC06701		FDSSC08401		FDSSC09401		FDSSC11401		FDSSC47A01	
	SAMPLE DATE ----->	12/04/96		12/04/96		10/02/96		10/03/96		12/05/96		09/24/96	
	DATE ANALYZED --->	12/13/96		12/13/96		10/14/96		10/13/96		12/13/96		09/27/96	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	27869	VAL	27869	VAL	27178	VAL	27212	VAL	27869	VAL	27065	VAL
74-87-3	Chloromethane	14.	U	68.	U	12.	U	12.	U	14.	U	13.	U
74-83-9	Bromomethane	14.	U	68.	U	12.	U	12.	U	14.	U	13.	U
75-01-4	Vinyl chloride	14.	U	68.	U	12.	U	12.	U	14.	U	13.	U
75-00-3	Chloroethane	14.	U	68.	U	12.	U	12.	U	14.	U	13.	U
75-09-2	Methylene chloride	16.	U	34.	U	6.	U	10.	U	16.	U	7.	U
67-64-1	Acetone	14.	U	420.	U	110.	U	34.	U	13000.	U	33.	U
75-15-0	Carbon disulfide	2.	J	34.	U	6.	U	6.	U	7.	U	7.	U
75-35-4	1,1-Dichloroethene	7.	U	34.	U	6.	U	6.	U	7.	U	7.	U
75-34-3	1,1-Dichloroethane	7.	U	34.	U	6.	U	6.	U	7.	U	7.	U
540-59-0	1,2-Dichloroethene (total)	7.	U	34.	U	6.	U	6.	U	7.	U	7.	U
67-66-3	Chloroform	7.	U	34.	U	6.	U	6.	U	7.	U	7.	U
107-06-2	1,2-Dichloroethane	7.	U	34.	U	6.	U	6.	U	7.	U	7.	U
78-93-3	2-Butanone (MEK)	14.	U	68.	U	6.	U	12.	U	3.	U	13.	U
71-55-6	1,1,1-Trichloroethane	7.	U	34.	U	6.	U	6.	U	7.	U	7.	U
56-23-5	Carbon tetrachloride	7.	U	34.	U	6.	U	6.	U	7.	U	7.	U
75-27-4	Bromodichloromethane	7.	U	34.	U	6.	U	6.	U	7.	U	7.	U
78-87-5	1,2-Dichloropropane	7.	U	34.	U	6.	U	6.	U	7.	U	7.	U
10061-01-5	cis-1,3-Dichloropropene	7.	U	34.	U	6.	U	6.	U	7.	U	7.	U
79-01-6	Trichloroethene	7.	U	34.	U	6.	U	6.	U	7.	U	7.	U
124-48-1	Dibromochloromethane	7.	U	34.	U	6.	U	6.	U	7.	U	7.	U
79-00-5	1,1,2-Trichloroethane	7.	U	34.	U	6.	U	6.	U	7.	U	7.	U
71-43-2	Benzene	7.	U	34.	U	6.	U	6.	U	7.	U	7.	U
10061-02-6	trans-1,3-Dichloropropene	7.	U	34.	U	6.	U	6.	U	7.	U	7.	U
75-25-2	Bromoform	7.	U	34.	U	6.	U	6.	U	7.	U	7.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	14.	U	68.	U	12.	U	2.	J	14.	U	13.	U
591-78-6	2-Hexanone	14.	U	68.	U	12.	U	12.	U	14.	U	13.	U
127-18-4	Tetrachloroethene	7.	U	34.	U	6.	U	6.	U	7.	U	7.	U
79-34-5	1,1,2,2-Tetrachloroethane	7.	U	34.	U	6.	U	6.	U	7.	U	7.	U
108-88-3	Toluene	4.	J	34.	UJ	6.	U	6.	U	7.	U	4.	J
108-90-7	Chlorobenzene	7.	U	34.	U	6.	U	6.	U	7.	U	7.	U
100-41-4	Ethylbenzene	7.	U	34.	U	6.	U	6.	U	7.	U	7.	U
100-42-5	Styrene	7.	U	34.	U	6.	U	6.	U	7.	U	7.	U
1330-20-7	Xylene (Total)	45.		34.	U	6.	U	6.	U	7.	U	7.	U
108-05-4	Vinyl acetate	14.	U	68.	U	12.	U	12.	U	14.	U	13.	U
110-75-8	2-Chloroethyl vinyl ether	14.	UJ	68.	UJ	12.	UJ	12.	U	14.	UJ	13.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

SW846-VOA											
	SAMPLE ID ------>	FDS-S-H023-01		FDS-S-H024-01		FDS-S-H026-01					
	ORIGINAL ID ----->	FDSSH02301		FDSSH02401		FDSSH02601					
	LAB SAMPLE ID --->	27355.10		27377.09		27377.06					
	ID FROM REPORT -->	FDSSH02301		FDSSH02401		FDSSH02601					
	SAMPLE DATE ----->	10/17/96		10/21/96		10/21/96					
	DATE ANALYZED --->	10/22/96		10/30/96		10/30/96					
	MATRIX ---------->	Soil		Soil		Soil					
	UNITS ----------->	UG/KG		UG/KG		UG/KG					
CAS #	Parameter	27339	VAL	27377	VAL	27377	VAL				
74-87-3	Chloromethane	56.	U	11.	U	11.	U				
74-83-9	Bromomethane	56.	U	11.	U	11.	U				
75-01-4	Vinyl chloride	56.	U	11.	U	11.	U				
75-00-3	Chloroethane	56.	U	11.	U	11.	U				
75-09-2	Methylene chloride	28.	U	6.	U	5.	U				
67-64-1	Acetone	56.	U	69.	U	23.	U				
75-15-0	Carbon disulfide	28.	U	6.	U	5.	U				
75-35-4	1,1-Dichloroethene	28.	U	6.	U	5.	U				
75-34-3	1,1-Dichloroethane	85.	J	6.	U	5.	U				
540-59-0	1,2-Dichloroethene (total)	28.	U	6.	U	5.	U				
67-66-3	Chloroform	28.	U	6.	U	5.	U				
107-06-2	1,2-Dichloroethane	28.	U	6.	U	5.	U				
78-93-3	2-Butanone (MEK)	56.	U	13.	U	11.	U				
71-55-6	1,1,1-Trichloroethane	48.	J	6.	U	5.	U				
56-23-5	Carbon tetrachloride	28.	U	6.	U	5.	U				
75-27-4	Bromodichloromethane	28.	U	6.	U	5.	U				
78-87-5	1,2-Dichloropropane	28.	U	6.	U	5.	U				
10061-01-5	cis-1,3-Dichloropropene	28.	U	6.	U	5.	U				
79-01-6	Trichloroethene	28.	U	6.	U	5.	U				
124-48-1	Dibromochloromethane	28.	U	6.	U	5.	U				
79-00-5	1,1,2-Trichloroethane	28.	U	6.	U	5.	U				
71-43-2	Benzene	28.	U	6.	U	5.	U				
10061-02-6	trans-1,3-Dichloropropene	28.	U	6.	U	5.	U				
75-25-2	Bromoform	28.	U	6.	U	5.	U				
108-10-1	4-Methyl-2-Pentanone (MIBK)	56.	U	11.	U	11.	U				
591-78-6	2-Hexanone	56.	UJ	11.	U	11.	U				
127-18-4	Tetrachloroethene	13.	J	6.	U	5.	U				
79-34-5	1,1,2,2-Tetrachloroethane	28.	UJ	6.	U	5.	U				
108-88-3	Toluene	22.	J	6.	U	5.	U				
108-90-7	Chlorobenzene	28.	UJ	6.	U	5.	U				
100-41-4	Ethylbenzene	130.	J	6.	U	3.	J				
100-42-5	Styrene	28.	UJ	6.	U	5.	U				
1330-20-7	Xylene (Total)	1800.	J	6.	U	1.	J				
108-05-4	Vinyl acetate	56.	UJ	11.	U	11.	U				
110-75-8	2-Chloroethyl vinyl ether	56.	UR	11.	U	11.	U				

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

TPH-DRO													
	SAMPLE ID ------>	FDS-S-C001-01		FDS-S-C002-01		FDS-S-C003-01		FDS-S-C004-01		FDS-S-C005-01		FDS-S-C006-01	
	ORIGINAL ID ----->	FDSSC00101		FDSSC00201		FDSSC00301		FDSSC00401		FDSSC00501		FDSSC00601	
	LAB SAMPLE ID --->	26915.10		26915.11		26915.12		26915.13		26915.14		26915.15	
	ID FROM REPORT -->	FDSSC00101		FDSSC00201		FDSSC00301		FDSSC00401		FDSSC00501		FDSSC00601	
	SAMPLE DATE ----->	09/12/96		09/12/96		09/12/96		09/12/96		09/12/96		09/12/96	
	DATE EXTRACTED -->	09/19/96		09/19/96		09/19/96		09/19/96		09/19/96		09/19/96	
	DATE ANALYZED --->	09/25/96		09/25/96		09/25/96		09/25/96		09/25/96		09/25/96	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	MG/KG		MG/KG		MG/KG		MG/KG		MG/KG		MG/KG	
CAS #	Parameter	26915	VAL	26915	VAL	26915	VAL	26915	VAL	26915	VAL	26915	VAL
68334-30-5	Diesel	2.65	U	62.6	U	2.63	U	2.43	U	2.04	U	2.47	U
8008-20-6	Kerosene	2.65	U	62.6	U	2.63	U	2.43	U	2.04	U	2.47	U
9999000-35-1	JP-4 C6-C14	2.65	U	62.6	U	2.63	U	2.43	U	2.04	U	2.47	U
9999000-48-6	NAPHTHA C6-C12	2.65	U	62.6	U	2.63	U	2.43	U	2.04	U	2.47	U
68553-00-4	Fuel oil no. 6	2.65	U	62.6	U	2.63	U	2.43	U	2.04	U	2.47	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

TPH-DRO							
SAMPLE ID ------->	FDS-S-C007-01	FDS-S-C008-01	FDS-S-C009-01	FDS-S-C010-01	FDS-S-C011-01	FDS-C-C011-01
ORIGINAL ID ----->	FDSSC00701	FDSSC00801	FDSSC00901	FDSSC01001	FDSSC01101	FDSCC01101
LAB SAMPLE ID --->	26915.16	26938.09	26938.10	26958.05	26958.06	26959.01
ID FROM REPORT -->	FDSSC00701	FDSSC00801	FDSSC00901	FDSSC01001	FDSSC01101	FDSCC01101
SAMPLE DATE ----->	09/12/96	09/13/96	09/13/96	09/16/96	09/16/96	09/13/96
DATE EXTRACTED -->	09/19/96	09/19/96	09/19/96	09/19/96	09/19/96	09/19/96
DATE ANALYZED --->	09/25/96	09/25/96	09/25/96	09/27/96	09/27/96	09/27/96
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
UNITS ---------->	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG

CAS #	Parameter	26915	VAL	26938	VAL	26938	VAL	26938	VAL	26938	VAL	26938	VAL
68334-30-5	Diesel	2.82	U	2.75	U	2.45	U	2.51	U	3.16	U	3.18	U
8008-20-6	Kerosene	2.82	U	2.75	U	2.45	U	2.51	U	3.16	U	3.18	U
9999000-35-1	JP-4 C6-C14	2.82	U	2.75	U	2.45	U	2.51	U	3.16	U	3.18	U
9999000-48-6	NAPHTHA C6-C12	2.82	U	2.75	U	2.45	U	2.51	U	3.16	U	3.18	U
68553-00-4	Fuel oil no. 6	2.82	U	2.75	U	2.45	U	2.51	U	3.16	U	3.18	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

TPH-DRO													
	SAMPLE ID ------>	FDS-S-C012-01		FDS-S-C013-01		FDS-S-C014-01		FDS-S-C015-01		FDS-S-C016-01		FDS-S-C017-01	
	ORIGINAL ID ----->	FDSSC01201		FDSSC01301		FDSSC01401		FDSSC01501		FDSSC01601		FDSSC01701	
	LAB SAMPLE ID --->	26989.01		26958.07		26958.08		26989.02		26958.09		26989.03	
	ID FROM REPORT -->	FDSSC01201		FDSSC01301		FDSSC01401		FDSSC01501		FDSSC01601		FDSSC01701	
	SAMPLE DATE ----->	09/17/96		09/16/96		09/16/96		09/17/96		09/16/96		09/17/96	
	DATE EXTRACTED -->	09/24/96		09/19/96		09/19/96		09/24/96		09/19/96		09/24/96	
	DATE ANALYZED --->	10/01/96		09/27/96		09/27/96		10/01/96		09/27/96		10/03/96	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	MG/KG		MG/KG		MG/KG		MG/KG		MG/KG		MG/KG	
CAS #	Parameter	26988	VAL	26938	VAL	26938	VAL	26988	VAL	26938	VAL	26988	VAL
68334-30-5	Diesel	140.	U	2.74	U	2.46	U	2.35	U	4.49	U	3.48	U
8008-20-6	Kerosene	140.	U	2.74	U	2.46	U	2.35	U	4.49	U	3.48	U
9999000-35-1	JP-4 C6-C14	140.	U	2.74	U	2.46	U	2.35	U	4.49	U	3.48	U
9999000-48-6	NAPHTHA C6-C12	140.	U	2.74	U	2.46	U	2.35	U	4.49	U	3.48	U
68553-00-4	Fuel oil no. 6	140.	U	2.74	U	2.46	U	2.35	U	4.49	U	3.48	U

*** Validatio.. Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

TPH-DRO						
SAMPLE ID ------->	FDS-S-C018-01	FDS-S-C019-01	FDS-C-C019-01	FDS-S-C020-01	FDS-S-C021-01	FDS-S-C022-01
ORIGINAL ID ----->	FDSSC01801	FDSSC01901	FDSCC01901	FDSSC02001	FDSSC02101	FDSSC02201
LAB SAMPLE ID --->	26997.18	26989.06	26988.01	26989.07	26989.08	26997.17
ID FROM REPORT -->	FDSSC01801	FDSSC01901	FDSCC01901	FDSSC02001	FDSSC02101	FDSSC02201
SAMPLE DATE ----->	09/18/96	09/17/96	09/17/96	09/17/96	09/17/96	09/18/96
DATE EXTRACTED -->	09/24/96	09/24/96	09/24/96	09/24/96	09/24/96	09/24/96
DATE ANALYZED --->	10/01/96	10/01/96	10/01/96	10/01/96	10/01/96	10/01/96
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
UNITS ---------->	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG

CAS #	Parameter	26997	VAL	26988	VAL	26988	VAL	26988	VAL	26988	VAL	26997	VAL
68334-30-5	Diesel	3.36	U	3.49	U	3.37	U	3.79	U	2.43	U	3.3	U
8008-20-6	Kerosene	3.36	U	3.49	U	3.37	U	3.79	U	2.43	U	3.3	U
9999000-35-1	JP-4 C6-C14	3.36	U	3.49	U	3.37	U	3.79	U	2.43	U	3.3	U
9999000-48-6	NAPHTHA C6-C12	3.36	U	3.49	U	3.37	U	3.79	U	2.43	U	3.3	U
68553-00-4	Fuel oil no. 6	3.36	U	3.49	U	3.37	U	3.79	U	2.43	U	3.3	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

TPH-DRO						
SAMPLE ID ------>	FDS-S-C023-01	FDS-S-C024-01	FDS-S-C025-01	FDS-S-C026-01	FDS-S-C027-01	FDS-S-C028-01
ORIGINAL ID ----->	FDSSC02301	FDSSC02401	FDSSC02501	FDSSC02601	FDSSC02701	FDSSC02801
LAB SAMPLE ID --->	26997.15	26989.11	26997.16	26997.14	26997.19	26997.20
ID FROM REPORT -->	FDSSC02301	FDSSC02401	FDSSC02501	FDSSC02601	FDSSC02701	FDSSC02801
SAMPLE DATE ----->	09/18/96	09/17/96	09/18/96	09/18/96	09/18/96	09/18/96
DATE EXTRACTED -->	09/24/96	09/24/96	09/24/96	09/24/96	09/24/96	09/24/96
DATE ANALYZED --->	10/01/96	10/01/96	10/01/96	10/01/96	10/01/96	10/01/96
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
UNITS ---------->	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG

CAS #	Parameter	26997	VAL	26988	VAL	26997	VAL	26997	VAL	26997	VAL	26997	VAL
68334-30-5	Diesel	2.74	U	3.63	U	2.49	U	5.14	U	30.2		3.58	U
8008-20-6	Kerosene	2.74	U	3.63	U	2.49	U	5.14	U	2.88	U	3.58	U
9999000-35-1	JP-4 C6-C14	2.74	U	3.63	U	2.49	U	5.14	U	2.88	U	3.58	U
9999000-48-6	NAPHTHA C6-C12	2.74	U	3.63	U	2.49	U	5.14	U	2.88	U	3.58	U
68553-00-4	Fuel oil no. 6	2.74	U	3.63	U	2.49	U	5.14	U	2.88	U	3.58	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

TPH-DRO													
	SAMPLE ID ------->	FDS-C-C028-01		FDS-S-C029-01		FDS-S-C030-01		FDS-S-C031-01		FDS-S-C032-01		FDS-S-C033-01	
	ORIGINAL ID ----->	FDSCC02801		FDSSC02901		FDSSC03001		FDSSC03101		FDSSC03201		FDSSC03301	
	LAB SAMPLE ID --->	26998.02		26997.21		27016.13		27016.12		27016.16		27016.14	
	ID FROM REPORT -->	FDSCC02801		FDSSC02901		FDSSC03001		FDSSC03101		FDSSC03201		FDSSC03301	
	SAMPLE DATE ----->	09/18/96		09/18/96		09/19/96		09/19/96		09/19/96		09/19/96	
	DATE EXTRACTED -->	09/24/96		09/24/96		09/24/96		09/24/96		09/24/96		09/24/96	
	DATE ANALYZED --->	10/01/96		10/01/96		10/01/96		10/01/96		10/02/96		10/01/96	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ----------->	MG/KG		MG/KG		MG/KG		MG/KG		MG/KG		MG/KG	
CAS #	Parameter	26997	VAL	26997	VAL	27016	VAL	27016	VAL	27016	VAL	27016	VAL
68334-30-5	Diesel	3.76	U	2.46	U	102.		2.43	U	2.33	U	3.26	U
8008-20-6	Kerosene	3.76	U	2.46	U	2.87	U	2.43	U	2.33	U	3.26	U
9999000-35-1	JP-4 C6-C14	3.76	U	2.46	U	2.87	U	2.43	U	2.33	U	3.26	U
9999000-48-6	NAPHTHA C6-C12	3.76	U	2.46	U	2.87	U	2.43	U	2.33	U	3.26	U
68553-00-4	Fuel oil no. 6	3.76	U	2.46	U	2.87	U	2.43	U	2.33	U	3.26	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

TPH-DRO	SAMPLE ID ------->	FDS-S-C034-01	FDS-S-C035-01	FDS-S-C036-01	FDS-S-C036-02	FDS-S-C037-01	FDS-S-C037-02
	ORIGINAL ID ----->	FDSSC03401	FDSSC03501	FDSSC03601	FDSSC03602	FDSSC03701	FDSSC03702
	LAB SAMPLE ID --->	27016.15	27016.17	27016.18	27016.19	27034.08	27034.09
	ID FROM REPORT -->	FDSSC03401	FDSSC03501	FDSSC03601	FDSSC03602	FDSSC03701	FDSSC03702
	SAMPLE DATE ----->	09/19/96	09/19/96	09/19/96	09/19/96	09/20/96	09/20/96
	DATE EXTRACTED -->	09/24/96	09/24/96	09/24/96	09/24/96	09/24/96	09/24/96
	DATE ANALYZED --->	10/01/96	10/01/96	10/02/96	10/02/96	10/02/96	10/02/96
	MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
	UNITS ----------->	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG

CAS #	Parameter	27016	VAL	27016	VAL	27016	VAL	27016	VAL	27034	VAL	27034	VAL
68334-30-5	Diesel	2.39	U	2.67	U	2.85	U	3.77	U	2.69	U	4.18	U
8008-20-6	Kerosene	2.39	U	2.67	U	2.85	U	3.77	U	2.69	U	4.18	U
9999000-35-1	JP-4 C6-C14	2.39	U	2.67	U	2.85	U	3.77	U	2.69	U	4.18	U
9999000-48-6	NAPHTHA C6-C12	2.39	U	2.67	U	2.85	U	3.77	U	2.69	U	4.18	U
68553-00-4	Fuel oil no. 6	2.39	U	2.67	U	2.85	U	3.77	U	2.69	U	4.18	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

TPH-DRO						
SAMPLE ID ------>	FDS-S-C038-01	FDS-S-C038-02	FDS-S-C039-01	FDS-S-C039-02	FDS-S-C040-01	FDS-S-C040-02
ORIGINAL ID ----->	FDSSC03801	FDSSC03802	FDSSC03901	FDSSC03902	FDSSC04001	FDSSC04002
LAB SAMPLE ID --->	27034.14	27034.15	27034.12	27034.13	27034.10	27034.11
ID FROM REPORT -->	FDSSC03801	FDSSC03802	FDSSC03901	FDSSC03902	FDSSC04001	FDSSC04002
SAMPLE DATE ----->	09/20/96	09/20/96	09/20/96	09/20/96	09/20/96	09/20/96
DATE EXTRACTED -->	09/24/96	09/24/96	09/24/96	09/24/96	09/24/96	09/24/96
DATE ANALYZED --->	10/02/96	10/02/96	10/02/96	10/02/96	10/02/96	10/02/96
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
UNITS ----------->	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG

CAS #	Parameter	27034	VAL	27034	VAL	27034	VAL	27034	VAL	27034	VAL	27034	VAL
68334-30-5	Diesel	4.52	U	4.33	U	3.05	U	2.81	U	2.66	U	4.42	U
8008-20-6	Kerosene	4.52	U	4.33	U	3.05	U	2.81	U	2.66	U	4.42	U
9999000-35-1	JP-4 C6-C14	4.52	U	4.33	U	3.05	U	2.81	U	2.66	U	4.42	U
9999000-48-6	NAPHTHA C6-C12	4.52	U	4.33	U	3.05	U	2.81	U	2.66	U	4.42	U
68553-00-4	Fuel oil no. 6	4.52	U	4.33	U	3.05	U	2.81	U	2.66	U	4.42	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

TPH-DRO						
SAMPLE ID ------->	FDS-C-C040-02	FDS-S-C041-01	FDS-S-C041-02	FDS-S-C042-01	FDS-S-C042-02	FDS-S-C043-01
ORIGINAL ID ----->	FDSCC04002	FDSSC04101	FDSSC04102	FDSSC04201	FDSSC04202	FDSSC04301
LAB SAMPLE ID --->	27035.01	27034.16	27034.17	27045.01	27045.02	27045.03
ID FROM REPORT -->	FDSCC04002	FDSSC04101	FDSSC04102	FDSSC04201	FDSSC04202	FDSSC04301
SAMPLE DATE ----->	09/20/96	09/20/96	09/20/96	09/22/96	09/22/96	09/22/96
DATE EXTRACTED -->	09/24/96	09/24/96	09/24/96	09/30/96	09/30/96	09/30/96
DATE ANALYZED --->	10/02/96	10/02/96	10/02/96	10/10/96	10/10/96	10/10/96
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
UNITS ----------->	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG

CAS #	Parameter	27034	VAL	27034	VAL	27034	VAL	27045	VAL	27045	VAL	27045	VAL
68334-30-5	Diesel	4.42	U	2.89	U	4.24	U	2.66	U	2.53	U	2.55	U
8008-20-6	Kerosene	4.42	U	2.89	U	4.24	U	2.66	U	2.53	U	2.55	U
9999000-35-1	JP-4 C6-C14	4.42	U	2.89	U	4.24	U	2.66	U	2.53	U	2.55	U
9999000-48-6	NAPHTHA C6-C12	4.42	U	2.89	U	4.24	U	2.66	U	2.53	U	2.55	U
68553-00-4	Fuel oil no. 6	4.42	U	2.89	U	4.24	U	2.66	U	2.53	U	2.55	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

TPH-DRO							
SAMPLE ID ------>	FDS-S-C044-01	FDS-S-C045-01	FDS-S-C046-01	FDS-S-C047-01	FDS-S-C048-01	FDS-S-C049-01
ORIGINAL ID ----->	FDSSC04401	FASSC04501	FDSSC04601	FDSSC04701	FDSSC04801	FDSSC04901
LAB SAMPLE ID --->	27045.04	27045.18	27045.10	27045.09	27045.08	27045.07
ID FROM REPORT -->	FDSSC04401	FASSC04501	FDSSC04601	FDSSC04701	FDSSC04801	FDSSC04901
SAMPLE DATE ----->	09/22/96	09/22/96	09/22/96	09/22/96	09/22/96	09/22/96
DATE EXTRACTED -->	09/30/96	09/30/96	09/30/96	09/30/96	09/30/96	09/30/96
DATE ANALYZED --->	10/10/96	10/11/96	10/10/96	10/11/96	10/10/96	10/10/96
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
UNITS ---------->	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG

CAS #	Parameter	27045	VAL	27045	VAL	27045	VAL	27045	VAL	27045	VAL	27045	VAL
68334-30-5	Diesel	2.28	U	2.46	U	2.54	U	125.	U	2.57	U	2.64	U
8008-20-6	Kerosene	2.28	U	2.46	U	2.54	U	125.	U	2.57	U	2.64	U
9999000-35-1	JP-4 C6-C14	2.28	U	2.46	U	2.54	U	125.	U	2.57	U	2.64	U
9999000-48-6	NAPHTHA C6-C12	2.28	U	2.46	U	2.54	U	125.	U	2.57	U	2.64	U
68553-00-4	Fuel oil no. 6	2.28	U	2.46	U	2.54	U	125.	U	2.57	U	2.64	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

TPH-DRO													
	SAMPLE ID ------>	FDS-S-C050-01		FDS-S-C051-01		FDS-C-C051-01		FDS-S-C052-01		FDS-S-C053-01		FDS-S-C054-01	
	ORIGINAL ID ----->	FDSSC05001		FDSSC05101		FDSCC05101		FDSSC05201		FDSSC05301		FDSSC05401	
	LAB SAMPLE ID --->	27045.11		27045.12		27046.01		27045.13		27045.14		27045.15	
	ID FROM REPORT -->	FDSSC05001		FDSSC05101		FDSCC05101		FDSSC05201		FDSSC05301		FDSSC05401	
	SAMPLE DATE ----->	09/23/96		09/23/96		09/22/96		09/23/96		09/23/96		09/23/96	
	DATE EXTRACTED -->	09/30/96		09/30/96		09/30/96		09/30/96		09/30/96		09/30/96	
	DATE ANALYZED --->	10/10/96		10/11/96		10/10/96		10/10/96		10/10/96		10/11/96	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	MG/KG		MG/KG		MG/KG		MG/KG		MG/KG		MG/KG	
CAS #	Parameter	27045	VAL	27045	VAL	27045	VAL	27045	VAL	27045	VAL	27045	VAL
68334-30-5	Diesel	2.29	U	9.6	UJ	11.8	UJ	2.32	U	2.31	U	2.53	U
8008-20-6	Kerosene	2.29	U	9.6	UJ	11.8	UJ	2.32	U	2.31	U	2.53	U
9999000-35-1	JP-4 C6-C14	2.29	U	9.6	UJ	11.8	UJ	2.32	U	2.31	U	2.53	U
9999000-48-6	NAPHTHA C6-C12	2.29	U	9.6	UJ	11.8	UJ	2.32	U	2.31	U	2.53	U
68553-00-4	Fuel oil no. 6	2.29	U	9.6	UJ	11.8	UJ	2.32	U	2.31	U	2.53	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

TPH-DRO							
SAMPLE ID ------->	FDS-S-C055-01	FDS-S-C056-01	FDS-S-C057-01	FDS-S-C058-01	FDS-S-C059-01	FDS-S-C060-01
ORIGINAL ID ----->	FDSSC05501	FDSSC05601	FDSSC05701	FDSSC05801	FDSSC05901	FDSSC06001
LAB SAMPLE ID --->	27045.16	27045.17	27065.09	27065.10	27065.11	27065.17
ID FROM REPORT -->	FDSSC05501	FDSSC05601	FDSSC05701	FDSSC05801	FDSSC05901	FDSSC06001
SAMPLE DATE ----->	09/23/96	09/23/96	09/24/96	09/24/96	09/24/96	09/24/96
DATE EXTRACTED -->	09/30/96	09/30/96	09/30/96	09/30/96	09/30/96	09/30/96
DATE ANALYZED --->	10/11/96	10/11/96	10/11/96	10/11/96	10/11/96	10/11/96
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
UNITS ---------->	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG

CAS #	Parameter	27045	VAL	27045	VAL	27065	VAL	27065	VAL	27065	VAL	27065	VAL
68334-30-5	Diesel	2.59	U	2.59	U	4.24	U	2.55	U	2.22	U	4.19	U
8008-20-6	Kerosene	2.59	U	2.59	U	4.24	U	2.55	U	2.22	U	4.19	U
9999000-35-1	JP-4 C6-C14	2.59	U	2.59	U	4.24	U	2.55	U	2.22	U	4.19	U
9999000-48-6	NAPHTHA C6-C12	2.59	U	2.59	U	4.24	U	2.55	U	2.22	U	4.19	U
68553-00-4	Fuel oil no. 6	2.59	U	2.59	U	4.24	U	2.55	U	2.22	U	4.19	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

TPH-DRO	SAMPLE ID ------->	FDS-S-C061-01	FDS-C-C061-01	FDS-S-C063-01	FDS-S-C064-01	FDS-S-C065-01	FDS-S-C066-01
	ORIGINAL ID ----->	FDSSC06101	FDSCC06101	FDSSC06301	FDSSC06401	FDSSC06501	FDSSC06601
	LAB SAMPLE ID --->	27065.13	27066.01	27090.15	27090.16	27090.19	27090.20
	ID FROM REPORT -->	FDSSC06101	FDSCC06101	FDSSC06301	FDSSC06401	FDSSC06501	FDSSC06601
	SAMPLE DATE ----->	09/24/96	09/24/96	09/25/96	09/25/96	09/25/96	09/25/96
	DATE EXTRACTED -->	09/30/96	09/30/96	09/30/96	09/30/96	09/30/96	09/30/96
	DATE ANALYZED --->	10/11/96	10/11/96	10/16/96	10/16/96	10/16/96	10/16/96
	MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
	UNITS ---------->	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG

CAS #	Parameter	27065	VAL	27065	VAL	27090	VAL	27090	VAL	27090	VAL	27090	VAL
68334-30-5	Diesel	2.35	U	2.5	U	2.32	U	2.45	U	6.76	U	5.5	U
8008-20-6	Kerosene	2.35	U	2.5	U	2.32	U	2.45	U	6.76	U	5.5	U
9999000-35-1	JP-4 C6-C14	2.35	U	2.5	U	2.32	U	2.45	U	6.76	U	5.5	U
9999000-48-6	NAPHTHA C6-C12	2.35	U	2.5	U	2.32	U	2.45	U	6.76	U	5.5	U
68553-00-4	Fuel oil no. 6	2.35	U	2.5	U	2.32	U	2.45	U	6.76	U	5.5	U

*** Validatio.. Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

TPH-DRO													
	SAMPLE ID ------->	FDS-S-C067-01		FDS-S-C068-01		FDS-S-C069-01		FDS-S-C070-01		FDS-S-C071-01		FDS-S-C072-01	
	ORIGINAL ID ----->	FDSSC06701		FDSSC06801		FDSSC06901		FDSSC07001		FDSSC07101		FDSSC07201	
	LAB SAMPLE ID --->	27090.21		27166.01		27166.02		27166.03		27166.04		27166.05	
	ID FROM REPORT -->	FDSSC06701		FDSSC06801		FDSSC06901		FDSSC07001		FDSSC07101		FDSSC07201	
	SAMPLE DATE ----->	09/25/96		09/30/96		09/30/96		09/30/96		09/30/96		10/01/96	
	DATE EXTRACTED -->	09/30/96		10/09/96		10/09/96		10/09/96		10/09/96		10/09/96	
	DATE ANALYZED --->	10/16/96		10/15/96		10/15/96		10/15/96		10/15/96		10/15/96	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	MG/KG		MG/KG		MG/KG		MG/KG		MG/KG		MG/KG	
CAS #	Parameter	27090	VAL	27166	VAL	27166	VAL	27166	VAL	27166	VAL	27166	VAL
68334-30-5	Diesel	5.65	U	4.67	U	2.42	U	2.4	U	2.44	U	2.4	U
8008-20-6	Kerosene	5.65	U	4.67	U	2.42	U	2.4	U	2.44	U	2.4	U
9999000-35-1	JP-4 C6-C14	5.65	U	4.67	U	2.42	U	2.4	U	2.44	U	2.4	U
9999000-48-6	NAPHTHA C6-C12	5.65	U	4.67	U	2.42	U	2.4	U	2.44	U	2.4	U
68553-00-4	Fuel oil no. 6	5.65	U	4.67	U	2.42	U	2.4	U	2.44	U	2.4	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

TPH-DRO						
SAMPLE ID ------>	FDS-S-C073-01	FDS-S-C074-01	FDS-S-C075-01	FDS-S-C076-01	FDS-S-C077-01	FDS-C-C077-01
ORIGINAL ID ----->	FDSSC07301	FDSSC07401	FDSSC07501	FDSSC07601	FDSSC07701	FDSCC07701
LAB SAMPLE ID --->	27166.06	27166.07	27166.08	27166.09	27166.10	27167.01
ID FROM REPORT -->	FDSSC07301	FDSSC07401	FDSSC07501	FDSSC07601	FDSSC07701	FDSCC07701
SAMPLE DATE ----->	10/01/96	10/01/96	10/01/96	10/01/96	10/01/96	10/01/96
DATE EXTRACTED -->	10/09/96	10/09/96	10/09/96	10/09/96	10/09/96	10/09/96
DATE ANALYZED --->	10/15/96	10/15/96	10/15/96	10/15/96	10/15/96	10/15/96
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
UNITS ---------->	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG

CAS #	Parameter	27166	VAL	27166	VAL	27166	VAL	27166	VAL	27166	VAL	27166	VAL
68334-30-5	Diesel	2.46	U	2.44	U	2.39	U	2.39	U	2.48	U	3.77	U
8008-20-6	Kerosene	2.46	U	2.44	U	2.39	U	2.39	U	2.48	U	3.77	U
9999000-35-1	JP-4 C6-C14	2.46	U	2.44	U	2.39	U	2.39	U	2.48	U	3.77	U
9999000-48-6	NAPHTHA C6-C12	2.46	U	2.44	U	2.39	U	2.39	U	2.48	U	3.77	U
68553-00-4	Fuel oil no. 6	2.46	U	2.44	U	2.39	U	2.39	U	2.48	U	3.77	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

TPH-DRO	SAMPLE ID ------->	FDS-S-C078-01	FDS-S-C079-01	FDS-S-C080-01	FDS-C-C080-01	FDS-S-C081-01	FDS-S-C082-01
	ORIGINAL ID ----->	FDSSC07801	FDSSC07901	FDSSC08001	FDSCC08001	FDSSC08101	FDSSC08201
	LAB SAMPLE ID --->	27166.11	27166.12	27166.13	27167.02	27178.16	27178.17
	ID FROM REPORT -->	FDSSC07801	FDSSC07901	FDSSC08001	FDSCC08001	FDSSC08101	FDSSC08201
	SAMPLE DATE ----->	10/01/96	10/01/96	10/01/96	10/01/96	10/02/96	10/02/96
	DATE EXTRACTED -->	10/09/96	10/09/96	10/09/96	10/09/96	10/11/96	10/11/96
	DATE ANALYZED --->	10/15/96	10/15/96	10/15/96	10/15/96	10/17/96	10/16/96
	MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
	UNITS ---------->	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG

CAS #	Parameter	27166	VAL	27166	VAL	27166	VAL	27166	VAL	27178	VAL	27178	VAL
68334-30-5	Diesel	2.32	U	2.44	U	2.42	U	2.45	U	2.37	U	2.41	U
8008-20-6	Kerosene	2.32	U	2.44	U	2.42	U	2.45	U	2.37	U	2.41	U
9999000-35-1	JP-4 C6-C14	2.32	U	2.44	U	2.42	U	2.45	U	2.37	U	2.41	U
9999000-48-6	NAPHTHA C6-C12	2.32	U	2.44	U	2.42	U	2.45	U	2.37	U	2.41	U
68553-00-4	Fuel oil no. 6	2.32	U	2.44	U	2.42	U	2.45	U	2.37	U	2.41	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

TPH-DRO	SAMPLE ID ------->	FDS-S-C083-01	FDS-S-C084-01	FDS-S-C085-01	FDS-S-C086-01	FDS-C-C086-01	FDS-S-C087-01
	ORIGINAL ID ----->	FDSSC08301	FDSSC08401	FDSSC08501	FDSSC08601	FDSCC08601	FDSSC08701
	LAB SAMPLE ID --->	27178.20	27178.21	27178.22	27178.23	27179.01	27178.24
	ID FROM REPORT -->	FDSSC08301	FDSSC08401	FDSSC08501	FDSSC08601	FDSCC08601	FDSSC08701
	SAMPLE DATE ----->	10/02/96	10/02/96	10/02/96	10/02/96	10/02/96	10/02/96
	DATE EXTRACTED -->	10/11/96	10/11/96	10/11/96	10/11/96	10/09/96	10/11/96
	DATE ANALYZED --->	10/17/96	10/17/96	10/17/96	10/17/96	10/15/96	10/17/96
	MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
	UNITS ---------->	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG

CAS #	Parameter	27178	VAL	27178	VAL	27178	VAL	27178	VAL	27178	VAL	27178	VAL
68334-30-5	Diesel	2.39	U	2.42	U	4.15	U	2.43	U	2.43	U	2.41	U
8008-20-6	Kerosene	2.39	U	2.42	U	4.15	U	2.43	U	2.43	U	2.41	U
9999000-35-1	JP-4 C6-C14	2.39	U	2.42	U	4.15	U	2.43	U	2.43	U	2.41	U
9999000-48-6	NAPHTHA C6-C12	2.39	U	2.42	U	4.15	U	2.43	U	2.43	U	2.41	U
68553-00-4	Fuel oil no. 6	2.39	U	2.42	U	4.15	U	2.43	U	2.43	U	2.41	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

TPH-DRO							
SAMPLE ID ------>	FDS-S-C088-01	FDS-S-C089-01	FDS-S-C090-01	FDS-S-C091-01	FDS-C-C091-01	FDS-S-C092-01
ORIGINAL ID ----->	FDSSC08801	FDSSC08901	FDSSC09001	FDSSC09101	FDSCC09101	FDSSC09201
LAB SAMPLE ID --->	27178.25	27178.26	27212.01	27212.02	27213.01	27212.03
ID FROM REPORT -->	FDSSC08801	FDSSC08901	FDSSC09001	FDSSC09101	FDSCC09101	FDSSC09201
SAMPLE DATE ----->	10/02/96	10/02/96	10/03/96	10/03/96	10/03/96	10/03/96
DATE EXTRACTED -->	10/11/96	10/11/96	10/09/96	10/09/96	10/09/96	10/09/96
DATE ANALYZED --->	10/17/96	10/17/96	10/18/96	10/18/96	10/18/96	10/18/96
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
UNITS ---------->	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG

CAS #	Parameter	27178	VAL	27178	VAL	27212	VAL	27212	VAL	27212	VAL	27212	VAL
68334-30-5	Diesel	2.52	U	2.43	U	2.48	U	2.63	U	2.5	U	2.8	U
8008-20-6	Kerosene	2.52	U	2.43	U	2.48	U	2.63	U	2.5	U	2.8	U
9999000-35-1	JP-4 C6-C14	2.52	U	2.43	U	2.48	U	2.63	U	2.5	U	2.8	U
9999000-48-6	NAPHTHA C6-C12	2.52	U	2.43	U	2.48	U	2.63	U	2.5	U	2.8	U
68553-00-4	Fuel oil no. 6	2.52	U	2.43	U	2.48	U	2.63	U	2.5	U	2.8	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

TPH-DRO	SAMPLE ID ------->	FDS-S-C093-01	FDS-S-C094-01	FDS-S-C096-01	FDS-S-C098-01	FDS-S-C099-01	FDS-S-C100-01
	ORIGINAL ID ----->	FDSSC09301	FDSSC09401	FDSSC09601	FDSSC09801	FDSSC09901	FDSSC10001
	LAB SAMPLE ID --->	27212.04	27212.07	27212.09	27212.12	27212.13	27212.14
	ID FROM REPORT -->	FDSSC09301	FDSSC09401	FDSSC09601	FDSSC09801	FDSSC09901	FDSSC10001
	SAMPLE DATE ----->	10/03/96	10/03/96	10/03/96	10/03/96	10/03/96	10/03/96
	DATE EXTRACTED -->	10/09/96	10/09/96	10/09/96	10/09/96	10/09/96	10/09/96
	DATE ANALYZED --->	10/18/96	10/18/96	10/18/96	10/18/96	10/18/96	10/18/96
	MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
	UNITS ---------->	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG

CAS #	Parameter	27212	VAL	27212	VAL	27212	VAL	27212	VAL	27212	VAL	27212	VAL
68334-30-5	Diesel	2.35	U	2.38	U	2.44	U	2.48	U	2.58	U	3.82	U
8008-20-6	Kerosene	2.35	U	2.38	U	2.44	U	2.48	U	2.58	U	3.82	U
9999000-35-1	JP-4 C6-C14	2.35	U	2.38	U	2.44	U	2.48	U	2.58	U	3.82	U
9999000-48-6	NAPHTHA C6-C12	2.35	U	2.38	U	2.44	U	2.48	U	2.58	U	3.82	U
68553-00-4	Fuel oil no. 6	2.35	U	2.38	U	2.44	U	2.48	U	2.58	U	3.82	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

TPH-DRO	SAMPLE ID ------->	FDS-C-C100-01		FDS-S-C101-01		FDS-S-C102-01		FDS-S-C103-01		FDS-S-C104-01		FDS-S-C104-02	
	ORIGINAL ID ----->	FDSCC10001		FDSSC10101		FDSSC10201		FDSSC10301		FDSSC10401		FDSSC10402	
	LAB SAMPLE ID --->	27213.03		27212.15		27212.16		27212.17		27212.18		27212.19	
	ID FROM REPORT -->	FDSCC10001		FDSSC10101		FDSSC10201		FDSSC10301		FDSSC10401		FDSSC10402	
	SAMPLE DATE ----->	10/04/96		10/03/96		10/03/96		10/03/96		10/04/96		10/04/96	
	DATE EXTRACTED -->	10/09/96		10/09/96		10/09/96		10/09/96		10/09/96		10/09/96	
	DATE ANALYZED --->	10/19/96		10/18/96		10/18/96		10/18/96		10/18/96		10/18/96	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	MG/KG		MG/KG		MG/KG		MG/KG		MG/KG		MG/KG	
CAS #	Parameter	27212	VAL	27212	VAL	27212	VAL	27212	VAL	27212	VAL	27212	VAL
68334-30-5	Diesel	4.29	U	2.51	U	3.63	U	2.52	U	2.36	U	2.82	U
8008-20-6	Kerosene	4.29	U	2.51	U	3.63	U	2.52	U	2.36	U	2.82	U
9999000-35-1	JP-4 C6-C14	4.29	U	2.51	U	3.63	U	2.52	U	2.36	U	2.82	U
9999000-48-6	NAPHTHA C6-C12	4.29	U	2.51	U	3.63	U	2.52	U	2.36	U	2.82	U
68553-00-4	Fuel oil no. 6	4.29	U	2.51	U	3.63	U	2.52	U	2.36	U	2.82	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

TPH-DRO	SAMPLE ID ------>	FDS-S-C105-01	FDS-S-C106-01	FDS-S-C107-01	FDS-C-C107-01	FDS-S-C108-01	FDS-S-C109-01
	ORIGINAL ID ----->	FDSSC10501	FDSSC10601	FDSSC10701	FDSCC10701	FDSSC10801	FDSSC10901
	LAB SAMPLE ID --->	27232.01	27232.02	27232.03	27233.01	27232.04	27232.05
	ID FROM REPORT -->	FDSSC10501	FDSSC10601	FDSSC10701	FDSCC10701	FDSSC10801	FDSSC10901
	SAMPLE DATE ----->	10/04/96	10/04/96	10/04/96	10/04/96	10/04/96	10/05/96
	DATE EXTRACTED -->	10/11/96	10/11/96	10/11/96	10/11/96	10/11/96	10/11/96
	DATE ANALYZED --->	10/19/96	10/24/96	10/19/96	10/24/96	10/19/96	10/19/96
	MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
	UNITS ---------->	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG

CAS #	Parameter	27232	VAL	27232	VAL	27232	VAL	27232	VAL	27232	VAL	27232	VAL
68334-30-5	Diesel	2.52	U	2.8	U	3.08	U	2.75	U	5.02	U	3.37	U
8008-20-6	Kerosene	2.52	U	2.8	U	3.08	U	2.75	U	5.02	U	3.37	U
9999000-35-1	JP-4 C6-C14	2.52	U	2.8	U	3.08	U	2.75	U	5.02	U	3.37	U
9999000-48-6	NAPHTHA C6-C12	2.52	U	2.8	U	3.08	U	2.75	U	5.02	U	3.37	U
68553-00-4	Fuel oil no. 6	2.52	U	2.8	U	3.08	U	2.75	U	5.02	U	3.37	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

TPH-DRO	SAMPLE ID ------->	FDS-S-C110-01	FDS-S-C111-01	FDS-S-C112-01	FDS-S-C113-01	FDS-S-C114-01	FDS-C-C114-01
	ORIGINAL ID ----->	FDSSC11001	FDSSC11101	FDSSC11201	FDSSC11301	FDSSC11401	FDSCC11401
	LAB SAMPLE ID --->	27232.06	27232.07	27232.08	27232.09	27232.10	27233.02
	ID FROM REPORT -->	FDSSC11001	FDSSC11101	FDSSC11201	FDSSC11301	FDSSC11401	FDSCC11401
	SAMPLE DATE ----->	10/05/96	10/05/96	10/05/96	10/05/96	10/05/96	10/05/96
	DATE EXTRACTED -->	10/11/96	10/11/96	10/11/96	10/11/96	10/11/96	10/11/96
	DATE ANALYZED --->	10/19/96	10/19/96	10/19/96	10/19/96	10/19/96	10/24/96
	MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
	UNITS ---------->	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG

CAS #	Parameter	27232	VAL	27232	VAL	27232	VAL	27232	VAL	27232	VAL	27232	VAL
68334-30-5	Diesel	2.65	U	2.73	U	2.62	U	2.49	U	336.	J	2.49	UJ
8008-20-6	Kerosene	2.65	U	2.73	U	2.62	U	2.49	U	2.19	U	2.49	U
9999000-35-1	JP-4 C6-C14	2.65	U	2.73	U	2.62	U	2.49	U	2.19	U	2.49	U
9999000-48-6	NAPHTHA C6-C12	2.65	U	2.73	U	2.62	U	2.49	U	2.19	U	2.49	U
68553-00-4	Fuel oil no. 6	2.65	U	2.73	U	2.62	U	2.49	U	2.19	U	2.49	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

TPH-DRO	SAMPLE ID ------->	FDS-S-C115-01	FDS-S-C47A-01	FDS-S-H001-01	FDS-S-H002-01	FDS-S-H003-01	FDS-S-H004-01
	ORIGINAL ID ----->	FDSSC11501	FDSSC47A01	FDSSH00101	FDSSH00201	FDSSH00301	FDSSH00401
	LAB SAMPLE ID --->	27232.11	27065.12	27367.01	27355.01	27355.02	27355.03
	ID FROM REPORT -->	FDSSC11501	FDSSC47A01	FDSSH00101	FDSSH00201	FDSSH00301	FDSSH00401
	SAMPLE DATE ----->	10/05/96	09/24/96	10/18/96	10/17/96	10/17/96	10/17/96
	DATE EXTRACTED -->	10/11/96	09/30/96	10/24/96	10/24/96	10/24/96	10/24/96
	DATE ANALYZED --->	10/19/96	10/11/96	11/04/96	11/01/96	11/01/96	11/01/96
	MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
	UNITS ---------->	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG

CAS #	Parameter	27232	VAL	27065	VAL	27367	VAL	27339	VAL	27339	VAL	27339	VAL
68334-30-5	Diesel	2.17	U	2.66	U	2.52	U	2.41	U	2.34	U	2.38	U
8008-20-6	Kerosene	2.17	U	2.66	U	2.52	U	2.41	U	2.34	U	2.38	U
9999000-35-1	JP-4 C6-C14	2.17	U	2.66	U	2.52	U	2.41	U	2.34	U	2.38	U
9999000-48-6	NAPHTHA C6-C12	2.17	U	2.66	U	2.52	U	2.41	U	2.34	U	2.38	U
68553-00-4	Fuel oil no. 6	2.17	U	2.66	U	2.52	U	2.41	U	2.34	U	2.38	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

TPH-DRO													
	SAMPLE ID ------->	FDS-S-H005-01		FDS-S-H006-01		FDS-S-H007-01		FDS-S-H008-01		FDS-S-H009-01		FDS-S-H010-01	
	ORIGINAL ID ----->	FDSSH00501		FDSSH00601		FDSSH00701		FDSSH00801		FDSSH00901		FDSSH01001	
	LAB SAMPLE ID --->	27355.04		27377.01		27355.05		27377.02		27377.03		27377.04	
	ID FROM REPORT -->	FDSSH00501		FDSSH00601		FDSSH00701		FDSSH00801		FDSSH00901		FDSSH01001	
	SAMPLE DATE ----->	10/17/96		10/21/96		10/17/96		10/21/96		10/21/96		10/21/96	
	DATE EXTRACTED -->	10/24/96		10/24/96		10/24/96		10/24/96		10/24/96		10/24/96	
	DATE ANALYZED --->	11/01/96		11/02/96		11/01/96		11/02/96		11/02/96		11/02/96	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ----------->	MG/KG		MG/KG		MG/KG		MG/KG		MG/KG		MG/KG	
CAS #	Parameter	27339	VAL	27377	VAL	27339	VAL	27377	VAL	27377	VAL	27377	VAL
68334-30-5	Diesel	2.65	U	2.47	U	2.34	U	2.35	U	2.46	U	2.22	U
8008-20-6	Kerosene	2.65	U	2.47	U	2.34	U	2.35	U	2.46	U	2.22	U
9999000-35-1	JP-4 C6-C14	2.65	U	2.47	U	2.34	U	2.35	U	2.46	U	2.22	U
9999000-48-6	NAPHTHA C6-C12	2.65	U	2.47	U	2.34	U	2.35	U	2.46	U	2.22	U
68553-00-4	Fuel oil no. 6	2.65	U	2.47	U	2.34	U	2.35	U	2.46	U	2.22	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

TPH-DRO													
	SAMPLE ID ------->	FDS-S-H011-01		FDS-S-H012-01		FDS-S-H013-01		FDS-S-H014-01		FDS-S-H015-01		FDS-S-H016-01	
	ORIGINAL ID ----->	FDSSH01101		FDSSH01201		FDSSH01301		FDSSH01401		FDSSH01501		FDSSH01601	
	LAB SAMPLE ID --->	27355.06		27367.03		27355.07		27355.08		27355.09		27367.04	
	ID FROM REPORT -->	FDSSH01101		FDSSH01201		FDSSH01301		FDSSH01401		FDSSH01501		FDSSH01601	
	SAMPLE DATE ----->	10/17/96		10/18/96		10/17/96		10/17/96		10/17/96		10/18/96	
	DATE EXTRACTED -->	10/24/96		10/24/96		10/24/96		10/24/96		10/24/96		10/24/96	
	DATE ANALYZED --->	11/01/96		11/01/96		11/04/96		11/01/96		11/01/96		11/01/96	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ----------->	MG/KG		MG/KG		MG/KG		MG/KG		MG/KG		MG/KG	
CAS #	Parameter	27339	VAL	27367	VAL	27339	VAL	27339	VAL	27339	VAL	27367	VAL
68334-30-5	Diesel	2.44	U	2.34	U	2.4	U	2.71	U	2.38	U	2.53	U
8008-20-6	Kerosene	2.44	U	2.34	U	2.4	U	2.71	U	2.38	U	2.53	U
9999000-35-1	JP-4 C6-C14	2.44	U	2.34	U	2.4	U	2.71	U	2.38	U	2.53	U
9999000-48-6	NAPHTHA C6-C12	2.44	U	2.34	U	2.4	U	2.71	U	2.38	U	2.53	U
68553-00-4	Fuel oil no. 6	2.44	U	2.34	U	2.4	U	2.71	U	2.38	U	2.53	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

TPH-DRO							
SAMPLE ID ------->	FDS-S-H017-01	FDS-S-H018-01	FDS-S-H019-01	FDS-S-H020-01	FDS-C-H020-01	FDS-S-H021-01
ORIGINAL ID ----->	FDSSH01701	FDSSH01801	FDSSH01901	FDSSH02001	FDSCH02001	FDSSH02101
LAB SAMPLE ID --->	27367.05	27367.06	27367.07	27367.02	27368.01	27367.10
ID FROM REPORT -->	FDSSH01701	FDSSH01801	FDSSH01901	FDSSH02001	FDSCH02001	FDSSH02101
SAMPLE DATE ----->	10/18/96	10/18/96	10/18/96	10/18/96	10/18/96	10/18/96
DATE EXTRACTED -->	10/24/96	10/24/96	10/24/96	10/24/96	10/24/96	10/24/96
DATE ANALYZED --->	11/02/96	11/02/96	11/02/96	11/01/96	11/02/96	11/02/96
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
UNITS ---------->	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG

CAS #	Parameter	27367	VAL	27367	VAL	27367	VAL	27367	VAL	27367	VAL	27367	VAL
68334-30-5	Diesel	2.4	U	2.44	U	2.46	U	2.36	U	2.38	U	2.57	U
8008-20-6	Kerosene	2.4	U	2.44	U	2.46	U	2.36	U	2.38	U	2.57	U
9999000-35-1	JP-4 C6-C14	2.4	U	2.44	U	2.46	U	2.36	U	2.38	U	2.57	U
9999000-48-6	NAPHTHA C6-C12	2.4	U	2.44	U	2.46	U	2.36	U	2.38	U	2.57	U
68553-00-4	Fuel oil no. 6	2.4	U	2.44	U	2.46	U	2.36	U	2.38	U	2.57	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

TPH-DRO	SAMPLE ID ------->	FDS-S-H022-01	FDS-S-H023-01	FDS-S-H024-01	FDS-C-H024-01	FDS-S-H025-01	FDS-S-H026-01
	ORIGINAL ID ----->	FDSSH02201	FDSSH02301	FDSSH02401	FDSCH02401	FDSSH02501	FDSSH02601
	LAB SAMPLE ID --->	27367.11	27355.10	27377.09	27378.01	27377.08	27377.06
	ID FROM REPORT -->	FDSSH02201	FDSSH02301	FDSSH02401	FDSCH02401	FDSSH02501	FDSSH02601
	SAMPLE DATE ----->	10/18/96	10/17/96	10/21/96	10/21/96	10/21/96	10/21/96
	DATE EXTRACTED -->	10/24/96	10/24/96	10/24/96	10/24/96	10/24/96	10/24/96
	DATE ANALYZED --->	11/02/96	11/04/96	11/02/96	11/02/96	11/02/96	11/04/96
	MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
	UNITS ---------->	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG

CAS #	Parameter	27367	VAL	27339	VAL	27377	VAL	27377	VAL	27377	VAL	27377	VAL
68334-30-5	Diesel	2.28	U	55.6	U	2.25	U	2.25	U	2.26	U	2.26	U
8008-20-6	Kerosene	2.28	U	55.6	U	2.25	U	2.25	U	2.26	U	2.26	U
9999000-35-1	JP-4 C6-C14	2.28	U	55.6	U	2.25	U	2.25	U	2.26	U	2.26	U
9999000-48-6	NAPHTHA C6-C12	2.28	U	55.6	U	2.25	U	2.25	U	2.26	U	2.26	U
68553-00-4	Fuel oil no. 6	2.28	U	55.6	U	2.25	U	2.25	U	2.26	U	2.26	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

TPH-DRO

SAMPLE ID ------->	FDS-S-H027-01
ORIGINAL ID ----->	FDSSH02701
LAB SAMPLE ID --->	27377.05
ID FROM REPORT -->	FDSSH02701
SAMPLE DATE ----->	10/21/96
DATE EXTRACTED -->	10/24/96
DATE ANALYZED --->	11/02/96
MATRIX ---------->	Soil
UNITS ----------->	MG/KG

CAS #	Parameter	27377	VAL
68334-30-5	Diesel	2.44	U
8008-20-6	Kerosene	2.44	U
9999000-35-1	JP-4 C6-C14	2.44	U
9999000-48-6	NAPHTHA C6-C12	2.44	U
68553-00-4	Fuel oil no. 6	2.44	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

TPH-GRO													
	SAMPLE ID ------>	FDS-S-C001-01		FDS-S-C002-01		FDS-S-C003-01		FDS-S-C004-01		FDS-S-C005-01		FDS-S-C006-01	
	ORIGINAL ID ----->	FDSSC00101		FDSSC00201		FDSSC00301		FDSSC00401		FDSSC00501		FDSSC00601	
	LAB SAMPLE ID --->	26915.10		26915.11		26915.12		26915.13		26915.14		26915.15	
	ID FROM REPORT -->	FDSSC00101		FDSSC00201		FDSSC00301		FDSSC00401		FDSSC00501		FDSSC00601	
	SAMPLE DATE ----->	09/12/96		09/12/96		09/12/96		09/12/96		09/12/96		09/12/96	
	DATE ANALYZED --->	09/18/96		09/18/96		09/18/96		09/18/96		09/18/96		09/18/96	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	26915	VAL	26915	VAL	26915	VAL	26915	VAL	26915	VAL	26915	VAL
86290-81-5	Gasoline	14.		16300.	J	24.		13.		11.	J	9.	J

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

TPH-GRO													
	SAMPLE ID ------>	FDS-S-C007-01		FDS-S-C008-01		FDS-S-C009-01		FDS-S-C010-01		FDS-S-C011-01		FDS-C-C011-01	
	ORIGINAL ID ----->	FDSSC00701		FDSSC00801		FDSSC00901		FDSSC01001		FDSSC01101		FDSCC01101	
	LAB SAMPLE ID --->	26915.16		26938.09		26938.10		26958.05		26958.06		26959.01	
	ID FROM REPORT -->	FDSSC00701		FDSSC00801		FDSSC00901		FDSSC01001		FDSSC01101		FDSCC01101	
	SAMPLE DATE ----->	09/12/96		09/13/96		09/13/96		09/16/96		09/16/96		09/13/96	
	DATE ANALYZED --->	09/18/96		09/18/96		09/18/96		09/23/96		09/23/96		09/23/96	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ----------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	26915	VAL	26938	VAL	26938	VAL	26938	VAL	26938	VAL	26938	VAL
86290-81-5	Gasoline	35.		24.8		13.5	J	22.6		96.3	J	27.3	J

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

TPH-GRO													
	SAMPLE ID ------->	FDS-S-C012-01		FDS-S-C013-01		FDS-S-C014-01		FDS-S-C015-01		FDS-S-C016-01		FDS-S-C017-01	
	ORIGINAL ID ----->	FDSSC01201		FDSSC01301		FDSSC01401		FDSSC01501		FDSSC01601		FDSSC01701	
	LAB SAMPLE ID --->	26989.01		26958.07		26958.08		26989.02		26958.09		26989.03	
	ID FROM REPORT -->	FDSSC01201		FDSSC01301		FDSSC01401		FDSSC01501		FDSSC01601		FDSSC01701	
	SAMPLE DATE ----->	09/17/96		09/16/96		09/16/96		09/17/96		09/16/96		09/17/96	
	DATE ANALYZED --->	09/24/96		09/23/96		09/23/96		09/24/96		09/23/96		09/24/96	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	26988	VAL	26938	VAL	26938	VAL	26988	VAL	26938	VAL	26988	VAL
86290-81-5	Gasoline	124000.		77.6		67.5		25.5		65.		32.7	

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

TPH-GRO	SAMPLE ID ------>	FDS-S-C018-01	FDS-S-C019-01	FDS-C-C019-01	FDS-S-C020-01	FDS-S-C021-01	FDS-S-C022-01
	ORIGINAL ID ----->	FDSSC01801	FDSSC01901	FDSCC01901	FDSSC02001	FDSSC02101	FDSSC02201
	LAB SAMPLE ID --->	26997.18	26989.06	26988.01	26989.07	26989.08	26997.17
	ID FROM REPORT -->	FDSSC01801	FDSSC01901	FDSCC01901	FDSSC02001	FDSSC02101	FDSSC02201
	SAMPLE DATE ----->	09/18/96	09/17/96	09/17/96	09/17/96	09/17/96	09/18/96
	DATE ANALYZED --->	09/23/96	09/25/96	09/24/96	09/24/96	09/24/96	09/23/96
	MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
	UNITS ---------->	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG

CAS #	Parameter	26997	VAL	26988	VAL	26988	VAL	26988	VAL	26988	VAL	26997	VAL
86290-81-5	Gasoline	16.8	U	30.5		45.4		23.6		12.4		10.	J

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

TPH-GRO													
	SAMPLE ID ------>	FDS-S-C023-01		FDS-S-C024-01		FDS-S-C025-01		FDS-S-C026-01		FDS-S-C027-01		FDS-S-C028-01	
	ORIGINAL ID ----->	FDSSC02301		FDSSC02401		FDSSC02501		FDSSC02601		FDSSC02701		FDSSC02801	
	LAB SAMPLE ID --->	26997.15		26989.11		26997.16		26997.14		26997.19		26997.20	
	ID FROM REPORT -->	FDSSC02301		FDSSC02401		FDSSC02501		FDSSC02601		FDSSC02701		FDSSC02801	
	SAMPLE DATE ----->	09/18/96		09/17/96		09/18/96		09/18/96		09/18/96		09/18/96	
	DATE ANALYZED --->	09/23/96		09/24/96		09/23/96		09/23/96		09/23/96		09/23/96	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	26997	VAL	26988	VAL	26997	VAL	26997	VAL	26997	VAL	26997	VAL
86290-81-5	Gasoline	14.	J	18.1	U	10.	J	29.	J	14.4	U	18.	J

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

TPH-GRO													
	SAMPLE ID ------>	FDS-C-C028-01		FDS-S-C029-01		FDS-S-C030-01		FDS-S-C031-01		FDS-S-C032-01		FDS-S-C033-01	
	ORIGINAL ID ----->	FDSCC02801		FDSSC02901		FDSSC03001		FDSSC03101		FDSSC03201		FDSSC03301	
	LAB SAMPLE ID --->	26998.02		26997.21		27016.13		27016.12		27016.16		27016.14	
	ID FROM REPORT -->	FDSCC02801		FDSSC02901		FDSSC03001		FDSSC03101		FDSSC03201		FDSSC03301	
	SAMPLE DATE ----->	09/18/96		09/18/96		09/19/96		09/19/96		09/19/96		09/19/96	
	DATE ANALYZED --->	09/23/96		09/25/96		09/30/96		09/30/96		09/30/96		09/30/96	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	26997	VAL	26997	VAL	27016	VAL	27016	VAL	27016	VAL	27016	VAL
86290-81-5	Gasoline	33.	J	13.		9.	J	8.	J	27.		18.	

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

TPH-GRO	SAMPLE ID ------>	FDS-S-C034-01		FDS-S-C035-01		FDS-S-C036-01		FDS-S-C036-02		FDS-S-C037-01		FDS-S-C037-02	
	ORIGINAL ID ----->	FDSSC03401		FDSSC03501		FDSSC03601		FDSSC03602		FDSSC03701		FDSSC03702	
	LAB SAMPLE ID --->	27016.15		27016.17		27016.18		27016.19		27034.08		27034.09	
	ID FROM REPORT -->	FDSSC03401		FDSSC03501		FDSSC03601		FDSSC03602		FDSSC03701		FDSSC03702	
	SAMPLE DATE ----->	09/19/96		09/19/96		09/19/96		09/19/96		09/20/96		09/20/96	
	DATE ANALYZED --->	09/30/96		09/30/96		09/30/96		09/30/96		09/26/96		09/26/96	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	27016	VAL	27016	VAL	27016	VAL	27016	VAL	27034	VAL	27034	VAL
86290-81-5	Gasoline	12.	U	13.4	U	14.2	U	15.	J	23.8		20.3	J

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

TPH-GRO							
SAMPLE ID ------>	FDS-S-C038-01	FDS-S-C038-02	FDS-S-C039-01	FDS-S-C039-02	FDS-S-C040-01	FDS-S-C040-02
ORIGINAL ID ----->	FDSSC03801	FDSSC03802	FDSSC03901	FDSSC03902	FDSSC04001	FDSSC04002
LAB SAMPLE ID --->	27034.14	27034.15	27034.12	27034.13	27034.10	27034.11
ID FROM REPORT -->	FDSSC03801	FDSSC03802	FDSSC03901	FDSSC03902	FDSSC04001	FDSSC04002
SAMPLE DATE ----->	09/20/96	09/20/96	09/20/96	09/20/96	09/20/96	09/20/96
DATE ANALYZED --->	09/26/96	09/26/96	09/26/96	09/26/96	09/26/96	09/26/96
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
UNITS ---------->	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG

CAS #	Parameter	27034	VAL	27034	VAL	27034	VAL	27034	VAL	27034	VAL	27034	VAL
86290-81-5	Gasoline	22.6	U	21.6	U	17.2		24.		16.4		22.1	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

TPH-GRO	SAMPLE ID ------->	FDS-C-C040-02		FDS-S-C041-01		FDS-S-C041-02		FDS-S-C042-01		FDS-S-C042-02		FDS-S-C043-01	
	ORIGINAL ID ----->	FDSCC04002		FDSSC04101		FDSSC04102		FDSSC04201		FDSSC04202		FDSSC04301	
	LAB SAMPLE ID --->	27035.01		27034.16		27034.17		27045.01		27045.02		27045.03	
	ID FROM REPORT -->	FDSCC04002		FDSSC04101		FDSSC04102		FDSSC04201		FDSSC04202		FDSSC04301	
	SAMPLE DATE ----->	09/20/96		09/20/96		09/20/96		09/22/96		09/22/96		09/22/96	
	DATE ANALYZED --->	09/26/96		09/27/96		09/26/96		09/27/96		09/27/96		09/27/96	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ----------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	27034	VAL	27034	VAL	27034	VAL	27045	VAL	27045	VAL	27045	VAL
86290-81-5	Gasoline	15.4	J	14.6	J	14.	J	8.51	J	21.5		23.7	

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

TPH-GRO	SAMPLE ID ------>	FDS-S-C044-01	FDS-S-C045-01	FDS-S-C046-01	FDS-S-C047-01	FDS-S-C048-01	FDS-S-C049-01
	ORIGINAL ID ----->	FDSSC04401	FASSC04501	FDSSC04601	FDSSC04701	FDSSC04801	FDSSC04901
	LAB SAMPLE ID --->	27045.04	27045.18	27045.10	27045.09	27045.08	27045.07
	ID FROM REPORT -->	FDSSC04401	FASSC04501	FDSSC04601	FDSSC04701	FDSSC04801	FDSSC04901
	SAMPLE DATE ----->	09/22/96	09/22/96	09/22/96	09/22/96	09/22/96	09/22/96
	DATE ANALYZED --->	09/27/96	09/27/96	09/27/96	09/30/96	09/27/96	09/27/96
	MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
	UNITS ---------->	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG

CAS #	Parameter	27045	VAL	27045	VAL	27045	VAL	27045	VAL	27045	VAL	27045	VAL
86290-81-5	Gasoline	35.8		12.3	U	11.1	J	19000.		8.88	J	7.12	J

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

TPH-GRO	SAMPLE ID ------>	FDS-S-C050-01	FDS-S-C051-01	FDS-C-C051-01	FDS-S-C052-01	FDS-S-C053-01	FDS-S-C054-01
	ORIGINAL ID ----->	FDSSC05001	FDSSC05101	FDSCC05101	FDSSC05201	FDSSC05301	FDSSC05401
	LAB SAMPLE ID --->	27045.11	27045.12	27046.01	27045.13	27045.14	27045.15
	ID FROM REPORT -->	FDSSC05001	FDSSC05101	FDSCC05101	FDSSC05201	FDSSC05301	FDSSC05401
	SAMPLE DATE ----->	09/23/96	09/23/96	09/22/96	09/23/96	09/23/96	09/23/96
	DATE ANALYZED --->	09/27/96	09/27/96	10/01/96	09/27/96	09/27/96	09/27/96
	MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
	UNITS ---------->	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG

CAS #	Parameter	27045	VAL	27045	VAL	27045	VAL	27045	VAL	27045	VAL	27045	VAL
86290-81-5	Gasoline	15.3		77.6	J	7.9	J	8.56	J	24.6		16.8	

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

TPH-GRO							
SAMPLE ID ------->	FDS-S-C055-01	FDS-S-C056-01	FDS-S-C057-01	FDS-S-C058-01	FDS-S-C059-01	FDS-S-C060-01
ORIGINAL ID ----->	FDSSC05501	FDSSC05601	FDSSC05701	FDSSC05801	FDSSC05901	FDSSC06001
LAB SAMPLE ID --->	27045.16	27045.17	27065.09	27065.10	27065.11	27065.17
ID FROM REPORT -->	FDSSC05501	FDSSC05601	FDSSC05701	FDSSC05801	FDSSC05901	FDSSC06001
SAMPLE DATE ----->	09/23/96	09/23/96	09/24/96	09/24/96	09/24/96	09/24/96
DATE ANALYZED --->	09/27/96	09/27/96	10/01/96	10/01/96	10/01/96	09/30/96
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
UNITS ---------->	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG

CAS #	Parameter	27045	VAL	27045	VAL	27065	VAL	27065	VAL	27065	VAL	27065	VAL
86290-81-5	Gasoline	63.7		37.6		17.	J	10.	J	10.	J	21.	J

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

TPH-GRO	SAMPLE ID ------>	FDS-S-C061-01	FDS-C-C061-01	FDS-S-C063-01	FDS-S-C064-01	FDS-S-C065-01	FDS-S-C066-01
	ORIGINAL ID ----->	FDSSC06101	FDSCC06101	FDSSC06301	FDSSC06401	FDSSC06501	FDSSC06601
	LAB SAMPLE ID --->	27065.13	27066.01	27090.15	27090.16	27090.19	27090.20
	ID FROM REPORT -->	FDSSC06101	FDSCC06101	FDSSC06301	FDSSC06401	FDSSC06501	FDSSC06601
	SAMPLE DATE ----->	09/24/96	09/24/96	09/25/96	09/25/96	09/25/96	09/25/96
	DATE ANALYZED --->	09/30/96	09/30/96	10/01/96	10/01/96	10/01/96	10/01/96
	MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
	UNITS ---------->	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG

CAS #	Parameter	27065	VAL	27065	VAL	27090	VAL	27090	VAL	27090	VAL	27090	VAL
86290-81-5	Gasoline	8.	J	8.	J	11.6	U	8.	J	147.		67.	J

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

TPH-GRO													
	SAMPLE ID ------>	FDS-S-C067-01		FDS-S-C068-01		FDS-S-C069-01		FDS-S-C070-01		FDS-S-C071-01		FDS-S-C072-01	
	ORIGINAL ID ----->	FDSSC06701		FDSSC06801		FDSSC06901		FDSSC07001		FDSSC07101		FDSSC07201	
	LAB SAMPLE ID --->	27090.21		27166.01		27166.02		27166.03		27166.04		27166.05	
	ID FROM REPORT -->	FDSSC06701		FDSSC06801		FDSSC06901		FDSSC07001		FDSSC07101		FDSSC07201	
	SAMPLE DATE ----->	09/25/96		09/30/96		09/30/96		09/30/96		09/30/96		10/01/96	
	DATE ANALYZED --->	10/01/96		10/03/96		10/03/96		10/03/96		10/03/96		10/03/96	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	27090	VAL	27166	VAL	27166	VAL	27166	VAL	27166	VAL	27166	VAL
86290-81-5	Gasoline	106.		18.	J	8.	J	15.		12.2	U	8.	J

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

TPH-GRO													
	SAMPLE ID ------>	FDS-S-C073-01		FDS-S-C074-01		FDS-S-C075-01		FDS-S-C076-01		FDS-S-C077-01		FDS-C-C077-01	
	ORIGINAL ID ----->	FDSSC07301		FDSSC07401		FDSSC07501		FDSSC07601		FDSSC07701		FDSCC07701	
	LAB SAMPLE ID --->	27166.06		27166.07		27166.08		27166.09		27166.10		27167.01	
	ID FROM REPORT -->	FDSSC07301		FDSSC07401		FDSSC07501		FDSSC07601		FDSSC07701		FDSCC07701	
	SAMPLE DATE ----->	10/01/96		10/01/96		10/01/96		10/01/96		10/01/96		10/01/96	
	DATE ANALYZED --->	10/03/96		10/03/96		10/03/96		10/03/96		10/03/96		10/04/96	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ----------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	27166	VAL	27166	VAL	27166	VAL	27166	VAL	27166	VAL	27166	VAL
86290-81-5	Gasoline	15.		8.	J	11.9	U	11.9	U	7.	J	16.	J

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

TPH-GRO	SAMPLE ID ------->	FDS-S-C078-01	FDS-S-C079-01	FDS-S-C080-01	FDS-C-C080-01	FDS-S-C081-01	FDS-S-C082-01
	ORIGINAL ID ----->	FDSSC07801	FDSSC07901	FDSSC08001	FDSCC08001	FDSSC08101	FDSSC08201
	LAB SAMPLE ID --->	27166.11	27166.12	27166.13	27167.02	27178.16	27178.17
	ID FROM REPORT -->	FDSSC07801	FDSSC07901	FDSSC08001	FDSCC08001	FDSSC08101	FDSSC08201
	SAMPLE DATE ----->	10/01/96	10/01/96	10/01/96	10/01/96	10/02/96	10/02/96
	DATE ANALYZED --->	10/03/96	10/03/96	10/03/96	10/04/96	10/04/96	10/04/96
	MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
	UNITS ---------->	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG

CAS #	Parameter	27166	VAL	27166	VAL	27166	VAL	27166	VAL	27178	VAL	27178	VAL
86290-81-5	Gasoline	11.6	U	12.2	U	12.1	U	12.3	U	9.	J	8.	J

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

TPH-GRO													
	SAMPLE ID ------->	FDS-S-C083-01		FDS-S-C084-01		FDS-S-C085-01		FDS-S-C086-01		FDS-C-C086-01		FDS-S-C087-01	
	ORIGINAL ID ----->	FDSSC08301		FDSSC08401		FDSSC08501		FDSSC08601		FDSCC08601		FDSSC08701	
	LAB SAMPLE ID --->	27178.20		27178.21		27178.22		27178.23		27179.01		27178.24	
	ID FROM REPORT -->	FDSSC08301		FDSSC08401		FDSSC08501		FDSSC08601		FDSCC08601		FDSSC08701	
	SAMPLE DATE ----->	10/02/96		10/02/96		10/02/96		10/02/96		10/02/96		10/02/96	
	DATE ANALYZED --->	10/04/96		10/04/96		10/04/96		10/04/96		10/04/96		10/04/96	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ----------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	27178	VAL	27178	VAL	27178	VAL	27178	VAL	27178	VAL	27178	VAL
86290-81-5	Gasoline	8.	J	7.	J	20.8	U	12.2	U	12.2	U	12.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

TPH-GRO	SAMPLE ID ------->>	FDS-S-C088-01	FDS-S-C089-01	FDS-S-C090-01	FDS-S-C091-01	FDS-C-C091-01	FDS-S-C092-01
	ORIGINAL ID ----->>	FDSSC08801	FDSSC08901	FDSSC09001	FDSSC09101	FDSCC09101	FDSSC09201
	LAB SAMPLE ID --->>	27178.25	27178.26	27212.01	27212.02	27213.01	27212.03
	ID FROM REPORT -->>	FDSSC08801	FDSSC08901	FDSSC09001	FDSSC09101	FDSCC09101	FDSSC09201
	SAMPLE DATE ----->>	10/02/96	10/02/96	10/03/96	10/03/96	10/03/96	10/03/96
	DATE ANALYZED --->>	10/04/96	10/04/96	10/10/96	10/09/96	10/07/96	10/09/96
	MATRIX ---------->>	Soil	Soil	Soil	Soil	Soil	Soil
	UNITS ----------->>	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG

CAS #	Parameter	27178	VAL	27178	VAL	27212	VAL	27212	VAL	27212	VAL	27212	VAL
86290-81-5	Gasoline	9.	J	35.		12.4	U	13.2	U	12.5	U	14.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

TPH-GRO												
	SAMPLE ID ------>	FDS-S-C093-01		FDS-S-C094-01		FDS-S-C096-01		FDS-S-C098-01		FDS-S-C099-01		FDS-S-C100-01	
	ORIGINAL ID ----->	FDSSC09301		FDSSC09401		FDSSC09601		FDSSC09801		FDSSC09901		FDSSC10001	
	LAB SAMPLE ID --->	27212.04		27212.07		27212.09		27212.12		27212.13		27212.14	
	ID FROM REPORT -->	FDSSC09301		FDSSC09401		FDSSC09601		FDSSC09801		FDSSC09901		FDSSC10001	
	SAMPLE DATE ----->	10/03/96		10/04/96		10/03/96		10/03/96		10/03/96		10/03/96	
	DATE ANALYZED --->	10/09/96		10/09/96		10/09/96		10/09/96		10/09/96		10/09/96	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	27212	VAL	27212	VAL	27212	VAL	27212	VAL	27212	VAL	27212	VAL
86290-81-5	Gasoline	11.7	U	11.9	U	12.2	U	12.4	U	12.9	U	19.1	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

TPH-GRO													
	SAMPLE ID ------->	FDS-C-C100-01		FDS-S-C101-01		FDS-S-C102-01		FDS-S-C103-01		FDS-S-C104-01		FDS-S-C104-02	
	ORIGINAL ID ----->	FDSCC10001		FDSSC10101		FDSSC10201		FDSSC10301		FDSSC10401		FDSSC10402	
	LAB SAMPLE ID --->	27213.03		27212.15		27212.16		27212.17		27212.18		27212.19	
	ID FROM REPORT -->	FDSCC10001		FDSSC10101		FDSSC10201		FDSSC10301		FDSSC10401		FDSSC10402	
	SAMPLE DATE ----->	10/04/96		10/03/96		10/03/96		10/03/96		10/04/96		10/04/96	
	DATE ANALYZED --->	10/07/96		10/09/96		10/09/96		10/09/96		10/09/96		10/09/96	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ----------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	27212	VAL	27212	VAL	27212	VAL	27212	VAL	27212	VAL	27212	VAL
86290-81-5	Gasoline	17.	J	12.6	U	18.1	U	12.6	U	11.8	U	14.1	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

TPH-GRO		SAMPLE ID ------>	FDS-S-C105-01		FDS-S-C106-01		FDS-S-C107-01		FDS-C-C107-01		FDS-S-C108-01		FDS-S-C109-01	
		ORIGINAL ID ----->	FDSSC10501		FDSSC10601		FDSSC10701		FDSCC10701		FDSSC10801		FDSSC10901	
		LAB SAMPLE ID --->	27232.01		27232.02		27232.03		27233.01		27232.04		27232.05	
		ID FROM REPORT -->	FDSSC10501		FDSSC10601		FDSSC10701		FDSCC10701		FDSSC10801		FDSSC10901	
		SAMPLE DATE ----->	10/04/96		10/04/96		10/04/96		10/04/96		10/04/96		10/05/96	
		DATE ANALYZED --->	10/10/96		10/10/96		10/10/96		10/11/96		10/10/96		10/10/96	
		MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
		UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter		27232	VAL	27232	VAL	27232	VAL	27232	VAL	27232	VAL	27232	VAL
86290-81-5	Gasoline		42.		7.	J	11.	J	8.	J	25.1	U	16.9	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

TPH-GRO	SAMPLE ID ------->	FDS-S-C110-01	FDS-S-C111-01	FDS-S-C112-01	FDS-S-C113-01	FDS-S-C114-01	FDS-C-C114-01
	ORIGINAL ID ----->	FDSSC11001	FDSSC11101	FDSSC11201	FDSSC11301	FDSSC11401	FDSCC11401
	LAB SAMPLE ID --->	27232.06	27232.07	27232.08	27232.09	27232.10	27233.02
	ID FROM REPORT -->	FDSSC11001	FDSSC11101	FDSSC11201	FDSSC11301	FDSSC11401	FDSCC11401
	SAMPLE DATE ----->	10/05/96	10/05/96	10/05/96	10/05/96	10/05/96	10/05/96
	DATE ANALYZED --->	10/10/96	10/10/96	10/10/96	10/10/96	10/10/96	10/11/96
	MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
	UNITS ----------->	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG

CAS #	Parameter	27232	VAL	27232	VAL	27232	VAL	27232	VAL	27232	VAL	27232	VAL
86290-81-5	Gasoline	13.2	U	13.6	U	9.	J	15.		10.9	U	12.4	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

TPH-GRO													
	SAMPLE ID ------>	FDS-S-C115-01		FDS-S-C47A-01		FDS-S-H001-01		FDS-S-H002-01		FDS-S-H003-01		FDS-S-H004-01	
	ORIGINAL ID ----->	FDSSC11501		FDSSC47A01		FDSSH00101		FDSSH00201		FDSSH00301		FDSSH00401	
	LAB SAMPLE ID --->	27232.11		27066.12		27367.01		27355.01		FDSSH00301		27355.03	
	ID FROM REPORT -->	FDSSC11501		FDSSC47A01		FDSSH00101		FDSSH00201		10/17/96		FDSSH00401	
	SAMPLE DATE ----->	10/05/96		09/24/96		10/18/96		10/17/96		10/22/96		10/17/96	
	DATE ANALYZED --->	10/10/96		09/30/96		10/24/96		10/22/96		Soil		10/22/96	
	MATRIX ---------->	Soil		Soil		Soil		Soil		UG/KG		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG				UG/KG	
CAS #	Parameter	27232	VAL	27065	VAL	27367	VAL	27339	VAL	27339	VAL	27339	VAL
86290-81-5	Gasoline	7.	J	1250.	U	10.	J	12.1	U	11.7	U	11.9	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

TPH-GRO													
	SAMPLE ID ------->	FDS-S-H005-01		FDS-S-H006-01		FDS-S-H007-01		FDS-S-H008-01		FDS-S-H009-01		FDS-S-H010-01	
	ORIGINAL ID ----->	FDSSH00501		FDSSH00601		FDSSH00701		FDSSH00801		FDSSH00901		FDSSH01001	
	LAB SAMPLE ID --->	FDSSH00501		27377.01		FDSSH00701		27377.02		27377.03		27377.04	
	ID FROM REPORT -->	FDSSH00501		FDSSH00601		FDSSH00701		FDSSH00801		FDSSH00901		FDSSH01001	
	SAMPLE DATE ----->	10/17/96		10/21/96		10/17/96		10/21/96		10/21/96		10/21/96	
	DATE ANALYZED --->	10/22/96		10/25/96		10/22/96		10/25/96		10/25/96		10/25/96	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ----------->	UG.KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	27339	VAL	27377	VAL	27339	VAL	27377	VAL	27377	VAL	27377	VAL
86290-81-5	Gasoline	13.2	U	9.	J	11.7	U	11.8	U	12.3	U	11.1	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

TPH-GRO		SAMPLE ID ------>	FDS-S-H011-01		FDS-S-H012-01		FDS-S-H013-01		FDS-S-H014-01		FDS-S-H015-01		FDS-S-H016-01	
		ORIGINAL ID ----->	FDSSH01101		FDSSH01201		FDSSH01301		FDSSH01401		FDSSH01501		FDSSH01601	
		LAB SAMPLE ID --->	FDSSH01101		27367.03		FDSSH01301		FDSSH01401		FDSSH01501		27367.04	
		ID FROM REPORT -->	FDSSH01101		FDSSH01201		FDSSH01301		FDSSH01401		FDSSH01501		FDSSH01601	
		SAMPLE DATE ----->	10/17/96		10/18/96		10/17/96		10/17/96		10/17/96		10/18/96	
		DATE ANALYZED --->	10/23/96		10/24/96		10/22/96		10/22/96		10/22/96		10/24/96	
		MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
		UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter		27339	VAL	27367	VAL	27339	VAL	27339	VAL	27339	VAL	27367	VAL
86290-81-5	Gasoline		12.2	U	9.	J	12.	U	10.	U	11.9	U	32.	

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

TPH-GRO													
		SAMPLE ID ------>	FDS-S-H017-01		FDS-S-H018-01		FDS-S-H019-01		FDS-S-H020-01		FDS-C-H020-01		FDS-S-H021-01	
		ORIGINAL ID ----->	FDSSH01701		FDSSH01801		FDSSH01901		FDSSH02001		FDSCH02001		FDSSH02101	
		LAB SAMPLE ID --->	27367.05		27367.06		27367.07		27367.02		27368.01		27367.10	
		ID FROM REPORT -->	FDSSH01701		FDSSH01801		FDSSH01901		FDSSH02001		FDSCH02001		FDSSH02101	
		SAMPLE DATE ----->	10/18/96		10/18/96		10/18/96		10/18/96		10/18/96		10/18/96	
		DATE ANALYZED --->	10/24/96		10/24/96		10/25/96		10/24/96		10/25/96		10/29/96	
		MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
		UNITS ----------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter		27367	VAL	27367	VAL	27367	VAL	27367	VAL	27367	VAL	27367	VAL
86290-81-5	Gasoline		12.	U	10.	J	12.3	U	11.8	U	11.9	U	10.	J

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

TPH-GRO													
	SAMPLE ID ------->	FDS-S-H022-01		FDS-S-H023-01		FDS-S-H024-01		FDS-C-H024-01		FDS-S-H025-01		FDS-S-H026-01	
	ORIGINAL ID ----->	FDSSH02201		FDSSH02301		FDSSH02401		FDSCH02401		FDSSH02501		FDSSH02601	
	LAB SAMPLE ID --->	27367.11		FDSSH02301		27377.09		27378.01		27377.08		27377.06	
	ID FROM REPORT -->	FDSSH02201		FDSSH02301		FDSSH02401		FDSCH02401		FDSSH02501		FDSSH02601	
	SAMPLE DATE ----->	10/18/96		10/17/96		10/21/96		10/21/96		10/21/96		10/21/96	
	DATE ANALYZED --->	10/29/96		10/22/96		10/25/96		10/30/96		10/25/96		10/25/96	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ----------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	27367	VAL	27339	VAL	27377	VAL	27377	VAL	27377	VAL	27377	VAL
86290-81-5	Gasoline	10.	J	501.	J	11.2	U	11.2	U	11.3	U	20.	

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G DPT SOIL AND GW
Fuel Distribution System CAR

TPH-GRO	SAMPLE ID ------->:	FDS-S-H027-01					
	ORIGINAL ID ----->:	FDSSH02701					
	LAB SAMPLE ID --->:	27377.05					
	ID FROM REPORT -->:	FDSSH02701					
	SAMPLE DATE ----->:	10/21/96					
	DATE ANALYZED --->:	10/25/96					
	MATRIX ---------->:	Soil					
	UNITS ----------->:	UG/KG					
CAS #	Parameter	27377	VAL				
86290-81-5	Gasoline	12.2	U				

*** Validation Complete ***

Quarterly Groundwater

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

CYANIDE								
	SAMPLE ID ------>	638-G-W001-01	GDG-G-W002-01	GDG-G-W002-02			
	ORIGINAL ID ----->	638GW00101	GDGGW00201	GDGGW00202			
	LAB SAMPLE ID --->	27755.01	27675.03	29767.06			
	ID FROM REPORT -->	638GW00101	GDGGW00201	GDGGW00202			
	SAMPLE DATE ----->	11/22/96	11/17/96	06/18/97			
	DATE EXTRACTED -->	12/03/96	11/22/96	06/25/97			
	DATE ANALYZED --->	12/04/96	11/23/96	06/26/97			
	MATRIX ---------->	Water	Water	Water			
	UNITS ---------->	UG/L	UG/L	UG/L			
CAS #	Parameter	27715 VAL	27651 VAL	29767 VAL			
57-12-5	Cyanide (CN)	2. U	2. U	2. U			

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-META													
	SAMPLE ID ------>	011-G-W001-01		011-G-W001-02		638-G-W001-01		638-G-W001-02		GDG-G-W002-01		GDG-G-W002-02	
	ORIGINAL ID ----->	011GW00101		011GW00102		638GW00101		638GW00102		GDGGW00201		GDGGW00202	
	LAB SAMPLE ID --->	27581.03		29403.01		27755.01		29487.02		27675.03		29767.06	
	ID FROM REPORT -->	011GW00101		011GW00102		638GW00101		638GW00102		GDGGW00201		GDGGW00202	
	SAMPLE DATE ----->	11/11/96		05/16/97		11/22/96		05/23/97		11/17/96		06/18/97	
	DATE EXTRACTED -->	11/19/96		05/19/97		12/04/96		05/28/97		11/22/96		06/26/97	
	DATE ANALYZED --->	11/21/96		05/28/97		12/08/96		06/05/97		11/23/96		07/09/97	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	27581	VAL	29360	VAL	27715	VAL	29437	VAL	27651	VAL	29767	VAL
7429-90-5	Aluminum (Al)	60.2	J	48.3	U	26.7	J	14.	UJ	176.	J	8.	UJ
7440-36-0	Antimony (Sb)	2.1	U	2.9	U	2.1	U	3.4	U	2.1	U	3.8	J
7440-38-2	Arsenic (As)	4.4	J	2.1	U	5.1	J	5.	J	7.8	J	10.	J
7440-39-3	Barium (Ba)	21.8	J	18.1		23.8	J	16.4	J	13.6		17.4	
7440-41-7	Beryllium (Be)	0.3	U	0.2	J	0.3	U	0.2	UJ	0.76	U	0.38	U
7440-43-9	Cadmium (Cd)	2.2	U	0.3	U	0.5	U	0.3	U	0.5	U	0.4	J
7440-70-2	Calcium (Ca)	63400.		60900.		89500.		69000.	J	91400.		90700.	
7440-47-3	Chromium (Cr)	0.8	U	1.	U	0.8	U	1.	U	2.3	U	1.	U
7440-48-4	Cobalt (Co)	1.2	J	1.4	J	0.9	U	2.6	U	0.9	U	0.8	U
7440-50-8	Copper (Cu)	1.5	U	1.4	U	0.6	U	1.4	U	0.6	U	1.4	U
7439-89-6	Iron (Fe)	487.		1220.		6680.		5870.	J	28200.		35700.	
7439-92-1	Lead (Pb)	1.7	U	0.9	U	1.7	UJ	0.9	UJ	1.7	UJ	0.9	U
7439-95-4	Magnesium (Mg)	34300.		30700.		259000.		224000.	J	100000.		81000.	
7439-96-5	Manganese (Mn)	194.		186.		196.		116.	J	2630.		2820.	
7439-97-6	Mercury (Hg)	0.1	U	0.1	U	0.2	U	0.1	U	0.14	U	0.1	U
7440-02-0	Nickel (Ni)	2.4	U	0.7	U	0.8	U	0.83	J	2.	J	0.7	UJ
7440-09-7	Potassium (K)	12100.		10500.		109000.		146000.		46400.		49800.	
7782-49-2	Selenium (Se)	2.8	U	3.4	U	2.8	UJ	3.4	U	2.8	U	4.1	J
7440-22-4	Silver (Ag)	1.2	U	1.3	U	1.2	U	1.	U	1.7	J	1.	U
7440-23-5	Sodium (Na)	162000.		128000.		2520000.		2620000.		694000.		576000.	J
7440-28-0	Thallium (Tl)	2.7	U	5.	U	2.7	U	6.4	J	2.7	U	8.1	U
7440-31-5	Tin (Sn)	3.6	U	14.	U	2.9	U	14.	U	2.6	U	14.	U
7440-62-2	Vanadium (V)	4.2	J	2.6	J	0.67	U	1.1	U	2.7	J	3.1	J
7440-66-6	Zinc (Zn)	5.3	U	5.8	U	5.3	U	5.8	U	5.3	U	5.8	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-PEST									
	SAMPLE ID ------>	638-G-W001-01		638-G-W001-02		GDG-G-W002-01		GDG-G-W002-02	
	ORIGINAL ID ----->	638GW00101		638GW00102		GDGGW00201		GDGGW00202	
	LAB SAMPLE ID --->	27755.01		29487.02		27675.03		29767.06	
	ID FROM REPORT -->	638GW00101		638GW00102		GDGGW00201		GDGGW00202	
	SAMPLE DATE ----->	11/22/96		05/23/97		11/17/96		06/18/97	
	DATE EXTRACTED -->	11/24/96		05/24/97		11/20/96		06/20/97	
	DATE ANALYZED --->	12/02/96		06/04/97		11/27/96		06/25/97	
	MATRIX ---------->	Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	27715	VAL	29437	VAL	27651	VAL	29767	VAL
319-84-6	alpha-BHC	0.04	U	0.04	U	0.04	UJ	0.04	U
319-85-7	beta-BHC	0.04	U	0.04	U	0.04	UJ	0.04	U
319-86-8	delta-BHC	0.04	U	0.04	U	0.04	UJ	0.04	U
58-89-9	gamma-BHC (Lindane)	0.04	U	0.04	U	0.04	UJ	0.04	U
76-44-8	Heptachlor	0.04	U	0.04	U	0.04	UJ	0.04	U
309-00-2	Aldrin	0.04	U	0.04	U	0.04	UJ	0.04	U
1024-57-3	Heptachlor epoxide	0.04	U	0.04	U	0.04	UJ	0.04	U
959-98-8	Endosulfan I	0.04	U	0.04	U	0.04	UJ	0.04	U
60-57-1	Dieldrin	0.08	U	0.08	U	0.08	UJ	0.08	U
72-55-9	4,4'-DDE	0.08	U	0.08	U	0.08	UJ	0.08	U
72-20-8	Endrin	0.08	U	0.08	U	0.08	UJ	0.08	U
33213-65-9	Endosulfan II	0.08	U	0.08	U	0.08	UJ	0.08	U
72-54-8	4,4'-DDD	0.08	U	0.08	U	0.08	UJ	0.08	U
1031-07-8	Endosulfan sulfate	0.08	U	0.08	U	0.08	UJ	0.08	U
50-29-3	4,4'-DDT	0.08	U	0.08	U	0.08	UJ	0.08	U
72-43-5	Methoxychlor	0.38	U	0.38	U	0.38	UJ	0.38	U
53494-70-5	Endrin ketone	0.08	U	0.08	U	0.08	UJ	0.08	U
7421-93-4	Endrin aldehyde	0.08	U	0.08	U	0.08	UJ	0.08	U
5103-71-9	alpha-Chlordane	0.04	U	0.04	U	0.04	UJ	0.04	U
5103-74-2	gamma-Chlordane	0.04	U	0.04	U	0.04	UJ	0.04	U
8001-35-2	Toxaphene	2.5	U	2.5	U	2.5	UJ	2.5	U
12674-11-2	Aroclor-1016	1.	U	1.	U	1.	UJ	1.	U
11104-28-2	Aroclor-1221	1.	U	1.	U	1.	UJ	1.	U
11141-16-5	Aroclor-1232	1.	U	1.	U	1.	UJ	1.	U
53469-21-9	Aroclor-1242	1.	U	1.	U	1.	UJ	1.	U
12672-29-6	Aroclor-1248	1.	U	1.	U	1.	UJ	1.	U
11097-69-1	Aroclor-1254	2.	U	2.	U	2.	UJ	2.	U
11096-82-5	Aroclor-1260	2.	U	2.	U	2.	UJ	2.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-SVOA	SAMPLE ID ------->	638-G-W001-01	638-G-W001-02	GDG-G-W002-01	GDG-G-W002-02		
	ORIGINAL ID ----->	638GW00101	638GW00102	GDGGW00201	GDGGW00202		
	LAB SAMPLE ID --->	27755.01	29487.02	27675.03	29767.06		
	ID FROM REPORT -->	638GW00101	638GW00102	GDGGW00201	GDGGW00202		
	SAMPLE DATE ----->	11/22/96	05/23/97	11/17/96	06/18/97		
	DATE EXTRACTED -->	11/25/96	05/27/97	11/20/96	07/01/97		
	DATE ANALYZED --->	12/08/96	06/01/97	12/04/96	06/27/97		
	MATRIX ---------->	Water	Water	Water	Water		
	UNITS ---------->	UG/L	UG/L	UG/L	UG/L		

CAS #	Parameter	27715	VAL	29437	VAL	27651	VAL	29767	VAL		
108-95-2	Phenol	10.	U	10.	U	10.	U	10.	U		
111-44-4	bis(2-Chloroethyl)ether	10.	U	10.	U	10.	U	10.	U		
95-57-8	2-Chlorophenol	10.	U	10.	U	10.	U	10.	U		
541-73-1	1,3-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U		
106-46-7	1,4-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U		
100-51-6	Benzyl alcohol	10.	U	10.	U	10.	U	10.	U		
95-50-1	1,2-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U		
95-48-7	2-Methylphenol (o-Cresol)	10.	U	10.	U	10.	U	10.	U		
108-60-1	2,2'-oxybis(1-Chloropropane)	10.	U	10.	U	10.	U	10.	U		
106-44-5	4-Methylphenol (p-Cresol)	10.	U	10.	U	10.	U	10.	U		
621-64-7	N-Nitroso-di-n-propylamine	10.	U	10.	U	10.	U	10.	U		
67-72-1	Hexachloroethane	10.	U	10.	U	10.	U	10.	U		
98-95-3	Nitrobenzene	10.	U	10.	U	10.	U	10.	U		
78-59-1	Isophorone	10.	U	10.	U	10.	U	10.	U		
88-75-5	2-Nitrophenol	10.	U	10.	U	10.	U	10.	U		
105-67-9	2,4-Dimethylphenol	10.	U	10.	U	10.	U	10.	U		
65-85-0	Benzoic acid	50.	U	50.	U	50.	U	50.	U		
111-91-1	bis(2-Chloroethoxy)methane	10.	U	10.	U	10.	U	10.	U		
120-83-2	2,4-Dichlorophenol	10.	U	10.	U	10.	U	10.	U		
120-82-1	1,2,4-Trichlorobenzene	10.	U	10.	U	10.	U	10.	U		
91-20-3	Naphthalene	10.	U	10.	U	10.	U	10.	U		
106-47-8	4-Chloroaniline	10.	U	10.	U	10.	U	10.	U		
87-68-3	Hexachlorobutadiene	10.	U	10.	U	10.	U	10.	U		
59-50-7	4-Chloro-3-methylphenol	10.	U	10.	U	10.	U	10.	U		
91-57-6	2-Methylnaphthalene	10.	U	10.	U	10.	U	10.	U		
77-47-4	Hexachlorocyclopentadiene	10.	U	10.	U	10.	U	10.	U		
88-06-2	2,4,6-Trichlorophenol	10.	U	10.	U	10.	U	10.	U		
95-95-4	2,4,5-Trichlorophenol	50.	U	50.	U	50.	U	50.	U		
91-58-7	2-Chloronaphthalene	10.	U	10.	U	10.	U	10.	U		
88-74-4	2-Nitroaniline	50.	U	50.	U	50.	U	50.	U		
131-11-3	Dimethyl phthalate	10.	U	10.	U	10.	U	10.	U		
208-96-8	Acenaphthylene	10.	U	10.	U	10.	U	10.	U		
606-20-2	2,6-Dinitrotoluene	10.	U	10.	U	10.	U	10.	U		
99-09-2	3-Nitroaniline	50.	U	50.	U	50.	U	50.	U		
83-32-9	Acenaphthene	10.	U	10.	U	10.	U	10.	U		
51-28-5	2,4-Dinitrophenol	50.	U	50.	U	50.	UJ	50.	U		

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-SVOA									
	SAMPLE ID ------>	638-G-W001-01		638-G-W001-02		GDG-G-W002-01		GDG-G-W002-02	
	ORIGINAL ID ----->	638GW00101		638GW00102		GDGGW00201		GDGGW00202	
	LAB SAMPLE ID --->	27755.01		29487.02		27675.03		29767.06	
	ID FROM REPORT -->	638GW00101		638GW00102		GDGGW00201		GDGGW00202	
	SAMPLE DATE ----->	11/22/96		05/23/97		11/17/96		06/18/97	
	DATE EXTRACTED -->	11/25/96		05/27/97		11/20/96		07/01/97	
	DATE ANALYZED --->	12/08/96		06/01/97		12/04/96		06/27/97	
	MATRIX ---------->	Water		Water		Water		Water	
	UNITS ----------->	UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	27715	VAL	29437	VAL	27651	VAL	29767	VAL
100-02-7	4-Nitrophenol	50.	U	50.	U	50.	U	50.	U
132-64-9	Dibenzofuran	10.	U	10.	U	10.	U	10.	U
121-14-2	2,4-Dinitrotoluene	10.	U	10.	U	10.	U	10.	U
84-66-2	Diethylphthalate	10.	U	10.	U	10.	U	10.	U
7005-72-3	4-Chlorophenylphenylether	10.	U	10.	U	10.	U	10.	U
86-73-7	Fluorene	10.	U	10.	U	10.	U	10.	U
100-01-6	4-Nitroaniline	50.	U	50.	U	50.	U	50.	U
534-52-1	2-Methyl-4,6-Dinitrophenol	50.	U	50.	U	50.	U	50.	U
86-30-6	N-Nitrosodiphenylamine	10.	U	10.	U	10.	U	10.	U
101-55-3	4-Bromophenyl-phenylether	10.	U	10.	U	10.	U	10.	U
118-74-1	Hexachlorobenzene	10.	U	10.	U	10.	U	10.	U
87-86-5	Pentachlorophenol	50.	U	50.	U	50.	U	50.	U
85-01-8	Phenanthrene	10.	U	10.	U	10.	U	10.	U
120-12-7	Anthracene	10.	U	10.	U	10.	U	10.	U
84-74-2	Di-n-butylphthalate	10.	U	10.	U	10.	U	10.	U
206-44-0	Fluoranthene	10.	U	10.	U	10.	U	10.	U
129-00-0	Pyrene	10.	U	10.	U	10.	U	10.	U
85-68-7	Butylbenzylphthalate	10.	U	10.	U	10.	U	10.	U
91-94-1	3,3'-Dichlorobenzidine	20.	U	20.	U	20.	U	20.	U
56-55-3	Benzo(a)anthracene	10.	U	10.	U	10.	U	10.	U
218-01-9	Chrysene	10.	U	10.	U	10.	U	10.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	10.	U	10.	U	10.	U	10.	U
117-84-0	Di-n-octyl phthalate	10.	U	10.	U	10.	U	10.	U
205-99-2	Benzo(b)fluoranthene	10.	U	10.	U	10.	U	10.	U
207-08-9	Benzo(k)fluoranthene	10.	U	10.	U	10.	U	10.	U
50-32-8	Benzo(a)pyrene	10.	U	10.	U	10.	U	10.	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U	10.	U	10.	U	10.	U
53-70-3	Dibenz(a,h)anthracene	10.	U	10.	U	10.	U	10.	U
191-24-2	Benzo(g,h,i)perylene	10.	U	10.	U	10.	U	10.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-VOA	SAMPLE ID ------>	638-G-W001-01	638-G-W001-02	GDG-G-W002-01	GDG-G-W002-02		
	ORIGINAL ID ----->	638GW00101	638GW00102	GDGGW00201	GDGGW00202		
	LAB SAMPLE ID --->	27755.01	29487.02	27675.03	29767.06		
	ID FROM REPORT -->	638GW00101	638GW00102	GDGGW00201	GDGGW00202		
	SAMPLE DATE ----->	11/22/96	05/23/97	11/17/96	06/18/97		
	DATE ANALYZED --->	12/02/96	05/29/97	11/20/96	06/20/97		
	MATRIX ---------->	Water	Water	Water	Water		
	UNITS ---------->	UG/L	UG/L	UG/L	UG/L		

CAS #	Parameter	27715	VAL	29437	VAL	27651	VAL	29767	VAL		
74-87-3	Chloromethane	10.	U	10.	U	10.	U	10.	U		
74-83-9	Bromomethane	10.	U	10.	U	10.	U	10.	U		
75-01-4	Vinyl chloride	10.	U	10.	U	10.	U	10.	U		
75-00-3	Chloroethane	10.	U	10.	U	10.	U	10.	U		
75-09-2	Methylene chloride	5.	U	5.	U	7.	U	5.	U		
67-64-1	Acetone	10.	UJ	10.	U	10.	U	10.	U		
75-15-0	Carbon disulfide	5.	U	5.	U	5.	U	5.	U		
75-35-4	1,1-Dichloroethene	5.	U	5.	U	5.	U	5.	U		
75-34-3	1,1-Dichloroethane	5.	U	5.	U	5.	U	5.	U		
540-59-0	1,2-Dichloroethene (total)	5.	U	5.	U	5.	U	5.	U		
67-66-3	Chloroform	5.	U	5.	U	5.	U	5.	U		
107-06-2	1,2-Dichloroethane	5.	U	5.	U	5.	U	5.	U		
78-93-3	2-Butanone (MEK)	10.	U	10.	U	10.	U	10.	U		
71-55-6	1,1,1-Trichloroethane	5.	U	5.	U	5.	U	5.	U		
56-23-5	Carbon tetrachloride	5.	U	5.	U	5.	U	5.	U		
75-27-4	Bromodichloromethane	5.	U	5.	U	5.	U	5.	U		
78-87-5	1,2-Dichloropropane	5.	U	5.	U	5.	U	5.	U		
10061-01-5	cis-1,3-Dichloropropene	5.	U	5.	U	5.	U	5.	U		
79-01-6	Trichloroethene	5.	U	5.	U	5.	U	5.	U		
124-48-1	Dibromochloromethane	5.	U	5.	U	5.	U	5.	U		
79-00-5	1,1,2-Trichloroethane	5.	U	5.	U	5.	U	5.	U		
71-43-2	Benzene	5.	U	5.	U	5.	U	5.	U		
10061-02-6	trans-1,3-Dichloropropene	5.	U	5.	U	5.	U	5.	U		
75-25-2	Bromoform	5.	U	5.	U	5.	U	5.	U		
108-10-1	4-Methyl-2-Pentanone (MIBK)	10.	U	10.	U	10.	U	10.	U		
591-78-6	2-Hexanone	10.	U	10.	U	10.	U	10.	U		
127-18-4	Tetrachloroethene	5.	U	5.	U	5.	U	5.	U		
79-34-5	1,1,2,2-Tetrachloroethane	5.	U	5.	U	5.	U	5.	U		
108-88-3	Toluene	5.	U	5.	U	5.	U	5.	U		
108-90-7	Chlorobenzene	5.	U	5.	U	5.	U	5.	U		
100-41-4	Ethylbenzene	5.	U	5.	U	5.	U	5.	U		
100-42-5	Styrene	5.	U	5.	U	5.	U	5.	U		
1330-20-7	Xylene (Total)	5.	U	5.	U	5.	U	5.	U		
108-05-4	Vinyl acetate	10.	U	10.	U	10.	U	10.	U		
110-75-8	2-Chloroethyl vinyl ether	10.	UR	10.	U	10.	U	10.	U		

*** Validation Complete ***

CHARLESTON - ZONE F
CHARLESTON ZONE F GW (ONLY)
Fuel Distribution System CAR

PH							
	SAMPLE ID ------->	620-G-W003-A1					
	ORIGINAL ID ----->	620GW003A1					
	LAB SAMPLE ID --->	29237.06					
	ID FROM REPORT -->	620GW003A1					
	SAMPLE DATE ----->	05/01/97					
	DATE ANALYZED --->	05/02/97					
	MATRIX ---------->	Water					
	UNITS ----------->	SU					
CAS #	Parameter	29230					
9999900-09-4	pH	7.02					

CHARLESTON - ZONE F
CHARLESTON ZONE F GW (ONLY)
Fuel Distribution System CAR

SW846-META												
	SAMPLE ID ------>	619-G-W003-01		619-G-W003-02		620-G-W003-A1		620-G-W003-A2				
	ORIGINAL ID ----->	619GW00301		619GW00302		620GW003A1		620GW003A2				
	LAB SAMPLE ID --->	27583.01		29306.01		29237.06		30849.01				
	ID FROM REPORT -->	619GW00301		619GW00302		620GW003A1		620GW003A2				
	SAMPLE DATE ----->	11/09/96		05/08/97		05/01/97		09/02/97				
	DATE EXTRACTED -->	11/18/96		05/12/97		05/07/97		09/11/97				
	DATE ANALYZED --->	11/20/96		05/16/97		05/13/97		09/26/97				
	MATRIX ---------->	Water		Water		Water		Water				
	UNITS ----------->	UG/L		UG/L		UG/L		UG/L				
CAS #	Parameter	27502	VAL	29306	VAL	29230	VAL	30849	VAL			
7429-90-5	Aluminum (Al)	233.		10.3	J	8.	U	182.				
7440-36-0	Antimony (Sb)	2.1	U	4.9	J	1.6	U	2.7	U			
7440-38-2	Arsenic (As)	3.	J	8.	J	2.1	UJ	11.1				
7440-39-3	Barium (Ba)	92.2		69.2		32.9		67.2				
7440-41-7	Beryllium (Be)	0.7	U	0.39	J	0.43	U	0.3	U			
7440-43-9	Cadmium (Cd)	0.5	U	0.3	U	0.3	J	0.3	U			
7440-70-2	Calcium (Ca)	205000.		200000.		129000.		134000.				
7440-47-3	Chromium (Cr)	1.	J	1.5	J	1.	U	1.4	J			
7440-48-4	Cobalt (Co)	1.	U	1.4	J	0.8	U	0.6	U			
7440-50-8	Copper (Cu)	0.6	U	1.4	U	2.5	J	2.6	U			
7439-89-6	Iron (Fe)	32000.		17000.		6880.		11700.				
7439-92-1	Lead (Pb)	1.7	U	0.9	U	0.9	U	1.1	U			
7439-95-4	Magnesium (Mg)	356000.		497000.		23100.		18800.				
7439-96-5	Manganese (Mn)	1420.		702.		749.		604.				
7439-97-6	Mercury (Hg)	0.1	U	0.12	U	0.1	U	0.2	U			
7440-02-0	Nickel (Ni)	0.83	U	1.5	J	0.7	U	1.3	U			
7440-09-7	Potassium (K)	163000.		158000.		16800.		19200.				
7782-49-2	Selenium (Se)	3.1	U	3.4	UJ	3.4	U	3.4	U			
7440-22-4	Silver (Ag)	1.2	U	1.	UJ	1.	U	1.	U			
7440-23-5	Sodium (Na)	3840000.		4600000.		75900.		71400.				
7440-28-0	Thallium (Tl)	6.6	J	7.	U	5.2	J	4.6	U			
7440-31-5	Tin (Sn)	12.4	U	14.	U	14.	U	4.5	U			
7440-62-2	Vanadium (V)	0.5	U	7.5	J	1.1	U	1.3	U			
7440-66-6	Zinc (Zn)	5.3	U	5.8	U	5.8	U	11.	U			

*** Validation Complete ***

CHARLESTON - ZONE F
CHARLESTON ZONE F GW (ONLY)
Fuel Distribution System CAR

SW846-OP P

SAMPLE ID ------->	619-G-W003-01
ORIGINAL ID ----->	619GW00301
LAB SAMPLE ID --->	27583.01
ID FROM REPORT -->	619GW00301
SAMPLE DATE ----->	11/09/96
DATE EXTRACTED -->	11/13/96
DATE ANALYZED --->	11/26/96
MATRIX ---------->	Water
UNITS ----------->	UG/L

CAS #	Parameter	27502	VAL
298-02-2	Phorate	2.	U
298-04-4	Disulfoton	3.7	U
298-00-0	Methyl parathion	0.5	U

*** Validation Complete ***

CHARLESTON - ZONE F
CHARLESTON ZONE F GW (ONLY)
Fuel Distribution System CAR

SW846-PEST							
SAMPLE ID ------->	619-G-W003-01		619-G-W003-02				
ORIGINAL ID ----->	619GW00301		619GW00302				
LAB SAMPLE ID --->	27583.01		29306.01				
ID FROM REPORT -->	619GW00301		619GW00302				
SAMPLE DATE ----->	11/09/96		05/08/97				
DATE EXTRACTED -->	11/13/96		05/09/97				
DATE ANALYZED --->	11/18/96		05/15/97				
MATRIX ---------->	Water		Water				
UNITS ----------->	UG/L		UG/L				
CAS #	Parameter	27502 VAL	29306 VAL				
319-84-6	alpha-BHC	0.04 U	0.04 UJ				
319-85-7	beta-BHC	0.04 U	0.04 UJ				
319-86-8	delta-BHC	0.04 U	0.04 UJ				
58-89-9	gamma-BHC (Lindane)	0.04 U	0.04 UJ				
76-44-8	Heptachlor	0.04 U	0.04 UJ				
309-00-2	Aldrin	0.04 U	0.04 UJ				
1024-57-3	Heptachlor epoxide	0.04 U	0.04 UJ				
959-98-8	Endosulfan I	0.04 U	0.04 UJ				
60-57-1	Dieldrin	0.08 U	0.08 UJ				
72-55-9	4,4'-DDE	0.08 U	0.08 UJ				
72-20-8	Endrin	0.08 U	0.08 UJ				
33213-65-9	Endosulfan II	0.08 U	0.08 UJ				
72-54-8	4,4'-DDD	0.08 U	0.08 UJ				
1031-07-8	Endosulfan sulfate	0.08 U	0.08 UJ				
50-29-3	4,4'-DDT	0.08 U	0.08 UJ				
72-43-5	Methoxychlor	0.38 U	0.38 UJ				
53494-70-5	Endrin ketone	0.08 U	0.08 UJ				
7421-93-4	Endrin aldehyde	0.08 U	0.08 UJ				
5103-71-9	alpha-Chlordane	0.04 U	0.04 UJ				
5103-74-2	gamma-Chlordane	0.04 U	0.04 UJ				
8001-35-2	Toxaphene	2.5 U	2.5 UJ				
12674-11-2	Aroclor-1016	1. U	1. UJ				
11104-28-2	Aroclor-1221	1. U	1. UJ				
11141-16-5	Aroclor-1232	1. U	1. UJ				
53469-21-9	Aroclor-1242	1. U	1. UJ				
12672-29-6	Aroclor-1248	1. U	1. UJ				
11097-69-1	Aroclor-1254	2. U	2. UJ				
11096-82-5	Aroclor-1260	2. U	2. UJ				

*** Validation Complete ***

CHARLESTON - ZONE F
CHARLESTON ZONE F GW (ONLY)
Fuel Distribution System CAR

SW846-SVOA								
SAMPLE ID ------>	619-G-W003-01		619-G-W003-02		620-G-W003-A2			
ORIGINAL ID ----->	619GW00301		619GW00302		620GW003A2			
LAB SAMPLE ID --->	27583.01		29306.01		30849.01			
ID FROM REPORT -->	619GW00301		619GW00302		620GW003A2			
SAMPLE DATE ----->	11/09/96		05/08/97		09/02/97			
DATE EXTRACTED -->	11/13/96		05/10/97		09/04/97			
DATE ANALYZED --->	12/03/96		05/15/97		09/22/97			
MATRIX ---------->	Water		Water		Water			
UNITS ---------->	UG/L		UG/L		UG/L			

CAS #	Parameter	27502	VAL	29306	VAL	30849	VAL			
108-95-2	Phenol	10.	U	10.	U	10.	U			
111-44-4	bis(2-Chloroethyl)ether	10.	U	10.	U	10.	U			
95-57-8	2-Chlorophenol	10.	U	10.	U	10.	U			
541-73-1	1,3-Dichlorobenzene	10.	U	10.	U	10.	U			
106-46-7	1,4-Dichlorobenzene	10.	U	10.	U	10.	U			
100-51-6	Benzyl alcohol	10.	U	10.	U	10.	U			
95-50-1	1,2-Dichlorobenzene	10.	U	10.	U	10.	U			
95-48-7	2-Methylphenol (o-Cresol)	10.	U	10.	U	10.	U			
108-60-1	2,2'-oxybis(1-Chloropropane)	10.	U	10.	U	10.	U			
106-44-5	4-Methylphenol (p-Cresol)	6.	J	10.	U	10.	U			
621-64-7	N-Nitroso-di-n-propylamine	10.	U	10.	U	10.	U			
67-72-1	Hexachloroethane	10.	U	10.	U	10.	U			
98-95-3	Nitrobenzene	10.	U	10.	U	10.	U			
78-59-1	Isophorone	10.	U	10.	U	10.	U			
88-75-5	2-Nitrophenol	10.	U	10.	U	10.	U			
105-67-9	2,4-Dimethylphenol	10.	U	10.	U	10.	U			
65-85-0	Benzoic acid	50.	U	50.	U	4.	J			
111-91-1	bis(2-Chloroethoxy)methane	10.	U	10.	U	10.	U			
120-83-2	2,4-Dichlorophenol	10.	U	10.	U	10.	U			
120-82-1	1,2,4-Trichlorobenzene	10.	U	10.	U	10.	U			
91-20-3	Naphthalene	2.	J	1.	J	10.	U			
106-47-8	4-Chloroaniline	10.	U	10.	U	10.	U			
87-68-3	Hexachlorobutadiene	10.	U	10.	U	10.	U			
59-50-7	4-Chloro-3-methylphenol	10.	U	10.	U	1.	J			
91-57-6	2-Methylnaphthalene	3.	J	10.	U	10.	U			
77-47-4	Hexachlorocyclopentadiene	10.	U	10.	U	10.	UJ			
88-06-2	2,4,6-Trichlorophenol	10.	U	10.	U	10.	U			
95-95-4	2,4,5-Trichlorophenol	50.	U	50.	U	50.	U			
91-58-7	2-Chloronaphthalene	10.	U	10.	U	10.	U			
88-74-4	2-Nitroaniline	50.	U	50.	U	50.	U			
131-11-3	Dimethyl phthalate	10.	U	10.	U	10.	U			
208-96-8	Acenaphthylene	10.	U	10.	U	10.	U			
99-09-2	3-Nitroaniline	50.	U	50.	U	50.	U			
83-32-9	Acenaphthene	2.	J	10.	U	2.	J			
51-28-5	2,4-Dinitrophenol	50.	U	50.	U	50.	U			
100-02-7	4-Nitrophenol	50.	U	50.	U	50.	U			

*** Validation Complete ***

CHARLESTON - ZONE F
CHARLESTON ZONE F GW (ONLY)
Fuel Distribution System CAR

SW846-SVOA											
	SAMPLE ID ------->	619-G-W003-01		619-G-W003-02		620-G-W003-A2					
	ORIGINAL ID ----->	619GW00301		619GW00302		620GW003A2					
	LAB SAMPLE ID --->	27583.01		29306.01		30849.01					
	ID FROM REPORT -->	619GW00301		619GW00302		620GW003A2					
	SAMPLE DATE ----->	11/09/96		05/08/97		09/02/97					
	DATE EXTRACTED -->	11/13/96		05/10/97		09/04/97					
	DATE ANALYZED --->	12/03/96		05/15/97		09/22/97					
	MATRIX ---------->	Water		Water		Water					
	UNITS ---------->	UG/L		UG/L		UG/L					
CAS #	Parameter	27502	VAL	29306	VAL	30849	VAL				
132-64-9	Dibenzofuran	2.	J	10.	U	10.	U				
121-14-2	2,4-Dinitrotoluene	10.	U	10.	U	10.	U				
606-20-2	2,6-Dinitrotoluene	10.	U	10.	U	10.	U				
84-66-2	Diethylphthalate	10.	U	10.	U	10.	U				
7005-72-3	4-Chlorophenylphenylether	10.	U	10.	U	10.	U				
86-73-7	Fluorene	4.	J	10.	U	10.	U				
100-01-6	4-Nitroaniline	50.	U	50.	U	50.	U				
534-52-1	2-Methyl-4,6-Dinitrophenol	50.	U	50.	U	50.	U				
86-30-6	N-Nitrosodiphenylamine	10.	U	10.	U	10.	U				
101-55-3	4-Bromophenyl-phenylether	10.	U	10.	U	10.	U				
118-74-1	Hexachlorobenzene	10.	U	10.	U	10.	U				
87-86-5	Pentachlorophenol	50.	U	50.	U	50.	U				
85-01-8	Phenanthrene	2.	J	10.	U	10.	U				
120-12-7	Anthracene	10.	U	10.	U	10.	U				
84-74-2	Di-n-butylphthalate	10.	U	10.	U	10.	U				
206-44-0	Fluoranthene	10.	U	10.	U	10.	U				
129-00-0	Pyrene	10.	U	10.	U	10.	U				
85-68-7	Butylbenzylphthalate	10.	U	10.	U	10.	U				
91-94-1	3,3'-Dichlorobenzidine	20.	U	20.	U	20.	U				
56-55-3	Benzo(a)anthracene	10.	U	10.	U	10.	U				
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	10.	U	10.	U	10.	U				
218-01-9	Chrysene	10.	U	10.	U	10.	U				
117-84-0	Di-n-octyl phthalate	10.	U	10.	U	10.	U				
205-99-2	Benzo(b)fluoranthene	10.	U	10.	U	10.	U				
207-08-9	Benzo(k)fluoranthene	10.	U	10.	U	10.	U				
50-32-8	Benzo(a)pyrene	10.	U	10.	U	10.	U				
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U	10.	U	10.	U				
53-70-3	Dibenz(a,h)anthracene	10.	U	10.	U	10.	U				
191-24-2	Benzo(g,h,i)perylene	10.	U	10.	U	10.	U				

*** Validation Complete ***

CHARLESTON - ZONE F
CHARLESTON ZONE F GW (ONLY)
Fuel Distribution System CAR

SW846-VOA									
	SAMPLE ID ------>	619-G-W003-01		619-G-W003-02		620-G-W003-A2			
	ORIGINAL ID ----->	619GW00301		619GW00302		620GW003A2			
	LAB SAMPLE ID --->	27583.01		29306.01		30849.01			
	ID FROM REPORT -->	619GW00301		619GW00302		620GW003A2			
	SAMPLE DATE ----->	11/09/96		05/08/97		09/02/97			
	DATE ANALYZED --->	11/14/96		05/12/97		09/12/97			
	MATRIX ---------->	Water		Water		Water			
	UNITS ---------->	UG/L		UG/L		UG/L			
CAS #	Parameter	27502	VAL	29306	VAL	30849	VAL		
74-87-3	Chloromethane	8.	J	10.	U	10.	U		
74-83-9	Bromomethane	10.	U	10.	U	10.	U		
75-01-4	Vinyl chloride	10.	U	10.	U	10.	U		
75-00-3	Chloroethane	10.	U	10.	U	10.	U		
75-09-2	Methylene chloride	5.	U	5.	U	5.	U		
67-64-1	Acetone	29.	U	10.	U	10.	U		
75-15-0	Carbon disulfide	5.	U	5.	U	5.	U		
75-35-4	1,1-Dichloroethene	5.	U	5.	U	5.	U		
75-34-3	1,1-Dichloroethane	5.	U	5.	U	5.	U		
540-59-0	1,2-Dichloroethene (total)	5.	U	5.	U	5.	U		
67-66-3	Chloroform	5.	U	5.	U	5.	U		
107-06-2	1,2-Dichloroethane	5.	U	5.	U	5.	U		
78-93-3	2-Butanone (MEK)	10.	U	10.	U	10.	U		
71-55-6	1,1,1-Trichloroethane	5.	U	5.	U	5.	U		
56-23-5	Carbon tetrachloride	5.	U	5.	U	5.	U		
108-05-4	Vinyl acetate	10.	U	10.	U	10.	U		
75-27-4	Bromodichloromethane	5.	U	5.	U	5.	U		
79-34-5	1,1,2,2-Tetrachloroethane	5.	U	5.	U	5.	U		
78-87-5	1,2-Dichloropropane	5.	U	5.	U	5.	U		
10061-02-6	trans-1,3-Dichloropropene	5.	U	5.	U	5.	U		
79-01-6	Trichloroethene	5.	U	5.	U	5.	U		
124-48-1	Dibromochloromethane	5.	U	5.	U	5.	U		
79-00-5	1,1,2-Trichloroethane	5.	U	5.	U	5.	U		
71-43-2	Benzene	5.	U	5.	U	5.	U		
10061-01-5	cis-1,3-Dichloropropene	5.	U	5.	U	5.	U		
110-75-8	2-Chloroethyl vinyl ether	10.	UR	10.	U	10.	U		
75-25-2	Bromoform	5.	U	5.	U	5.	U		
591-78-6	2-Hexanone	10.	U	10.	U	10.	U		
108-10-1	4-Methyl-2-Pentanone (MIBK)	10.	U	10.	U	10.	U		
127-18-4	Tetrachloroethene	5.	U	5.	U	5.	U		
108-88-3	Toluene	5.	U	5.	U	5.	U		
108-90-7	Chlorobenzene	5.	U	5.	U	5.	U		
100-41-4	Ethylbenzene	5.	U	5.	U	5.	U		
100-42-5	Styrene	5.	U	5.	U	5.	U		
1330-20-7	Xylene (Total)	5.	U	5.	U	5.	U		

*** Validation Complete ***

NAVAL BASE CHARLESTON, SOUTH CAROLINA
CHARLESTON ZONE E - QUARTERLY SAMPLING
Fuel Distribution System CAR

CYANIDE							
SAMPLE ID ------->	GDE-G-W012-03	GDE-G-W012-04					
ORIGINAL ID ----->	GDEGW01203	GDEGW01204					
LAB SAMPLE ID --->	27618.04	28262.10					
ID FROM REPORT -->	GDEGW01203	GDEGW01204					
SAMPLE DATE ----->	11/13/96	01/23/97					
DATE EXTRACTED -->	11/21/96	01/28/97					
DATE ANALYZED --->	11/23/96	01/29/97					
MATRIX ---------->	Water	Water					
UNITS ----------->	UG/L	UG/L					

CAS #	Parameter	27551	VAL	28253	VAL				
57-12-5	Cyanide (CN)	2.	UJ	2.	U				

*** Validation Complete ***

NAVAL BASE CHARLESTON, SOUTH CAROLINA
CHARLESTON ZONE E - QUARTERLY SAMPLING
Fuel Distribution System CAR

SW846-META									
	SAMPLE ID ------->	GDE-G-W012-03		GDE-G-W012-04					
	ORIGINAL ID ----->	GDEGW01203		GDEGW01204					
	LAB SAMPLE ID --->	27618.04		28262.10					
	ID FROM REPORT -->	GDEGW01203		GDEGW01204					
	SAMPLE DATE ----->	11/13/96		01/23/97					
	DATE EXTRACTED -->	11/16/96		02/12/97					
	DATE ANALYZED --->	11/19/96		02/14/97					
	MATRIX ---------->	Water		Water					
	UNITS ----------->	UG/L		UG/L					
CAS #	Parameter	27551	VAL	28253	VAL				
7429-90-5	Aluminum (Al)	1620.		2020.					
7440-36-0	Antimony (Sb)	3.3	U	2.1	U				
7440-38-2	Arsenic (As)	2.5	U	2.5	U				
7440-39-3	Barium (Ba)	214.		134.	J				
7440-41-7	Beryllium (Be)	0.79	U	0.51	J				
7440-43-9	Cadmium (Cd)	0.5	U	0.5	U				
7440-70-2	Calcium (Ca)	152000.		103000.	J				
7440-47-3	Chromium (Cr)	2.4	J	4.	U				
7440-48-4	Cobalt (Co)	0.9	U	0.9	U				
7440-50-8	Copper (Cu)	1.4	UJ	1.9	J				
7439-89-6	Iron (Fe)	7610.		4600.					
7439-92-1	Lead (Pb)	1.7	U	1.9	J				
7439-95-4	Magnesium (Mg)	149000.		103000.	J				
7439-96-5	Manganese (Mn)	216.		127.	J				
7439-97-6	Mercury (Hg)	0.1	U	0.1	U				
7440-02-0	Nickel (Ni)	1.4	J	5.3	UJ				
7440-09-7	Potassium (K)	47400.	J	45100.					
7782-49-2	Selenium (Se)	2.8	U	2.8	U				
7440-22-4	Silver (Ag)	1.2	U	1.2	U				
7440-23-5	Sodium (Na)	1760000.		1140000.					
7440-28-0	Thallium (Tl)	4.3	UJ	2.7	U				
7440-31-5	Tin (Sn)	2.6	UJ	2.6	U				
7440-62-2	Vanadium (V)	3.4	J	4.2	J				
7440-66-6	Zinc (Zn)	5.3	U	17.1	J				

*** Validation Complete ***

NAVAL BASE CHARLESTON, SOUTH CAROLINA
CHARLESTON ZONE E - QUARTERLY SAMPLING
Fuel Distribution System CAR

SW846-PEST							
SAMPLE ID ------->	GDE-G-W012-03		GDE-G-W012-04				
ORIGINAL ID ----->	GDEGW01203		GDEGW01204				
LAB SAMPLE ID --->	27618.04		28262.10				
ID FROM REPORT -->	GDEGW01203		GDEGW01204				
SAMPLE DATE ----->	11/13/96		01/23/97				
DATE EXTRACTED -->	11/15/96		01/24/97				
DATE ANALYZED --->	11/21/96		01/28/97				
MATRIX ---------->	Water		Water				
UNITS ----------->	UG/L		UG/L				
CAS #	Parameter	27551 VAL	28253 VAL				
319-84-6	alpha-BHC	0.04 U	0.04 U				
319-85-7	beta-BHC	0.04 U	0.04 U				
319-86-8	delta-BHC	0.04 U	0.04 U				
58-89-9	gamma-BHC (Lindane)	0.04 U	0.04 U				
76-44-8	Heptachlor	0.04 U	0.04 U				
309-00-2	Aldrin	0.04 U	0.04 U				
1024-57-3	Heptachlor epoxide	0.04 U	0.04 U				
959-98-8	Endosulfan I	0.04 U	0.04 U				
60-57-1	Dieldrin	0.08 U	0.08 U				
72-55-9	4,4'-DDE	0.08 U	0.08 U				
72-20-8	Endrin	0.08 U	0.08 UJ				
33213-65-9	Endosulfan II	0.08 U	0.08 U				
72-54-8	4,4'-DDD	0.08 U	0.08 U				
1031-07-8	Endosulfan sulfate	0.08 U	0.08 U				
50-29-3	4,4'-DDT	0.08 U	0.08 U				
72-43-5	Methoxychlor	0.38 U	0.38 U				
53494-70-5	Endrin ketone	0.08 U	0.08 U				
7421-93-4	Endrin aldehyde	0.08 U	0.08 U				
5103-71-9	alpha-Chlordane	0.04 U	0.04 U				
5103-74-2	gamma-Chlordane	0.04 U	0.04 U				
8001-35-2	Toxaphene	2.5 U	2.5 U				
12674-11-2	Aroclor-1016	1. U	1. U				
11104-28-2	Aroclor-1221	1. U	1. U				
11141-16-5	Aroclor-1232	1. U	1. U				
53469-21-9	Aroclor-1242	1. U	1. U				
12672-29-6	Aroclor-1248	1. U	1. U				
11097-69-1	Aroclor-1254	2. U	2. U				
11096-82-5	Aroclor-1260	2. U	2. U				

*** Validation Complete ***

NAVAL BASE CHARLESTON, SOUTH CAROLINA
CHARLESTON ZONE E - QUARTERLY SAMPLING
Fuel Distribution System CAR

SW846-SVOA	SAMPLE ID ------->	GDE-G-W012-03	GDE-G-W012-04				
	ORIGINAL ID ----->	GDEGW01203	GDEGW01204				
	LAB SAMPLE ID --->	27618.04	28262.10				
	ID FROM REPORT -->	GDEGW01203	GDEGW01204				
	SAMPLE DATE ----->	11/13/96	01/23/97				
	DATE EXTRACTED -->	11/15/96	01/24/97				
	DATE ANALYZED --->	12/04/96	01/29/97				
	MATRIX ---------->	Water	Water				
	UNITS ----------->	UG/L	UG/L				

CAS #	Parameter	27551	VAL	28253	VAL				
108-95-2	Phenol	10.	U	10.	U				
111-44-4	bis(2-Chloroethyl)ether	10.	U	10.	U				
95-57-8	2-Chlorophenol	10.	U	10.	U				
541-73-1	1,3-Dichlorobenzene	10.	U	10.	U				
106-46-7	1,4-Dichlorobenzene	10.	U	10.	U				
100-51-6	Benzyl alcohol	10.	U	10.	U				
95-50-1	1,2-Dichlorobenzene	10.	U	10.	U				
95-48-7	2-Methylphenol (o-Cresol)	10.	U	10.	U				
108-60-1	2,2'-oxybis(1-Chloropropane)	10.	U	10.	U				
106-44-5	4-Methylphenol (p-Cresol)	10.	U	10.	U				
621-64-7	N-Nitroso-di-n-propylamine	10.	U	10.	U				
67-72-1	Hexachloroethane	10.	U	10.	U				
98-95-3	Nitrobenzene	10.	U	10.	U				
78-59-1	Isophorone	10.	U	10.	U				
88-75-5	2-Nitrophenol	10.	U	10.	U				
105-67-9	2,4-Dimethylphenol	10.	U	10.	U				
65-85-0	Benzoic acid	50.	UJ	50.	U				
111-91-1	bis(2-Chloroethoxy)methane	10.	U	10.	U				
120-83-2	2,4-Dichlorophenol	10.	U	10.	U				
120-82-1	1,2,4-Trichlorobenzene	10.	U	10.	U				
91-20-3	Naphthalene	10.	U	10.	U				
106-47-8	4-Chloroaniline	10.	U	10.	U				
87-68-3	Hexachlorobutadiene	10.	U	10.	U				
59-50-7	4-Chloro-3-methylphenol	10.	U	10.	U				
91-57-6	2-Methylnaphthalene	10.	U	10.	U				
77-47-4	Hexachlorocyclopentadiene	10.	U	10.	U				
88-06-2	2,4,6-Trichlorophenol	10.	U	10.	U				
95-95-4	2,4,5-Trichlorophenol	50.	U	50.	U				
91-58-7	2-Chloronaphthalene	10.	U	10.	U				
88-74-4	2-Nitroaniline	50.	U	50.	U				
131-11-3	Dimethyl phthalate	10.	U	10.	U				
208-96-8	Acenaphthylene	10.	U	10.	U				
99-09-2	3-Nitroaniline	50.	U	50.	U				
83-32-9	Acenaphthene	10.	UJ	10.	U				
51-28-5	2,4-Dinitrophenol	50.	U	50.	UJ				
100-02-7	4-Nitrophenol	50.	U	50.	U				

*** Validation Complete ***

NAVAL BASE CHARLESTON, SOUTH CAROLINA
CHARLESTON ZONE E - QUARTERLY SAMPLING
Fuel Distribution System CAR

SW846-SVOA									
	SAMPLE ID ------->	GDE-G-W012-03		GDE-G-W012-04					
	ORIGINAL ID ----->	GDEGW01203		GDEGW01204					
	LAB SAMPLE ID --->	27618.04		28262.10					
	ID FROM REPORT -->	GDEGW01203		GDEGW01204					
	SAMPLE DATE ----->	11/13/96		01/23/97					
	DATE EXTRACTED -->	11/15/96		01/24/97					
	DATE ANALYZED --->	12/04/96		01/29/97					
	MATRIX ---------->	Water		Water					
	UNITS ----------->	UG/L		UG/L					
CAS #	Parameter	27551	VAL	28253	VAL				
132-64-9	Dibenzofuran	10.	U	10.	U				
121-14-2	2,4-Dinitrotoluene	10.	U	10.	U				
606-20-2	2,6-Dinitrotoluene	10.	U	10.	U				
84-66-2	Diethylphthalate	10.	U	10.	U				
7005-72-3	4-Chlorophenylphenylether	10.	U	10.	U				
86-73-7	Fluorene	10.	U	10.	U				
100-01-6	4-Nitroaniline	50.	U	50.	U				
534-52-1	2-Methyl-4,6-Dinitrophenol	50.	U	50.	U				
86-30-6	N-Nitrosodiphenylamine	10.	U	10.	U				
101-55-3	4-Bromophenyl-phenylether	10.	U	10.	U				
118-74-1	Hexachlorobenzene	10.	U	10.	U				
87-86-5	Pentachlorophenol	50.	U	50.	U				
85-01-8	Phenanthrene	10.	U	10.	U				
120-12-7	Anthracene	10.	U	10.	U				
84-74-2	Di-n-butylphthalate	10.	U	10.	U				
206-44-0	Fluoranthene	10.	U	10.	U				
129-00-0	Pyrene	10.	U	10.	U				
85-68-7	Butylbenzylphthalate	10.	U	10.	U				
91-94-1	3,3'-Dichlorobenzidine	20.	U	20.	U				
56-55-3	Benzo(a)anthracene	10.	U	10.	U				
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	10.	U	10.	U				
218-01-9	Chrysene	10.	U	10.	U				
117-84-0	Di-n-octyl phthalate	10.	U	10.	U				
205-99-2	Benzo(b)fluoranthene	10.	U	10.	U				
207-08-9	Benzo(k)fluoranthene	10.	U	10.	U				
50-32-8	Benzo(a)pyrene	10.	U	10.	U				
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U	10.	U				
53-70-3	Dibenz(a,h)anthracene	10.	U	10.	U				
191-24-2	Benzo(g,h,i)perylene	10.	U	10.	U				

*** Validation Complete ***

NAVAL BASE CHARLESTON, SOUTH CAROLINA
CHARLESTON ZONE E - QUARTERLY SAMPLING
Fuel Distribution System CAR

SW846-VOA			
SAMPLE ID ------->	GDE-G-W012-03	GDE-G-W012-04	
ORIGINAL ID ----->	GDEGW01203	GDEGW01204	
LAB SAMPLE ID --->	27618.04	28262.10	
ID FROM REPORT -->	GDEGW01203	GDEGW01204	
SAMPLE DATE ----->	11/13/96	01/23/97	
DATE ANALYZED --->	11/15/96	01/27/97	
MATRIX ---------->	Water	Water	
UNITS ----------->	UG/L	UG/L	

CAS #	Parameter	27551	VAL	28253	VAL
74-87-3	Chloromethane	10.	U	10.	U
74-83-9	Bromomethane	10.	U	10.	U
75-01-4	Vinyl chloride	10.	U	10.	U
75-00-3	Chloroethane	10.	U	10.	U
75-09-2	Methylene chloride	5.	U	5.	U
67-64-1	Acetone	17.	U	10.	U
75-15-0	Carbon disulfide	5.	U	5.	U
75-35-4	1,1-Dichloroethene	5.	U	5.	U
75-34-3	1,1-Dichloroethane	5.	U	5.	U
540-59-0	1,2-Dichloroethene (total)	5.	U	5.	U
67-66-3	Chloroform	5.	U	5.	U
107-06-2	1,2-Dichloroethane	5.	U	5.	U
78-93-3	2-Butanone (MEK)	10.	U	10.	U
71-55-6	1,1,1-Trichloroethane	5.	U	5.	U
56-23-5	Carbon tetrachloride	5.	U	5.	U
108-05-4	Vinyl acetate	10.	UJ	10.	UJ
75-27-4	Bromodichloromethane	5.	U	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U	5.	U
78-87-5	1,2-Dichloropropane	5.	U	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U	5.	U
79-01-6	Trichloroethene	5.	U	5.	U
124-48-1	Dibromochloromethane	5.	U	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U	5.	U
71-43-2	Benzene	5.	U	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U	5.	U
110-75-8	2-Chloroethyl vinyl ether	10.	UR	10.	U
75-25-2	Bromoform	5.	U	5.	U
591-78-6	2-Hexanone	10.	U	10.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	10.	U	10.	U
127-18-4	Tetrachloroethene	5.	U	5.	U
108-88-3	Toluene	5.	U	5.	U
108-90-7	Chlorobenzene	5.	U	5.	U
100-41-4	Ethylbenzene	5.	U	5.	U
100-42-5	Styrene	5.	U	5.	U
1330-20-7	Xylene (Total)	5.	U	5.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

APX9 HERB							
SAMPLE ID ------->	FDS-H-W01D-01	FDS-H-W02A-01	FDS-H-W08C-01	FDS-H-W09B-01	FDS-H-W11C-01	FDS-H-W12A-01
ORIGINAL ID ----->	FDSHW01D01	FDSHW02A01	FDSHW08C01	FDSHW09B01	FDSHW11C01	FDSHW12A01
LAB SAMPLE ID --->	28186.01	28189.01	28280.01	28228.02	28309.01	28296.02
ID FROM REPORT -->	FDSHW01D01	FDSHW02A01	FDSHW08C01	FDSHW09B01	FDSHW11C01	FDSHW12A01
SAMPLE DATE ----->	01/14/97	01/16/97	01/24/97	01/21/97	01/28/97	01/27/97
DATE EXTRACTED -->	01/17/97	01/17/97	01/27/97	01/23/97	01/29/97	01/29/97
DATE ANALYZED --->	01/21/97	01/21/97	01/29/97	01/24/97	01/31/97	01/31/97
MATRIX ---------->	Water	Water	Water	Water	Water	Water
UNITS ---------->	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L

CAS #	Parameter	28185	VAL	28185	VAL	28249	VAL	28217	VAL	28308	VAL	28249	VAL
94-75-7	2,4-D	2.9	U	2.9	U	2.9	U	2.9	U	2.9	U	2.9	U
93-72-1	2,4,5-TP (Silvex)	0.97	U	0.97	U	0.97	U	0.97	U	0.97	U	0.97	U
93-76-5	2,4,5-T	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U
88-85-7	Dinoseb	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

APX9 PEST													
	SAMPLE ID ------>	FDS-H-W01D-01		FDS-H-W02A-01		FDS-H-W08C-01		FDS-H-W09B-01		FDS-H-W11C-01		FDS-H-W12A-01	
	ORIGINAL ID ----->	FDSHW01D01		FDSHW02A01		FDSHW08C01		FDSHW09B01		FDSHW11C01		FDSHW12A01	
	LAB SAMPLE ID --->	28186.01		28189.01		28280.01		28228.02		28309.01		28296.02	
	ID FROM REPORT -->	FDSHW01D01		FDSHW02A01		FDSHW08C01		FDSHW09B01		FDSHW11C01		FDSHW12A01	
	SAMPLE DATE ----->	01/14/97		01/16/97		01/24/97		01/21/97		01/28/97		01/27/97	
	DATE EXTRACTED -->	01/18/97		01/18/97		01/27/97		01/22/97		01/29/97		01/28/97	
	DATE ANALYZED --->	01/22/97		01/22/97		01/28/97		01/25/97		01/31/97		01/29/97	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	28185	VAL	28185	VAL	28249	VAL	28217	VAL	28308	VAL	28249	VAL
319-84-6	alpha-BHC	0.04	U	0.04	UJ	0.04	UJ	0.04	U	0.04	U	0.04	U
319-85-7	beta-BHC	0.04	U	0.04	UJ	0.04	UJ	0.04	U	0.04	U	0.04	U
319-86-8	delta-BHC	0.04	U	0.04	UJ	0.04	UJ	0.04	U	0.04	U	0.04	U
58-89-9	gamma-BHC (Lindane)	0.04	U	0.04	UJ	0.04	UJ	0.04	U	0.04	U	0.04	U
76-44-8	Heptachlor	0.04	U	0.04	UJ	0.04	UJ	0.04	U	0.04	U	0.04	U
309-00-2	Aldrin	0.04	U	0.04	UJ	0.04	UJ	0.04	U	0.04	U	0.04	U
1024-57-3	Heptachlor epoxide	0.04	U	0.04	UJ	0.04	UJ	0.04	U	0.04	U	0.04	U
959-98-8	Endosulfan I	0.04	U	0.04	UJ	0.04	UJ	0.04	U	0.04	U	0.04	U
60-57-1	Dieldrin	0.08	U	0.08	UJ	0.08	UJ	0.08	U	0.08	U	0.08	U
72-55-9	4,4'-DDE	0.08	U	0.08	UJ	0.08	UJ	0.08	U	0.08	U	0.08	U
72-20-8	Endrin	0.08	U	0.08	UJ	0.08	UJ	0.08	U	0.08	U	0.08	U
33213-65-9	Endosulfan II	0.08	U	0.08	UJ	0.08	UJ	0.08	U	0.08	U	0.08	U
72-54-8	4,4'-DDD	0.08	U	0.08	UJ	0.08	UJ	0.08	U	0.08	U	0.08	U
1031-07-8	Endosulfan sulfate	0.08	U	0.08	UJ	0.08	UJ	0.08	U	0.08	U	0.08	U
50-29-3	4,4'-DDT	0.08	U	0.08	UJ	0.08	UJ	0.08	U	0.08	U	0.08	U
72-43-5	Methoxychlor	0.38	U	0.38	UJ	0.38	UJ	0.38	U	0.38	U	0.38	U
53494-70-5	Endrin ketone	0.08	U	0.08	UJ	0.08	UJ	0.08	U	0.08	U	0.08	U
7421-93-4	Endrin aldehyde	0.08	U	0.08	UJ	0.08	UJ	0.08	U	0.08	U	0.08	U
5103-71-9	alpha-Chlordane	0.04	U	0.04	UJ	0.04	UJ	0.04	U	0.04	U	0.04	U
5103-74-2	gamma-Chlordane	0.04	U	0.04	UJ	0.04	UJ	0.04	U	0.04	U	0.04	U
8001-35-2	Toxaphene	2.5	U	2.5	UJ	2.5	UJ	2.5	U	2.5	U	2.5	U
12674-11-2	Aroclor-1016	1.	U	1.	UJ	1.	UJ	1.	U	1.	U	1.	U
11104-28-2	Aroclor-1221	1.	U	1.	UJ	1.	UJ	1.	U	1.	U	1.	U
11141-16-5	Aroclor-1232	1.	U	1.	UJ	1.	UJ	1.	U	1.	U	1.	U
53469-21-9	Aroclor-1242	1.	U	1.	UJ	1.	UJ	1.	U	1.	U	1.	U
12672-29-6	Aroclor-1248	1.	U	1.	UJ	1.	UJ	1.	U	1.	U	1.	U
11097-69-1	Aroclor-1254	2.	U	2.	UJ	2.	UJ	2.	U	2.	U	2.	U
11096-82-5	Aroclor-1260	2.	U	2.	UJ	2.	UJ	2.	U	2.	U	2.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

APX9 SVOA													
	SAMPLE ID ------>	FDS-H-W01D-01		FDS-H-W02A-01		FDS-H-W08C-01		FDS-H-W09B-01		FDS-H-W11C-01		FDS-H-W12A-01	
	ORIGINAL ID ----->	FDSHW01D01		FDSHW02A01		FDSHW08C01		FDSHW09B01		FDSHW11C01		FDSHW12A01	
	LAB SAMPLE ID --->	28186.01		28189.01		28280.01		28228.02		28309.01		28296.02	
	ID FROM REPORT -->	FDSHW01D01		FDSHW02A01		FDSHW08C01		FDSHW09B01		FDSHW11C01		FDSHW12A01	
	SAMPLE DATE ----->	01/14/97		01/16/97		01/24/97		01/21/97		01/28/97		01/27/97	
	DATE EXTRACTED -->	01/18/97		01/18/97		01/27/97		01/22/97		01/29/97		02/03/97	
	DATE ANALYZED --->	01/21/97		01/21/97		01/28/97		01/24/97		01/30/97		02/04/97	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	28185	VAL	28185	VAL	28249	VAL	28217	VAL	28308	VAL	28249	VAL
108-95-2	Phenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
111-44-4	bis(2-Chloroethyl)ether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-57-8	2-Chlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
100-51-6	Benzyl alcohol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-48-7	2-Methylphenol (o-Cresol)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
106-44-5	4-Methylphenol (p-Cresol)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
621-64-7	N-Nitroso-di-n-propylamine	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
67-72-1	Hexachloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
98-95-3	Nitrobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
78-59-1	Isophorone	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-75-5	2-Nitrophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
105-67-9	2,4-Dimethylphenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
111-91-1	bis(2-Chloroethoxy)methane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
120-83-2	2,4-Dichlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
91-20-3	Naphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
106-47-8	4-Chloroaniline	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
87-68-3	Hexachlorobutadiene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
59-50-7	4-Chloro-3-methylphenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
91-57-6	2-Methylnaphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
77-47-4	Hexachlorocyclopentadiene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-06-2	2,4,6-Trichlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-95-4	2,4,5-Trichlorophenol	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
91-58-7	2-Chloronaphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-74-4	2-Nitroaniline	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
131-11-3	Dimethyl phthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
208-96-8	Acenaphthylene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
99-09-2	3-Nitroaniline	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
83-32-9	Acenaphthene	4.	J	10.	U	10.	U	10.	U	10.	U	10.	U
51-28-5	2,4-Dinitrophenol	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
100-02-7	4-Nitrophenol	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

APX9 SVOA													
	SAMPLE ID ------>	FDS-H-W01D-01		FDS-H-W02A-01		FDS-H-W08C-01		FDS-H-W09B-01		FDS-H-W11C-01		FDS-H-W12A-01	
	ORIGINAL ID ----->	FDSHW01D01		FDSHW02A01		FDSHW08C01		FDSHW09B01		FDSHW11C01		FDSHW12A01	
	LAB SAMPLE ID --->	28186.01		28189.01		28280.01		28228.02		28309.01		28296.02	
	ID FROM REPORT -->	FDSHW01D01		FDSHW02A01		FDSHW08C01		FDSHW09B01		FDSHW11C01		FDSHW12A01	
	SAMPLE DATE ----->	01/14/97		01/16/97		01/24/97		01/21/97		01/28/97		01/27/97	
	DATE EXTRACTED -->	01/18/97		01/18/97		01/27/97		01/22/97		01/29/97		02/03/97	
	DATE ANALYZED --->	01/21/97		01/21/97		01/28/97		01/24/97		01/30/97		02/04/97	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	28185	VAL	28185	VAL	28249	VAL	28217	VAL	28308	VAL	28249	VAL
132-64-9	Dibenzofuran	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
121-14-2	2,4-Dinitrotoluene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
84-66-2	Diethylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
7005-72-3	4-Chlorophenylphenylether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
86-73-7	Fluorene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
100-01-6	4-Nitroaniline	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
534-52-1	2-Methyl-4,6-Dinitrophenol	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
86-30-6	N-Nitrosodiphenylamine	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
101-55-3	4-Bromophenyl-phenylether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
118-74-1	Hexachlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
87-86-5	Pentachlorophenol	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
85-01-8	Phenanthrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
120-12-7	Anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
86-74-8	Carbazole	10.	UR	10.	UR	10.	UR	10.	UR	10.	UR	10.	UR
84-74-2	Di-n-butylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
206-44-0	Fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
129-00-0	Pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
85-68-7	Butylbenzylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
91-94-1	3,3'-Dichlorobenzidine	20.	U	20.	U	20.	U	20.	U	20.	U	20.	U
56-55-3	Benzo(a)anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
218-01-9	Chrysene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	10.	U	1.	J	10.	U	10.	U	10.	U	10.	U
117-84-0	Di-n-octyl phthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
205-99-2	Benzo(b)fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
207-08-9	Benzo(k)fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
50-32-8	Benzo(a)pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
53-70-3	Dibenz(a,h)anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
191-24-2	Benzo(g,h,i)perylene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
110-86-1	Pyridine	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
62-75-9	N-Nitrosodimethylamine	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
66-27-3	Methyl methanesulfonate	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
62-53-3	Aniline	10.	U	10.	U	10.	U	10.	U	5.	J	10.	U
10595-95-6	N-Nitrosomethylethylamine	10.	U	10.	U	10.	U	10.	U	10.	UJ	10.	U
924-16-3	N-Nitroso-di-n-butylamine	10.	U	10.	U	10.	U	10.	U	10.	UJ	10.	UJ
55-18-5	N-Nitrosodiethylamine	10.	U	10.	U	10.	UJ	10.	U	10.	UJ	10.	UJ

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

APX9 SVOA															
	SAMPLE ID ------>	FDS-H-W01D-01		FDS-H-W02A-01		FDS-H-W08C-01		FDS-H-W09B-01		FDS-H-W11C-01		FDS-H-W12A-01	
	ORIGINAL ID ----->	FDSHW01D01		FDSHW02A01		FDSHW08C01		FDSHW09B01		FDSHW11C01		FDSHW12A01	
	LAB SAMPLE ID --->	28186.01		28189.01		28280.01		28228.02		28309.01		28296.02	
	ID FROM REPORT -->	FDSHW01D01		FDSHW02A01		FDSHW08C01		FDSHW09B01		FDSHW11C01		FDSHW12A01	
	SAMPLE DATE ----->	01/14/97		01/16/97		01/24/97		01/21/97		01/28/97		01/27/97	
	DATE EXTRACTED -->	01/18/97		01/18/97		01/27/97		01/22/97		01/29/97		02/03/97	
	DATE ANALYZED --->	01/21/97		01/21/97		01/28/97		01/24/97		01/30/97		02/04/97	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	28185	VAL	28185	VAL	28249	VAL	28217	VAL	28308	VAL	28249	VAL
62-50-0	Ethyl methanesulfonate	10.	U	10.	U	10.	UJ	10.	U	10.	U	10.	U
109-06-8	2-Picoline	10.	UJ	10.	UJ	10.	UJ	10.	UJ	10.	U	10.	UJ
98-86-2	Acetophenone	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
930-55-2	N-Nitrosopyrrolidine	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-39-4	3-Methylphenol (m-Cresol)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
59-89-2	N-Nitrosomorpholine	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-53-4	o-Toluidine	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
119-93-7	3,3-Dimethylbenzidine	10.	UJ	10.	UJ	10.	U	10.	UJ	10.	U	10.	U
96-12-8	1,2-Dibromo-3-Chloropropane	10.	UR	10.	UR	10.	UR	10.	UR	10.	UR	10.	UR
100-75-4	N-Nitrosopiperidine	10.	U	10.	U	10.	UJ	10.	U	10.	UJ	10.	UJ
126-68-1	O,O,O-Triethylphosphorothioate	10.	UJ	10.	UJ	10.	UJ	10.	U	10.	UJ	10.	U
122-09-8	a,a-Dimethylphenethylamine	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
87-65-0	2,6-Dichlorophenol	10.	U	10.	U	10.	UJ	10.	U	10.	UJ	10.	U
1888-71-7	Hexachloropropene	10.	UJ	10.	UJ	10.	UJ	10.	UJ	10.	U	10.	U
106-50-3	p-Phenylenediamine	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10.	UJ	10.	UJ	10.	UJ	10.	UJ	10.	UJ	10.	U
94-59-7	Safrole	10.	UJ	10.	UJ	10.	UJ	10.	UJ	10.	UJ	10.	UJ
120-58-1	Isosafrole	10.	UJ	10.	UJ	10.	UJ	10.	UJ	10.	UJ	10.	U
130-15-4	1,4-Naphthoquinone	10.	U	10.	U	10.	U	10.	U	10.	UJ	10.	U
99-65-0	1,3-Dinitrobenzene	10.	UJ	10.	UJ	10.	U	10.	U	10.	U	10.	UJ
58-90-2	2,3,4,6-Tetrachlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
608-93-5	Pentachlorobenzene	10.	UJ	10.	UJ	10.	UJ	10.	UJ	10.	UJ	10.	U
134-32-7	1-Naphthylamine	10.	UJ	10.	UJ	10.	UJ	10.	UJ	10.	UJ	10.	UJ
56-57-5	4-Nitroquinoline 1-oxide	50.	U	50.	U	50.	UJ	50.	U	50.	U	50.	UR
91-59-8	2-Naphthylamine	10.	UJ	10.	UJ	10.	UJ	10.	UJ	10.	UJ	10.	UJ
297-97-2	Thionazin	20.	UJ	20.	UJ	20.	UJ	20.	U	20.	U	20.	U
99-55-8	5-Nitro-o-toluidine	10.	UJ	10.	UJ	10.	UJ	10.	UJ	10.	UJ	10.	UJ
122-39-4	Diphenylamine	10.	UJ	10.	UJ	10.	UJ	10.	UJ	10.	UJ	10.	UJ
3689-24-5	Sulfotep	20.	UR	20.	UR	20.	UJ	20.	U	20.	U	20.	UJ
99-35-4	1,3,5-Trinitrobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
298-02-2	Phorate	10.	UJ	10.	UJ	10.	UJ	10.	U	10.	U	10.	UJ
62-44-2	Phenacetin	10.	UJ	10.	UJ	10.	U	10.	UJ	10.	U	10.	UJ
2303-16-4	Diallate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	UJ
60-51-5	Dimethoate	10.	UJ	10.	UJ	10.	UJ	10.	U	10.	U	10.	UJ
92-67-1	4-Aminobiphenyl	10.	UJ	10.	UJ	10.	UJ	10.	UJ	10.	UJ	10.	UJ
23950-58-5	Pronamide	10.	UJ	10.	UJ	10.	UJ	10.	UJ	10.	UJ	10.	UJ

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

APX9 SVOA													
	SAMPLE ID ------->	FDS-H-W01D-01		FDS-H-W02A-01		FDS-H-W08C-01		FDS-H-W09B-01		FDS-H-W11C-01		FDS-H-W12A-01	
	ORIGINAL ID ----->	FDSHW01D01		FDSHW02A01		FDSHW08C01		FDSHW09B01		FDSHW11C01		FDSHW12A01	
	LAB SAMPLE ID --->	28186.01		28189.01		28280.01		28228.02		28309.01		28296.02	
	ID FROM REPORT -->	FDSHW01D01		FDSHW02A01		FDSHW08C01		FDSHW09B01		FDSHW11C01		FDSHW12A01	
	SAMPLE DATE ----->	01/14/97		01/16/97		01/24/97		01/21/97		01/28/97		01/27/97	
	DATE EXTRACTED -->	01/18/97		01/18/97		01/27/97		01/22/97		01/29/97		02/03/97	
	DATE ANALYZED --->	01/21/97		01/21/97		01/28/97		01/24/97		01/30/97		02/04/97	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ----------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	28185	VAL	28185	VAL	28249	VAL	28217	VAL	28308	VAL	28249	VAL
82-68-8	Pentachloronitrobenzene	50.	UR	50.	UR	50.	UJ	50.	UJ	50.	UJ	50.	UJ
298-04-4	Disulfoton	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-85-7	Dinoseb	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
298-00-0	Methyl parathion	20.	UJ	20.	UJ	20.	UJ	20.	U	20.	U	20.	UJ
56-38-2	Parathion	20.	UJ	20.	UJ	20.	UJ	20.	U	20.	UJ	20.	UJ
91-80-5	Methapyrilene	20.	U	20.	U	20.	U	20.	U	20.	U	20.	U
465-73-6	Isodrin	20.	U	20.	U	20.	UJ	20.	U	20.	UJ	20.	U
140-57-8	Aramite	50.	UR	50.	UR	50.	UR	50.	UR	50.	UR	50.	UR
60-11-7	p-(Dimethylamino)azobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
510-15-6	Chlorobenzilate	10.	UJ	10.	UJ	10.	U	10.	U	10.	U	10.	U
143-50-0	Kepone	50.	U	50.	U	50.	UJ	50.	U	50.	UJ	50.	U
52-85-7	Famphur	10.	UR	10.	UR	10.	UJ	10.	UR	10.	U	10.	UJ
53-96-3	Acetamidofluorene	10.	UJ	10.	UJ	10.	U	10.	UJ	10.	U	10.	U
57-97-6	7,12-Dimethylbenz(a)anthracene	50.	UJ	50.	UJ	10.	U	10.	UJ	10.	U	10.	U
70-30-4	Hexachlorophene	200.	U	200.	U	200.	UR	200.	UR	200.	UR	200.	UR
56-49-5	3-Methyl cholanthrene	10.	UR	10.	UR	10.	UR	10.	UR	10.	UR	10.	UR

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

APX9 VOA													
	SAMPLE ID ------>	FDS-H-W01D-01		FDS-H-W02A-01		FDS-H-W08C-01		FDS-H-W09B-01		FDS-H-W11C-01		FDS-H-W12A-01	
	ORIGINAL ID ----->	FDSHW01D01		FDSHW02A01		FDSHW08C01		FDSHW09B01		FDSHW11C01		FDSHW12A01	
	LAB SAMPLE ID --->	28186.01		28189.01		28280.01		28228.02		28309.01		28296.02	
	ID FROM REPORT -->	FDSHW01D01		FDSHW02A01		FDSHW08C01		FDSHW09B01		FDSHW11C01		FDSHW12A01	
	SAMPLE DATE ----->	01/14/97		01/16/97		01/24/97		01/21/97		01/28/97		01/27/97	
	DATE ANALYZED --->	01/21/97		01/21/97		01/27/97		01/23/97		01/30/97		01/29/97	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	28185	VAL	28185	VAL	28249	VAL	28217	VAL	28308	VAL	28249	VAL
74-87-3	Chloromethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
74-83-9	Bromomethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-01-4	Vinyl chloride	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-00-3	Chloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-09-2	Methylene chloride	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
67-64-1	Acetone	5.	U	8.	U	14.	U	10.	U	11.	U	7.	U
75-15-0	Carbon disulfide	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-35-4	1,1-Dichloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-34-3	1,1-Dichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
540-59-0	1,2-Dichloroethene (total)	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
67-66-3	Chloroform	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
107-06-2	1,2-Dichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
78-93-3	2-Butanone (MEK)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
71-55-6	1,1,1-Trichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
56-23-5	Carbon tetrachloride	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-27-4	Bromodichloromethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
78-87-5	1,2-Dichloropropane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-01-6	Trichloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
124-48-1	Dibromochloromethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
71-43-2	Benzene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-25-2	Bromoform	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
591-78-6	2-Hexanone	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
127-18-4	Tetrachloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-88-3	Toluene	5.	U	5.	U	5.	U	5.	U	1.	J	5.	U
108-90-7	Chlorobenzene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
100-41-4	Ethylbenzene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
100-42-5	Styrene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
1330-20-7	Xylene (Total)	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-05-4	Vinyl acetate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
110-75-8	2-Chloroethyl vinyl ether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
107-02-8	Acrolein	50.	U	50.	U	50.	UR	50.	U	50.	UJ	50.	U
74-88-4	Methyl iodide	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

APX9 VOA													
	SAMPLE ID ------->	FDS-H-W01D-01		FDS-H-W02A-01		FDS-H-W08C-01		FDS-H-W09B-01		FDS-H-W11C-01		FDS-H-W12A-01	
	ORIGINAL ID ----->	FDSHW01D01		FDSHW02A01		FDSHW08C01		FDSHW09B01		FDSHW11C01		FDSHW12A01	
	LAB SAMPLE ID --->	28186.01		28189.01		28280.01		28228.02		28309.01		28296.02	
	ID FROM REPORT -->	FDSHW01D01		FDSHW02A01		FDSHW08C01		FDSHW09B01		FDSHW11C01		FDSHW12A01	
	SAMPLE DATE ----->	01/14/97		01/16/97		01/24/97		01/21/97		01/28/97		01/27/97	
	DATE ANALYZED --->	01/21/97		01/21/97		01/27/97		01/23/97		01/30/97		01/29/97	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ----------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	28185	VAL	28185	VAL	28249	VAL	28217	VAL	28308	VAL	28249	VAL
76-01-7	Pentachloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
107-05-1	3-Chloropropene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
126-99-8	Chloroprene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
110-57-6	trans-1,4-Dichloro-2-butene	5.	U	5.	U	5.	U	5.	UJ	5.	U	5.	UR
75-05-8	Acetonitrile	200.	UR	200.	UR	200.	UR	200.	UR	200.	UR	200.	UR
107-13-1	Acrylonitrile	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
107-12-0	Propionitrile	100.	U	100.	U	100.	U	100.	U	100.	U	100.	U
126-98-7	Methacrylonitrile	100.	U	100.	U	100.	U	100.	U	100.	U	100.	U
78-83-1	Isobutyl alcohol	200.	UR	200.	UR	200.	UR	200.	UR	200.	UR	200.	UR
123-91-1	1,4-Dioxane	500.	UR	500.	UR	500.	UR	500.	UR	500.	UR	500.	UR
80-62-6	Methyl methacrylate	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
97-63-2	Ethyl methacrylate	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
106-93-4	1, 2-Dibromoethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
630-20-6	1,1,1,2-Tetrachloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
96-18-4	1,2,3-Trichloropropane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-71-8	Dichlorodifluoromethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-69-4	Trichlorofluoromethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
74-95-3	Methylene bromide	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
96-12-8	1,2-Dibromo-3-Chloropropane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

CYANIDE							
SAMPLE ID ------->	FDS-G-W01A-01	FDS-G-W01B-01	FDS-G-W01C-01	FDS-G-W01D-01	FDS-H-W01D-01	FDS-G-W01E-01
ORIGINAL ID ----->	FDSGW01A01	FDSGW01B01	FDSGW01C01	FDSGW01D01	FDSHW01D01	FDSGW01E01
LAB SAMPLE ID --->	28174.01	28174.02	28174.05	28185.02	28186.01	28328.01
ID FROM REPORT -->	FDSGW01A01	FDSGW01B01	FDSGW01C01	FDSGW01D01	FDSHW01D01	FDSGW01E01
SAMPLE DATE ----->	01/14/97	01/14/97	01/14/97	01/14/97	01/14/97	01/29/97
DATE EXTRACTED -->	01/16/97	01/16/97	01/16/97	01/20/97	01/20/97	01/31/97
DATE ANALYZED --->	01/16/97	01/20/97	01/16/97	01/21/97	01/21/97	02/01/97
MATRIX ---------->	Water	Water	Water	Water	Water	Water
UNITS ---------->	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L

CAS #	Parameter	28134	VAL	28134	VAL	28134	VAL	28185	VAL	28185	VAL	28308	VAL
57-12-5	Cyanide (CN)	6.	J	2.	UJ	3.1	UJ	2.	U	3.6	J	3.9	J

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

CYANIDE													
	SAMPLE ID ------>	FDS-G-W02A-01		FDS-H-W02A-01		FDS-G-W02B-01		FDS-G-W02C-01		FDS-G-W03A-01		FDS-G-W03B-01	
	ORIGINAL ID ----->	FDSGW02A01		FDSHW02A01		FDSGW02B01		FDSGW02C01		FDSGW03A01		FDSGW03B01	
	LAB SAMPLE ID --->	28190.02		28189.01		28223.10		28190.01		28223.01		28185.05	
	ID FROM REPORT -->	FDSGW02A01		FDSHW02A01		FDSGW02B01		FDSGW02C01		FDSGW03A01		FDSGW03B01	
	SAMPLE DATE ----->	01/16/97		01/16/97		01/19/97		01/16/97		01/19/97		01/15/97	
	DATE EXTRACTED -->	01/20/97		01/20/97		01/24/97		01/20/97		01/24/97		01/20/97	
	DATE ANALYZED --->	01/21/97		01/21/97		01/26/97		01/21/97		01/26/97		01/21/97	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	28185	VAL	28185	VAL	28217	VAL	28185	VAL	28217	VAL	28185	VAL
57-12-5	Cyanide (CN)	2.	U	2.	U	2.	U	2.5	J	2.	U	2.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

CYANIDE													
	SAMPLE ID ------>	FDS-G-W03C-01		FDS-G-W04A-01		FDS-G-W04B-01		FDS-G-W04C-01		FDS-G-W05A-01		FDS-G-W05B-01	
	ORIGINAL ID ----->	FDSGW03C01		FDSGW04A01		FDSGW04B01		FDSGW04C01		FDSGW05A01		FDSGW05B01	
	LAB SAMPLE ID --->	28185.04		28223.07		28223.08		28223.09		28223.03		28209.04	
	ID FROM REPORT -->	FDSGW03C01		FDSGW04A01		FDSGW04B01		FDSGW04C01		FDSGW05A01		FDSGW05B01	
	SAMPLE DATE ----->	01/15/97		01/20/97		01/20/97		01/20/97		01/19/97		01/17/97	
	DATE EXTRACTED -->	01/20/97		01/24/97		01/24/97		01/24/97		01/24/97		01/20/97	
	DATE ANALYZED --->	01/21/97		01/26/97		01/26/97		01/26/97		01/26/97		01/21/97	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	28185	VAL	28217	VAL	28217	VAL	28217	VAL	28217	VAL	28185	VAL
57-12-5	Cyanide (CN)	2.7	J	2.8	J	3.3	J	2.	U	2.5	J	3.	J

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

CYANIDE													
	SAMPLE ID ------>	FDS-G-W06A-01		FDS-G-W06B-01		FDS-G-W06C-01		FDS-G-W07A-01		FDS-G-W07B-01		FDS-G-W07C-01	
	ORIGINAL ID ----->	FDSGW06A01		FDSGW06B01		FDSGW06C01		FDSGW07A01		FDSGW07B01		FDSGW07C01	
	LAB SAMPLE ID --->	28223.02		28223.05		28223.06		28343.01		28209.01		28209.02	
	ID FROM REPORT -->	FDSGW06A01		FDSGW06B01		FDSGW06C01		FDSGW07A01		FDSGW07B01		FDSGW07C01	
	SAMPLE DATE ----->	01/18/97		01/20/97		01/20/97		01/29/97		01/17/97		01/17/97	
	DATE EXTRACTED -->	01/24/97		01/24/97		01/24/97		02/05/97		01/20/97		01/20/97	
	DATE ANALYZED --->	01/26/97		01/26/97		01/26/97		02/06/97		01/21/97		01/21/97	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	28217	VAL	28217	VAL	28217	VAL	28308	VAL	28185	VAL	28185	VAL
57-12-5	Cyanide (CN)	4.3	J	4.	J	10.1		2.5	J	2.8	J	2.	J

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

CYANIDE							
SAMPLE ID ------->	FDS-G-W07D-01	FDS-G-W08A-01	FDS-G-W08B-01	FDS-G-W08C-01	FDS-H-W08C-01	FDS-G-W09A-01
ORIGINAL ID ----->	FDSGW07D01	FDSGW08A01	FDSGW08B01	FDSGW08C01	FDSHW08C01	FDSGW09A01
LAB SAMPLE ID --->	28279.01	28279.02	28295.10	28279.03	28280.01	28227.06
ID FROM REPORT -->	FDSGW07D01	FDSGW08A01	FDSGW08B01	FDSGW08C01	FDSHW08C01	FDSGW09A01
SAMPLE DATE ----->	01/24/97	01/24/97	01/25/97	01/24/97	01/24/97	01/21/97
DATE EXTRACTED -->	01/28/97	01/28/97	01/29/97	01/28/97	01/28/97	01/24/97
DATE ANALYZED --->	01/29/97	01/29/97	01/30/97	01/29/97	01/29/97	01/26/97
MATRIX ---------->	Water	Water	Water	Water	Water	Water
UNITS ----------->	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L

CAS #	Parameter	28249	VAL	28249	VAL	28249	VAL	28249	VAL	28249	VAL	28217	VAL
57-12-5	Cyanide (CN)	2.4	J	2.	U	2.	U	2.	U	2.	U	10.9	

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

CYANIDE													
	SAMPLE ID ------>	FDS-G-W09B-01		FDS-H-W09B-01		FDS-G-W09C-01		FDS-G-W10A-01		FDS-G-W10B-01		FDS-G-W10C-01	
	ORIGINAL ID ----->	FDSGW09B01		FDSHW09B01		FDSGW09C01		FDSGW10A01		FDSGW10B01		FDSGW10C01	
	LAB SAMPLE ID --->	28227.08		28228.02		28227.07		28227.01		28227.02		28227.03	
	ID FROM REPORT -->	FDSGW09B01		FDSHW09B01		FDSGW09C01		FDSGW10A01		FDSGW10B01		FDSGW10C01	
	SAMPLE DATE ----->	01/21/97		01/21/97		01/21/97		01/21/97		01/21/97		01/21/97	
	DATE EXTRACTED -->	01/24/97		01/24/97		01/24/97		01/24/97		01/24/97		01/24/97	
	DATE ANALYZED --->	01/26/97		01/26/97		01/26/97		01/26/97		01/26/97		01/26/97	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	28217	VAL	28217	VAL	28217	VAL	28217	VAL	28217	VAL	28217	VAL
57-12-5	Cyanide (CN)	2.	U	2.	U	16.7		2.	U	3.8	J	8.1	J

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

CYANIDE	SAMPLE ID ------>	FDS-G-W11A-01	FDS-G-W11B-01	FDS-G-W11C-01	FDS-H-W11C-01	FDS-G-W12A-01	FDS-H-W12A-01
	ORIGINAL ID ----->	FDSGW11A01	FDSGW11B01	FDSGW11C01	FDSHW11C01	FDSGW12A01	FDSHW12A01
	LAB SAMPLE ID --->	28308.07	28308.08	28308.09	28309.01	28295.05	28296.02
	ID FROM REPORT -->	FDSGW11A01	FDSGW11B01	FDSGW11C01	FDSHW11C01	FDSGW12A01	FDSHW12A01
	SAMPLE DATE ----->	01/28/97	01/28/97	01/28/97	01/28/97	01/27/97	01/27/97
	DATE EXTRACTED -->	01/31/97	01/31/97	01/31/97	01/31/97	01/29/97	01/29/97
	DATE ANALYZED --->	02/01/97	02/01/97	02/01/97	02/01/97	01/30/97	01/30/97
	MATRIX ---------->	Water	Water	Water	Water	Water	Water
	UNITS ---------->	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L

CAS #	Parameter	28308	VAL	28308	VAL	28308	VAL	28308	VAL	28249	VAL	28249	VAL
57-12-5	Cyanide (CN)	2.	U	3.2	J	2.2	J	2.	U	2.	U	2.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

CYANIDE													
	SAMPLE ID ------>	FDS-G-W12B-01		FDS-G-W13A-01		FDS-G-W13B-01		FDS-G-W13C-01		FDS-G-W13D-01		FDS-G-W13E-01	
	ORIGINAL ID ----->	FDSGW12B01		FDSGW13A01		FDSGW13B01		FDSGW13C01		FDSGW13D01		FDSGW13E01	
	LAB SAMPLE ID --->	28295.07		28295.04		28295.03		28295.01		28295.08		28308.04	
	ID FROM REPORT -->	FDSGW12B01		FDSGW13A01		FDSGW13B01		FDSGW13C01		FDSGW13D01		FDSGW13E01	
	SAMPLE DATE ----->	01/27/97		01/27/97		01/27/97		01/27/97		01/27/97		01/28/97	
	DATE EXTRACTED -->	01/29/97		01/29/97		01/29/97		01/29/97		01/29/97		01/31/97	
	DATE ANALYZED --->	01/30/97		01/30/97		01/30/97		01/30/97		01/30/97		02/01/97	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	28249	VAL	28249	VAL	28249	VAL	28249	VAL	28249	VAL	28308	VAL
57-12-5	Cyanide (CN)	2.	U	2.	U	2.	U	2.	U	2.	U	2.6	J

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

CYANIDE							
SAMPLE ID ------->	FDS-G-W14A-01	FDS-G-W14B-01	FDS-G-W14C-01	FDS-G-W15A-01	FDS-G-W15B-01	FDS-G-W15C-01
ORIGINAL ID ----->	FDSGW14A01	FDSGW14B01	FDSGW14C01	FDSGW15A01	FDSGW15B01	FDSGW15C01
LAB SAMPLE ID --->	28295.02	28295.06	28249.01	28308.01	28308.02	28308.03
ID FROM REPORT -->	FDSGW14A01	FDSGW14B01	FDSGW14C01	FDSGW15A01	FDSGW15B01	FDSGW15C01
SAMPLE DATE ----->	01/27/97	01/27/97	01/22/97	01/28/97	01/28/97	01/28/97
DATE EXTRACTED -->	01/29/97	01/29/97	01/24/97	01/31/97	01/31/97	01/31/97
DATE ANALYZED --->	01/30/97	01/30/97	01/26/97	02/01/97	02/01/97	02/01/97
MATRIX ---------->	Water	Water	Water	Water	Water	Water
UNITS ---------->	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L

CAS #	Parameter	28249	VAL	28249	VAL	28249	VAL	28308	VAL	28308	VAL	28308	VAL
57-12-5	Cyanide (CN)	2.	U	2.2	J	8.4	J	3.	J	7.	J	2.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

CYANIDE

SAMPLE ID ------->	FDS-G-W18A-01
ORIGINAL ID ----->	FDSGW18A01
LAB SAMPLE ID --->	28328.05
ID FROM REPORT -->	FDSGW18A01
SAMPLE DATE ----->	01/29/97
DATE EXTRACTED -->	01/31/97
DATE ANALYZED --->	02/01/97
MATRIX ---------->	Water
UNITS ----------->	UG/L

CAS #	Parameter	28308	VAL
57-12-5	Cyanide (CN)	10.1	

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

HEXACHROME													
	SAMPLE ID ------>	FDS-H-W01D-01		FDS-H-W02A-01		FDS-H-W08C-01		FDS-H-W09B-01		FDS-H-W11C-01		FDS-H-W12A-01	
	ORIGINAL ID ----->	FDSHW01D01		FDSHW02A01		FDSHW08C01		FDSHW09B01		FDSHW11C01		FDSHW12A01	
	LAB SAMPLE ID --->	28186.01		28189.01		28280.01		28228.02		28309.01		28296.02	
	ID FROM REPORT -->	FDSHW01D01		FDSHW02A01		FDSHW08C01		FDSHW09B01		FDSHW11C01		FDSHW12A01	
	SAMPLE DATE ----->	01/14/97		01/16/97		01/24/97		01/21/97		01/28/97		01/27/97	
	DATE EXTRACTED -->	01/16/97		01/17/97		01/25/97		01/22/97		01/29/97		01/28/97	
	DATE ANALYZED --->	01/16/97		01/17/97		01/25/97		01/22/97		01/29/97		01/28/97	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	MG/L		MG/L		MG/L		MG/L		MG/L		MG/L	
CAS #	Parameter	28185	VAL	28185	VAL	28249	VAL	28217	VAL	28308	VAL	28249	VAL
18540-29-9	Chromium (Hexavalent)	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-DIOX													
	SAMPLE ID ------>	FDS-H-W01D-01		FDS-H-W02A-01		FDS-H-W08C-01		FDS-H-W09B-01		FDS-H-W11C-01		FDS-H-W12A-01	
	ORIGINAL ID ----->	FDSHW01D01		FDSHW02A01		FDSHW08C01		FDSHW09B01		FDSHW11C01		FDSHW12A01	
	LAB SAMPLE ID --->	28186.01		28189.01		28280.01		28228.02		28309.01		28296.02	
	ID FROM REPORT -->	FDSHW01D01		FDSHW02A01		FDSHW08C01		FDSHW09B01		FDSHW11C01		FDSHW12A01	
	SAMPLE DATE ----->	01/14/97		01/16/97		01/24/97		01/21/97		01/28/97		01/27/97	
	DATE EXTRACTED -->	01/20/97		01/20/97		01/27/97		01/22/97		01/29/97		01/29/97	
	DATE ANALYZED --->	01/22/97		01/23/97		01/29/97		01/24/97		02/03/97		02/03/97	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	PG/L		PG/L		PG/L		PG/L		PG/L		PG/L	
CAS #	Parameter	28185	VAL	28185	VAL	28249	VAL	28217	VAL	28308	VAL	28249	VAL
1746-01-6	2378-TCDD	4.07	U	3.57	U	5.78	U	3.38	U	4.72	U	4.26	U
40321-76-4	12378-PeCDD	7.61	U	6.47	U	5.32	U	4.25	U	4.75	U	4.86	U
39227-28-6	123478-HxCDD	8.01	U	6.71	U	6.75	U	3.67	U	4.11	U	7.49	U
57653-85-7	123678-HxCDD	5.16	U	4.32	U	4.34	U	2.36	U	2.64	U	4.82	U
19408-74-3	123789-HxCDD	5.62	U	4.71	U	4.73	U	2.57	U	2.88	U	5.25	U
35822-46-9	1234678-HpCDD	6.33	U	12.2	U	4.82	U	3.64	U	6.64		3.52	U
3268-87-9	OCDD	50.7	U	11.3	U	5.37	U	3.95	J	103.		3.15	U
51207-31-9	2378-TCDF	3.9	U	4.15	U	4.11	U	1.76	U	3.46	U	2.86	U
57117-41-6	12378-PeCDF	3.83	U	5.62	U	3.35	U	2.53	U	2.28	U	2.26	U
57117-31-4	23478-PeCDF	3.84	U	5.63	U	3.35	U	2.53	U	2.29	U	2.27	U
70648-26-9	123478-HxCDF	4.48	U	5.69	U	3.74	U	2.08	U	3.25	U	3.46	U
57117-44-9	123678-HxCDF	3.51	U	4.46	U	2.93	U	1.63	U	2.54	U	2.71	U
72918-21-9	123789-HxCDF	5.08	U	6.45	U	4.24	U	2.35	U	3.68	U	3.92	U
60851-34-5	234678-HxCDF	4.59	U	5.83	U	3.83	U	2.13	U	3.33	U	3.54	U
67562-39-4	1234678-HpCDF	4.56	U	10.	U	4.16	U	2.31	U	2.45	U	2.54	U
55673-89-7	1234789-HpCDF	5.44	U	12.	U	4.97	U	2.75	U	2.92	U	3.04	U
39001-02-0	OCDF	6.38	U	10.3	U	4.13	U	2.55	U	4.83	U	2.85	U
41903-57-5	Total Tetra-Dioxins	4.07	U	3.57	U	5.78	U	3.38	U	4.72	U	4.26	U
36088-22-9	Total Penta-Dioxins	7.61	U	6.47	U	5.32	U	4.25	U	4.75	U	4.86	U
34465-46-8	Total Hexa-Dioxins	5.16	U	4.32	U	4.34	U	2.36	U	7.86		4.82	U
37871-00-4	Total Hepta-Dioxins	6.33	U	12.2	U	4.82	U	3.64	U	17.2		3.52	U
55722-27-5	Total Tetra-Furans	3.9	U	4.15	U	4.11	U	1.76	U	3.46	U	2.86	U
30602-15-4	Total Penta-Furans	3.84	U	5.63	U	3.35	U	2.53	U	2.29	U	2.27	U
55684-94-1	Total Hexa-Furans	3.51	U	4.46	U	2.93	U	1.63	U	2.54	U	2.71	U
38998-75-3	Total Hepta-Furans	4.56	U	10.	U	4.16	U	2.31	U	2.45	U	2.54	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-META													
	SAMPLE ID ------->	FDS-G-W01A-01		FDS-G-W01A-02		FDS-G-W01B-01		FDS-G-W01B-02		FDS-G-W01C-01		FDS-G-W01C-02	
	ORIGINAL ID ----->	FDSGW01A01		FDSGW01A02		FDSGW01B01		FDSGW01B02		FDSGW01C01		FDSGW01C02	
	LAB SAMPLE ID --->	28174.01		29610.04		28174.02		29560.05		28174.05		29560.06	
	ID FROM REPORT -->	FDSGW01A01		FDSGW01A02		FDSGW01B01		FDSGW01B02		FDSGW01C01		FDSGW01C02	
	SAMPLE DATE ----->	01/14/97		06/05/97		01/14/97		06/02/97		01/14/97		06/02/97	
	DATE EXTRACTED -->	01/16/97		06/11/97		01/16/97		06/09/97		01/16/97		06/09/97	
	DATE ANALYZED --->	01/17/97		06/18/97		01/17/97		06/14/97		01/17/97		06/14/97	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	28134	VAL	29591	VAL	28134	VAL	29515	VAL	28134	VAL	29515	VAL
7429-90-5	Aluminum (Al)	315.		335.		30.4	J	244.		52.8	J	136.	
7440-36-0	Antimony (Sb)	2.1	U	2.	U	2.1	U	1.6	U	2.1	U	1.9	U
7440-38-2	Arsenic (As)	6.9	J	2.2	J	5.7	J	9.9	J	9.8	J	4.3	J
7440-39-3	Barium (Ba)	21.1		10.6		14.8		7.3	J	31.		36.1	
7440-41-7	Beryllium (Be)	0.34	J	0.31	U	0.36	J	0.37	J	0.34	J	0.35	J
7440-43-9	Cadmium (Cd)	0.5	U	0.3	U	0.5	U	0.41	J	0.5	U	0.3	U
7440-70-2	Calcium (Ca)	101000.		116000.		166000.		160000.		238000.		117000.	
7440-47-3	Chromium (Cr)	1.	J	1.5	J	0.8	U	1.2	J	0.8	U	1.	U
7440-48-4	Cobalt (Co)	0.9	U	0.8	U	0.9	U	0.8	U	0.9	U	0.8	U
7440-50-8	Copper (Cu)	2.8	J	2.7	J	0.61	J	1.4	U	0.6	U	1.4	U
7439-89-6	Iron (Fe)	2670.		2230.		4670.		6070.		11900.		7110.	
7439-92-1	Lead (Pb)	1.7	U	0.9	U	1.7	U	1.5	J	1.7	U	0.9	U
7439-95-4	Magnesium (Mg)	22800.		15800.		17500.		12500.		34700.		37500.	
7439-96-5	Manganese (Mn)	229.		193.		323.		213.		626.		258.	
7439-97-6	Mercury (Hg)	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
7440-02-0	Nickel (Ni)	1.5	J	2.2	J	1.9	J	1.8	J	0.8	U	0.7	U
7440-09-7	Potassium (K)	17200.		8810.		29800.		27200.		20100.		33700.	
7782-49-2	Selenium (Se)	2.9	U	3.4	U	2.8	U	3.4	U	4.3	U	3.4	U
7440-22-4	Silver (Ag)	1.2	U	1.2	J	1.2	U	1.	U	1.2	U	1.	U
7440-23-5	Sodium (Na)	161000.		63300.		116000.		96500.	J	170000.		325000.	J
7440-28-0	Thallium (Tl)	2.7	U	5.	U	2.7	U	5.	U	2.7	U	5.	U
7440-31-5	Tin (Sn)	2.6	U	14.	U	2.6	U	14.	U	2.6	U	14.	U
7440-62-2	Vanadium (V)	4.7	J	5.4	J	2.7	J	2.5	J	1.3	J	2.	J
7440-66-6	Zinc (Zn)	8.3	U	5.8	U	5.3	U	5.8	U	5.3	U	5.8	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-META													
	SAMPLE ID ------>	FDS-G-W01D-01		FDS-H-W01D-01		FDS-G-W01D-02		FDS-H-W01D-02		FDS-G-W01E-01		FDS-G-W01E-02	
	ORIGINAL ID ----->	FDSGW01D01		FDSHW01D01		FDSGW01D02		FDSHW01D02		FDSGW01E01		FDSGW01E02	
	LAB SAMPLE ID --->	28185.02		28186.01		29591.03		29591.04		28328.01		29560.07	
	ID FROM REPORT -->	FDSGW01D01		FDSHW01D01		FDSGW01D02		FDSHW01D02		FDSGW01E01		FDSGW01E02	
	SAMPLE DATE ----->	01/14/97		01/14/97		06/04/97		06/04/97		01/29/97		06/02/97	
	DATE EXTRACTED -->	01/21/97		01/21/97		06/11/97		06/11/97		01/31/97		06/09/97	
	DATE ANALYZED --->	01/21/97		01/21/97		06/17/97		06/17/97		01/31/97		06/14/97	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	28185	VAL	28185	VAL	29591	VAL	29591	VAL	28308	VAL	29515	VAL
7429-90-5	Aluminum (Al)	1170.		1160.		107.	J	115.	J	358.		51.	U
7440-36-0	Antimony (Sb)	2.1	U	2.1	U	3.3	U	2.4	U	4.2	J	1.6	U
7440-38-2	Arsenic (As)	4.8	J	6.	J	2.1	U	4.6	J	5.9	J	2.1	UJ
7440-39-3	Barium (Ba)	26.9	J	27.5		20.2		19.4		11.5	J	3.1	J
7440-41-7	Beryllium (Be)	0.3	U	0.3	U	0.31	U	0.34	U	0.5	U	0.35	J
7440-43-9	Cadmium (Cd)	0.5	U	0.5	U	0.3	U	0.3	U	0.5	U	0.3	U
7440-70-2	Calcium (Ca)	93600.	J	96800.		90100.		87000.		50800.	J	73800.	
7440-47-3	Chromium (Cr)	3.7	J	3.8	J	1.	U	1.	U	1.6	J	1.	U
7440-48-4	Cobalt (Co)	0.9	U	0.9	U	0.8	U	1.	J	0.9	U	0.8	U
7440-50-8	Copper (Cu)	5.	J	6.1	J	1.4	U	1.4	U	2.4	U	1.4	U
7439-89-6	Iron (Fe)	7530.	J	7840.		6910.		6650.		1410.	J	930.	
7439-92-1	Lead (Pb)	1.7	U	1.7	U	0.9	U	0.9	U	1.7	U	0.9	U
7439-95-4	Magnesium (Mg)	78300.		80700.		75900.		73100.		9960.	J	9080.	
7439-96-5	Manganese (Mn)	779.		804.		673.		647.		123.	J	129.	
7439-97-6	Mercury (Hg)	0.1	J	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
7440-02-0	Nickel (Ni)	3.4	J	4.5	J	0.7	J	1.7	J	3.	J	0.7	U
7440-09-7	Potassium (K)	47200.		49400.		46500.		44400.		8780.		8120.	
7782-49-2	Selenium (Se)	2.8	U	2.8	U	3.4	U	3.4	U	2.8	U	3.4	U
7440-22-4	Silver (Ag)	1.2	U	1.2	U	1.7	J	1.	UJ	1.2	U	1.	U
7440-23-5	Sodium (Na)	330000.		346000.		366000.		349000.		114000.		79800.	J
7440-28-0	Thallium (Tl)	8.7	J	9.6	J	5.	U	6.7	J	2.7	U	5.	U
7440-31-5	Tin (Sn)	2.8	J	2.6	J	14.	U	14.	U	2.6	U	14.	U
7440-62-2	Vanadium (V)	5.2	J	5.2	J	1.8	J	2.1	J	6.1	J	1.1	U
7440-66-6	Zinc (Zn)	12.1	U	18.3	U	5.8	U	5.8	U	25.5	U	5.8	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-META	SAMPLE ID ------>	FDS-G-W02A-01		FDS-H-W02A-01		FDS-G-W02A-02		FDS-H-W02A-02		FDS-G-W02B-01		FDS-G-W02B-02	
	ORIGINAL ID ----->	FDSGW02A01		FDSHW02A01		FDSGW02A02		FDSHW02A02		FDSGW02B01		FDSGW02B02	
	LAB SAMPLE ID --->	28190.02		28189.01		29538.03		29538.04		28223.10		29523.03	
	ID FROM REPORT -->	FDSGW02A01		FDSHW02A01		FDSGW02A02		FDSHW02A02		FDSGW02B01		FDSGW02B02	
	SAMPLE DATE ----->	01/16/97		01/16/97		05/30/97		05/30/97		01/19/97		05/20/97	
	DATE EXTRACTED -->	01/21/97		01/21/97		06/09/97		06/09/97		01/23/97		06/09/97	
	DATE ANALYZED --->	01/21/97		01/21/97		06/13/97		06/13/97		01/24/97		06/13/97	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	28185	VAL	28185	VAL	29515	VAL	29515	VAL	28217	VAL	29515	VAL
7429-90-5	Aluminum (Al)	1450.	J	4990.	J	880.		734.		141.		55.8	U
7440-36-0	Antimony (Sb)	2.1	U	2.1	U	1.6	U	1.6	U	2.4	J	1.6	U
7440-38-2	Arsenic (As)	18.3		4.8	J	4.1	J	4.4	J	8.9	J	8.3	J
7440-39-3	Barium (Ba)	40.	J	148.	J	115.		141.		83.1	J	33.7	
7440-41-7	Beryllium (Be)	0.3	U	0.55	J	0.54	J	0.47	J	0.3	U	0.34	J
7440-43-9	Cadmium (Cd)	0.5	U	0.5	U	0.3	U	0.38	J	0.5	U	0.3	U
7440-70-2	Calcium (Ca)	90800.	J	160000.	J	128000.		138000.		109000.	J	91100.	
7440-47-3	Chromium (Cr)	11.7		14.8		4.6	J	4.2	J	3.	U	1.	U
7440-48-4	Cobalt (Co)	1.4	U	2.7	U	1.2	U	0.85	U	1.8	J	0.8	U
7440-50-8	Copper (Cu)	5.5	J	7.1	J	1.4	U	3.3	J	3.4	U	1.4	U
7439-89-6	Iron (Fe)	2630.	J	3590.		2120.	J	1110.	J	2870.		5930.	
7439-92-1	Lead (Pb)	1.7	U	2.9	J	0.9	U	4.		1.7	U	0.9	U
7439-95-4	Magnesium (Mg)	109000.	J	322000.	J	264000.		120000.		181000.		123000.	
7439-96-5	Manganese (Mn)	307.	J	578.	J	329.		468.		139.		54.8	
7439-97-6	Mercury (Hg)	0.16	J	0.1	U	1.	J	0.2	U	0.1	U	0.1	U
7440-02-0	Nickel (Ni)	9.2	J	12.6	J	6.7	J	6.2	J	5.3	J	0.7	U
7440-09-7	Potassium (K)	64700.	J	164000.	J	156000.		136000.		74100.		58400.	
7782-49-2	Selenium (Se)	3.1	J	2.8	U	3.4	U	3.4	U	2.8	U	3.4	U
7440-22-4	Silver (Ag)	1.2	U	1.2	U	1.	U	1.	U	1.2	U	1.	U
7440-23-5	Sodium (Na)	1190000.	J	4270000.	J	3800000.	J	2890000.	J	1480000.		1050000.	J
7440-28-0	Thallium (Tl)	5.8	J	7.7	J	5.	U	5.	U	2.7	U	5.	U
7440-31-5	Tin (Sn)	2.6	U	2.6	U	14.	U	14.	U	7.1	U	14.	U
7440-62-2	Vanadium (V)	9.5	J	13.2	J	11.2	J	10.9	J	2.2	J	1.1	U
7440-66-6	Zinc (Zn)	16.9	U	21.2	U	5.8	U	5.8	U	8.8	J	5.8	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-META													
	SAMPLE ID ------>	FDS-G-W02C-01		FDS-G-W02C-02		FDS-G-W03A-01		FDS-G-W03A-02		FDS-G-W03B-01		FDS-G-W03B-02	
	ORIGINAL ID ----->	FDSGW02C01		FDSGW02C02		FDSGW03A01		FDSGW03A02		FDSGW03B01		FDSGW03B02	
	LAB SAMPLE ID --->	28190.01		29538.02		28223.01		29591.01		28185.05		29560.01	
	ID FROM REPORT -->	FDSGW02C01		FDSGW02C02		FDSGW03A01		FDSGW03A02		FDSGW03B01		FDSGW03B02	
	SAMPLE DATE ----->	01/16/97		05/30/97		01/19/97		06/04/97		01/15/97		06/02/97	
	DATE EXTRACTED -->	01/21/97		06/09/97		01/23/97		06/11/97		01/21/97		06/09/97	
	DATE ANALYZED --->	01/23/97		06/13/97		01/24/97		06/17/97		01/21/97		06/14/97	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	28185	VAL	29515	VAL	28217	VAL	29591	VAL	28185	VAL	29515	VAL
7429-90-5	Aluminum (Al)	521.		40.1	U	144.		17.4	J	100.	J	10.3	U
7440-36-0	Antimony (Sb)	2.1	J	1.6	U	2.1	U	1.6	U	2.1	U	1.6	U
7440-38-2	Arsenic (As)	18.1		8.2	J	8.	J	2.1	U	9.2	J	2.1	UJ
7440-39-3	Barium (Ba)	38.	J	24.8		32.3	J	30.3		36.3	J	25.	
7440-41-7	Beryllium (Be)	0.3	U	0.37	J	0.3	U	0.23	U	0.3	U	0.33	J
7440-43-9	Cadmium (Cd)	0.5	U	0.33	J	0.5	U	0.3	U	0.5	U	0.3	U
7440-70-2	Calcium (Ca)	88200.	J	50900.		58400.	J	86500.		52500.	J	46700.	
7440-47-3	Chromium (Cr)	4.7	J	1.2	J	2.8	U	1.	U	1.5	J	1.	U
7440-48-4	Cobalt (Co)	1.6	U	0.8	U	1.1	J	0.8	U	0.9	U	0.8	U
7440-50-8	Copper (Cu)	4.7	J	1.4	U	0.6	U	1.4	U	2.6	J	1.4	U
7439-89-6	Iron (Fe)	2130.	J	5410.		1450.		11700.		974.	J	4340.	
7439-92-1	Lead (Pb)	7.		1.7	J	1.7	U	0.9	U	1.7	U	1.2	J
7439-95-4	Magnesium (Mg)	106000.		160000.		148000.		87600.		163000.		161000.	
7439-96-5	Manganese (Mn)	296.		105.		91.4		355.		90.5		74.5	
7439-97-6	Mercury (Hg)	0.13	J	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
7440-02-0	Nickel (Ni)	7.8	J	0.7	U	3.5	J	0.7	U	3.8	J	0.7	U
7440-09-7	Potassium (K)	61900.		82200.		81800.		47600.		81200.		80900.	
7782-49-2	Selenium (Se)	2.8	U	3.4	U	2.8	U	3.4	U	2.8	U	3.4	U
7440-22-4	Silver (Ag)	1.2	U	1.	U	1.2	U	1.	UJ	1.2	U	1.	U
7440-23-5	Sodium (Na)	1140000.		1780000.	J	1430000.		758000.		1460000.		1350000.	J
7440-28-0	Thallium (Tl)	5.1	J	5.	U	4.4	U	5.	U	3.	J	5.	U
7440-31-5	Tin (Sn)	2.6	U	14.	U	6.3	U	14.	U	2.6	U	14.	U
7440-62-2	Vanadium (V)	4.4	J	1.1	U	1.8	J	1.1	U	2.7	J	1.1	U
7440-66-6	Zinc (Zn)	21.9	U	5.8	U	6.3	J	5.8	U	7.4	U	5.8	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-META													
	SAMPLE ID ------->	FDS-G-W03C-01		FDS-G-W03C-02		FDS-G-W04A-01		FDS-G-W04A-02		FDS-G-W04B-01		FDS-G-W04B-02	
	ORIGINAL ID ----->	FDSGW03C01		FDSGW03C02		FDSGW04A01		FDSGW04A02		FDSGW04B01		FDSGW04B02	
	LAB SAMPLE ID --->	28185.04		29591.02		28223.07		29487.03		28223.08		29515.01	
	ID FROM REPORT -->	FDSGW03C01		FDSGW03C02		FDSGW04A01		FDSGW04A02		FDSGW04B01		FDSGW04B02	
	SAMPLE DATE ----->	01/15/97		06/04/97		01/20/97		05/23/97		01/20/97		05/28/97	
	DATE EXTRACTED -->	01/21/97		06/11/97		01/23/97		05/28/97		01/23/97		05/30/97	
	DATE ANALYZED --->	01/21/97		06/17/97		01/24/97		06/05/97		01/24/97		06/13/97	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	28185	VAL	29591	VAL	28217	VAL	29437	VAL	28217	VAL	29515	VAL
7429-90-5	Aluminum (Al)	722.		38.	J	50.8	J	14.	UJ	193.		80.6	U
7440-36-0	Antimony (Sb)	2.1	U	3.1	U	2.1	U	23.4	J	2.5	J	3.6	U
7440-38-2	Arsenic (As)	5.8	J	3.4	J	6.5	J	2.1	U	3.1	J	2.1	UJ
7440-39-3	Barium (Ba)	38.4	J	23.8		32.5	J	14.6	J	23.3	J	21.3	
7440-41-7	Beryllium (Be)	0.3	U	0.32	U	0.3	U	0.2	UJ	0.3	U	0.2	UJ
7440-43-9	Cadmium (Cd)	0.5	U	0.3	U	0.5	U	0.3	U	0.5	U	0.3	U
7440-70-2	Calcium (Ca)	62800.	J	63900.		61400.	J	60200.	J	80200.	J	118000.	
7440-47-3	Chromium (Cr)	3.1	J	1.	U	3.5	U	1.	U	2.6	U	1.2	J
7440-48-4	Cobalt (Co)	0.9	U	1.2	J	1.2	J	1.9	U	0.9	U	0.8	U
7440-50-8	Copper (Cu)	3.7	J	1.4	U	4.4	J	1.4	U	1.8	U	1.4	U
7439-89-6	Iron (Fe)	2540.	J	3600.		4030.		6330.	J	3400.		3880.	
7439-92-1	Lead (Pb)	1.7	U	0.9	U	1.7	U	4.4	J	1.7	U	0.9	U
7439-95-4	Magnesium (Mg)	182000.		185000.		83600.		70900.	J	87200.		104000.	
7439-96-5	Manganese (Mn)	93.2		57.8		286.		250.	J	163.		169.	
7439-97-6	Mercury (Hg)	0.1	J	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
7440-02-0	Nickel (Ni)	2.8	J	1.5	J	3.2	J	1.4	J	2.6	J	3.3	J
7440-09-7	Potassium (K)	91200.		86200.		55000.		51300.		46200.		55400.	
7782-49-2	Selenium (Se)	2.8	U	3.4	U	2.8	U	3.4	U	2.8	U	3.4	U
7440-22-4	Silver (Ag)	1.2	U	1.	UJ	1.2	U	1.	U	1.2	U	1.	U
7440-23-5	Sodium (Na)	1730000.		1760000.		690000.		475000.		416000.		363000.	J
7440-28-0	Thallium (Tl)	5.7	J	5.	U	4.3	U	5.3	J	2.7	U	5.	U
7440-31-5	Tin (Sn)	2.6	U	14.	U	8.5	U	14.	U	7.6	U	14.	U
7440-62-2	Vanadium (V)	5.	J	2.	J	2.4	J	1.4	J	2.1	J	1.1	J
7440-66-6	Zinc (Zn)	9.	U	5.8	U	5.4	J	5.8	U	5.3	U	5.8	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-META	SAMPLE ID ------>	FDS-G-W04C-01		FDS-G-W04C-02		FDS-G-W05A-01		FDS-G-W05A-02		FDS-G-W05B-01		FDS-G-W05B-02	
	ORIGINAL ID ----->	FDSGW04C01		FDSGW04C02		FDSGW05A01		FDSGW05A02		FDSGW05B01		FDSGW05B02	
	LAB SAMPLE ID --->	28223.09		29515.05		28223.03		29610.01		28209.04		29610.02	
	ID FROM REPORT -->	FDSGW04C01		FDSGW04C02		FDSGW05A01		FDSGW05A02		FDSGW05B01		FDSGW05B02	
	SAMPLE DATE ----->	01/20/97		05/28/97		01/19/97		06/05/97		01/17/97		06/05/97	
	DATE EXTRACTED -->	01/23/97		05/30/97		01/23/97		06/11/97		01/21/97		06/11/97	
	DATE ANALYZED --->	01/24/97		06/13/97		01/24/97		06/17/97		01/21/97		06/17/97	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	28217	VAL	29515	VAL	28217	VAL	29591	VAL	28185	VAL	29591	VAL
7429-90-5	Aluminum (Al)	69.9	J	37.7	U	114.	J	57.	J	38.7	J	17.1	J
7440-36-0	Antimony (Sb)	2.5	J	2.6	U	4.2	J	1.8	U	2.7	J	1.6	U
7440-38-2	Arsenic (As)	2.5	U	2.1	UJ	6.5	J	2.7	J	2.5	U	2.1	U
7440-39-3	Barium (Ba)	28.2	J	17.		30.9	J	45.3		37.7	J	33.1	
7440-41-7	Beryllium (Be)	0.3	U	0.2	UJ	0.3	U	0.25	U	0.47	J	0.46	U
7440-43-9	Cadmium (Cd)	0.5	U	0.3	U	0.5	U	0.3	U	0.5	U	0.3	U
7440-70-2	Calcium (Ca)	46900.	J	52200.		73500.	J	82100.		136000.	J	128000.	
7440-47-3	Chromium (Cr)	4.6	U	1.	U	2.6	U	1.4	J	1.3	J	11.	
7440-48-4	Cobalt (Co)	1.	J	0.92	U	1.5	J	0.8	U	0.9	U	1.1	J
7440-50-8	Copper (Cu)	2.	U	1.4	U	1.6	U	3.3	J	0.77	J	1.4	U
7439-89-6	Iron (Fe)	3370.		2810.		13600.		25600.		7590.	J	7970.	
7439-92-1	Lead (Pb)	1.7	U	0.9	U	1.7	U	0.9	U	1.7	U	0.9	U
7439-95-4	Magnesium (Mg)	112000.		106000.		171000.		69100.		395000.		382000.	
7439-96-5	Manganese (Mn)	176.		171.		232.		269.		247.		237.	
7439-97-6	Mercury (Hg)	0.1	U	0.1	U	0.1	U	0.1	U	0.18	J	0.1	U
7440-02-0	Nickel (Ni)	8.4	J	1.2	J	1.8	J	1.1	J	1.7	J	5.1	J
7440-09-7	Potassium (K)	68500.		73200.		89700.		46600.		178000.		149000.	
7782-49-2	Selenium (Se)	2.8	U	3.4	U	2.8	U	3.4	U	2.8	U	3.4	U
7440-22-4	Silver (Ag)	1.2	U	1.	U	1.2	J	1.3	J	1.2	U	1.	UJ
7440-23-5	Sodium (Na)	1040000.		709000.	J	1720000.		765000.		4300000.		4070000.	
7440-28-0	Thallium (Tl)	4.8	U	6.4	J	4.1	U	5.	U	5.6	J	5.	U
7440-31-5	Tin (Sn)	8.8	U	14.	U	5.7	U	14.	U	3.	J	14.	U
7440-62-2	Vanadium (V)	2.3	J	1.1	U	3.	J	1.4	J	1.9	J	1.3	J
7440-66-6	Zinc (Zn)	6.9	J	5.8	U	5.3	U	5.8	U	5.3	U	5.8	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-META																							
	SAMPLE ID ------->	FDS-G-W06A-01			FDS-G-W06A-02			FDS-G-W06B-01			FDS-G-W06B-02			FDS-G-W06C-01			FDS-G-W06C-02		
	ORIGINAL ID ----->	FDSGW06A01			FDSGW06A02			FDSGW06B01			FDSGW06B02			FDSGW06C01			FDSGW06C02		
	LAB SAMPLE ID --->	28223.02			29523.01			28223.05			29523.02			28223.06			29538.01		
	ID FROM REPORT -->	FDSGW06A01			FDSGW06A02			FDSGW06B01			FDSGW06B02			FDSGW06C01			FDSGW06C02		
	SAMPLE DATE ----->	01/18/97			05/20/97			01/20/97			05/20/97			01/20/97			05/30/97		
	DATE EXTRACTED -->	01/23/97			06/09/97			01/23/97			06/09/97			01/23/97			06/09/97		
	DATE ANALYZED --->	01/24/97			06/13/97			01/24/97			06/13/97			01/24/97			06/13/97		
	MATRIX ---------->	Water			Water			Water			Water			Water			Water		
	UNITS ----------->	UG/L			UG/L			UG/L			UG/L			UG/L			UG/L		
CAS #	Parameter	28217		VAL	29515		VAL	28217		VAL	29515		VAL	28217		VAL	29515		VAL
7429-90-5	Aluminum (Al)	243.			481.			173.			77.4		U	2790.			347.		
7440-36-0	Antimony (Sb)	2.1		U	1.6		U	2.1		U	1.6		U	3.1		J	2.6		U
7440-38-2	Arsenic (As)	2.5		U	16.1		J	2.6		J	2.1		UJ	37.1			19.		J
7440-39-3	Barium (Ba)	35.1		J	19.7			28.9		J	38.2			103.		J	30.7		
7440-41-7	Beryllium (Be)	0.3		U	0.28		J	0.3		U	0.31		J	0.3		U	0.33		J
7440-43-9	Cadmium (Cd)	0.5		U	0.3		U	0.5		U	0.3		U	0.5		U	0.31		J
7440-70-2	Calcium (Ca)	58000.		J	63200.			110000.		J	137000.			90900.		J	68100.		
7440-47-3	Chromium (Cr)	3.5		U	4.8		J	2.7		U	1.2		J	7.		J	2.1		J
7440-48-4	Cobalt (Co)	1.3		J	0.8		U	1.2		J	0.8		U	1.7		J	0.8		U
7440-50-8	Copper (Cu)	3.8		J	3.8		J	2.9		U	1.4		U	8.1		J	2.6		J
7439-89-6	Iron (Fe)	189.			6270.			3550.			1240.			3940.			4140.		
7439-92-1	Lead (Pb)	1.7		U	0.9		U	1.7		U	0.9		U	3.8			2.		J
7439-95-4	Magnesium (Mg)	84900.			52100.			44700.			38100.			168000.			134000.		
7439-96-5	Manganese (Mn)	77.9			119.			311.			249.			569.			736.		
7439-97-6	Mercury (Hg)	0.1		U	0.1		U	0.1		U	0.1		U	0.1		U	0.1		U
7440-02-0	Nickel (Ni)	6.4		J	6.6		J	1.4		J	0.7		U	4.8		J	2.6		J
7440-09-7	Potassium (K)	52300.			44100.			33200.			35300.			95800.			72100.		
7782-49-2	Selenium (Se)	2.8		U	3.4		U	2.8		U	3.4		U	2.8		U	3.4		U
7440-22-4	Silver (Ag)	1.2		U	1.		U	1.2		U	1.		U	1.2		U	1.		U
7440-23-5	Sodium (Na)	773000.			433000.		J	246000.			503000.		J	1670000.			1130000.		J
7440-28-0	Thallium (Tl)	2.8		U	5.		U	4.		U	5.		U	4.1		U	5.		U
7440-31-5	Tin (Sn)	4.1		U	14.		U	3.5		U	14.		U	9.3		U	14.		U
7440-62-2	Vanadium (V)	6.1		J	4.2		J	2.		J	1.7		J	11.4		J	21.4		
7440-66-6	Zinc (Zn)	6.7		J	5.8		U	8.		J	5.8		U	16.		J	5.8		U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-META													
	SAMPLE ID ------>	FDS-G-W07A-01		FDS-G-W07A-02		FDS-G-W07B-01		FDS-G-W07B-02		FDS-G-W07C-01		FDS-G-W07C-02	
	ORIGINAL ID ----->	FDSGW07A01		FDSGW07A02		FDSGW07B01		FDSGW07B02		FDSGW07C01		FDSGW07C02	
	LAB SAMPLE ID --->	28343.01		29610.05		28209.01		29636.01		28209.02		29636.05	
	ID FROM REPORT -->	FDSGW07A01		FDSGW07A02		FDSGW07B01		FDSGW07B02		FDSGW07C01		FDSGW07C02	
	SAMPLE DATE ----->	01/29/97		06/05/97		01/17/97		06/09/97		01/17/97		06/09/97	
	DATE EXTRACTED -->	02/03/97		06/11/97		01/21/97		06/11/97		01/21/97		06/11/97	
	DATE ANALYZED --->	02/05/97		06/18/97		01/21/97		06/17/97		01/21/97		06/17/97	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	28308	VAL	29591	VAL	28185	VAL	29591	VAL	28185	VAL	29591	VAL
7429-90-5	Aluminum (Al)	77.8	J	17.	J	444.		610.		2280.		6280.	
7440-36-0	Antimony (Sb)	2.1	U	1.7	U	2.1	U	4.1	U	2.1	U	5.4	U
7440-38-2	Arsenic (As)	9.7	J	8.3	J	3.6	J	5.5	J	7.6	J	8.	J
7440-39-3	Barium (Ba)	132.	J	67.8		187.	J	203.		229.	J	311.	
7440-41-7	Beryllium (Be)	0.68	U	0.8	U	0.45	J	0.48	U	0.59	J	0.64	U
7440-43-9	Cadmium (Cd)	0.5	U	0.3	U	0.5	U	1.4	J	0.5	U	1.3	J
7440-70-2	Calcium (Ca)	165000.	J	251000.		220000.	J	204000.		218000.	J	221000.	
7440-47-3	Chromium (Cr)	2.4	J	7.9	J	0.8	U	1.9	J	2.9	J	7.9	J
7440-48-4	Cobalt (Co)	1.5	J	1.7	J	2.4	U	1.1	J	1.6	U	1.4	J
7440-50-8	Copper (Cu)	1.9	U	1.4	U	0.6	U	1.4	U	0.6	U	1.4	U
7439-89-6	Iron (Fe)	1820.	J	4960.		68700.	J	74600.		66600.	J	68700.	
7439-92-1	Lead (Pb)	1.7	U	0.9	U	1.7	U	0.9	U	1.7	U	8.5	
7439-95-4	Magnesium (Mg)	503000.	J	889000.		440000.		409000.		586000.		497000.	
7439-96-5	Manganese (Mn)	170.	J	222.		1240.		1120.		991.		820.	
7439-97-6	Mercury (Hg)	0.1	U	0.29		0.14	J	0.1	U	0.16	J	0.1	J
7440-02-0	Nickel (Ni)	6.4	J	2.6	J	2.9	J	0.7	U	0.8	U	0.7	U
7440-09-7	Potassium (K)	206000.		242000.		119000.		108000.		153000.		128000.	
7782-49-2	Selenium (Se)	2.8	U	3.4	U	2.8	U	3.4	U	2.8	U	3.4	U
7440-22-4	Silver (Ag)	1.2	U	1.7	J	1.2	U	1.4	J	1.2	U	1.	UJ
7440-23-5	Sodium (Na)	5790000.		7890000.		4620000.		4440000.		5500000.		4810000.	
7440-28-0	Thallium (Tl)	2.7	U	7.3	J	8.	J	5.	U	9.9	J	6.8	J
7440-31-5	Tin (Sn)	3.7	U	14.	U	4.5	J	14.	U	4.2	J	14.	U
7440-62-2	Vanadium (V)	8.9	J	10.5	J	2.	J	2.2	J	3.5	J	7.6	J
7440-66-6	Zinc (Zn)	5.3	U	5.8	U	5.3	U	5.8	U	5.3	U	8.2	J

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-META													
	SAMPLE ID ------>	FDS-G-W07D-01		FDS-G-W07D-02		FDS-G-W08A-01		FDS-G-W08A-02		FDS-G-W08B-01		FDS-G-W08B-02	
	ORIGINAL ID ----->	FDSGW07D01		FDSGW07D02		FDSGW08A01		FDSGW08A02		FDSGW08B01		FDSGW08B02	
	LAB SAMPLE ID --->	28279.01		29744.01		28279.02		29610.03		28295.10		29636.06	
	ID FROM REPORT -->	FDSGW07D01		FDSGW07D02		FDSGW08A01		FDSGW08A02		FDSGW08B01		FDSGW08B02	
	SAMPLE DATE ----->	01/24/97		06/17/97		01/24/97		06/05/97		01/25/97		06/09/97	
	DATE EXTRACTED -->	01/27/97		06/20/97		01/27/97		06/11/97		01/29/97		06/11/97	
	DATE ANALYZED --->	01/29/97		07/02/97		01/29/97		06/18/97		01/29/97		06/17/97	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	28249	VAL	29707	VAL	28249	VAL	29591	VAL	28249	VAL	29591	VAL
7429-90-5	Aluminum (Al)	118.	U	390.		8900.		381.		682.		116.	J
7440-36-0	Antimony (Sb)	2.1	U	1.6	U	2.1	U	1.6	U	2.1	U	2.7	J
7440-38-2	Arsenic (As)	5.1	J	11.1		20.6		16.4		6.5	J	6.6	J
7440-39-3	Barium (Ba)	328.		587.		54.4		22.2		179.		89.8	
7440-41-7	Beryllium (Be)	0.91	J	0.65	U	1.3	J	0.29	U	0.3	U	0.25	U
7440-43-9	Cadmium (Cd)	0.5	U	0.96	J	0.5	U	0.3	U	0.5	U	0.3	U
7440-70-2	Calcium (Ca)	281000.		307000.		88100.		76500.		83800.		90000.	
7440-47-3	Chromium (Cr)	0.8	U	1.	U	18.9		1.	U	4.8	J	2.3	J
7440-48-4	Cobalt (Co)	3.	J	1.	J	3.1	J	0.8	U	3.5	J	2.8	J
7440-50-8	Copper (Cu)	2.3	U	1.4	U	6.4	J	2.3	J	5.2	U	1.4	U
7439-89-6	Iron (Fe)	7790.	J	73800.		15500.	J	8630.		3040.	J	23800.	
7439-92-1	Lead (Pb)	1.7	U	4.1		8.4		0.9	U	1.7	U	0.9	U
7439-95-4	Magnesium (Mg)	562000.		474000.		41900.		37600.		160000.		157000.	
7439-96-5	Manganese (Mn)	835.		1080.		304.		275.		386.		561.	
7439-97-6	Mercury (Hg)	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
7440-02-0	Nickel (Ni)	4.4	J	0.7	U	8.	J	1.	J	13.	J	1.6	J
7440-09-7	Potassium (K)	140000.	J	148000.		20500.	J	20900.		71500.	J	63800.	
7782-49-2	Selenium (Se)	2.8	U	3.4	U	2.8	U	3.4	U	2.8	U	3.4	U
7440-22-4	Silver (Ag)	1.2	U	1.	U	1.2	U	1.	UJ	1.2	U	1.	UJ
7440-23-5	Sodium (Na)	4700000.		4820000.		114000.		59000.		1960000.		1850000.	
7440-28-0	Thallium (Tl)	7.1	J	7.2	U	4.1	J	5.	U	5.8	J	7.8	J
7440-31-5	Tin (Sn)	2.9	U	14.	U	2.6	U	14.	U	5.	U	14.	U
7440-62-2	Vanadium (V)	2.3	J	5.2	J	22.9		4.5	J	13.1	J	6.6	J
7440-66-6	Zinc (Zn)	19.5	U	5.8	U	36.		5.8	U	11.4	U	5.8	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-META													
	SAMPLE ID ------>	FDS-G-W08C-01		FDS-H-W08C-01		FDS-G-W08C-02		FDS-H-W08C-02		FDS-G-W09A-01		FDS-G-W09A-02	
	ORIGINAL ID ----->	FDSGW08C01		FDSHW08C01		FDSGW08C02		FDSHW08C02		FDSGW09A01		FDSGW09A02	
	LAB SAMPLE ID --->	28279.03		28280.01		29636.07		29636.08		28227.06		29656.04	
	ID FROM REPORT -->	FDSGW08C01		FDSHW08C01		FDSGW08C02		FDSHW08C02		FDSGW09A01		FDSGW09A02	
	SAMPLE DATE ----->	01/24/97		01/24/97		06/09/97		06/09/97		01/21/97		06/10/97	
	DATE EXTRACTED -->	01/27/97		01/27/97		06/11/97		06/11/97		01/23/97		06/12/97	
	DATE ANALYZED --->	01/29/97		01/29/97		06/17/97		06/17/97		01/24/97		06/19/97	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	28249	VAL	28249	VAL	29591	VAL	29591	VAL	28217	VAL	29656	VAL
7429-90-5	Aluminum (Al)	172.	U	155.	U	67.4	J	76.5	J	273.		39.9	J
7440-36-0	Antimony (Sb)	2.1	U	2.1	U	3.2	U	3.7	U	2.1	U	1.6	U
7440-38-2	Arsenic (As)	3.4	J	2.5	U	2.1	U	3.8	J	4.	J	3.3	J
7440-39-3	Barium (Ba)	149.		112.		71.8		73.4		45.4	J	37.6	
7440-41-7	Beryllium (Be)	0.65	J	0.66	J	0.3	U	0.35	U	0.38	J	0.49	U
7440-43-9	Cadmium (Cd)	0.5	U	0.5	U	0.3	U	0.3	U	0.5	U	0.3	U
7440-70-2	Calcium (Ca)	165000.		175000.		241000.		246000.		144000.	J	138000.	
7440-47-3	Chromium (Cr)	0.8	U	0.8	U	1.	U	1.	U	3.1	U	1.3	U
7440-48-4	Cobalt (Co)	2.5	J	1.5	J	0.8	U	0.85	J	2.9	J	0.9	U
7440-50-8	Copper (Cu)	3.6	U	2.5	U	1.4	U	1.4	U	0.6	U	1.4	U
7439-89-6	Iron (Fe)	966.	J	690.		1430.		1460.		13000.		15200.	
7439-92-1	Lead (Pb)	1.7	U	1.7	U	0.9	U	0.9	U	1.7	U	0.9	U
7439-95-4	Magnesium (Mg)	174000.		164000.		126000.		129000.		574000.		462000.	
7439-96-5	Manganese (Mn)	356.		307.		430.		439.		694.		992.	
7439-97-6	Mercury (Hg)	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
7440-02-0	Nickel (Ni)	7.	J	4.6	J	0.97	J	0.79	J	0.8	U	0.7	U
7440-09-7	Potassium (K)	71800.	J	65400.		51300.		52200.		195000.		164000.	
7782-49-2	Selenium (Se)	2.8	U	2.8	U	3.4	U	3.4	U	2.8	U	3.4	U
7440-22-4	Silver (Ag)	1.2	U	1.2	U	1.	UJ	1.4	J	1.2	U	1.	UJ
7440-23-5	Sodium (Na)	1320000.		1100000.		587000.		608000.		5320000.		4380000.	
7440-28-0	Thallium (Tl)	9.	J	7.7	J	5.	U	5.	U	9.2	U	5.6	J
7440-31-5	Tin (Sn)	3.	U	2.6	U	14.	U	14.	U	9.8	U	14.	U
7440-62-2	Vanadium (V)	2.8	J	2.7	J	17.8	J	18.3	J	4.7	J	3.6	J
7440-66-6	Zinc (Zn)	9.	U	13.9	U	5.8	U	5.8	U	5.3	U	5.8	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-META													
	SAMPLE ID ------>	FDS-G-W09B-01		FDS-H-W09B-01		FDS-G-W09B-02		FDS-H-W09B-02		FDS-G-W09C-01		FDS-G-W09C-02	
	ORIGINAL ID ----->	FDSGW09B01		FDSHW09B01		FDSGW09B02		FDSHW09B02		FDSGW09C01		FDSGW09C02	
	LAB SAMPLE ID --->	28227.08		28228.02		29656.06		29656.07		28227.07		29656.05	
	ID FROM REPORT -->	FDSGW09B01		FDSHW09B01		FDSGW09B02		FDSHW09B02		FDSGW09C01		FDSGW09C02	
	SAMPLE DATE ----->	01/21/97		01/21/97		06/10/97		06/10/97		01/21/97		06/10/97	
	DATE EXTRACTED -->	01/23/97		01/23/97		06/12/97		06/12/97		01/23/97		06/12/97	
	DATE ANALYZED --->	01/24/97		01/24/97		06/19/97		06/19/97		01/24/97		06/19/97	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	28217	VAL	28217	VAL	29656	VAL	29656	VAL	28217	VAL	29656	VAL
7429-90-5	Aluminum (Al)	191.		204.		97.2	J	123.		136.		8.	UJ
7440-36-0	Antimony (Sb)	4.1	J	2.1	U	3.2	U	2.1	U	2.1	U	3.2	U
7440-38-2	Arsenic (As)	3.8	J	4.5	J	5.3	J	6.9	J	4.4	J	3.5	J
7440-39-3	Barium (Ba)	199.	J	206.		236.		238.		37.8	J	33.7	
7440-41-7	Beryllium (Be)	0.3	U	0.3	U	0.28	U	0.27	U	0.3	U	0.52	U
7440-43-9	Cadmium (Cd)	0.5	U	0.5	U	0.3	U	0.3	U	0.5	U	0.3	U
7440-70-2	Calcium (Ca)	233000.	J	241000.		235000.		238000.		143000.	J	131000.	
7440-47-3	Chromium (Cr)	2.2	U	2.	U	1.	U	1.	U	2.7	U	1.	U
7440-48-4	Cobalt (Co)	1.1	J	0.9	U	0.8	UJ	0.8	UJ	1.9	J	0.8	UJ
7440-50-8	Copper (Cu)	0.6	U	0.6	U	1.4	U	1.4	U	0.6	U	1.4	U
7439-89-6	Iron (Fe)	23200.		24000.		14600.		14800.		10400.		12400.	
7439-92-1	Lead (Pb)	1.7	U	1.7	U	0.9	U	0.9	U	1.7	U	0.9	U
7439-95-4	Magnesium (Mg)	69000.		71900.		53000.		54100.		583000.		485000.	
7439-96-5	Manganese (Mn)	1450.		1500.		1240.		1250.		561.		576.	
7439-97-6	Mercury (Hg)	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
7440-02-0	Nickel (Ni)	0.8	U	0.8	U	0.7	U	0.7	U	1.	J	0.7	U
7440-09-7	Potassium (K)	46300.		48300.		38700.		39000.		190000.		168000.	
7782-49-2	Selenium (Se)	2.8	U	2.8	U	3.4	U	3.4	U	2.8	U	3.4	U
7440-22-4	Silver (Ag)	1.2	U	1.2	U	1.	UJ	1.9	J	1.2	U	1.	UJ
7440-23-5	Sodium (Na)	465000.		479000.		393000.		395000.		5260000.		4710000.	
7440-28-0	Thallium (Tl)	2.7	U	2.7	U	5.	U	6.7	J	4.2	U	5.8	J
7440-31-5	Tin (Sn)	7.7	U	5.3	U	14.	U	14.	U	6.6	U	14.	U
7440-62-2	Vanadium (V)	1.9	J	2.2	J	1.1	U	1.7	J	3.4	J	1.7	J
7440-66-6	Zinc (Zn)	5.3	U	5.3	U	5.8	U	5.8	U	5.3	U	5.8	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-META													
	SAMPLE ID ------->	FDS-G-W10A-01		FDS-G-W10A-02		FDS-G-W10B-01		FDS-G-W10B-02		FDS-G-W10C-01		FDS-G-W10C-02	
	ORIGINAL ID ----->	FDSGW10A01		FDSGW10A02		FDSGW10B01		FDSGW10B02		FDSGW10C01		FDSGW10C02	
	LAB SAMPLE ID --->	28227.01		29656.01		28227.02		29656.02		28227.03		29656.03	
	ID FROM REPORT -->	FDSGW10A01		FDSGW10A02		FDSGW10B01		FDSGW10B02		FDSGW10C01		FDSGW10C02	
	SAMPLE DATE ----->	01/21/97		06/10/97		01/21/97		06/10/97		01/21/97		06/10/97	
	DATE EXTRACTED -->	01/23/97		06/12/97		01/23/97		06/12/97		01/23/97		06/12/97	
	DATE ANALYZED --->	01/24/97		06/19/97		01/24/97		06/19/97		01/24/97		06/19/97	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	28217	VAL	29656	VAL	28217	VAL	29656	VAL	28217	VAL	29656	VAL
7429-90-5	Aluminum (Al)	230.		8.	UJ	379.		10.7	J	93.1	J	77.	J
7440-36-0	Antimony (Sb)	2.6	J	2.2	U	2.8	J	3.	U	2.4	J	2.9	U
7440-38-2	Arsenic (As)	6.5	J	5.2	J	2.5	U	2.1	U	2.5	U	2.1	U
7440-39-3	Barium (Ba)	411.	J	247.		182.	J	200.		42.6	J	33.	
7440-41-7	Beryllium (Be)	0.3	U	0.36	U	0.3	U	0.47	U	0.3	U	0.45	U
7440-43-9	Cadmium (Cd)	0.5	U	0.3	U	0.5	U	0.3	U	0.5	U	0.32	J
7440-70-2	Calcium (Ca)	133000.	J	133000.		191000.	J	203000.		170000.	J	155000.	
7440-47-3	Chromium (Cr)	3.7	U	2.2	J	2.4	U	1.	U	2.7	U	2.5	J
7440-48-4	Cobalt (Co)	1.8	J	0.8	UJ	0.96	J	0.8	UJ	1.	J	0.8	UJ
7440-50-8	Copper (Cu)	2.6	U	1.4	U	0.6	U	1.4	U	0.6	U	1.4	U
7439-89-6	Iron (Fe)	7590.		8390.		5560.		4650.		13300.		10600.	
7439-92-1	Lead (Pb)	2.	J	0.9	U	1.7	U	0.9	U	1.7	U	0.9	U
7439-95-4	Magnesium (Mg)	245000.		199000.		382000.		280000.		343000.		297000.	
7439-96-5	Manganese (Mn)	156.		137.		275.		263.		790.		707.	
7439-97-6	Mercury (Hg)	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
7440-02-0	Nickel (Ni)	3.7	J	2.4	J	1.2	J	0.7	U	0.92	J	0.7	U
7440-09-7	Potassium (K)	85800.		74900.		131000.		107000.		137000.		120000.	
7782-49-2	Selenium (Se)	2.8	U	3.4	U	2.8	U	3.4	U	2.8	U	3.4	U
7440-22-4	Silver (Ag)	1.3	J	1.	UJ	1.2	U	1.1	J	1.2	U	1.	UJ
7440-23-5	Sodium (Na)	2370000.		2150000.		3550000.		2940000.		3050000.		2920000.	
7440-28-0	Thallium (Tl)	6.7	U	7.1	J	2.7	U	5.	U	2.7	U	5.	U
7440-31-5	Tin (Sn)	6.6	U	14.	U	5.3	U	14.	U	5.5	U	14.	U
7440-62-2	Vanadium (V)	2.6	J	1.1	U	3.6	J	1.8	J	3.3	J	2.7	J
7440-66-6	Zinc (Zn)	2790.		2340.		5.3	U	5.8	U	5.3	U	5.8	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-META															
	SAMPLE ID ------>	FDS-G-W11A-01		FDS-G-W11A-02		FDS-G-W11B-01		FDS-G-W11B-02		FDS-G-W11C-01		FDS-H-W11C-01	
	ORIGINAL ID ----->	FDSGW11A01		FDSGW11A02		FDSGW11B01		FDSGW11B02		FDSGW11C01		FDSHW11C01	
	LAB SAMPLE ID --->	28308.07		29678.01		28308.08		29678.02		28308.09		28309.01	
	ID FROM REPORT -->	FDSGW11A01		FDSGW11A02		FDSGW11B01		FDSGW11B02		FDSGW11C01		FDSHW11C01	
	SAMPLE DATE ----->	01/28/97		06/11/97		01/28/97		06/11/97		01/28/97		01/28/97	
	DATE EXTRACTED -->	01/31/97		06/19/97		01/31/97		06/19/97		01/31/97		01/31/97	
	DATE ANALYZED --->	01/31/97		06/26/97		01/31/97		06/26/97		01/31/97		01/31/97	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ----------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	28308	VAL	29656	VAL	28308	VAL	29656	VAL	28308	VAL	28308	VAL
7429-90-5	Aluminum (Al)	209.		395.		174.		86.2	J	476.		456.	
7440-36-0	Antimony (Sb)	5.1	J	2.1	U	4.2	J	2.	U	3.1	J	4.8	J
7440-38-2	Arsenic (As)	2.9	J	2.1	U	2.5	U	2.1	U	3.2	J	2.5	U
7440-39-3	Barium (Ba)	39.8	J	27.9		68.9	J	54.		57.1	J	58.5	
7440-41-7	Beryllium (Be)	0.36	U	0.33	U	0.44	U	0.31	U	0.45	U	0.49	U
7440-43-9	Cadmium (Cd)	0.5	U	0.3	U	0.5	U	0.3	U	0.5	U	0.5	U
7440-70-2	Calcium (Ca)	101000.	J	105000.		93200.	J	84500.		125000.	J	126000.	
7440-47-3	Chromium (Cr)	0.96	J	1.	J	0.92	J	1.	U	1.	J	1.1	J
7440-48-4	Cobalt (Co)	0.9	U	0.8	UJ	0.9	U	0.8	UJ	0.9	U	0.9	U
7440-50-8	Copper (Cu)	3.	U	1.4	U	1.9	U	1.4	U	1.2	U	2.	U
7439-89-6	Iron (Fe)	2260.	J	2920.		15800.	J	17300.		7630.	J	7750.	
7439-92-1	Lead (Pb)	1.7	U	0.9	U	1.7	U	0.9	U	1.7	U	1.7	U
7439-95-4	Magnesium (Mg)	34000.	J	28500.		67900.	J	54100.		190000.	J	193000.	
7439-96-5	Manganese (Mn)	300.	J	348.		913.	J	814.		523.	J	530.	
7439-97-6	Mercury (Hg)	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
7440-02-0	Nickel (Ni)	0.96	J	0.7	U	3.	J	0.7	U	0.88	J	1.2	J
7440-09-7	Potassium (K)	27300.		18300.		38200.		31200.		53700.		54400.	
7782-49-2	Selenium (Se)	2.8	U	3.4	U	2.8	U	3.4	U	2.8	U	2.8	U
7440-22-4	Silver (Ag)	1.2	U	1.	UJ	1.2	U	1.	UJ	1.2	U	1.2	U
7440-23-5	Sodium (Na)	380000.		185000.		587000.		433000.		1510000.		306000.	
7440-28-0	Thallium (Tl)	2.7	U	5.	U	2.7	U	5.	U	2.7	U	2.7	U
7440-31-5	Tin (Sn)	2.6	U	14.	U	2.6	U	14.	U	2.6	U	3.3	J
7440-62-2	Vanadium (V)	0.67	J	1.1	U	0.5	U	1.1	U	0.67	J	0.67	J
7440-66-6	Zinc (Zn)	29.4	U	5.8	U	28.1	U	5.8	U	18.7	U	23.7	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-META													
	SAMPLE ID ------>	FDS-G-W11C-02		FDS-H-W11C-02		FDS-G-W12A-01		FDS-H-W12A-01		FDS-G-W12A-02		FDS-H-W12A-02	
	ORIGINAL ID ----->	FDSGW11C02		FDSHW11C02		FDSGW12A01		FDSHW12A01		FDSGW12A02		FDSHW12A02	
	LAB SAMPLE ID --->	29678.03		29678.04		28295.05		28296.02		29678.07		29678.08	
	ID FROM REPORT -->	FDSGW11C02		FDSHW11C02		FDSGW12A01		FDSHW12A01		FDSGW12A02		FDSHW12A02	
	SAMPLE DATE ----->	06/11/97		06/11/97		01/27/97		01/27/97		06/11/97		06/11/97	
	DATE EXTRACTED -->	06/19/97		06/19/97		01/29/97		01/29/97		06/19/97		06/19/97	
	DATE ANALYZED --->	06/26/97		06/26/97		01/29/97		01/29/97		06/27/97		06/27/97	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	29656	VAL	29656	VAL	28249	VAL	28249	VAL	29656	VAL	29656	VAL
7429-90-5	Aluminum (Al)	157.		180.		705.	J	323.	J	275.		301.	
7440-36-0	Antimony (Sb)	2.4	U	3.6	U	2.3	U	2.3	U	4.3	U	3.1	U
7440-38-2	Arsenic (As)	2.1	U	2.9	J	6.4	J	6.7	J	22.8		23.1	
7440-39-3	Barium (Ba)	51.3		50.9		263.		273.		196.		197.	
7440-41-7	Beryllium (Be)	0.34	U	0.31	U	0.3	U	0.3	U	0.45	U	0.45	U
7440-43-9	Cadmium (Cd)	0.3	U	0.3	U	0.5	U	0.5	U	0.38	J	0.54	J
7440-70-2	Calcium (Ca)	78000.		77600.		271000.		278000.		215000.		216000.	
7440-47-3	Chromium (Cr)	1.	U	1.	U	1.4	J	1.	J	1.	U	1.	U
7440-48-4	Cobalt (Co)	0.8	UJ	0.8	UJ	17.5	J	18.2	J	18.7	J	18.7	J
7440-50-8	Copper (Cu)	1.4	U	1.4	U	1.6	U	0.6	U	1.4	U	1.4	U
7439-89-6	Iron (Fe)	7130.		7110.		11100.	J	10500.		19800.		19900.	
7439-92-1	Lead (Pb)	0.9	U	0.9	U	1.7	U	1.7	U	0.9	U	0.9	U
7439-95-4	Magnesium (Mg)	99900.		99400.		57800.		58200.		53300.		53500.	
7439-96-5	Manganese (Mn)	501.		498.		3590.		3710.		3170.		3190.	
7439-97-6	Mercury (Hg)	0.11	J	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
7440-02-0	Nickel (Ni)	0.7	U	0.7	U	8.8	J	9.6	J	4.9	J	4.8	J
7440-09-7	Potassium (K)	40300.		39000.		7170.	J	7110.		5890.		5980.	
7782-49-2	Selenium (Se)	3.4	U	3.4	U	2.8	U	2.8	U	3.4	U	3.4	U
7440-22-4	Silver (Ag)	1.	UJ	1.	UJ	1.2	U	1.2	U	1.	UJ	1.	UJ
7440-23-5	Sodium (Na)	1030000.		1030000.		428000.		426000.		388000.		388000.	
7440-28-0	Thallium (Tl)	5.	U	5.	U	4.3	J	4.7	J	5.	U	5.	U
7440-31-5	Tin (Sn)	14.	U	14.	U	2.7	U	2.6	U	14.	U	14.	U
7440-62-2	Vanadium (V)	1.1	U	1.1	U	1.5	J	1.2	J	1.1	U	1.1	U
7440-66-6	Zinc (Zn)	5.8	U	5.8	U	21.	U	20.1	U	5.8	U	8.4	J

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-META													
	SAMPLE ID ------->	FDS-G-W12B-01		FDS-G-W12B-02		FDS-G-W13A-01		FDS-G-W13A-02		FDS-G-W13B-01		FDS-G-W13B-02	
	ORIGINAL ID ----->	FDSGW12B01		FDSGW12B02		FDSGW13A01		FDSGW13A02		FDSGW13B01		FDSGW13B02	
	LAB SAMPLE ID --->	28295.07		29678.06		28295.04		29678.05		28295.03		29707.01	
	ID FROM REPORT -->	FDSGW12B01		FDSGW12B02		FDSGW13A01		FDSGW13A02		FDSGW13B01		FDSGW13B02	
	SAMPLE DATE ----->	01/27/97		06/11/97		01/27/97		06/11/97		01/27/97		06/13/97	
	DATE EXTRACTED -->	01/29/97		06/19/97		01/29/97		06/19/97		01/29/97		06/20/97	
	DATE ANALYZED --->	01/29/97		06/27/97		01/29/97		06/26/97		01/29/97		07/02/97	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	28249	VAL	29656	VAL	28249	VAL	29656	VAL	28249	VAL	29707	VAL
7429-90-5	Aluminum (Al)	111.	U	213.		1360.		692.		787.		74.4	J
7440-36-0	Antimony (Sb)	2.1	U	3.5	U	2.1	U	4.2	U	3.9	U	1.9	U
7440-38-2	Arsenic (As)	28.		49.3		27.		210.		5.2	J	16.8	
7440-39-3	Barium (Ba)	78.9		70.4		138.		28.1		144.		29.8	
7440-41-7	Beryllium (Be)	0.3	U	0.44	U	0.3	U	0.38	U	0.45	J	0.39	U
7440-43-9	Cadmium (Cd)	0.5	U	0.52	J	0.5	U	0.44	J	0.5	U	0.3	U
7440-70-2	Calcium (Ca)	172000.		160000.		161000.		155000.		197000.		185000.	
7440-47-3	Chromium (Cr)	0.82	J	1.	U	4.2	J	1.9	J	2.6	J	1.9	J
7440-48-4	Cobalt (Co)	31.		29.6	J	4.1	J	0.8	UJ	3.1	J	1.9	J
7440-50-8	Copper (Cu)	0.6	U	1.4	U	5.2	J	1.4	U	2.2	U	2.2	J
7439-89-6	Iron (Fe)	18500.	J	32200.		14700.	J	37200.		2110.	J	9150.	
7439-92-1	Lead (Pb)	1.7	U	0.9	U	1.7	U	1.	J	1.7	U	0.9	U
7439-95-4	Magnesium (Mg)	106000.		112000.		203000.		75700.		428000.		214000.	
7439-96-5	Manganese (Mn)	3370.		3240.		1370.		2480.		286.		292.	
7439-97-6	Mercury (Hg)	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
7440-02-0	Nickel (Ni)	9.6	J	6.2	J	11.	J	0.7	U	7.7	J	4.	J
7440-09-7	Potassium (K)	41200.	J	43900.		75200.	J	42100.		123000.	J	86500.	
7782-49-2	Selenium (Se)	2.8	U	3.4	U	2.8	U	3.4	U	2.8	U	3.4	U
7440-22-4	Silver (Ag)	1.2	U	1.	UJ	1.2	U	1.	UJ	1.2	U	1.	U
7440-23-5	Sodium (Na)	876000.		1010000.		1850000.		425000.		3860000.		2080000.	
7440-28-0	Thallium (Tl)	3.2	J	5.	U	5.7	J	5.	U	7.1	J	6.4	U
7440-31-5	Tin (Sn)	3.2	U	14.	U	3.2	U	14.	U	2.6	U	14.	U
7440-62-2	Vanadium (V)	0.5	U	1.1	U	4.7	J	5.1	J	9.1	J	20.5	
7440-66-6	Zinc (Zn)	13.2	U	16.3	J	8.4	U	7.8	J	5.3	U	5.8	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-META													
	SAMPLE ID ------>	FDS-G-W13C-01		FDS-G-W13C-02		FDS-G-W13D-01		FDS-G-W13D-02		FDS-G-W13E-01		FDS-G-W13E-02	
	ORIGINAL ID ----->	FDSGW13C01		FDSGW13C02		FDSGW13D01		FDSGW13D02		FDSGW13E01		FDSGW13E02	
	LAB SAMPLE ID --->	28295.01		29697.03		28295.08		29697.04		28308.04		29707.02	
	ID FROM REPORT -->	FDSGW13C01		FDSGW13C02		FDSGW13D01		FDSGW13D02		FDSGW13E01		FDSGW13E02	
	SAMPLE DATE ----->	01/27/97		06/12/97		01/27/97		06/12/97		01/28/97		06/13/97	
	DATE EXTRACTED -->	01/29/97		06/19/97		01/29/97		06/19/97		01/31/97		06/20/97	
	DATE ANALYZED --->	01/29/97		06/27/97		01/29/97		06/26/97		01/31/97		07/02/97	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	28249	VAL	29656	VAL	28249	VAL	29656	VAL	28308	VAL	29707	VAL
7429-90-5	Aluminum (Al)	1730.		1600.		1850.		2820.		215.		1290.	
7440-36-0	Antimony (Sb)	2.6	U	4.8	U	2.5	U	2.	U	3.4	J	1.6	U
7440-38-2	Arsenic (As)	3.9	J	6.	J	2.5	U	16.7		22.5		29.9	
7440-39-3	Barium (Ba)	27.3		17.		35.6		31.9		32.9	J	30.4	
7440-41-7	Beryllium (Be)	0.53	J	0.75	U	0.3	U	0.4	U	0.39	U	0.37	U
7440-43-9	Cadmium (Cd)	0.5	U	0.68	J	0.5	U	0.3	U	0.5	U	0.3	U
7440-70-2	Calcium (Ca)	69800.		49400.		8930.		3580.		155000.	J	161000.	
7440-47-3	Chromium (Cr)	1.3	J	2.9	J	3.6	J	5.3	J	0.8	U	3.3	J
7440-48-4	Cobalt (Co)	29.		23.4		3.4	J	1.4	J	0.9	U	0.8	U
7440-50-8	Copper (Cu)	0.6	U	1.4	U	1.5	U	1.8	J	1.1	U	1.4	U
7439-89-6	Iron (Fe)	73800.	J	64500.		4640.	J	8280.		10700.	J	19000.	
7439-92-1	Lead (Pb)	1.7	U	0.9	U	1.7	U	1.9	J	1.7	U	1.3	J
7439-95-4	Magnesium (Mg)	153000.		113000.		6130.		2730.		131000.	J	137000.	
7439-96-5	Manganese (Mn)	1680.		1300.		163.		73.7		1540.	J	1660.	
7439-97-6	Mercury (Hg)	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
7440-02-0	Nickel (Ni)	10.5	J	7.9	J	4.8	J	2.2	J	0.94	J	0.82	J
7440-09-7	Potassium (K)	40300.	J	30300.		3610.	J	2910.	J	57400.		67000.	
7782-49-2	Selenium (Se)	2.8	U	3.4	U	2.8	U	3.4	U	2.8	U	3.4	U
7440-22-4	Silver (Ag)	1.2	U	1.	UJ	1.2	U	1.	UJ	1.2	U	1.	U
7440-23-5	Sodium (Na)	1620000.		1260000.		163000.		104000.		538000.		795000.	
7440-28-0	Thallium (Tl)	2.7	UJ	5.	U	4.2	J	5.	U	2.7	U	6.3	U
7440-31-5	Tin (Sn)	3.9	U	14.	U	2.8	U	14.	U	2.6	U	14.	U
7440-62-2	Vanadium (V)	1.6	J	2.9	J	3.7	J	6.1	J	3.7	J	5.3	J
7440-66-6	Zinc (Zn)	26.3	U	21.7		16.5	U	12.9	J	18.	U	5.8	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-META													
	SAMPLE ID ------>	FDS-G-W14A-01		FDS-G-W14A-02		FDS-G-W14B-01		FDS-G-W14B-02		FDS-G-W14C-01		FDS-G-W14C-02	
	ORIGINAL ID ----->	FDSGW14A01		FDSGW14A02		FDSGW14B01		FDSGW14B02		FDSGW14C01		FDSGW14C02	
	LAB SAMPLE ID --->	28295.02		29697.01		28295.06		29697.02		28249.01		29707.03	
	ID FROM REPORT -->	FDSGW14A01		FDSGW14A02		FDSGW14B01		FDSGW14B02		FDSGW14C01		FDSGW14C02	
	SAMPLE DATE ----->	01/27/97		06/12/97		01/27/97		06/12/97		01/22/97		06/13/97	
	DATE EXTRACTED -->	01/29/97		06/19/97		01/29/97		06/19/97		01/27/97		06/20/97	
	DATE ANALYZED --->	01/29/97		06/27/97		01/29/97		06/27/97		01/29/97		07/02/97	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	28249	VAL	29656	VAL	28249	VAL	29656	VAL	28249	VAL	29707	VAL
7429-90-5	Aluminum (Al)	138.	U	2940.		147.	U	201.		738.		250.	
7440-36-0	Antimony (Sb)	3.8	U	6.3	U	2.9	U	3.	U	2.1	U	3.1	U
7440-38-2	Arsenic (As)	50.3		21.8		6.9	J	22.5		14.		24.9	
7440-39-3	Barium (Ba)	45.2		59.6		52.		46.2		51.5		33.1	
7440-41-7	Beryllium (Be)	0.3	U	0.68	U	0.3	U	0.44	U	0.64	J	0.33	U
7440-43-9	Cadmium (Cd)	0.5	U	0.31	J	0.5	U	0.41	J	0.5	U	0.3	U
7440-70-2	Calcium (Ca)	177000.		137000.		127000.		137000.		201000.		151000.	
7440-47-3	Chromium (Cr)	2.	J	9.6	J	4.3	J	2.8	J	1.4	J	2.4	J
7440-48-4	Cobalt (Co)	1.9	J	2.1	J	3.	J	1.6	J	1.6	J	0.98	J
7440-50-8	Copper (Cu)	2.1	U	3.7	J	3.8	J	1.4	U	5.	J	1.4	U
7439-89-6	Iron (Fe)	20100.	J	15600.		4240.	J	25600.		2830.	J	4930.	
7439-92-1	Lead (Pb)	1.7	U	3.5		1.7	U	0.9	U	1.7	U	0.9	U
7439-95-4	Magnesium (Mg)	257000.		281000.		266000.		217000.		170000.		197000.	
7439-96-5	Manganese (Mn)	607.		354.		329.		405.		3360.		1510.	
7439-97-6	Mercury (Hg)	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
7440-02-0	Nickel (Ni)	3.6	U	4.8	J	7.7	J	1.4	J	2.7	U	2.3	J
7440-09-7	Potassium (K)	91500.	J	109000.		90000.	J	81600.		63100.	J	94300.	
7782-49-2	Selenium (Se)	2.8	U	3.4	U	2.8	U	3.4	U	2.8	U	3.4	U
7440-22-4	Silver (Ag)	1.2	U	1.	UJ	1.2	U	1.	UJ	1.2	U	1.	U
7440-23-5	Sodium (Na)	1970000.		2510000.		2240000.		2020000.		1030000.		1750000.	
7440-28-0	Thallium (Tl)	3.5	J	5.	U	3.2	J	5.	U	5.3	J	5.	U
7440-31-5	Tin (Sn)	3.9	U	14.	U	5.7	U	14.	U	2.6	U	14.	U
7440-62-2	Vanadium (V)	5.	J	20.2		8.4	J	13.2	J	5.4	J	17.3	J
7440-66-6	Zinc (Zn)	5.3	U	10.4	J	5.3	U	5.8	U	8.	U	5.8	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-META													
	SAMPLE ID ------>	FDS-G-W15A-01		FDS-G-W15A-02		FDS-G-W15B-01		FDS-G-W15B-02		FDS-G-W15C-01		FDS-G-W15C-02	
	ORIGINAL ID ----->	FDSGW15A01		FDSGW15A02		FDSGW15B01		FDSGW15B02		FDSGW15C01		FDSGW15C02	
	LAB SAMPLE ID --->	28308.01		29707.04		28308.02		29730.06		28308.03		29730.07	
	ID FROM REPORT -->	FDSGW15A01		FDSGW15A02		FDSGW15B01		FDSGW15B02		FDSGW15C01		FDSGW15C02	
	SAMPLE DATE ----->	01/28/97		06/13/97		01/28/97		06/16/97		01/28/97		06/16/97	
	DATE EXTRACTED -->	01/31/97		06/20/97		01/31/97		06/20/97		01/31/97		06/20/97	
	DATE ANALYZED --->	01/31/97		07/02/97		01/31/97		07/02/97		01/31/97		07/02/97	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	28308	VAL	29707	VAL	28308	VAL	29707	VAL	28308	VAL	29707	VAL
7429-90-5	Aluminum (Al)	100.	J	503.		3010.		209.		962.		474.	
7440-36-0	Antimony (Sb)	2.1	U	1.6	U	2.1	U	1.6	U	3.5	J	1.6	U
7440-38-2	Arsenic (As)	19.4		26.7		4.1	J	4.6	J	2.5	U	2.1	U
7440-39-3	Barium (Ba)	55.2	J	94.5		68.6	J	70.6		159.	J	153.	
7440-41-7	Beryllium (Be)	0.34	U	0.35	U	0.59	U	0.29	U	0.59	U	0.42	U
7440-43-9	Cadmium (Cd)	0.5	U	0.3	U	0.5	U	0.3	U	0.5	U	0.3	U
7440-70-2	Calcium (Ca)	126000.	J	235000.		98800.	J	119000.		268000.	J	284000.	
7440-47-3	Chromium (Cr)	0.92	J	1.5	J	4.7	J	1.	U	1.9	J	1.	U
7440-48-4	Cobalt (Co)	0.9	U	0.8	U	8.1	J	6.8	J	1.3	J	0.8	U
7440-50-8	Copper (Cu)	3.6	J	1.4	U	1.2	U	1.4	U	0.6	U	1.4	U
7439-89-6	Iron (Fe)	4920.	J	6620.		2060.	J	675.		1920.	J	3040.	
7439-92-1	Lead (Pb)	1.7	U	0.9	U	1.7	U	0.9	U	1.7	U	0.9	U
7439-95-4	Magnesium (Mg)	12200.	J	15800.		26200.	J	22800.		19300.	J	14000.	
7439-96-5	Manganese (Mn)	721.	J	515.		1050.	J	813.		806.	J	465.	
7439-97-6	Mercury (Hg)	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
7440-02-0	Nickel (Ni)	3.7	J	0.84	J	3.2	J	1.6	J	1.7	J	0.9	J
7440-09-7	Potassium (K)	10800.		5130.		7410.		8050.		3440.	J	3450.	J
7782-49-2	Selenium (Se)	2.8	U	3.4	U	2.8	U	3.4	U	2.8	U	3.4	U
7440-22-4	Silver (Ag)	1.2	U	1.	U	1.2	U	1.	U	1.2	U	1.	U
7440-23-5	Sodium (Na)	78300.		157000.		92400.		158000.		117000.		114000.	
7440-28-0	Thallium (Tl)	2.7	U	5.3	U	2.7	U	5.1	U	3.3	J	5.7	U
7440-31-5	Tin (Sn)	2.6	U	14.	U	2.6	U	14.	U	2.6	U	14.	U
7440-62-2	Vanadium (V)	1.3	J	1.6	J	6.	J	1.1	J	1.9	J	1.6	J
7440-66-6	Zinc (Zn)	35.6	U	5.8	U	7.1	U	11.9	U	5.3	U	9.8	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-META									
	SAMPLE ID ------>	FDS-G-W18A-01		FDS-G-W18A-02					
	ORIGINAL ID ----->	FDSGW18A01		FDSGW18A02					
	LAB SAMPLE ID --->	28328.05		29767.03					
	ID FROM REPORT -->	FDSGW18A01		FDSGW18A02					
	SAMPLE DATE ----->	01/29/97		06/18/97					
	DATE EXTRACTED -->	01/31/97		06/26/97					
	DATE ANALYZED --->	01/31/97		07/08/97					
	MATRIX ---------->	Water		Water					
	UNITS ---------->	UG/L		UG/L					
CAS #	Parameter	28308	VAL	29767	VAL				
7429-90-5	Aluminum (Al)	2070.		15.5	J				
7440-36-0	Antimony (Sb)	5.3	J	5.	J				
7440-38-2	Arsenic (As)	6.2	J	3.7	J				
7440-39-3	Barium (Ba)	102.	J	60.9					
7440-41-7	Beryllium (Be)	0.64	U	0.28	U				
7440-43-9	Cadmium (Cd)	0.5	U	0.3	U				
7440-70-2	Calcium (Ca)	110000.	J	149000.					
7440-47-3	Chromium (Cr)	4.5	J	1.5	J				
7440-48-4	Cobalt (Co)	2.	J	2.4	J				
7440-50-8	Copper (Cu)	7.6	J	3.6	J				
7439-89-6	Iron (Fe)	1720.	J	3970.					
7439-92-1	Lead (Pb)	1.7	U	0.9	U				
7439-95-4	Magnesium (Mg)	234000.	J	186000.					
7439-96-5	Manganese (Mn)	257.	J	317.					
7439-97-6	Mercury (Hg)	0.1	U	0.1	U				
7440-02-0	Nickel (Ni)	7.	J	5.6	J				
7440-09-7	Potassium (K)	111000.		113000.					
7782-49-2	Selenium (Se)	2.8	U	3.4	U				
7440-22-4	Silver (Ag)	1.2	U	1.	U				
7440-23-5	Sodium (Na)	2200000.		1750000.	J				
7440-28-0	Thallium (Tl)	2.7	U	6.4	U				
7440-31-5	Tin (Sn)	3.4	U	14.	U				
7440-62-2	Vanadium (V)	44.1		37.					
7440-66-6	Zinc (Zn)	41.9		5.8	U				

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-OP P						
SAMPLE ID ------->	FDS-H-W01D-01	FDS-H-W02A-01	FDS-H-W08C-01	FDS-H-W09B-01	FDS-H-W11C-01	FDS-H-W12A-01
ORIGINAL ID ----->	FDSHW01D01	FDSHW02A01	FDSHW08C01	FDSHW09B01	FDSHW11C01	FDSHW12A01
LAB SAMPLE ID --->	28186.01	28189.01	28280.01	28228.02	28309.01	28296.02
ID FROM REPORT -->	FDSHW01D01	FDSHW02A01	FDSHW08C01	FDSHW09B01	FDSHW11C01	FDSHW12A01
SAMPLE DATE ----->	01/14/97	01/16/97	01/24/97	01/21/97	01/28/97	01/27/97
DATE EXTRACTED -->	01/18/97	01/18/97	01/27/97	01/22/97	01/30/97	01/28/97
DATE ANALYZED --->	01/20/97	01/20/97	01/29/97	01/25/97	01/31/97	01/29/97
MATRIX ---------->	Water	Water	Water	Water	Water	Water
UNITS ---------->	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L

CAS #	Parameter	28185	VAL	28185	VAL	28249	VAL	28217	VAL	28308	VAL	28249	VAL
298-02-2	Phorate	2.	U	2.	U	2.	U	2.	U	2.	U	2.	U
298-04-4	Disulfoton	3.7	U	3.7	U	3.7	U	3.7	U	3.7	U	3.7	U
298-00-0	Methyl parathion	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-PEST	SAMPLE ID ------>	FDS-G-W01A-01		FDS-G-W01A-02		FDS-G-W01B-01		FDS-G-W01B-02		FDS-G-W01C-01		FDS-G-W01C-02	
	ORIGINAL ID ----->	FDSGW01A01		FDSGW01A02		FDSGW01B01		FDSGW01B02		FDSGW01C01		FDSGW01C02	
	LAB SAMPLE ID --->	28174.01		29610.04		28174.02		29560.05		28174.05		29560.06	
	ID FROM REPORT -->	FDSGW01A01		FDSGW01A02		FDSGW01B01		FDSGW01B02		FDSGW01C01		FDSGW01C02	
	SAMPLE DATE ----->	01/14/97		06/05/97		01/14/97		06/02/97		01/14/97		06/02/97	
	DATE EXTRACTED -->	01/16/97		06/06/97		01/16/97		06/04/97		01/16/97		06/04/97	
	DATE ANALYZED --->	01/18/97		06/12/97		01/18/97		06/08/97		01/18/97		06/08/97	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	28134	VAL	29591	VAL	28134	VAL	29515	VAL	28134	VAL	29515	VAL
319-84-6	alpha-BHC	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
319-85-7	beta-BHC	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
319-86-8	delta-BHC	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
58-89-9	gamma-BHC (Lindane)	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
76-44-8	Heptachlor	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
309-00-2	Aldrin	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
1024-57-3	Heptachlor epoxide	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
959-98-8	Endosulfan I	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
60-57-1	Dieldrin	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
72-55-9	4,4'-DDE	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
72-20-8	Endrin	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
33213-65-9	Endosulfan II	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
72-54-8	4,4'-DDD	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
1031-07-8	Endosulfan sulfate	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
50-29-3	4,4'-DDT	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
72-43-5	Methoxychlor	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U
53494-70-5	Endrin ketone	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
7421-93-4	Endrin aldehyde	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
5103-71-9	alpha-Chlordane	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
5103-74-2	gamma-Chlordane	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
8001-35-2	Toxaphene	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
12674-11-2	Aroclor-1016	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
11104-28-2	Aroclor-1221	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
11141-16-5	Aroclor-1232	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
53469-21-9	Aroclor-1242	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
12672-29-6	Aroclor-1248	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
11097-69-1	Aroclor-1254	2.	U	2.	U	2.	U	2.	U	2.	U	2.	U
11096-82-5	Aroclor-1260	2.	U	2.	U	2.	U	2.	U	2.	U	2.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-PEST													
	SAMPLE ID ------>	FDS-G-W01D-01		FDS-G-W01D-02		FDS-H-W01D-02		FDS-G-W01E-01		FDS-G-W01E-02		FDS-G-W02A-01	
	ORIGINAL ID ----->	FDSGW01D01		FDSGW01D02		FDSHW01D02		FDSGW01E01		FDSGW01E02		FDSGW02A01	
	LAB SAMPLE ID --->	28185.02		29591.03		29591.04		28328.01		29560.07		28190.02	
	ID FROM REPORT -->	FDSGW01D01		FDSGW01D02		FDSHW01D02		FDSGW01E01		FDSGW01E02		FDSGW02A01	
	SAMPLE DATE ----->	01/14/97		06/04/97		06/04/97		01/29/97		06/02/97		01/16/97	
	DATE EXTRACTED -->	01/20/97		06/06/97		06/06/97		01/31/97		06/04/97		01/17/97	
	DATE ANALYZED --->	01/22/97		06/11/97		06/11/97		02/03/97		06/08/97		01/21/97	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	28185	VAL	29591	VAL	29591	VAL	28308	VAL	29515	VAL	28185	VAL
319-84-6	alpha-BHC	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
319-85-7	beta-BHC	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
319-86-8	delta-BHC	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
58-89-9	gamma-BHC (Lindane)	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
76-44-8	Heptachlor	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
309-00-2	Aldrin	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
1024-57-3	Heptachlor epoxide	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
959-98-8	Endosulfan I	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
60-57-1	Dieldrin	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
72-55-9	4,4'-DDE	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
72-20-8	Endrin	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
33213-65-9	Endosulfan II	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
72-54-8	4,4'-DDD	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
1031-07-8	Endosulfan sulfate	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
50-29-3	4,4'-DDT	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
72-43-5	Methoxychlor	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U
53494-70-5	Endrin ketone	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
7421-93-4	Endrin aldehyde	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
5103-71-9	alpha-Chlordane	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
5103-74-2	gamma-Chlordane	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
8001-35-2	Toxaphene	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
12674-11-2	Aroclor-1016	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
11104-28-2	Aroclor-1221	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
11141-16-5	Aroclor-1232	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
53469-21-9	Aroclor-1242	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
12672-29-6	Aroclor-1248	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
11097-69-1	Aroclor-1254	2.	U	2.	U	2.	U	2.	U	2.	U	2.	U
11096-82-5	Aroclor-1260	2.	U	2.	U	2.	U	2.	U	2.	U	2.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-PEST								
SAMPLE ID ------>	FDS-G-W02A-02	FDS-H-W02A-02	FDS-G-W02B-01	FDS-G-W02B-02	FDS-G-W02C-01	FDS-G-W02C-02		
ORIGINAL ID ----->	FDSGW02A02	FDSHW02A02	FDSGW02B01	FDSGW02B02	FDSGW02C01	FDSGW02C02		
LAB SAMPLE ID --->	29538.03	29538.04	28223.10	29523.03	28190.01	29538.02		
ID FROM REPORT -->	FDSGW02A02	FDSHW02A02	FDSGW02B01	FDSGW02B02	FDSGW02C01	FDSGW02C02		
SAMPLE DATE ----->	05/30/97	05/30/97	01/19/97	05/20/97	01/16/97	05/30/97		
DATE EXTRACTED -->	06/02/97	06/02/97	01/22/97	05/30/97	01/17/97	06/02/97		
DATE ANALYZED --->	06/07/97	06/07/97	01/24/97	06/06/97	01/21/97	06/07/97		
MATRIX ---------->	Water	Water	Water	Water	Water	Water		
UNITS ---------->	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L		
CAS #	Parameter	29515	VAL	29515	VAL	28217	VAL	29515	VAL	28185	VAL	29515	VAL
319-84-6	alpha-BHC	0.04	U	0.04	U	0.	U	0.04	U	0.04	U	0.04	U
319-85-7	beta-BHC	0.04	U	0.04	U	0.	U	0.04	U	0.04	U	0.04	U
319-86-8	delta-BHC	0.04	U	0.04	U	0.	U	0.04	U	0.04	U	0.04	U
58-89-9	gamma-BHC (Lindane)	0.04	U	0.04	U	0.	U	0.04	U	0.04	U	0.04	U
76-44-8	Heptachlor	0.04	U	0.04	U	0.	U	0.04	U	0.04	U	0.04	U
309-00-2	Aldrin	0.04	U	0.04	U	0.	U	0.04	U	0.04	U	0.04	U
1024-57-3	Heptachlor epoxide	0.04	U	0.04	U	0.	U	0.04	U	0.04	U	0.04	U
959-98-8	Endosulfan I	0.04	U	0.04	U	0.	U	0.04	U	0.04	U	0.04	U
60-57-1	Dieldrin	0.08	U	0.08	U	0.	U	0.08	U	0.08	U	0.08	U
72-55-9	4,4'-DDE	0.08	U	0.08	U	0.	U	0.08	U	0.08	U	0.08	U
72-20-8	Endrin	0.08	U	0.08	U	0.	U	0.08	U	0.08	U	0.08	U
33213-65-9	Endosulfan II	0.08	U	0.08	U	0.	U	0.08	U	0.08	U	0.08	U
72-54-8	4,4'-DDD	0.08	U	0.08	U	0.	U	0.08	U	0.08	U	0.08	U
1031-07-8	Endosulfan sulfate	0.08	U	0.08	U	0.	U	0.08	U	0.08	U	0.08	U
50-29-3	4,4'-DDT	0.08	U	0.08	U	0.	U	0.08	U	0.08	U	0.08	U
72-43-5	Methoxychlor	0.38	U	0.38	U	0.	U	0.38	U	0.38	U	0.38	U
53494-70-5	Endrin ketone	0.08	U	0.08	U	0.	U	0.08	U	0.08	U	0.08	U
7421-93-4	Endrin aldehyde	0.08	U	0.08	U	0.	U	0.08	U	0.08	U	0.08	U
5103-71-9	alpha-Chlordane	0.04	U	0.04	U	0.	U	0.04	U	0.04	U	0.04	U
5103-74-2	gamma-Chlordane	0.04	U	0.04	U	0.	U	0.04	U	0.04	U	0.04	U
8001-35-2	Toxaphene	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
12674-11-2	Aroclor-1016	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
11104-28-2	Aroclor-1221	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
11141-16-5	Aroclor-1232	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
53469-21-9	Aroclor-1242	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
12672-29-6	Aroclor-1248	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
11097-69-1	Aroclor-1254	2.	U	2.	U	2.	U	2.	U	2.	U	2.	U
11096-82-5	Aroclor-1260	2.	U	2.	U	2.	U	2.	U	2.	U	2.	U

*** Validation Complete ***

SW846-PEST													
	SAMPLE ID ------->	FDS-G-W03A-01		FDS-G-W03A-02		FDS-G-W03B-01		FDS-G-W03B-02		FDS-G-W03C-01		FDS-G-W03C-02	
	ORIGINAL ID ----->	FDSGW03A01		FDSGW03A02		FDSGW03B01		FDSGW03B02		FDSGW03C01		FDSGW03C02	
	LAB SAMPLE ID --->	28223.01		29591.01		28185.05		29560.01		28185.04		29591.02	
	ID FROM REPORT -->	FDSGW03A01		FDSGW03A02		FDSGW03B01		FDSGW03B02		FDSGW03C01		FDSGW03C02	
	SAMPLE DATE ----->	01/19/97		06/04/97		01/15/97		06/02/97		01/15/97		06/04/97	
	DATE EXTRACTED -->	01/22/97		06/06/97		01/20/97		06/04/97		01/20/97		06/06/97	
	DATE ANALYZED --->	01/23/97		06/11/97		01/22/97		06/08/97		01/22/97		06/11/97	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ----------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	28217	VAL	29591	VAL	28185	VAL	29515	VAL	28185	VAL	29591	VAL
319-84-6	alpha-BHC	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
319-85-7	beta-BHC	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
319-86-8	delta-BHC	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
58-89-9	gamma-BHC (Lindane)	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
76-44-8	Heptachlor	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
309-00-2	Aldrin	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
1024-57-3	Heptachlor epoxide	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
959-98-8	Endosulfan I	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
60-57-1	Dieldrin	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
72-55-9	4,4'-DDE	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
72-20-8	Endrin	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
33213-65-9	Endosulfan II	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
72-54-8	4,4'-DDD	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
1031-07-8	Endosulfan sulfate	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
50-29-3	4,4'-DDT	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
72-43-5	Methoxychlor	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U
53494-70-5	Endrin ketone	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
7421-93-4	Endrin aldehyde	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
5103-71-9	alpha-Chlordane	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
5103-74-2	gamma-Chlordane	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
8001-35-2	Toxaphene	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
12674-11-2	Aroclor-1016	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
11104-28-2	Aroclor-1221	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
11141-16-5	Aroclor-1232	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
53469-21-9	Aroclor-1242	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
12672-29-6	Aroclor-1248	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
11097-69-1	Aroclor-1254	2.	U	2.	U	2.	U	2.	U	2.	U	2.	U
11096-82-5	Aroclor-1260	2.	U	2.	U	2.	U	2.	U	2.	U	2.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-PEST													
	SAMPLE ID ------>	FDS-G-W04A-01		FDS-G-W04A-02		FDS-G-W04B-01		FDS-G-W04B-02		FDS-G-W04C-01		FDS-G-W04C-02	
	ORIGINAL ID ----->	FDSGW04A01		FDSGW04A02		FDSGW04B01		FDSGW04B02		FDSGW04C01		FDSGW04C02	
	LAB SAMPLE ID --->	28223.07		29487.03		28223.08		29515.01		28223.09		29515.05	
	ID FROM REPORT -->	FDSGW04A01		FDSGW04A02		FDSGW04B01		FDSGW04B02		FDSGW04C01		FDSGW04C02	
	SAMPLE DATE ----->	01/20/97		05/23/97		01/20/97		05/28/97		01/20/97		05/28/97	
	DATE EXTRACTED -->	01/22/97		05/24/97		01/22/97		05/30/97		01/22/97		05/30/97	
	DATE ANALYZED --->	01/24/97		06/04/97		01/24/97		06/06/97		01/24/97		06/06/97	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	28217	VAL	29437	VAL	28217	VAL	29515	VAL	28217	VAL	29515	VAL
319-84-6	alpha-BHC	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
319-85-7	beta-BHC	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
319-86-8	delta-BHC	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
58-89-9	gamma-BHC (Lindane)	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
76-44-8	Heptachlor	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
309-00-2	Aldrin	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
1024-57-3	Heptachlor epoxide	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
959-98-8	Endosulfan I	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
60-57-1	Dieldrin	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
72-55-9	4,4'-DDE	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
72-20-8	Endrin	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
33213-65-9	Endosulfan II	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
72-54-8	4,4'-DDD	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
1031-07-8	Endosulfan sulfate	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
50-29-3	4,4'-DDT	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
72-43-5	Methoxychlor	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U
53494-70-5	Endrin ketone	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
7421-93-4	Endrin aldehyde	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
5103-71-9	alpha-Chlordane	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
5103-74-2	gamma-Chlordane	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
8001-35-2	Toxaphene	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
12674-11-2	Aroclor-1016	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
11104-28-2	Aroclor-1221	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
11141-16-5	Aroclor-1232	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
53469-21-9	Aroclor-1242	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
12672-29-6	Aroclor-1248	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
11097-69-1	Aroclor-1254	2.	U	2.	U	2.	U	2.	U	2.	U	2.	U
11096-82-5	Aroclor-1260	2.	U	2.	U	2.	U	2.	U	2.	U	2.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-PEST													
	SAMPLE ID ------>	FDS-G-W05A-01		FDS-G-W05A-02		FDS-G-W05B-01		FDS-G-W05B-02		FDS-G-W06A-01		FDS-G-W06A-02	
	ORIGINAL ID ----->	FDSGW05A01		FDSGW05A02		FDSGW05B01		FDSGW05B02		FDSGW06A01		FDSGW06A02	
	LAB SAMPLE ID --->	28223.03		29610.01		28209.04		29610.02		28223.02		29523.01	
	ID FROM REPORT -->	FDSGW05A01		FDSGW05A02		FDSGW05B01		FDSGW05B02		FDSGW06A01		FDSGW06A02	
	SAMPLE DATE ----->	01/19/97		06/05/97		01/17/97		06/05/97		01/18/97		05/20/97	
	DATE EXTRACTED -->	01/22/97		06/06/97		01/19/97		06/06/97		01/22/97		05/30/97	
	DATE ANALYZED --->	01/23/97		06/11/97		01/21/97		06/11/97		01/23/97		06/06/97	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	28217	VAL	29591	VAL	28185	VAL	29591	VAL	28217	VAL	29515	VAL
319-84-6	alpha-BHC	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
319-85-7	beta-BHC	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
319-86-8	delta-BHC	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
58-89-9	gamma-BHC (Lindane)	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
76-44-8	Heptachlor	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
309-00-2	Aldrin	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
1024-57-3	Heptachlor epoxide	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
959-98-8	Endosulfan I	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
60-57-1	Dieldrin	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
72-55-9	4,4'-DDE	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
72-20-8	Endrin	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
33213-65-9	Endosulfan II	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
72-54-8	4,4'-DDD	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
1031-07-8	Endosulfan sulfate	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
50-29-3	4,4'-DDT	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
72-43-5	Methoxychlor	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U
53494-70-5	Endrin ketone	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
7421-93-4	Endrin aldehyde	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
5103-71-9	alpha-Chlordane	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
5103-74-2	gamma-Chlordane	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
8001-35-2	Toxaphene	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
12674-11-2	Aroclor-1016	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
11104-28-2	Aroclor-1221	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
11141-16-5	Aroclor-1232	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
53469-21-9	Aroclor-1242	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
12672-29-6	Aroclor-1248	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
11097-69-1	Aroclor-1254	2.	U	2.	U	2.	U	2.	U	2.	U	2.	U
11096-82-5	Aroclor-1260	2.	U	2.	U	2.	U	2.	U	2.	U	2.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-PEST													
	SAMPLE ID ------>	FDS-G-W06B-01		FDS-G-W06B-02		FDS-G-W06C-01		FDS-G-W06C-02		FDS-G-W07A-01		FDS-G-W07A-02	
	ORIGINAL ID ----->	FDSGW06B01		FDSGW06B02		FDSGW06C01		FDSGW06C02		FDSGW07A01		FDSGW07A02	
	LAB SAMPLE ID --->	28223.05		29523.02		28223.06		29538.01		28343.01		29610.05	
	ID FROM REPORT -->	FDSGW06B01		FDSGW06B02		FDSGW06C01		FDSGW06C02		FDSGW07A01		FDSGW07A02	
	SAMPLE DATE ----->	01/20/97		05/20/97		01/20/97		05/30/97		01/29/97		06/05/97	
	DATE EXTRACTED -->	01/22/97		05/30/97		01/22/97		06/02/97		02/03/97		06/06/97	
	DATE ANALYZED --->	01/23/97		06/06/97		01/23/97		06/07/97		02/05/97		06/12/97	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	28217	VAL	29515	VAL	28217	VAL	29515	VAL	28308	VAL	29591	VAL
319-84-6	alpha-BHC	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
319-85-7	beta-BHC	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
319-86-8	delta-BHC	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
58-89-9	gamma-BHC (Lindane)	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
76-44-8	Heptachlor	0.04	U	0.04	U	0.04	U	0.04	U	0.046	U	0.04	U
309-00-2	Aldrin	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
1024-57-3	Heptachlor epoxide	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
959-98-8	Endosulfan I	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
60-57-1	Dieldrin	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
72-55-9	4,4'-DDE	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
72-20-8	Endrin	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
33213-65-9	Endosulfan II	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
72-54-8	4,4'-DDD	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
1031-07-8	Endosulfan sulfate	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
50-29-3	4,4'-DDT	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
72-43-5	Methoxychlor	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U
53494-70-5	Endrin ketone	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
7421-93-4	Endrin aldehyde	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
5103-71-9	alpha-Chlordane	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
5103-74-2	gamma-Chlordane	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
8001-35-2	Toxaphene	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
12674-11-2	Aroclor-1016	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
11104-28-2	Aroclor-1221	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
11141-16-5	Aroclor-1232	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
53469-21-9	Aroclor-1242	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
12672-29-6	Aroclor-1248	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
11097-69-1	Aroclor-1254	2.	U	2.	U	2.	U	2.	U	2.	U	2.	U
11096-82-5	Aroclor-1260	2.	U	2.	U	2.	U	2.	U	2.	U	2.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-PEST													
	SAMPLE ID ------>	FDS-G-W07B-01		FDS-G-W07B-02		FDS-G-W07C-01		FDS-G-W07C-02		FDS-G-W07D-01		FDS-G-W07D-02	
	ORIGINAL ID ----->	FDSGW07B01		FDSGW07B02		FDSGW07C01		FDSGW07C02		FDSGW07D01		FDSGW07D02	
	LAB SAMPLE ID --->	28209.01		29636.01		28209.02		29636.05		28279.01		29744.01	
	ID FROM REPORT -->	FDSGW07B01		FDSGW07B02		FDSGW07C01		FDSGW07C02		FDSGW07D01		FDSGW07D02	
	SAMPLE DATE ----->	01/17/97		06/09/97		01/17/97		06/09/97		01/24/97		06/17/97	
	DATE EXTRACTED -->	01/19/97		06/10/97		01/19/97		06/10/97		01/27/97		06/20/97	
	DATE ANALYZED --->	01/21/97		06/12/97		01/21/97		06/13/97		01/28/97		06/27/97	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ----------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	28185	VAL	29591	VAL	28185	VAL	29591	VAL	28249	VAL	29707	VAL
319-84-6	alpha-BHC	0.04	U	0.04	U	0.04	U	0.04	U	0.04	UJ	0.04	U
319-85-7	beta-BHC	0.04	U	0.04	U	0.04	U	0.04	U	0.04	UJ	0.04	U
319-86-8	delta-BHC	0.04	U	0.04	U	0.04	U	0.04	U	0.04	UJ	0.04	U
58-89-9	gamma-BHC (Lindane)	0.04	U	0.04	U	0.04	U	0.04	U	0.04	UJ	0.04	U
76-44-8	Heptachlor	0.04	U	0.04	U	0.04	U	0.04	U	0.04	UJ	0.04	U
309-00-2	Aldrin	0.04	U	0.04	U	0.04	U	0.04	U	0.04	UJ	0.04	U
1024-57-3	Heptachlor epoxide	0.04	U	0.04	U	0.04	U	0.04	U	0.04	UJ	0.04	U
959-98-8	Endosulfan I	0.04	U	0.04	U	0.04	U	0.04	U	0.04	UJ	0.04	U
60-57-1	Dieldrin	0.08	U	0.08	U	0.08	U	0.08	U	0.08	UJ	0.08	U
72-55-9	4,4'-DDE	0.08	U	0.08	U	0.08	U	0.08	U	0.08	UJ	0.08	U
72-20-8	Endrin	0.08	U	0.08	U	0.08	U	0.08	U	0.08	UJ	0.08	U
33213-65-9	Endosulfan II	0.08	U	0.08	U	0.08	U	0.08	U	0.08	UJ	0.08	U
72-54-8	4,4'-DDD	0.08	U	0.08	U	0.08	U	0.08	U	0.08	UJ	0.08	U
1031-07-8	Endosulfan sulfate	0.08	U	0.08	U	0.08	U	0.08	U	0.08	UJ	0.08	U
50-29-3	4,4'-DDT	0.08	U	0.08	U	0.08	U	0.08	U	0.08	UJ	0.08	U
72-43-5	Methoxychlor	0.38	U	0.38	U	0.38	U	0.38	U	0.38	UJ	0.38	J
53494-70-5	Endrin ketone	0.08	U	0.08	U	0.08	U	0.08	U	0.08	UJ	0.08	U
7421-93-4	Endrin aldehyde	0.08	U	0.08	U	0.08	U	0.08	U	0.08	UJ	0.08	U
5103-71-9	alpha-Chlordane	0.04	U	0.04	U	0.04	U	0.04	U	0.04	UJ	0.04	U
5103-74-2	gamma-Chlordane	0.04	U	0.04	U	0.04	U	0.04	U	0.04	UJ	0.04	U
8001-35-2	Toxaphene	2.5	U	2.5	U	2.5	U	2.5	U	2.5	UJ	2.5	U
12674-11-2	Aroclor-1016	1.	U	1.	U	1.	U	1.	U	1.	UJ	1.	U
11104-28-2	Aroclor-1221	1.	U	1.	U	1.	U	1.	U	1.	UJ	1.	U
11141-16-5	Aroclor-1232	1.	U	1.	U	1.	U	1.	U	1.	UJ	1.	U
53469-21-9	Aroclor-1242	1.	U	1.	U	1.	U	1.	U	1.	UJ	1.	U
12672-29-6	Aroclor-1248	1.	U	1.	U	1.	U	1.	U	1.	UJ	1.	U
11097-69-1	Aroclor-1254	2.	U	2.	U	2.	U	2.	U	2.	UJ	2.	U
11096-82-5	Aroclor-1260	2.	U	2.	U	2.	U	2.	U	2.	UJ	2.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-PEST	SAMPLE ID ------>	FDS-G-W08A-01		FDS-G-W08A-02		FDS-G-W08B-01		FDS-G-W08B-02		FDS-G-W08C-01		FDS-G-W08C-02	
	ORIGINAL ID ----->	FDSGW08A01		FDSGW08A02		FDSGW08B01		FDSGW08B02		FDSGW08C01		FDSGW08C02	
	LAB SAMPLE ID --->	28279.02		29610.03		28295.10		29636.06		28279.03		29636.07	
	ID FROM REPORT -->	FDSGW08A01		FDSGW08A02		FDSGW08B01		FDSGW08B02		FDSGW08C01		FDSGW08C02	
	SAMPLE DATE ----->	01/24/97		06/05/97		01/25/97		06/09/97		01/24/97		06/09/97	
	DATE EXTRACTED -->	01/27/97		06/06/97		01/28/97		06/10/97		01/27/97		06/10/97	
	DATE ANALYZED --->	01/28/97		06/11/97		01/30/97		06/13/97		01/28/97		06/13/97	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ----------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	28249	VAL	29591	VAL	28249	VAL	29591	VAL	28249	VAL	29591	VAL
319-84-6	alpha-BHC	0.04	UJ	0.04	U	0.04	UJ	0.04	U	0.04	UJ	0.04	U
319-85-7	beta-BHC	0.04	UJ	0.04	U	0.04	UJ	0.04	U	0.04	UJ	0.04	U
319-86-8	delta-BHC	0.04	UJ	0.04	U	0.04	UJ	0.04	U	0.04	UJ	0.04	U
58-89-9	gamma-BHC (Lindane)	0.04	UJ	0.04	U	0.04	UJ	0.04	U	0.04	UJ	0.04	U
76-44-8	Heptachlor	0.04	UJ	0.04	U	0.04	UJ	0.04	U	0.04	UJ	0.04	U
309-00-2	Aldrin	0.04	UJ	0.04	U	0.04	UJ	0.04	U	0.04	UJ	0.04	U
1024-57-3	Heptachlor epoxide	0.04	UJ	0.04	U	0.04	UJ	0.04	U	0.04	UJ	0.04	U
959-98-8	Endosulfan I	0.04	UJ	0.04	U	0.04	UJ	0.04	U	0.04	UJ	0.04	U
60-57-1	Dieldrin	0.08	UJ	0.08	U	0.08	UJ	0.08	U	0.08	UJ	0.08	U
72-55-9	4,4'-DDE	0.08	UJ	0.08	U	0.08	UJ	0.08	U	0.08	UJ	0.08	U
72-20-8	Endrin	0.08	UJ	0.08	U	0.08	UJ	0.08	U	0.08	UJ	0.08	U
33213-65-9	Endosulfan II	0.08	UJ	0.08	U	0.08	UJ	0.08	U	0.08	UJ	0.08	U
72-54-8	4,4'-DDD	0.08	UJ	0.08	U	0.08	UJ	0.08	U	0.08	UJ	0.08	U
1031-07-8	Endosulfan sulfate	0.08	UJ	0.08	U	0.08	UJ	0.08	U	0.08	UJ	0.08	U
50-29-3	4,4'-DDT	0.08	UJ	0.08	U	0.08	UJ	0.08	U	0.08	UJ	0.08	U
72-43-5	Methoxychlor	0.38	UJ	0.38	U	0.38	UJ	0.38	U	0.38	UJ	0.38	U
53494-70-5	Endrin ketone	0.08	UJ	0.08	U	0.08	UJ	0.08	U	0.08	UJ	0.08	U
7421-93-4	Endrin aldehyde	0.08	UJ	0.08	U	0.08	UJ	0.08	U	0.08	UJ	0.08	U
5103-71-9	alpha-Chlordane	0.04	UJ	0.04	U	0.04	UJ	0.04	U	0.04	UJ	0.04	U
5103-74-2	gamma-Chlordane	0.04	UJ	0.04	U	0.04	UJ	0.04	U	0.04	UJ	0.04	U
8001-35-2	Toxaphene	2.5	UJ	2.5	U	2.5	UJ	2.5	U	2.5	UJ	2.5	U
12674-11-2	Aroclor-1016	1.	UJ	1.	U	1.	UJ	1.	U	1.	UJ	1.	U
11104-28-2	Aroclor-1221	1.	UJ	1.	U	1.	UJ	1.	U	1.	UJ	1.	U
11141-16-5	Aroclor-1232	1.	UJ	1.	U	1.	UJ	1.	U	1.	UJ	1.	U
53469-21-9	Aroclor-1242	1.	UJ	1.	U	1.	UJ	1.	U	1.	UJ	1.	U
12672-29-6	Aroclor-1248	1.	UJ	1.	U	1.	UJ	1.	U	1.	UJ	1.	U
11097-69-1	Aroclor-1254	2.	UJ	2.	U	2.	UJ	2.	U	2.	UJ	2.	U
11096-82-5	Aroclor-1260	2.	UJ	2.	U	2.	UJ	2.	U	2.	UJ	2.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-PEST													
	SAMPLE ID ------>	FDS-H-W08C-02		FDS-G-W09A-01		FDS-G-W09A-02		FDS-G-W09B-01		FDS-G-W09B-02		FDS-H-W09B-02	
	ORIGINAL ID ----->	FDSHW08C02		FDSGW09A01		FDSGW09A02		FDSGW09B01		FDSGW09B02		FDSHW09B02	
	LAB SAMPLE ID --->	29636.08		28227.06		29656.04		28227.08		29656.06		29656.07	
	ID FROM REPORT -->	FDSHW08C02		FDSGW09A01		FDSGW09A02		FDSGW09B01		FDSGW09B02		FDSHW09B02	
	SAMPLE DATE ----->	06/09/97		01/21/97		06/10/97		01/21/97		06/10/97		06/10/97	
	DATE EXTRACTED -->	06/10/97		01/22/97		06/11/97		01/22/97		06/11/97		06/11/97	
	DATE ANALYZED --->	06/13/97		01/24/97		06/14/97		01/27/97		06/14/97		06/14/97	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	29591	VAL	28217	VAL	29656	VAL	28217	VAL	29656	VAL	29656	VAL
319-84-6	alpha-BHC	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
319-85-7	beta-BHC	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
319-86-8	delta-BHC	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
58-89-9	gamma-BHC (Lindane)	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
76-44-8	Heptachlor	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
309-00-2	Aldrin	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
1024-57-3	Heptachlor epoxide	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
959-98-8	Endosulfan I	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
60-57-1	Dieldrin	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
72-55-9	4,4'-DDE	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
72-20-8	Endrin	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
33213-65-9	Endosulfan II	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
72-54-8	4,4'-DDD	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
1031-07-8	Endosulfan sulfate	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
50-29-3	4,4'-DDT	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
72-43-5	Methoxychlor	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U
53494-70-5	Endrin ketone	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
7421-93-4	Endrin aldehyde	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
5103-71-9	alpha-Chlordane	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
5103-74-2	gamma-Chlordane	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
8001-35-2	Toxaphene	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
12674-11-2	Aroclor-1016	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
11104-28-2	Aroclor-1221	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
11141-16-5	Aroclor-1232	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
53469-21-9	Aroclor-1242	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
12672-29-6	Aroclor-1248	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
11097-69-1	Aroclor-1254	2.	U	2.	U	2.	U	2.	U	2.	U	2.	U
11096-82-5	Aroclor-1260	2.	U	2.	U	2.	U	2.	U	2.	U	2.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-PEST	SAMPLE ID ------->	FDS-G-W09C-01		FDS-G-W09C-02		FDS-G-W10A-01		FDS-G-W10A-02		FDS-G-W10B-01		FDS-G-W10B-02	
	ORIGINAL ID ----->	FDSGW09C01		FDSGW09C02		FDSGW10A01		FDSGW10A02		FDSGW10B01		FDSGW10B02	
	LAB SAMPLE ID --->	28227.07		29656.05		28227.01		29656.01		28227.02		29656.02	
	ID FROM REPORT -->	FDSGW09C01		FDSGW09C02		FDSGW10A01		FDSGW10A02		FDSGW10B01		FDSGW10B02	
	SAMPLE DATE ----->	01/21/97		06/10/97		01/21/97		06/10/97		01/21/97		06/10/97	
	DATE EXTRACTED -->	01/22/97		06/11/97		01/22/97		06/11/97		01/22/97		06/11/97	
	DATE ANALYZED --->	01/24/97		06/14/97		01/24/97		06/14/97		01/24/97		06/18/97	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ----------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	28217	VAL	29656	VAL	28217	VAL	29656	VAL	28217	VAL	29656	VAL
319-84-6	alpha-BHC	0.04	U	0.04	U	0.04	UJ	0.04	U	0.04	U	0.04	U
319-85-7	beta-BHC	0.04	U	0.04	U	0.04	UJ	0.04	U	0.04	U	0.04	U
319-86-8	delta-BHC	0.04	U	0.04	U	0.04	UJ	0.04	U	0.04	U	0.04	U
58-89-9	gamma-BHC (Lindane)	0.04	U	0.04	U	0.04	UJ	0.04	U	0.04	U	0.04	U
76-44-8	Heptachlor	0.04	U	0.04	U	0.04	UJ	0.04	U	0.04	U	0.04	U
309-00-2	Aldrin	0.04	U	0.04	U	0.04	UJ	0.04	U	0.04	U	0.04	U
1024-57-3	Heptachlor epoxide	0.04	U	0.04	U	0.04	UJ	0.04	U	0.04	U	0.04	U
959-98-8	Endosulfan I	0.04	U	0.04	U	0.04	UJ	0.04	U	0.04	U	0.04	U
60-57-1	Dieldrin	0.08	U	0.08	U	0.08	UJ	0.08	U	0.08	U	0.08	U
72-55-9	4,4'-DDE	0.08	U	0.08	U	0.08	UJ	0.08	U	0.08	U	0.08	U
72-20-8	Endrin	0.08	U	0.08	U	0.08	UJ	0.08	U	0.08	U	0.08	U
33213-65-9	Endosulfan II	0.08	U	0.08	U	0.08	UJ	0.08	U	0.08	U	0.08	U
72-54-8	4,4'-DDD	0.08	U	0.08	U	0.08	UJ	0.08	U	0.08	U	0.08	U
1031-07-8	Endosulfan sulfate	0.08	U	0.08	U	0.08	UJ	0.08	U	0.08	U	0.08	U
50-29-3	4,4'-DDT	0.08	U	0.08	U	0.08	UJ	0.08	U	0.08	U	0.08	U
72-43-5	Methoxychlor	0.38	U	0.38	U	0.38	UJ	0.38	U	0.38	U	0.38	U
53494-70-5	Endrin ketone	0.08	U	0.08	U	0.08	UJ	0.08	U	0.08	U	0.08	U
7421-93-4	Endrin aldehyde	0.08	U	0.08	U	0.08	UJ	0.08	U	0.08	U	0.08	U
5103-71-9	alpha-Chlordane	0.04	U	0.04	U	0.04	UJ	0.04	U	0.04	U	0.04	U
5103-74-2	gamma-Chlordane	0.04	U	0.04	U	0.04	UJ	0.04	U	0.04	U	0.04	U
8001-35-2	Toxaphene	2.5	U	2.5	U	2.5	UJ	2.5	U	2.5	U	2.5	U
12674-11-2	Aroclor-1016	1.	U	1.	U	1.	UJ	1.	U	1.	U	1.	U
11104-28-2	Aroclor-1221	1.	U	1.	U	1.	UJ	1.	U	1.	U	1.	U
11141-16-5	Aroclor-1232	1.	U	1.	U	1.	UJ	1.	U	1.	U	1.	U
53469-21-9	Aroclor-1242	1.	U	1.	U	1.	UJ	1.	U	1.	U	1.	U
12672-29-6	Aroclor-1248	1.	U	1.	U	1.	UJ	1.	U	1.	U	1.	U
11097-69-1	Aroclor-1254	2.	U	2.	U	2.	UJ	2.	U	2.	U	2.	U
11096-82-5	Aroclor-1260	2.	U	2.	U	2.	UJ	2.	U	2.	U	2.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-PEST													
	SAMPLE ID ------>	FDS-G-W10C-01		FDS-G-W10C-02		FDS-G-W11A-01		FDS-G-W11A-02		FDS-G-W11B-01		FDS-G-W11B-02	
	ORIGINAL ID ----->	FDSGW10C01		FDSGW10C02		FDSGW11A01		FDSGW11A02		FDSGW11B01		FDSGW11B02	
	LAB SAMPLE ID --->	28227.03		29656.03		28308.07		29678.01		28308.08		29678.02	
	ID FROM REPORT -->	FDSGW10C01		FDSGW10C02		FDSGW11A01		FDSGW11A02		FDSGW11B01		FDSGW11B02	
	SAMPLE DATE ----->	01/21/97		06/10/97		01/28/97		06/11/97		01/28/97		06/11/97	
	DATE EXTRACTED -->	01/22/97		06/11/97		01/29/97		06/13/97		01/29/97		06/13/97	
	DATE ANALYZED --->	01/24/97		06/14/97		01/31/97		06/19/97		01/31/97		06/19/97	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	28217	VAL	29656	VAL	28308	VAL	29656	VAL	28308	VAL	29656	VAL
319-84-6	alpha-BHC	0.04	UJ	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
319-85-7	beta-BHC	0.04	UJ	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
319-86-8	delta-BHC	0.04	UJ	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
58-89-9	gamma-BHC (Lindane)	0.04	UJ	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
76-44-8	Heptachlor	0.04	UJ	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
309-00-2	Aldrin	0.04	UJ	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
1024-57-3	Heptachlor epoxide	0.04	UJ	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
959-98-8	Endosulfan I	0.04	UJ	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
60-57-1	Dieldrin	0.08	UJ	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
72-55-9	4,4'-DDE	0.08	UJ	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
72-20-8	Endrin	0.08	UJ	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
33213-65-9	Endosulfan II	0.08	UJ	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
72-54-8	4,4'-DDD	0.08	UJ	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
1031-07-8	Endosulfan sulfate	0.08	UJ	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
50-29-3	4,4'-DDT	0.08	UJ	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
72-43-5	Methoxychlor	0.38	UJ	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U
53494-70-5	Endrin ketone	0.08	UJ	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
7421-93-4	Endrin aldehyde	0.08	UJ	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
5103-71-9	alpha-Chlordane	0.04	UJ	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
5103-74-2	gamma-Chlordane	0.04	UJ	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
8001-35-2	Toxaphene	2.5	UJ	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
12674-11-2	Aroclor-1016	1.	UJ	1.	U	1.	U	1.	U	1.	U	1.	U
11104-28-2	Aroclor-1221	1.	UJ	1.	U	1.	U	1.	U	1.	U	1.	U
11141-16-5	Aroclor-1232	1.	UJ	1.	U	1.	U	1.	U	1.	U	1.	U
53469-21-9	Aroclor-1242	1.	UJ	1.	U	1.	U	1.	U	1.	U	1.	U
12672-29-6	Aroclor-1248	1.	UJ	1.	U	1.	U	1.	U	1.	U	1.	U
11097-69-1	Aroclor-1254	2.	UJ	2.	U	2.	U	2.	U	2.	U	2.	U
11096-82-5	Aroclor-1260	2.	UJ	2.	U	2.	U	2.	U	2.	U	2.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-PEST															
	SAMPLE ID ------>	FDS-G-W11C-01		FDS-G-W11C-02		FDS-H-W11C-02		FDS-G-W12A-01		FDS-G-W12A-02		FDS-H-W12A-02	
	ORIGINAL ID ----->	FDSGW11C01		FDSGW11C02		FDSHW11C02		FDSGW12A01		FDSGW12A02		FDSHW12A02	
	LAB SAMPLE ID --->	28308.09		29678.03		29678.04		28295.05		29678.07		29678.08	
	ID FROM REPORT -->	FDSGW11C01		FDSGW11C02		FDSHW11C02		FDSGW12A01		FDSGW12A02		FDSHW12A02	
	SAMPLE DATE ----->	01/28/97		06/11/97		06/11/97		01/27/97		06/11/97		06/11/97	
	DATE EXTRACTED -->	01/29/97		06/13/97		06/13/97		01/28/97		06/13/97		06/13/97	
	DATE ANALYZED --->	01/31/97		06/19/97		06/19/97		01/30/97		06/19/97		06/19/97	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	28308	VAL	29656	VAL	29656	VAL	28249	VAL	29656	VAL	29656	VAL
319-84-6	alpha-BHC	0.04	U	0.04	U	0.04	UJ	0.04	U	0.04	U	0.04	U
319-85-7	beta-BHC	0.04	U	0.04	U	0.04	UJ	0.04	U	0.04	U	0.04	U
319-86-8	delta-BHC	0.04	U	0.04	U	0.04	UJ	0.04	U	0.04	U	0.04	U
58-89-9	gamma-BHC (Lindane)	0.04	U	0.04	U	0.04	UJ	0.04	U	0.04	U	0.04	U
76-44-8	Heptachlor	0.04	U	0.04	U	0.04	UJ	0.04	U	0.04	U	0.04	U
309-00-2	Aldrin	0.04	U	0.04	U	0.04	UJ	0.04	U	0.04	U	0.04	U
1024-57-3	Heptachlor epoxide	0.04	U	0.04	U	0.04	UJ	0.04	U	0.04	U	0.04	U
959-98-8	Endosulfan I	0.04	U	0.04	U	0.04	UJ	0.04	U	0.04	U	0.04	U
60-57-1	Dieldrin	0.08	U	0.08	U	0.08	UJ	0.08	U	0.08	U	0.08	U
72-55-9	4,4'-DDE	0.08	U	0.08	U	0.08	UJ	0.08	U	0.08	U	0.08	U
72-20-8	Endrin	0.08	U	0.08	U	0.08	UJ	0.08	U	0.08	U	0.08	U
33213-65-9	Endosulfan II	0.08	U	0.08	U	0.08	UJ	0.08	U	0.08	U	0.08	U
72-54-8	4,4'-DDD	0.08	U	0.08	U	0.08	UJ	0.08	U	0.08	U	0.08	U
1031-07-8	Endosulfan sulfate	0.08	U	0.08	U	0.08	UJ	0.08	U	0.08	U	0.08	U
50-29-3	4,4'-DDT	0.08	U	0.08	U	0.08	UJ	0.08	U	0.08	U	0.08	U
72-43-5	Methoxychlor	0.38	U	0.38	U	0.38	UJ	0.38	U	0.38	U	0.38	U
53494-70-5	Endrin ketone	0.08	U	0.08	U	0.08	UJ	0.08	U	0.08	U	0.08	U
7421-93-4	Endrin aldehyde	0.08	U	0.08	U	0.08	UJ	0.08	U	0.08	U	0.08	U
5103-71-9	alpha-Chlordane	0.04	U	0.04	U	0.04	UJ	0.04	U	0.04	U	0.04	U
5103-74-2	gamma-Chlordane	0.04	U	0.04	U	0.04	UJ	0.04	U	0.04	U	0.04	U
8001-35-2	Toxaphene	2.5	U	2.5	U	2.5	UJ	2.5	U	2.5	U	2.5	U
12674-11-2	Aroclor-1016	1.	U	1.	U	1.	UJ	1.	U	1.	U	1.	U
11104-28-2	Aroclor-1221	1.	U	1.	U	1.	UJ	1.	U	1.	U	1.	U
11141-16-5	Aroclor-1232	1.	U	1.	U	1.	UJ	1.	U	1.	U	1.	U
53469-21-9	Aroclor-1242	1.	U	1.	U	1.	UJ	1.	U	1.	U	1.	U
12672-29-6	Aroclor-1248	1.	U	1.	U	1.	UJ	1.	U	1.	U	1.	U
11097-69-1	Aroclor-1254	2.	U	2.	U	2.	UJ	2.	U	2.	U	2.	U
11096-82-5	Aroclor-1260	2.	U	2.	U	2.	UJ	2.	U	2.	U	2.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-PEST													
	SAMPLE ID ------->	FDS-G-W12B-01		FDS-G-W12B-02		FDS-G-W13A-01		FDS-G-W13A-02		FDS-G-W13B-01		FDS-G-W13B-02	
	ORIGINAL ID ----->	FDSGW12B01		FDSGW12B02		FDSGW13A01		FDSGW13A02		FDSGW13B01		FDSGW13B02	
	LAB SAMPLE ID --->	28295.07		29678.06		28295.04		29678.05		28295.03		29707.01	
	ID FROM REPORT -->	FDSGW12B01		FDSGW12B02		FDSGW13A01		FDSGW13A02		FDSGW13B01		FDSGW13B02	
	SAMPLE DATE ----->	01/27/97		06/11/97		01/27/97		06/11/97		01/27/97		06/13/97	
	DATE EXTRACTED -->	01/28/97		06/13/97		01/28/97		06/13/97		01/28/97		06/16/97	
	DATE ANALYZED --->	01/30/97		06/19/97		01/30/97		06/19/97		01/30/97		06/19/97	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	28249	VAL	29656	VAL	28249	VAL	29656	VAL	28249	VAL	29707	VAL
319-84-6	alpha-BHC	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
319-85-7	beta-BHC	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
319-86-8	delta-BHC	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
58-89-9	gamma-BHC (Lindane)	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
76-44-8	Heptachlor	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
309-00-2	Aldrin	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
1024-57-3	Heptachlor epoxide	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
959-98-8	Endosulfan I	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
60-57-1	Dieldrin	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
72-55-9	4,4'-DDE	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
72-20-8	Endrin	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
33213-65-9	Endosulfan II	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
72-54-8	4,4'-DDD	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
1031-07-8	Endosulfan sulfate	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
50-29-3	4,4'-DDT	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
72-43-5	Methoxychlor	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U
53494-70-5	Endrin ketone	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
7421-93-4	Endrin aldehyde	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
5103-71-9	alpha-Chlordane	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
5103-74-2	gamma-Chlordane	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
8001-35-2	Toxaphene	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
12674-11-2	Aroclor-1016	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
11104-28-2	Aroclor-1221	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
11141-16-5	Aroclor-1232	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
53469-21-9	Aroclor-1242	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
12672-29-6	Aroclor-1248	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
11097-69-1	Aroclor-1254	2.	U	2.	U	2.	U	2.	U	2.	U	2.	U
11096-82-5	Aroclor-1260	2.	U	2.	U	2.	U	2.	U	2.	U	2.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-PEST													
	SAMPLE ID ------>	FDS-G-W13C-01		FDS-G-W13C-02		FDS-G-W13D-01		FDS-G-W13D-02		FDS-G-W13E-01		FDS-G-W13E-02	
	ORIGINAL ID ----->	FDSGW13C01		FDSGW13C02		FDSGW13D01		FDSGW13D02		FDSGW13E01		FDSGW13E02	
	LAB SAMPLE ID --->	28295.01		29697.03		28295.08		29697.04		28308.04		29707.02	
	ID FROM REPORT -->	FDSGW13C01		FDSGW13C02		FDSGW13D01		FDSGW13D02		FDSGW13E01		FDSGW13E02	
	SAMPLE DATE ----->	01/27/97		06/12/97		01/27/97		06/12/97		01/28/97		06/13/97	
	DATE EXTRACTED -->	01/28/97		06/16/97		01/28/97		06/16/97		01/29/97		06/16/97	
	DATE ANALYZED --->	01/30/97		06/19/97		01/30/97		06/19/97		01/31/97		06/19/97	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	28249	VAL	29656	VAL	28249	VAL	29656	VAL	28308	VAL	29707	VAL
319-84-6	alpha-BHC	0.04	U	0.04	U	0.04	U	0.04	UJ	0.04	U	0.04	U
319-85-7	beta-BHC	0.04	U	0.04	U	0.04	U	0.04	UJ	0.04	U	0.04	U
319-86-8	delta-BHC	0.04	U	0.04	U	0.04	U	0.04	UJ	0.04	U	0.04	U
58-89-9	gamma-BHC (Lindane)	0.04	U	0.04	U	0.04	U	0.04	UJ	0.04	U	0.04	U
76-44-8	Heptachlor	0.04	U	0.04	U	0.04	U	0.04	UJ	0.04	U	0.04	U
309-00-2	Aldrin	0.04	U	0.04	U	0.04	U	0.04	UJ	0.04	U	0.04	U
1024-57-3	Heptachlor epoxide	0.04	U	0.04	U	0.04	U	0.04	UJ	0.04	U	0.04	U
959-98-8	Endosulfan I	0.04	U	0.04	U	0.04	U	0.04	UJ	0.04	U	0.04	U
60-57-1	Dieldrin	0.08	U	0.08	U	0.08	U	0.08	UJ	0.08	U	0.08	U
72-55-9	4,4'-DDE	0.08	U	0.08	U	0.08	U	0.08	UJ	0.08	U	0.08	U
72-20-8	Endrin	0.08	U	0.08	U	0.08	U	0.08	UJ	0.08	U	0.08	U
33213-65-9	Endosulfan II	0.08	U	0.08	U	0.08	U	0.08	UJ	0.08	U	0.08	U
72-54-8	4,4'-DDD	0.08	U	0.08	U	0.08	U	0.08	UJ	0.08	U	0.08	U
1031-07-8	Endosulfan sulfate	0.08	U	0.08	U	0.08	U	0.08	UJ	0.08	U	0.08	U
50-29-3	4,4'-DDT	0.08	U	0.08	U	0.08	U	0.08	UJ	0.08	U	0.08	U
72-43-5	Methoxychlor	0.38	U	0.38	U	0.38	U	0.38	UJ	0.38	U	0.38	U
53494-70-5	Endrin ketone	0.08	U	0.08	U	0.08	U	0.08	UJ	0.08	U	0.08	U
7421-93-4	Endrin aldehyde	0.08	U	0.08	U	0.08	U	0.08	UJ	0.08	U	0.08	U
5103-71-9	alpha-Chlordane	0.04	U	0.04	U	0.04	U	0.04	UJ	0.04	U	0.04	U
5103-74-2	gamma-Chlordane	0.04	U	0.04	U	0.04	U	0.04	UJ	0.04	U	0.04	U
8001-35-2	Toxaphene	2.5	U	2.5	U	2.5	U	2.5	UJ	2.5	U	2.5	U
12674-11-2	Aroclor-1016	1.	U	1.	U	1.	U	1.	UJ	1.	U	1.	U
11104-28-2	Aroclor-1221	1.	U	1.	U	1.	U	1.	UJ	1.	U	1.	U
11141-16-5	Aroclor-1232	1.	U	1.	U	1.	U	1.	UJ	1.	U	1.	U
53469-21-9	Aroclor-1242	1.	U	1.	U	1.	U	1.	UJ	1.	U	1.	U
12672-29-6	Aroclor-1248	1.	U	1.	U	1.	U	1.	UJ	1.	U	1.	U
11097-69-1	Aroclor-1254	2.	U	2.	U	2.	U	2.	UJ	2.	U	2.	U
11096-82-5	Aroclor-1260	2.	U	2.	U	2.	U	2.	UJ	2.	U	2.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-PEST													
	SAMPLE ID ------>	FDS-G-W14A-01		FDS-G-W14A-02		FDS-G-W14B-01		FDS-G-W14B-02		FDS-G-W14C-01		FDS-G-W14C-02	
	ORIGINAL ID ----->	FDSGW14A01		FDSGW14A02		FDSGW14B01		FDSGW14B02		FDSGW14C01		FDSGW14C02	
	LAB SAMPLE ID --->	28295.02		29697.01		28295.06		29697.02		28249.01		29707.03	
	ID FROM REPORT -->	FDSGW14A01		FDSGW14A02		FDSGW14B01		FDSGW14B02		FDSGW14C01		FDSGW14C02	
	SAMPLE DATE ----->	01/27/97		06/12/97		01/27/97		06/12/97		01/22/97		06/13/97	
	DATE EXTRACTED -->	01/28/97		06/16/97		01/28/97		06/16/97		01/23/97		06/16/97	
	DATE ANALYZED --->	01/30/97		06/20/97		01/30/97		06/19/97		01/27/97		06/19/97	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ----------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	28249	VAL	29656	VAL	28249	VAL	29656	VAL	28249	VAL	29707	VAL
319-84-6	alpha-BHC	0.04	U	0.04	UJ	0.04	U	0.04	UJ	0.04	UJ	0.04	U
319-85-7	beta-BHC	0.04	U	0.04	UJ	0.04	U	0.04	UJ	0.04	UJ	0.04	U
319-86-8	delta-BHC	0.04	U	0.04	UJ	0.04	U	0.04	UJ	0.04	UJ	0.04	U
58-89-9	gamma-BHC (Lindane)	0.04	U	0.04	UJ	0.04	U	0.04	UJ	0.04	UJ	0.04	U
76-44-8	Heptachlor	0.04	U	0.04	UJ	0.04	U	0.04	UJ	0.04	UJ	0.04	U
309-00-2	Aldrin	0.04	U	0.04	UJ	0.04	U	0.04	UJ	0.04	UJ	0.04	U
1024-57-3	Heptachlor epoxide	0.04	U	0.04	UJ	0.04	U	0.04	UJ	0.04	UJ	0.04	U
959-98-8	Endosulfan I	0.04	U	0.04	UJ	0.04	U	0.04	UJ	0.04	UJ	0.04	U
60-57-1	Dieldrin	0.08	U	0.08	UJ	0.08	U	0.08	UJ	0.08	UJ	0.08	U
72-55-9	4,4'-DDE	0.08	U	0.08	UJ	0.08	U	0.08	UJ	0.08	UJ	0.08	U
72-20-8	Endrin	0.08	U	0.08	UJ	0.08	U	0.08	UJ	0.08	UJ	0.08	U
33213-65-9	Endosulfan II	0.08	U	0.08	UJ	0.08	U	0.08	UJ	0.08	UJ	0.08	U
72-54-8	4,4'-DDD	0.08	U	0.08	UJ	0.08	U	0.08	UJ	0.08	UJ	0.08	U
1031-07-8	Endosulfan sulfate	0.08	U	0.08	UJ	0.08	U	0.08	UJ	0.08	UJ	0.08	U
50-29-3	4,4'-DDT	0.08	U	0.08	UJ	0.08	U	0.08	UJ	0.08	UJ	0.08	U
72-43-5	Methoxychlor	0.38	U	0.38	UJ	0.38	U	0.38	UJ	0.38	UJ	0.38	U
53494-70-5	Endrin ketone	0.08	U	0.08	UJ	0.08	U	0.08	UJ	0.08	UJ	0.08	U
7421-93-4	Endrin aldehyde	0.08	U	0.08	UJ	0.08	U	0.08	UJ	0.08	UJ	0.08	U
5103-71-9	alpha-Chlordane	0.04	U	0.04	UJ	0.04	U	0.04	UJ	0.04	UJ	0.04	U
5103-74-2	gamma-Chlordane	0.04	U	0.04	UJ	0.04	U	0.04	UJ	0.04	UJ	0.04	U
8001-35-2	Toxaphene	2.5	U	2.5	UJ	2.5	U	2.5	UJ	2.5	UJ	2.5	U
12674-11-2	Aroclor-1016	1.	U	1.	UJ	1.	U	1.	UJ	1.	UJ	1.	U
11104-28-2	Aroclor-1221	1.	U	1.	UJ	1.	U	1.	UJ	1.	UJ	1.	U
11141-16-5	Aroclor-1232	1.	U	1.	UJ	1.	U	1.	UJ	1.	UJ	1.	U
53469-21-9	Aroclor-1242	1.	U	1.	UJ	1.	U	1.	UJ	1.	UJ	1.	U
12672-29-6	Aroclor-1248	1.	U	1.	UJ	1.	U	1.	UJ	1.	UJ	1.	U
11097-69-1	Aroclor-1254	2.	U	2.	UJ	2.	U	2.	UJ	2.	UJ	2.	U
11096-82-5	Aroclor-1260	2.	U	2.	UJ	2.	U	2.	UJ	2.	UJ	2.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-PEST															
	SAMPLE ID ------>	FDS-G-W15A-01		FDS-G-W15A-02		FDS-G-W15B-01		FDS-G-W15B-02		FDS-G-W15C-01		FDS-G-W15C-02	
	ORIGINAL ID ----->	FDSGW15A01		FDSGW15A02		FDSGW15B01		FDSGW15B02		FDSGW15C01		FDSGW15C02	
	LAB SAMPLE ID --->	28308.01		29707.04		28308.02		29730.06		28308.03		29730.07	
	ID FROM REPORT -->	FDSGW15A01		FDSGW15A02		FDSGW15B01		FDSGW15B02		FDSGW15C01		FDSGW15C02	
	SAMPLE DATE ----->	01/28/97		06/13/97		01/28/97		06/16/97		01/28/97		06/16/97	
	DATE EXTRACTED -->	01/29/97		06/16/97		01/29/97		06/18/97		01/29/97		06/18/97	
	DATE ANALYZED --->	01/31/97		06/19/97		01/31/97		06/20/97		01/31/97		06/20/97	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ----------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	28308	VAL	29707	VAL	28308	VAL	29707	VAL	28308	VAL	29707	VAL
319-84-6	alpha-BHC	0.04	UJ	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
319-85-7	beta-BHC	0.057	J	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
319-86-8	delta-BHC	0.04	UJ	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
58-89-9	gamma-BHC (Lindane)	0.04	UJ	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
76-44-8	Heptachlor	0.04	UJ	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
309-00-2	Aldrin	0.04	UJ	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
1024-57-3	Heptachlor epoxide	0.04	UJ	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
959-98-8	Endosulfan I	0.04	UJ	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
60-57-1	Dieldrin	0.08	UJ	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
72-55-9	4,4'-DDE	0.08	UJ	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
72-20-8	Endrin	0.08	UJ	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
33213-65-9	Endosulfan II	0.08	UJ	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
72-54-8	4,4'-DDD	0.08	UJ	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
1031-07-8	Endosulfan sulfate	0.08	UJ	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
50-29-3	4,4'-DDT	0.08	UJ	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
72-43-5	Methoxychlor	0.38	UJ	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U
53494-70-5	Endrin ketone	0.08	UJ	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
7421-93-4	Endrin aldehyde	0.08	UJ	0.08	U	0.08	U	0.08	U	0.08	U	0.08	U
5103-71-9	alpha-Chlordane	0.04	UJ	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
5103-74-2	gamma-Chlordane	0.04	UJ	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
8001-35-2	Toxaphene	2.5	UJ	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
12674-11-2	Aroclor-1016	1.	UJ	1.	U	1.	U	1.	U	1.	U	1.	U
11104-28-2	Aroclor-1221	1.	UJ	1.	U	1.	U	1.	U	1.	U	1.	U
11141-16-5	Aroclor-1232	1.	UJ	1.	U	1.	U	1.	U	1.	U	1.	U
53469-21-9	Aroclor-1242	1.	UJ	1.	U	1.	U	1.	U	1.	U	1.	U
12672-29-6	Aroclor-1248	1.	UJ	1.	U	1.	U	1.	U	1.	U	1.	U
11097-69-1	Aroclor-1254	2.	UJ	2.	U	2.	U	2.	U	2.	U	2.	U
11096-82-5	Aroclor-1260	2.	UJ	2.	U	2.	U	2.	U	2.	U	2.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-PEST		SAMPLE ID ------->	FDS-G-W18A-01		FDS-G-W18A-02					
		ORIGINAL ID ----->	FDSGW18A01		FDSGW18A02					
		LAB SAMPLE ID --->	28328.05		29767.03					
		ID FROM REPORT -->	FDSGW18A01		FDSGW18A02					
		SAMPLE DATE ----->	01/29/97		06/18/97					
		DATE EXTRACTED -->	01/31/97		06/20/97					
		DATE ANALYZED --->	02/03/97		06/25/97					
		MATRIX ---------->	Water		Water					
		UNITS ---------->	UG/L		UG/L					
CAS #	Parameter		28308	VAL	29767	VAL				
319-84-6	alpha-BHC		0.04	U	0.04	U				
319-85-7	beta-BHC		0.04	U	0.04	U				
319-86-8	delta-BHC		0.04	U	0.04	U				
58-89-9	gamma-BHC (Lindane)		0.04	U	0.04	U				
76-44-8	Heptachlor		0.04	U	0.04	U				
309-00-2	Aldrin		0.04	U	0.04	U				
1024-57-3	Heptachlor epoxide		0.04	U	0.04	U				
959-98-8	Endosulfan I		0.04	U	0.04	U				
60-57-1	Dieldrin		0.08	U	0.08	U				
72-55-9	4,4'-DDE		0.08	U	0.08	U				
72-20-8	Endrin		0.08	U	0.08	U				
33213-65-9	Endosulfan II		0.08	U	0.08	U				
72-54-8	4,4'-DDD		0.08	U	0.08	U				
1031-07-8	Endosulfan sulfate		0.08	U	0.08	U				
50-29-3	4,4'-DDT		0.08	U	0.08	U				
72-43-5	Methoxychlor		0.38	U	0.38	U				
53494-70-5	Endrin ketone		0.08	U	0.08	U				
7421-93-4	Endrin aldehyde		0.08	U	0.08	U				
5103-71-9	alpha-Chlordane		0.04	U	0.04	U				
5103-74-2	gamma-Chlordane		0.04	U	0.04	U				
8001-35-2	Toxaphene		2.5	U	2.5	U				
12674-11-2	Aroclor-1016		1.	U	1.	U				
11104-28-2	Aroclor-1221		1.	U	1.	U				
11141-16-5	Aroclor-1232		1.	U	1.	U				
53469-21-9	Aroclor-1242		1.	U	1.	U				
12672-29-6	Aroclor-1248		1.	U	1.	U				
11097-69-1	Aroclor-1254		2.	U	2.	U				
11096-82-5	Aroclor-1260		2.	U	2.	U				

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-SVOA	SAMPLE ID ------->	FDS-G-W01A-01		FDS-G-W01A-02		FDS-G-W01B-01		FDS-G-W01B-02		FDS-G-W01C-01		FDS-G-W01C-02	
	ORIGINAL ID ----->	FDSGW01A01		FDSGW01A02		FDSGW01B01		FDSGW01B02		FDSGW01C01		FDSGW01C02	
	LAB SAMPLE ID --->	28174.01		29610.04		28174.02		29560.05		28174.05		29560.06	
	ID FROM REPORT -->	FDSGW01A01		FDSGW01A02		FDSGW01B01		FDSGW01B02		FDSGW01C01		FDSGW01C02	
	SAMPLE DATE ----->	01/14/97		06/05/97		01/14/97		06/02/97		01/14/97		06/02/97	
	DATE EXTRACTED -->	01/16/97		06/06/97		01/16/97		06/04/96		01/16/97		06/04/96	
	DATE ANALYZED --->	01/20/97		06/11/97		01/20/97		06/09/97		01/22/97		06/09/97	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	28134	VAL	29591	VAL	28134	VAL	29515	VAL	28134	VAL	29515	VAL
108-95-2	Phenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
111-44-4	bis(2-Chloroethyl)ether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-57-8	2-Chlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
100-51-6	Benzyl alcohol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-48-7	2-Methylphenol (o-Cresol)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
106-44-5	4-Methylphenol (p-Cresol)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
621-64-7	N-Nitroso-di-n-propylamine	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
67-72-1	Hexachloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
98-95-3	Nitrobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
78-59-1	Isophorone	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-75-5	2-Nitrophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
105-67-9	2,4-Dimethylphenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
65-85-0	Benzoic acid	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
111-91-1	bis(2-Chloroethoxy)methane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
120-83-2	2,4-Dichlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
91-20-3	Naphthalene	39.		10.	U	10.	U	23.		10.	U	10.	U
106-47-8	4-Chloroaniline	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
87-68-3	Hexachlorobutadiene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
59-50-7	4-Chloro-3-methylphenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
91-57-6	2-Methylnaphthalene	130.		71.		10.	U	10.	U	10.	U	10.	U
77-47-4	Hexachlorocyclopentadiene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-06-2	2,4,6-Trichlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-95-4	2,4,5-Trichlorophenol	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
91-58-7	2-Chloronaphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-74-4	2-Nitroaniline	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
131-11-3	Dimethyl phthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
208-96-8	Acenaphthylene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
99-09-2	3-Nitroaniline	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
83-32-9	Acenaphthene	47.		37.		19.		25.		10.	U	2.	J
51-28-5	2,4-Dinitrophenol	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-SVOA													
	SAMPLE ID ------->	FDS-G-W01A-01		FDS-G-W01A-02		FDS-G-W01B-01		FDS-G-W01B-02		FDS-G-W01C-01		FDS-G-W01C-02	
	ORIGINAL ID ----->	FDSGW01A01		FDSGW01A02		FDSGW01B01		FDSGW01B02		FDSGW01C01		FDSGW01C02	
	LAB SAMPLE ID --->	28174.01		29610.04		28174.02		29560.05		28174.05		29560.06	
	ID FROM REPORT -->	FDSGW01A01		FDSGW01A02		FDSGW01B01		FDSGW01B02		FDSGW01C01		FDSGW01C02	
	SAMPLE DATE ----->	01/14/97		06/05/97		01/14/97		06/02/97		01/14/97		06/02/97	
	DATE EXTRACTED -->	01/16/97		06/06/97		01/16/97		06/04/96		01/16/97		06/04/96	
	DATE ANALYZED --->	01/20/97		06/11/97		01/20/97		06/09/97		01/22/97		06/09/97	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	28134	VAL	29591	VAL	28134	VAL	29515	VAL	28134	VAL	29515	VAL
100-02-7	4-Nitrophenol	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
132-64-9	Dibenzofuran	32.		25.		10.	U	10.	U	10.	U	10.	U
121-14-2	2,4-Dinitrotoluene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
84-66-2	Diethylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
7005-72-3	4-Chlorophenylphenylether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
86-73-7	Fluorene	41.		44.		10.	U	10.	U	10.	U	10.	U
100-01-6	4-Nitroaniline	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
534-52-1	2-Methyl-4,6-Dinitrophenol	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
86-30-6	N-Nitrosodiphenylamine	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
101-55-3	4-Bromophenyl-phenylether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
118-74-1	Hexachlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
87-86-5	Pentachlorophenol	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
85-01-8	Phenanthrene	120.		91.		1.	J	10.	U	10.	U	10.	U
120-12-7	Anthracene	16.		13.		10.	U	10.	U	10.	U	10.	U
84-74-2	Di-n-butylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
206-44-0	Fluoranthene	50.		34.		10.	U	10.	U	10.	U	10.	U
129-00-0	Pyrene	27.		22.		10.	U	10.	U	10.	U	10.	U
85-68-7	Butylbenzylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
91-94-1	3,3'-Dichlorobenzidine	20.	U	20.	U	20.	U	20.	U	20.	U	20.	U
56-55-3	Benzo(a)anthracene	7.	J	6.	J	10.	U	10.	U	10.	U	10.	U
218-01-9	Chrysene	7.	J	6.	J	10.	U	10.	U	10.	U	10.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
117-84-0	Di-n-octyl phthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
205-99-2	Benzo(b)fluoranthene	6.	J	2.	J	10.	U	10.	U	10.	U	10.	U
207-08-9	Benzo(k)fluoranthene	10.	U	3.	J	10.	U	10.	U	10.	U	10.	U
50-32-8	Benzo(a)pyrene	3.	J	2.	J	10.	U	10.	U	10.	U	10.	U
193-39-5	Indeno(1,2,3-cd)pyrene	1.	J	1.	J	10.	U	10.	U	10.	U	10.	U
53-70-3	Dibenz(a,h)anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
191-24-2	Benzo(g,h,i)perylene	1.	J	1.	J	10.	U	10.	U	10.	U	10.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-SVOA	SAMPLE ID ------>	FDS-G-W01D-01	FDS-G-W01D-02	FDS-H-W01D-02	FDS-G-W01E-01	FDS-G-W01E-02	FDS-G-W02A-01
	ORIGINAL ID ----->	FDSGW01D01	FDSGW01D02	FDSHW01D02	FDSGW01E01	FDSGW01E02	FDSGW02A01
	LAB SAMPLE ID --->	28185.02	29591.03	29591.04	28328.01	29560.07	28190.02
	ID FROM REPORT -->	FDSGW01D01	FDSGW01D02	FDSHW01D02	FDSGW01E01	FDSGW01E02	FDSGW02A01
	SAMPLE DATE ----->	01/14/97	06/04/97	06/04/97	01/29/97	06/02/97	01/16/97
	DATE EXTRACTED -->	01/20/97	06/06/97	06/06/97	01/31/97	06/04/96	01/17/97
	DATE ANALYZED --->	01/21/97	06/10/97	06/10/97	02/03/97	06/09/97	01/20/97
	MATRIX ---------->	Water	Water	Water	Water	Water	Water
	UNITS ---------->	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L

CAS #	Parameter	28185	VAL	29591	VAL	29591	VAL	28308	VAL	29515	VAL	28185	VAL
108-95-2	Phenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
111-44-4	bis(2-Chloroethyl)ether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-57-8	2-Chlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
100-51-6	Benzyl alcohol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-48-7	2-Methylphenol (o-Cresol)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
106-44-5	4-Methylphenol (p-Cresol)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
621-64-7	N-Nitroso-di-n-propylamine	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
67-72-1	Hexachloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	J
98-95-3	Nitrobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
78-59-1	Isophorone	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-75-5	2-Nitrophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
105-67-9	2,4-Dimethylphenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
65-85-0	Benzoic acid	1.	J	50.	U	50.	U	50.	U	50.	U	1.	J
111-91-1	bis(2-Chloroethoxy)methane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
120-83-2	2,4-Dichlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
91-20-3	Naphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
106-47-8	4-Chloroaniline	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
87-68-3	Hexachlorobutadiene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
59-50-7	4-Chloro-3-methylphenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
91-57-6	2-Methylnaphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
77-47-4	Hexachlorocyclopentadiene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-06-2	2,4,6-Trichlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-95-4	2,4,5-Trichlorophenol	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
91-58-7	2-Chloronaphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-74-4	2-Nitroaniline	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
131-11-3	Dimethyl phthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
208-96-8	Acenaphthylene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
99-09-2	3-Nitroaniline	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
83-32-9	Acenaphthene	2.	J	4.	J	4.	J	10.	U	10.	U	10.	U
51-28-5	2,4-Dinitrophenol	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-SVOA							
SAMPLE ID ------->	FDS-G-W01D-01	FDS-G-W01D-02	FDS-H-W01D-02	FDS-G-W01E-01	FDS-G-W01E-02	FDS-G-W02A-01
ORIGINAL ID ----->	FDSGW01D01	FDSGW01D02	FDSHW01D02	FDSGW01E01	FDSGW01E02	FDSGW02A01
LAB SAMPLE ID --->	28185.02	29591.03	29591.04	28328.01	29560.07	28190.02
ID FROM REPORT -->	FDSGW01D01	FDSGW01D02	FDSHW01D02	FDSGW01E01	FDSGW01E02	FDSGW02A01
SAMPLE DATE ----->	01/14/97	06/04/97	06/04/97	01/29/97	06/02/97	01/16/97
DATE EXTRACTED -->	01/20/97	06/06/97	06/06/97	01/31/97	06/04/96	01/17/97
DATE ANALYZED --->	01/21/97	06/10/97	06/10/97	02/03/97	06/09/97	01/20/97
MATRIX ---------->	Water	Water	Water	Water	Water	Water
UNITS ---------->	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L

CAS #	Parameter	28185	VAL	29591	VAL	29591	VAL	28308	VAL	29515	VAL	28185	VAL
100-02-7	4-Nitrophenol	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
132-64-9	Dibenzofuran	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
121-14-2	2,4-Dinitrotoluene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
84-66-2	Diethylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
7005-72-3	4-Chlorophenylphenylether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
86-73-7	Fluorene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
100-01-6	4-Nitroaniline	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
534-52-1	2-Methyl-4,6-Dinitrophenol	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
86-30-6	N-Nitrosodiphenylamine	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
101-55-3	4-Bromophenyl-phenylether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
118-74-1	Hexachlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
87-86-5	Pentachlorophenol	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
85-01-8	Phenanthrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
120-12-7	Anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
84-74-2	Di-n-butylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
206-44-0	Fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
129-00-0	Pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
85-68-7	Butylbenzylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
91-94-1	3,3'-Dichlorobenzidine	20.	U	20.	U	20.	U	20.	U	20.	U	20.	U
56-55-3	Benzo(a)anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
218-01-9	Chrysene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	10.	U	10.	U	10.	U	10.	U	10.	U	2.	J
117-84-0	Di-n-octyl phthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
205-99-2	Benzo(b)fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
207-08-9	Benzo(k)fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
50-32-8	Benzo(a)pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
53-70-3	Dibenz(a,h)anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
191-24-2	Benzo(g,h,i)perylene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	J

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-SVOA	SAMPLE ID ------>	FDS-G-W02A-02	FDS-H-W02A-02	FDS-G-W02B-01	FDS-G-W02B-02	FDS-G-W02C-01	FDS-G-W02C-02
	ORIGINAL ID ----->	FDSGW02A02	FDSHW02A02	FDSGW02B01	FDSGW02B02	FDSGW02C01	FDSGW02C02
	LAB SAMPLE ID --->	29538.03	29538.04	28223.10	29523.03	28190.01	29538.02
	ID FROM REPORT -->	FDSGW02A02	FDSHW02A02	FDSGW02B01	FDSGW02B02	FDSGW02C01	FDSGW02C02
	SAMPLE DATE ----->	05/30/97	05/30/97	01/19/97	05/20/97	01/16/97	05/30/97
	DATE EXTRACTED -->	06/02/97	06/02/97	01/22/97	05/30/97	01/17/97	06/02/97
	DATE ANALYZED --->	06/06/97	06/06/97	01/23/97	06/05/97	01/20/97	06/06/97
	MATRIX ---------->	Water	Water	Water	Water	Water	Water
	UNITS ---------->	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L

CAS #	Parameter	29515	VAL	29515	VAL	28217	VAL	29515	VAL	28185	VAL	29515	VAL
108-95-2	Phenol	1.	J	4.	J	10.	U	12.	U	10.	U	11.	U
111-44-4	bis(2-Chloroethyl)ether	12.	U	11.	U	10.	U	12.	U	10.	U	11.	U
95-57-8	2-Chlorophenol	12.	U	11.	U	10.	U	12.	U	10.	U	11.	U
541-73-1	1,3-Dichlorobenzene	12.	U	11.	U	10.	U	12.	U	10.	U	11.	U
106-46-7	1,4-Dichlorobenzene	12.	U	11.	U	10.	U	12.	U	10.	U	11.	U
100-51-6	Benzyl alcohol	12.	U	11.	U	10.	U	12.	U	10.	U	11.	U
95-50-1	1,2-Dichlorobenzene	12.	U	11.	U	10.	U	12.	U	10.	U	11.	U
95-48-7	2-Methylphenol (o-Cresol)	12.	U	11.	U	10.	U	12.	U	10.	U	11.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	12.	U	11.	U	10.	U	12.	U	10.	U	11.	U
106-44-5	4-Methylphenol (p-Cresol)	12.	U	11.	U	10.	U	12.	U	10.	U	11.	U
621-64-7	N-Nitroso-di-n-propylamine	12.	U	11.	U	10.	U	12.	U	10.	U	11.	U
67-72-1	Hexachloroethane	12.	U	11.	U	10.	U	12.	U	10.	U	11.	U
98-95-3	Nitrobenzene	12.	U	11.	U	10.	U	12.	U	10.	U	11.	U
78-59-1	Isophorone	12.	U	11.	U	10.	U	12.	U	10.	U	11.	U
88-75-5	2-Nitrophenol	12.	U	11.	U	10.	U	12.	U	10.	U	11.	U
105-67-9	2,4-Dimethylphenol	12.	U	11.	U	10.	U	12.	U	10.	U	11.	U
65-85-0	Benzoic acid	60.	U	1.	J	50.	U	58.	U	50.	U	57.	U
111-91-1	bis(2-Chloroethoxy)methane	12.	U	11.	U	10.	U	12.	U	10.	U	11.	U
120-83-2	2,4-Dichlorophenol	12.	U	11.	U	10.	U	12.	U	10.	U	11.	U
120-82-1	1,2,4-Trichlorobenzene	12.	U	11.	U	10.	U	12.	U	10.	U	11.	U
91-20-3	Naphthalene	12.	U	11.	U	10.	U	12.	U	10.	U	11.	U
106-47-8	4-Chloroaniline	12.	U	11.	U	10.	U	12.	U	10.	U	11.	U
87-68-3	Hexachlorobutadiene	12.	U	11.	U	10.	U	12.	U	10.	U	11.	U
59-50-7	4-Chloro-3-methylphenol	12.	U	11.	U	10.	U	12.	U	10.	U	11.	U
91-57-6	2-Methylnaphthalene	12.	U	11.	U	10.	U	12.	U	10.	U	11.	U
77-47-4	Hexachlorocyclopentadiene	12.	U	11.	U	10.	U	12.	U	10.	U	11.	U
88-06-2	2,4,6-Trichlorophenol	12.	U	11.	U	10.	U	12.	U	10.	U	11.	U
95-95-4	2,4,5-Trichlorophenol	60.	U	57.	U	50.	U	58.	U	50.	U	57.	U
91-58-7	2-Chloronaphthalene	12.	U	11.	U	10.	U	12.	U	10.	U	11.	U
88-74-4	2-Nitroaniline	60.	U	57.	U	50.	U	58.	U	50.	U	57.	U
131-11-3	Dimethyl phthalate	12.	U	11.	U	10.	U	12.	U	10.	U	11.	U
208-96-8	Acenaphthylene	12.	U	11.	U	10.	U	12.	U	10.	U	11.	U
606-20-2	2,6-Dinitrotoluene	12.	U	11.	U	10.	U	12.	U	10.	U	11.	U
99-09-2	3-Nitroaniline	60.	U	57.	U	50.	U	58.	U	50.	U	57.	U
83-32-9	Acenaphthene	12.	U	11.	U	10.	U	12.	U	10.	U	11.	U
51-28-5	2,4-Dinitrophenol	60.	U	57.	U	50.	U	58.	U	50.	U	57.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-SVOA	SAMPLE ID ------>	FDS-G-W02A-02	FDS-H-W02A-02	FDS-G-W02B-01	FDS-G-W02B-02	FDS-G-W02C-01	FDS-G-W02C-02
	ORIGINAL ID ----->	FDSGW02A02	FDSHW02A02	FDSGW02B01	FDSGW02B02	FDSGW02C01	FDSGW02C02
	LAB SAMPLE ID --->	29538.03	29538.04	28223.10	29523.03	28190.01	29538.02
	ID FROM REPORT -->	FDSGW02A02	FDSHW02A02	FDSGW02B01	FDSGW02B02	FDSGW02C01	FDSGW02C02
	SAMPLE DATE ----->	05/30/97	05/30/97	01/19/97	05/20/97	01/16/97	05/30/97
	DATE EXTRACTED -->	06/02/97	06/02/97	01/22/97	05/30/97	01/17/97	06/02/97
	DATE ANALYZED --->	06/06/97	06/06/97	01/23/97	06/05/97	01/20/97	06/06/97
	MATRIX ---------->	Water	Water	Water	Water	Water	Water
	UNITS ----------->	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L

CAS #	Parameter	29515	VAL	29515	VAL	28217	VAL	29515	VAL	28185	VAL	29515	VAL
100-02-7	4-Nitrophenol	60.	U	57.	U	50.	U	58.	U	50.	U	57.	U
132-64-9	Dibenzofuran	12.	U	11.	U	10.	U	12.	U	10.	U	11.	U
121-14-2	2,4-Dinitrotoluene	12.	U	11.	U	10.	U	12.	U	10.	U	11.	U
84-66-2	Diethylphthalate	12.	U	11.	U	10.	U	12.	U	10.	U	11.	U
7005-72-3	4-Chlorophenylphenylether	12.	U	11.	U	10.	U	12.	U	10.	U	11.	U
86-73-7	Fluorene	12.	U	11.	U	10.	U	12.	U	10.	U	11.	U
100-01-6	4-Nitroaniline	60.	U	57.	U	50.	U	58.	U	50.	U	57.	U
534-52-1	2-Methyl-4,6-Dinitrophenol	60.	U	57.	U	50.	U	58.	U	50.	U	57.	U
86-30-6	N-Nitrosodiphenylamine	12.	U	11.	U	10.	U	12.	U	10.	U	11.	U
101-55-3	4-Bromophenyl-phenylether	12.	U	11.	U	10.	U	12.	U	10.	U	11.	U
118-74-1	Hexachlorobenzene	12.	U	11.	U	10.	U	12.	U	10.	U	11.	U
87-86-5	Pentachlorophenol	60.	U	57.	U	50.	U	58.	U	50.	U	57.	U
85-01-8	Phenanthrene	12.	U	11.	U	10.	U	12.	U	10.	U	11.	U
120-12-7	Anthracene	12.	U	11.	U	10.	U	12.	U	10.	U	11.	U
84-74-2	Di-n-butylphthalate	12.	U	11.	U	10.	U	12.	U	10.	U	11.	U
206-44-0	Fluoranthene	12.	U	11.	U	10.	U	12.	U	10.	U	11.	U
129-00-0	Pyrene	12.	U	11.	U	10.	U	12.	U	10.	U	11.	U
85-68-7	Butylbenzylphthalate	12.	U	11.	U	10.	U	12.	U	10.	U	11.	U
91-94-1	3,3'-Dichlorobenzidine	24.	U	23.	U	20.	U	23.	U	20.	U	23.	U
56-55-3	Benzo(a)anthracene	12.	U	11.	U	10.	U	12.	U	10.	U	11.	U
218-01-9	Chrysene	12.	U	11.	U	10.	U	12.	U	10.	U	11.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	12.	U	11.	U	10.	U	12.	U	1.	J	11.	U
117-84-0	Di-n-octyl phthalate	12.	U	11.	U	10.	U	12.	U	10.	U	11.	U
205-99-2	Benzo(b)fluoranthene	12.	U	11.	U	10.	U	12.	U	10.	U	11.	U
207-08-9	Benzo(k)fluoranthene	12.	U	11.	U	10.	U	12.	U	10.	U	11.	U
50-32-8	Benzo(a)pyrene	12.	U	11.	U	10.	U	12.	U	10.	U	11.	U
193-39-5	Indeno(1,2,3-cd)pyrene	12.	U	11.	U	10.	U	12.	U	10.	U	11.	U
53-70-3	Dibenz(a,h)anthracene	12.	U	11.	U	10.	U	12.	U	10.	U	11.	U
191-24-2	Benzo(g,h,i)perylene	12.	U	11.	U	10.	U	12.	U	10.	U	11.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-SVOA	SAMPLE ID ------->	FDS-G-W03A-01	FDS-G-W03A-02	FDS-G-W03B-01	FDS-G-W03B-02	FDS-G-W03C-01	FDS-G-W03C-02
	ORIGINAL ID ----->	FDSGW03A01	FDSGW03A02	FDSGW03B01	FDSGW03B02	FDSGW03C01	FDSGW03C02
	LAB SAMPLE ID --->	28223.01	29591.01	28185.05	29560.01	28185.04	29591.02
	ID FROM REPORT -->	FDSGW03A01	FDSGW03A02	FDSGW03B01	FDSGW03B02	FDSGW03C01	FDSGW03C02
	SAMPLE DATE ----->	01/19/97	06/04/97	01/15/97	06/02/97	01/15/97	06/04/97
	DATE EXTRACTED -->	01/22/97	06/06/97	01/20/97	06/04/96	01/20/97	06/06/97
	DATE ANALYZED --->	01/23/97	06/10/97	01/21/97	06/09/97	01/21/97	06/10/97
	MATRIX ---------->	Water	Water	Water	Water	Water	Water
	UNITS ---------->	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L

CAS #	Parameter	28217	VAL	29591	VAL	28185	VAL	29515	VAL	28185	VAL	29591	VAL
108-95-2	Phenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
111-44-4	bis(2-Chloroethyl)ether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-57-8	2-Chlorophenol	10.	U	1.	J	10.	U	10.	U	10.	U	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
100-51-6	Benzyl alcohol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-48-7	2-Methylphenol (o-Cresol)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
106-44-5	4-Methylphenol (p-Cresol)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
621-64-7	N-Nitroso-di-n-propylamine	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
67-72-1	Hexachloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
98-95-3	Nitrobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
78-59-1	Isophorone	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-75-5	2-Nitrophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
105-67-9	2,4-Dimethylphenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
65-85-0	Benzoic acid	1.	J	50.	U	50.	U	50.	U	50.	U	50.	U
111-91-1	bis(2-Chloroethoxy)methane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
120-83-2	2,4-Dichlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
91-20-3	Naphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
106-47-8	4-Chloroaniline	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
87-68-3	Hexachlorobutadiene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
59-50-7	4-Chloro-3-methylphenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
91-57-6	2-Methylnaphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
77-47-4	Hexachlorocyclopentadiene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-06-2	2,4,6-Trichlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-95-4	2,4,5-Trichlorophenol	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
91-58-7	2-Chloronaphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-74-4	2-Nitroaniline	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
131-11-3	Dimethyl phthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
208-96-8	Acenaphthylene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
99-09-2	3-Nitroaniline	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
83-32-9	Acenaphthene	10.	U	2.	J	10.	U	10.	U	10.	U	10.	U
51-28-5	2,4-Dinitrophenol	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-SVOA																					
	SAMPLE ID ------>	FDS-G-W03A-01		FDS-G-W03A-02		FDS-G-W03B-01		FDS-G-W03B-02		FDS-G-W03C-01		FDS-G-W03C-02	
	ORIGINAL ID ----->	FDSGW03A01		FDSGW03A02		FDSGW03B01		FDSGW03B02		FDSGW03C01		FDSGW03C02	
	LAB SAMPLE ID --->	28223.01		29591.01		28185.05		29560.01		28185.04		29591.02	
	ID FROM REPORT -->	FDSGW03A01		FDSGW03A02		FDSGW03B01		FDSGW03B02		FDSGW03C01		FDSGW03C02	
	SAMPLE DATE ----->	01/19/97		06/04/97		01/15/97		06/02/97		01/15/97		06/04/97	
	DATE EXTRACTED -->	01/22/97		06/06/97		01/20/97		06/04/96		01/20/97		06/06/97	
	DATE ANALYZED --->	01/23/97		06/10/97		01/21/97		06/09/97		01/21/97		06/10/97	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	28217	VAL	29591	VAL	28185	VAL	29515	VAL	28185	VAL	29591	VAL
100-02-7	4-Nitrophenol	50.	U	2.	J	50.	U	50.	U	50.	U	50.	U
132-64-9	Dibenzofuran	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
121-14-2	2,4-Dinitrotoluene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
84-66-2	Diethylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
7005-72-3	4-Chlorophenylphenylether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
86-73-7	Fluorene	10.	U	2.	J	10.	U	10.	U	10.	U	10.	U
100-01-6	4-Nitroaniline	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
534-52-1	2-Methyl-4,6-Dinitrophenol	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
86-30-6	N-Nitrosodiphenylamine	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
101-55-3	4-Bromophenyl-phenylether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
118-74-1	Hexachlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
87-86-5	Pentachlorophenol	50.	U	1.	J	50.	U	50.	U	50.	U	50.	U
85-01-8	Phenanthrene	10.	U	1.	J	10.	U	10.	U	10.	U	10.	U
120-12-7	Anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
84-74-2	Di-n-butylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
206-44-0	Fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
129-00-0	Pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
85-68-7	Butylbenzylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
91-94-1	3,3'-Dichlorobenzidine	20.	U	20.	U	20.	U	20.	U	20.	U	20.	U
56-55-3	Benzo(a)anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
218-01-9	Chrysene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
117-84-0	Di-n-octyl phthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	
205-99-2	Benzo(b)fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
207-08-9	Benzo(k)fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
50-32-8	Benzo(a)pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
53-70-3	Dibenz(a,h)anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
191-24-2	Benzo(g,h,i)perylene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-SVOA	SAMPLE ID ------->	FDS-G-W04A-01	FDS-G-W04A-02	FDS-G-W04B-01	FDS-G-W04B-02	FDS-G-W04C-01	FDS-G-W04C-02
	ORIGINAL ID ----->	FDSGW04A01	FDSGW04A02	FDSGW04B01	FDSGW04B02	FDSGW04C01	FDSGW04C02
	LAB SAMPLE ID --->	28223.07	29487.03	28223.08	29515.01	28223.09	29515.05
	ID FROM REPORT -->	FDSGW04A01	FDSGW04A02	FDSGW04B01	FDSGW04B02	FDSGW04C01	FDSGW04C02
	SAMPLE DATE ----->	01/20/97	05/23/97	01/20/97	05/28/97	01/20/97	05/28/97
	DATE EXTRACTED -->	01/22/97	05/27/97	01/22/97	05/30/97	01/22/97	05/30/97
	DATE ANALYZED --->	01/23/97	06/01/97	01/23/97	06/05/97	01/23/97	06/05/97
	MATRIX ---------->	Water	Water	Water	Water	Water	Water
	UNITS ---------->	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L

CAS #	Parameter	28217	VAL	29437	VAL	28217	VAL	29515	VAL	28217	VAL	29515	VAL
108-95-2	Phenol	10.	U	10.	U	10.	U	10.	U	10.	U	12.	U
111-44-4	bis(2-Chloroethyl)ether	10.	U	10.	U	10.	U	10.	U	10.	U	12.	U
95-57-8	2-Chlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	12.	U
541-73-1	1,3-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	12.	U
106-46-7	1,4-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	12.	U
100-51-6	Benzyl alcohol	10.	U	10.	U	10.	U	10.	U	10.	U	12.	U
95-50-1	1,2-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	12.	U
95-48-7	2-Methylphenol (o-Cresol)	10.	U	10.	U	10.	U	10.	U	10.	U	12.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10.	U	10.	U	10.	U	10.	U	10.	U	12.	U
106-44-5	4-Methylphenol (p-Cresol)	10.	U	10.	U	10.	U	10.	U	10.	U	12.	U
621-64-7	N-Nitroso-di-n-propylamine	10.	U	10.	U	10.	U	10.	U	10.	U	12.	U
67-72-1	Hexachloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	12.	U
98-95-3	Nitrobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	12.	U
78-59-1	Isophorone	10.	U	10.	U	10.	U	10.	U	10.	U	12.	U
88-75-5	2-Nitrophenol	10.	U	10.	U	10.	U	10.	U	10.	U	12.	U
105-67-9	2,4-Dimethylphenol	10.	U	10.	U	10.	U	10.	U	10.	U	12.	U
65-85-0	Benzoic acid	1.	J	50.	U	1.	J	53.	U	1.	J	59.	U
111-91-1	bis(2-Chloroethoxy)methane	10.	U	10.	U	10.	U	10.	U	10.	U	12.	U
120-83-2	2,4-Dichlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	12.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	12.	U
91-20-3	Naphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	12.	U
106-47-8	4-Chloroaniline	10.	U	10.	U	10.	U	10.	U	10.	U	12.	U
87-68-3	Hexachlorobutadiene	10.	U	10.	U	10.	U	10.	U	10.	U	12.	U
59-50-7	4-Chloro-3-methylphenol	10.	U	10.	U	10.	U	10.	U	10.	U	12.	U
91-57-6	2-Methylnaphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	12.	U
77-47-4	Hexachlorocyclopentadiene	10.	U	10.	U	10.	U	10.	U	10.	U	12.	U
88-06-2	2,4,6-Trichlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	12.	U
95-95-4	2,4,5-Trichlorophenol	50.	U	50.	U	50.	U	53.	U	50.	U	59.	U
91-58-7	2-Chloronaphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	12.	U
88-74-4	2-Nitroaniline	50.	U	50.	U	50.	U	53.	U	50.	U	59.	U
131-11-3	Dimethyl phthalate	10.	U	10.	U	10.	U	10.	U	10.	U	12.	U
208-96-8	Acenaphthylene	10.	U	10.	U	10.	U	10.	U	10.	U	12.	U
606-20-2	2,6-Dinitrotoluene	10.	U	10.	U	10.	U	10.	U	10.	U	12.	U
99-09-2	3-Nitroaniline	50.	U	50.	U	50.	U	53.	U	50.	U	59.	U
83-32-9	Acenaphthene	10.	U	10.	U	10.	U	10.	U	10.	U	12.	U
51-28-5	2,4-Dinitrophenol	50.	U	50.	U	50.	U	53.	U	50.	U	59.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-SVOA													
	SAMPLE ID ------>	FDS-G-W04A-01		FDS-G-W04A-02		FDS-G-W04B-01		FDS-G-W04B-02		FDS-G-W04C-01		FDS-G-W04C-02	
	ORIGINAL ID ----->	FDSGW04A01		FDSGW04A02		FDSGW04B01		FDSGW04B02		FDSGW04C01		FDSGW04C02	
	LAB SAMPLE ID --->	28223.07		29487.03		28223.08		29515.01		28223.09		29515.05	
	ID FROM REPORT -->	FDSGW04A01		FDSGW04A02		FDSGW04B01		FDSGW04B02		FDSGW04C01		FDSGW04C02	
	SAMPLE DATE ----->	01/20/97		05/23/97		01/20/97		05/28/97		01/20/97		05/28/97	
	DATE EXTRACTED -->	01/22/97		05/27/97		01/22/97		05/30/97		01/22/97		05/30/97	
	DATE ANALYZED --->	01/23/97		06/01/97		01/23/97		06/05/97		01/23/97		06/05/97	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	28217	VAL	29437	VAL	28217	VAL	29515	VAL	28217	VAL	29515	VAL
100-02-7	4-Nitrophenol	50.	U	50.	U	50.	U	53.	U	50.	U	59.	U
132-64-9	Dibenzofuran	10.	U	10.	U	10.	U	10.	U	10.	U	12.	U
121-14-2	2,4-Dinitrotoluene	10.	U	10.	U	10.	U	10.	U	10.	U	12.	U
84-66-2	Diethylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	12.	U
7005-72-3	4-Chlorophenylphenylether	10.	U	10.	U	10.	U	10.	U	10.	U	12.	U
86-73-7	Fluorene	10.	U	10.	U	10.	U	10.	U	10.	U	12.	U
100-01-6	4-Nitroaniline	50.	U	50.	U	50.	U	53.	U	50.	U	59.	U
534-52-1	2-Methyl-4,6-Dinitrophenol	50.	U	50.	U	50.	U	53.	U	50.	U	59.	U
86-30-6	N-Nitrosodiphenylamine	10.	U	10.	U	10.	U	10.	U	10.	U	12.	U
101-55-3	4-Bromophenyl-phenylether	10.	U	10.	U	10.	U	10.	U	10.	U	12.	U
118-74-1	Hexachlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	12.	U
87-86-5	Pentachlorophenol	50.	U	50.	U	50.	U	53.	U	50.	U	59.	U
85-01-8	Phenanthrene	10.	U	10.	U	10.	U	10.	U	10.	U	12.	U
120-12-7	Anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	12.	U
84-74-2	Di-n-butylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	12.	U
206-44-0	Fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	12.	U
129-00-0	Pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	12.	U
85-68-7	Butylbenzylphthalate	10.	U	10.	U	10.	U	1.	J	10.	U	12.	U
91-94-1	3,3'-Dichlorobenzidine	20.	U	20.	U	20.	U	21.	U	20.	U	24.	U
56-55-3	Benzo(a)anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	12.	U
218-01-9	Chrysene	10.	U	10.	U	10.	U	10.	U	10.	U	12.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	10.	U	10.	U	10.	U	10.	U	10.	U	12.	U
117-84-0	Di-n-octyl phthalate	10.	U	10.	U	10.	U	10.	U	10.	U	12.	U
205-99-2	Benzo(b)fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	12.	U
207-08-9	Benzo(k)fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	12.	U
50-32-8	Benzo(a)pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	12.	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	12.	U
53-70-3	Dibenz(a,h)anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	12.	U
191-24-2	Benzo(g,h,i)perylene	10.	U	10.	U	10.	U	10.	U	10.	U	12.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-SVOA	SAMPLE ID ------>	FDS-G-W05A-01	FDS-G-W05A-02	FDS-G-W05B-01	FDS-G-W05B-02	FDS-G-W06A-01	FDS-G-W06A-02
	ORIGINAL ID ----->	FDSGW05A01	FDSGW05A02	FDSGW05B01	FDSGW05B02	FDSGW06A01	FDSGW06A02
	LAB SAMPLE ID --->	28223.03	29610.01	28209.04	29610.02	28223.02	29523.01
	ID FROM REPORT -->	FDSGW05A01	FDSGW05A02	FDSGW05B01	FDSGW05B02	FDSGW06A01	FDSGW06A02
	SAMPLE DATE ----->	01/19/97	06/05/97	01/17/97	06/05/97	01/18/97	05/20/97
	DATE EXTRACTED -->	01/22/97	06/06/97	01/19/97	06/06/97	01/22/97	05/30/97
	DATE ANALYZED --->	01/23/97	06/11/97	01/20/97	06/11/97	01/23/97	06/04/97
	MATRIX ---------->	Water	Water	Water	Water	Water	Water
	UNITS ---------->	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L

CAS #	Parameter	28217	VAL	29591	VAL	28185	VAL	29591	VAL	28217	VAL	29515	VAL
108-95-2	Phenol	10.	U	10.	U	10.	U	10.	U	10.	U	11.	U
111-44-4	bis(2-Chloroethyl)ether	10.	U	10.	U	10.	U	10.	U	10.	U	11.	U
95-57-8	2-Chlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	11.	U
541-73-1	1,3-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	11.	U
106-46-7	1,4-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	11.	J
100-51-6	Benzyl alcohol	10.	U	10.	U	10.	U	10.	U	10.	U	11.	U
95-50-1	1,2-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	11.	U
95-48-7	2-Methylphenol (o-Cresol)	10.	U	10.	U	10.	U	10.	U	10.	U	11.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10.	U	10.	U	10.	U	10.	U	10.	U	11.	U
106-44-5	4-Methylphenol (p-Cresol)	10.	U	10.	U	10.	U	10.	U	10.	U	11.	U
621-64-7	N-Nitroso-di-n-propylamine	10.	U	10.	U	10.	U	10.	U	10.	U	11.	U
67-72-1	Hexachloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	11.	U
98-95-3	Nitrobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	11.	U
78-59-1	Isophorone	10.	U	10.	U	10.	U	10.	U	10.	U	11.	U
88-75-5	2-Nitrophenol	10.	U	10.	U	10.	U	10.	U	10.	U	11.	U
105-67-9	2,4-Dimethylphenol	10.	U	10.	U	10.	U	10.	U	10.	U	11.	U
65-85-0	Benzoic acid	2.	J	50.	U	50.	U	50.	U	50.	U	57.	U
111-91-1	bis(2-Chloroethoxy)methane	10.	U	10.	U	10.	U	10.	U	10.	U	11.	U
120-83-2	2,4-Dichlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	11.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	11.	U
91-20-3	Naphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	11.	U
106-47-8	4-Chloroaniline	10.	U	10.	U	10.	U	10.	U	10.	U	11.	U
87-68-3	Hexachlorobutadiene	10.	U	10.	U	10.	U	10.	U	10.	U	11.	U
59-50-7	4-Chloro-3-methylphenol	10.	U	10.	U	10.	U	10.	U	10.	U	11.	U
91-57-6	2-Methylnaphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	11.	U
77-47-4	Hexachlorocyclopentadiene	10.	U	10.	U	10.	U	10.	U	10.	U	11.	U
88-06-2	2,4,6-Trichlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	11.	U
95-95-4	2,4,5-Trichlorophenol	50.	U	50.	U	50.	U	50.	U	50.	U	57.	U
91-58-7	2-Chloronaphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	11.	U
88-74-4	2-Nitroaniline	50.	U	50.	U	50.	U	50.	U	50.	U	57.	U
131-11-3	Dimethyl phthalate	10.	U	10.	U	10.	U	10.	U	10.	U	11.	U
208-96-8	Acenaphthylene	10.	U	10.	U	10.	U	10.	U	10.	U	11.	U
606-20-2	2,6-Dinitrotoluene	10.	U	10.	U	10.	U	10.	U	10.	U	11.	U
99-09-2	3-Nitroaniline	50.	U	50.	U	50.	U	50.	U	50.	U	57.	U
83-32-9	Acenaphthene	10.	U	3.	J	10.	U	10.	U	10.	U	11.	U
51-28-5	2,4-Dinitrophenol	50.	U	50.	U	50.	U	50.	U	50.	U	57.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-SVOA	SAMPLE ID ------>	FDS-G-W05A-01	FDS-G-W05A-02	FDS-G-W05B-01	FDS-G-W05B-02	FDS-G-W06A-01	FDS-G-W06A-02
	ORIGINAL ID ----->	FDSGW05A01	FDSGW05A02	FDSGW05B01	FDSGW05B02	FDSGW06A01	FDSGW06A02
	LAB SAMPLE ID --->	28223.03	29610.01	28209.04	29610.02	28223.02	29523.01
	ID FROM REPORT -->	FDSGW05A01	FDSGW05A02	FDSGW05B01	FDSGW05B02	FDSGW06A01	FDSGW06A02
	SAMPLE DATE ----->	01/19/97	06/05/97	01/17/97	06/05/97	01/18/97	05/20/97
	DATE EXTRACTED -->	01/22/97	06/06/97	01/19/97	06/06/97	01/22/97	05/30/97
	DATE ANALYZED --->	01/23/97	06/11/97	01/20/97	06/11/97	01/23/97	06/04/97
	MATRIX ---------->	Water	Water	Water	Water	Water	Water
	UNITS ---------->	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L

CAS #	Parameter	28217	VAL	29591	VAL	28185	VAL	29591	VAL	28217	VAL	29515	VAL
100-02-7	4-Nitrophenol	50.	U	50.	U	50.	U	50.	U	50.	U	57.	U
132-64-9	Dibenzofuran	10.	U	10.	U	10.	U	10.	U	10.	U	11.	U
121-14-2	2,4-Dinitrotoluene	10.	U	10.	U	10.	U	10.	U	10.	U	11.	U
84-66-2	Diethylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	11.	U
7005-72-3	4-Chlorophenylphenylether	10.	U	10.	U	10.	U	10.	U	10.	U	11.	U
86-73-7	Fluorene	2.	J	7.	J	10.	U	10.	U	10.	U	11.	U
100-01-6	4-Nitroaniline	50.	U	50.	U	50.	U	50.	U	50.	U	57.	U
534-52-1	2-Methyl-4,6-Dinitrophenol	50.	U	50.	U	50.	U	50.	U	50.	U	57.	U
86-30-6	N-Nitrosodiphenylamine	10.	U	10.	U	10.	U	10.	U	10.	U	11.	U
101-55-3	4-Bromophenyl-phenylether	10.	U	10.	U	10.	U	10.	U	10.	U	11.	U
118-74-1	Hexachlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	11.	U
87-86-5	Pentachlorophenol	50.	U	50.	U	50.	U	50.	U	50.	U	57.	U
85-01-8	Phenanthrene	2.	J	8.	J	10.	U	10.	U	10.	U	11.	U
120-12-7	Anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	11.	U
84-74-2	Di-n-butylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	11.	U
206-44-0	Fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	11.	U
129-00-0	Pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	11.	U
85-68-7	Butylbenzylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	11.	U
91-94-1	3,3'-Dichlorobenzidine	20.	U	20.	U	20.	U	20.	U	20.	U	23.	U
56-55-3	Benzo(a)anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	11.	U
218-01-9	Chrysene	10.	U	10.	U	10.	U	10.	U	10.	U	11.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	10.	U	10.	U	10.	U	10.	U	10.	U	11.	U
117-84-0	Di-n-octyl phthalate	10.	U	10.	U	10.	U	10.	U	10.	U	11.	U
205-99-2	Benzo(b)fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	11.	U
207-08-9	Benzo(k)fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	11.	U
50-32-8	Benzo(a)pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	11.	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	11.	U
53-70-3	Dibenz(a,h)anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	11.	U
191-24-2	Benzo(g,h,i)perylene	10.	U	10.	U	10.	U	10.	U	10.	U	11.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-SVOA	SAMPLE ID ------>	FDS-G-W06B-01	FDS-G-W06B-02	FDS-G-W06C-01	FDS-G-W06C-02	FDS-G-W07A-01	FDS-G-W07A-02
	ORIGINAL ID ----->	FDSGW06B01	FDSGW06B02	FDSGW06C01	FDSGW06C02	FDSGW07A01	FDSGW07A02
	LAB SAMPLE ID --->	28223.05	29523.02	28223.06	29538.01	28343.01	29610.05
	ID FROM REPORT -->	FDSGW06B01	FDSGW06B02	FDSGW06C01	FDSGW06C02	FDSGW07A01	FDSGW07A02
	SAMPLE DATE ----->	01/20/97	05/20/97	01/20/97	05/30/97	01/29/97	06/05/97
	DATE EXTRACTED -->	01/22/97	05/30/97	01/22/97	06/02/97	01/31/97	06/06/97
	DATE ANALYZED --->	01/23/97	06/04/97	01/23/97	06/06/97	02/03/97	06/11/97
	MATRIX ---------->	Water	Water	Water	Water	Water	Water
	UNITS ---------->	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L

CAS #	Parameter	28217	VAL	29515	VAL	28217	VAL	29515	VAL	28308	VAL	29591	VAL
108-95-2	Phenol	10.	U	11.	U	10.	U	12.	U	10.	U	10.	U
111-44-4	bis(2-Chloroethyl)ether	10.	U	11.	U	10.	U	12.	U	10.	U	10.	U
95-57-8	2-Chlorophenol	10.	U	11.	U	10.	U	12.	U	10.	U	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U	11.	U	10.	U	12.	U	10.	U	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U	11.	U	10.	U	12.	U	10.	U	10.	U
100-51-6	Benzyl alcohol	10.	U	11.	U	10.	U	12.	U	10.	U	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U	11.	U	10.	U	12.	U	10.	U	10.	U
95-48-7	2-Methylphenol (o-Cresol)	10.	U	11.	U	10.	U	12.	U	10.	U	10.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10.	U	11.	U	10.	U	12.	U	10.	U	10.	U
106-44-5	4-Methylphenol (p-Cresol)	10.	U	11.	U	10.	U	12.	U	10.	U	1.	J
621-64-7	N-Nitroso-di-n-propylamine	10.	U	11.	U	10.	U	12.	U	10.	U	10.	U
67-72-1	Hexachloroethane	10.	U	11.	U	10.	U	12.	U	10.	U	10.	U
98-95-3	Nitrobenzene	10.	U	11.	U	10.	U	12.	U	10.	U	10.	U
78-59-1	Isophorone	10.	U	11.	U	10.	U	12.	U	10.	U	10.	U
88-75-5	2-Nitrophenol	10.	U	11.	U	10.	U	12.	U	10.	U	10.	U
105-67-9	2,4-Dimethylphenol	10.	U	11.	U	10.	U	12.	U	10.	U	10.	U
65-85-0	Benzoic acid	50.	U	57.	U	1.	J	59.	U	3.	J	50.	U
111-91-1	bis(2-Chloroethoxy)methane	10.	U	11.	U	10.	U	12.	U	10.	U	10.	U
120-83-2	2,4-Dichlorophenol	10.	U	11.	U	10.	U	12.	U	10.	U	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U	11.	U	10.	U	12.	U	10.	U	10.	U
91-20-3	Naphthalene	10.	U	11.	U	10.	U	12.	U	10.	U	10.	U
106-47-8	4-Chloroaniline	10.	U	11.	U	10.	U	12.	U	10.	U	10.	U
87-68-3	Hexachlorobutadiene	10.	U	11.	U	10.	U	12.	U	10.	U	10.	U
59-50-7	4-Chloro-3-methylphenol	10.	U	11.	U	10.	U	12.	U	10.	U	10.	U
91-57-6	2-Methylnaphthalene	85.		10.	J	10.	U	12.	U	10.	U	10.	U
77-47-4	Hexachlorocyclopentadiene	10.	U	11.	U	10.	U	12.	U	10.	U	10.	U
88-06-2	2,4,6-Trichlorophenol	10.	U	11.	U	10.	U	12.	U	10.	U	10.	U
95-95-4	2,4,5-Trichlorophenol	50.	U	57.	U	50.	U	59.	U	50.	U	50.	U
91-58-7	2-Chloronaphthalene	10.	U	11.	U	10.	U	12.	U	10.	U	10.	U
88-74-4	2-Nitroaniline	50.	U	57.	U	50.	U	59.	U	50.	U	50.	U
131-11-3	Dimethyl phthalate	10.	U	11.	U	10.	U	12.	U	10.	U	10.	U
208-96-8	Acenaphthylene	10.	U	11.	U	10.	U	12.	U	10.	U	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U	11.	U	10.	U	12.	U	10.	U	10.	U
99-09-2	3-Nitroaniline	50.	U	57.	U	50.	U	59.	U	50.	U	50.	U
83-32-9	Acenaphthene	7.	J	8.	J	10.	U	12.	U	10.	U	10.	U
51-28-5	2,4-Dinitrophenol	50.	U	57.	U	50.	U	59.	U	50.	U	50.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-SVOA													
	SAMPLE ID ------->	FDS-G-W06B-01		FDS-G-W06B-02		FDS-G-W06C-01		FDS-G-W06C-02		FDS-G-W07A-01		FDS-G-W07A-02	
	ORIGINAL ID ----->	FDSGW06B01		FDSGW06B02		FDSGW06C01		FDSGW06C02		FDSGW07A01		FDSGW07A02	
	LAB SAMPLE ID --->	28223.05		29523.02		28223.06		29538.01		28343.01		29610.05	
	ID FROM REPORT -->	FDSGW06B01		FDSGW06B02		FDSGW06C01		FDSGW06C02		FDSGW07A01		FDSGW07A02	
	SAMPLE DATE ----->	01/20/97		05/20/97		01/20/97		05/30/97		01/29/97		06/05/97	
	DATE EXTRACTED -->	01/22/97		05/30/97		01/22/97		06/02/97		01/31/97		06/06/97	
	DATE ANALYZED --->	01/23/97		06/04/97		01/23/97		06/06/97		02/03/97		06/11/97	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	28217	VAL	29515	VAL	28217	VAL	29515	VAL	28308	VAL	29591	VAL
100-02-7	4-Nitrophenol	50.	U	57.	U	50.	U	59.	U	50.	U	50.	U
132-64-9	Dibenzofuran	2.	J	2.	J	10.	U	12.	U	10.	U	10.	U
121-14-2	2,4-Dinitrotoluene	10.	U	11.	U	10.	U	12.	U	10.	U	10.	U
84-66-2	Diethylphthalate	10.	U	11.	U	10.	U	12.	U	10.	U	10.	U
7005-72-3	4-Chlorophenylphenylether	10.	U	11.	U	10.	U	12.	U	10.	U	10.	U
86-73-7	Fluorene	5.	J	5.	J	10.	U	12.	U	10.	U	10.	U
100-01-6	4-Nitroaniline	50.	U	57.	U	50.	U	59.	U	50.	U	50.	U
534-52-1	2-Methyl-4,6-Dinitrophenol	50.	U	57.	U	50.	U	59.	U	50.	U	50.	U
86-30-6	N-Nitrosodiphenylamine	10.	U	11.	U	10.	U	12.	U	10.	U	10.	U
101-55-3	4-Bromophenyl-phenylether	10.	U	11.	U	10.	U	12.	U	10.	U	10.	U
118-74-1	Hexachlorobenzene	10.	U	11.	U	10.	U	12.	U	10.	U	10.	U
87-86-5	Pentachlorophenol	50.	U	57.	U	50.	U	59.	U	50.	U	50.	U
85-01-8	Phenanthrene	7.	J	4.	J	10.	U	12.	U	10.	U	1.	J
120-12-7	Anthracene	10.	U	11.	U	10.	U	12.	U	10.	U	10.	U
84-74-2	Di-n-butylphthalate	10.	U	11.	U	10.	U	12.	U	1.	J	10.	U
206-44-0	Fluoranthene	10.	U	11.	U	10.	U	12.	U	10.	U	10.	U
129-00-0	Pyrene	10.	U	11.	U	10.	U	12.	U	10.	U	10.	U
85-68-7	Butylbenzylphthalate	10.	U	11.	U	10.	U	12.	U	10.	U	10.	U
91-94-1	3,3'-Dichlorobenzidine	20.	U	23.	U	20.	U	24.	U	20.	U	20.	U
56-55-3	Benzo(a)anthracene	10.	U	11.	U	10.	U	12.	U	10.	U	10.	U
218-01-9	Chrysene	10.	U	11.	U	10.	U	12.	U	10.	U	10.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	10.	U	11.	U	10.	U	12.	U	10.	U	10.	U
117-84-0	Di-n-octyl phthalate	10.	U	11.	U	10.	U	12.	U	10.	U	10.	U
205-99-2	Benzo(b)fluoranthene	10.	U	11.	U	10.	U	12.	U	10.	U	10.	U
207-08-9	Benzo(k)fluoranthene	10.	U	11.	U	10.	U	12.	U	10.	U	10.	U
50-32-8	Benzo(a)pyrene	10.	U	11.	U	10.	U	12.	U	10.	U	10.	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U	11.	U	10.	U	12.	U	10.	U	10.	U
53-70-3	Dibenz(a,h)anthracene	10.	U	11.	U	10.	U	12.	U	10.	U	10.	U
191-24-2	Benzo(g,h,i)perylene	10.	U	11.	U	10.	U	12.	U	10.	U	10.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-SVOA	SAMPLE ID ------>	FDS-G-W07B-01	FDS-G-W07B-02	FDS-G-W07C-01	FDS-G-W07C-02	FDS-G-W07D-01	FDS-G-W07D-02
	ORIGINAL ID ----->	FDSGW07B01	FDSGW07B02	FDSGW07C01	FDSGW07C02	FDSGW07D01	FDSGW07D02
	LAB SAMPLE ID --->	28209.01	29636.01	28209.02	29636.05	28279.01	29744.01
	ID FROM REPORT -->	FDSGW07B01	FDSGW07B02	FDSGW07C01	FDSGW07C02	FDSGW07D01	FDSGW07D02
	SAMPLE DATE ----->	01/17/97	06/09/97	01/17/97	06/09/97	01/24/97	06/17/97
	DATE EXTRACTED -->	01/19/97	06/10/97	01/19/97	06/10/97	01/27/97	06/21/97
	DATE ANALYZED --->	01/20/97	06/14/97	01/20/97	06/14/97	01/28/97	06/25/97
	MATRIX ---------->	Water	Water	Water	Water	Water	Water
	UNITS ---------->	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L

CAS #	Parameter	28185	VAL	29591	VAL	28185	VAL	29591	VAL	28249	VAL	29707	VAL
108-95-2	Phenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
111-44-4	bis(2-Chloroethyl)ether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-57-8	2-Chlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
100-51-6	Benzyl alcohol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-48-7	2-Methylphenol (o-Cresol)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
106-44-5	4-Methylphenol (p-Cresol)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
621-64-7	N-Nitroso-di-n-propylamine	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
67-72-1	Hexachloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
98-95-3	Nitrobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
78-59-1	Isophorone	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-75-5	2-Nitrophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
105-67-9	2,4-Dimethylphenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
65-85-0	Benzoic acid	50.	U	50.	U	5.	J	1.	J	50.	U	50.	U
111-91-1	bis(2-Chloroethoxy)methane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
120-83-2	2,4-Dichlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
91-20-3	Naphthalene	10.	U	3.	J	10.	U	10.	U	10.	U	24.	
106-47-8	4-Chloroaniline	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
87-68-3	Hexachlorobutadiene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
59-50-7	4-Chloro-3-methylphenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
91-57-6	2-Methylnaphthalene	1.	J	2.	J	1.	J	10.	U	10.	U	4.	J
77-47-4	Hexachlorocyclopentadiene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-06-2	2,4,6-Trichlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-95-4	2,4,5-Trichlorophenol	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
91-58-7	2-Chloronaphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-74-4	2-Nitroaniline	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
131-11-3	Dimethyl phthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
208-96-8	Acenaphthylene	10.	U	10.	U	10.	U	10.	U	10.	U	1.	J
606-20-2	2,6-Dinitrotoluene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
99-09-2	3-Nitroaniline	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
83-32-9	Acenaphthene	10.	U	2.	J	10.	U	1.	J	51.		71.	
51-28-5	2,4-Dinitrophenol	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-SVOA													
	SAMPLE ID ------->	FDS-G-W07B-01		FDS-G-W07B-02		FDS-G-W07C-01		FDS-G-W07C-02		FDS-G-W07D-01		FDS-G-W07D-02	
	ORIGINAL ID ----->	FDSGW07B01		FDSGW07B02		FDSGW07C01		FDSGW07C02		FDSGW07D01		FDSGW07D02	
	LAB SAMPLE ID --->	28209.01		29636.01		28209.02		29636.05		28279.01		29744.01	
	ID FROM REPORT -->	FDSGW07B01		FDSGW07B02		FDSGW07C01		FDSGW07C02		FDSGW07D01		FDSGW07D02	
	SAMPLE DATE ----->	01/17/97		06/09/97		01/17/97		06/09/97		01/24/97		06/17/97	
	DATE EXTRACTED -->	01/19/97		06/10/97		01/19/97		06/10/97		01/27/97		06/21/97	
	DATE ANALYZED --->	01/20/97		06/14/97		01/20/97		06/14/97		01/28/97		06/25/97	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	28185	VAL	29591	VAL	28185	VAL	29591	VAL	28249	VAL	29707	VAL
100-02-7	4-Nitrophenol	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
132-64-9	Dibenzofuran	10.	U	2.	J	10.	U	1.	J	9.	J	16.	
121-14-2	2,4-Dinitrotoluene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
84-66-2	Diethylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
7005-72-3	4-Chlorophenylphenylether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
86-73-7	Fluorene	2.	J	3.	J	2.	J	2.	J	20.		30.	
100-01-6	4-Nitroaniline	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
534-52-1	2-Methyl-4,6-Dinitrophenol	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
86-30-6	N-Nitrosodiphenylamine	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
101-55-3	4-Bromophenyl-phenylether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
118-74-1	Hexachlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
87-86-5	Pentachlorophenol	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
85-01-8	Phenanthrene	10.	U	2.	J	10.	U	1.	J	11.		20.	
120-12-7	Anthracene	10.	U	10.	U	10.	U	10.	U	2.	J	5.	J
84-74-2	Di-n-butylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
206-44-0	Fluoranthene	10.	U	10.	U	10.	U	10.	U	1.	J	1.	J
129-00-0	Pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
85-68-7	Butylbenzylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
91-94-1	3,3'-Dichlorobenzidine	20.	U	20.	U	20.	U	20.	U	20.	U	20.	U
56-55-3	Benzo(a)anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
218-01-9	Chrysene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
117-84-0	Di-n-octyl phthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
205-99-2	Benzo(b)fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
207-08-9	Benzo(k)fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
50-32-8	Benzo(a)pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
53-70-3	Dibenz(a,h)anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
191-24-2	Benzo(g,h,i)perylene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-SVOA	SAMPLE ID ------->	FDS-G-W08A-01	FDS-G-W08A-02	FDS-G-W08B-01	FDS-G-W08B-02	FDS-G-W08C-01	FDS-G-W08C-02
	ORIGINAL ID ----->	FDSGW08A01	FDSGW08A02	FDSGW08B01	FDSGW08B02	FDSGW08C01	FDSGW08C02
	LAB SAMPLE ID --->	28279.02	29610.03	28295.10	29636.06	28279.03	29636.07
	ID FROM REPORT -->	FDSGW08A01	FDSGW08A02	FDSGW08B01	FDSGW08B02	FDSGW08C01	FDSGW08C02
	SAMPLE DATE ----->	01/24/97	06/05/97	01/25/97	06/09/97	01/24/97	06/09/97
	DATE EXTRACTED -->	01/27/97	06/06/97	01/20/97	06/10/97	01/27/97	06/10/97
	DATE ANALYZED --->	01/28/97	06/11/97	02/03/97	06/16/97	01/28/97	06/16/97
	MATRIX ---------->	Water	Water	Water	Water	Water	Water
	UNITS ---------->	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L

CAS #	Parameter	28249	VAL	29591	VAL	28249	VAL	29591	VAL	28249	VAL	29591	VAL
108-95-2	Phenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
111-44-4	bis(2-Chloroethyl)ether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-57-8	2-Chlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
100-51-6	Benzyl alcohol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-48-7	2-Methylphenol (o-Cresol)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
106-44-5	4-Methylphenol (p-Cresol)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
621-64-7	N-Nitroso-di-n-propylamine	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
67-72-1	Hexachloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
98-95-3	Nitrobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
78-59-1	Isophorone	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-75-5	2-Nitrophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
105-67-9	2,4-Dimethylphenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
65-85-0	Benzoic acid	50.	U	50.	U	2.	J	1.	J	50.	U	50.	U
111-91-1	bis(2-Chloroethoxy)methane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
120-83-2	2,4-Dichlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
91-20-3	Naphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
106-47-8	4-Chloroaniline	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
87-68-3	Hexachlorobutadiene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
59-50-7	4-Chloro-3-methylphenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
91-57-6	2-Methylnaphthalene	10.	U	10.	U	2.	J	2.	J	10.	U	10.	U
77-47-4	Hexachlorocyclopentadiene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-06-2	2,4,6-Trichlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-95-4	2,4,5-Trichlorophenol	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
91-58-7	2-Chloronaphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-74-4	2-Nitroaniline	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
131-11-3	Dimethyl phthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
208-96-8	Acenaphthylene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
99-09-2	3-Nitroaniline	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
83-32-9	Acenaphthene	10.	U	10.	U	17.		6.	J	10.	U	10.	U
51-28-5	2,4-Dinitrophenol	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-SVOA													
	SAMPLE ID ------->	FDS-G-W08A-01		FDS-G-W08A-02		FDS-G-W08B-01		FDS-G-W08B-02		FDS-G-W08C-01		FDS-G-W08C-02	
	ORIGINAL ID ----->	FDSGW08A01		FDSGW08A02		FDSGW08B01		FDSGW08B02		FDSGW08C01		FDSGW08C02	
	LAB SAMPLE ID --->	28279.02		29610.03		28295.10		29636.06		28279.03		29636.07	
	ID FROM REPORT -->	FDSGW08A01		FDSGW08A02		FDSGW08B01		FDSGW08B02		FDSGW08C01		FDSGW08C02	
	SAMPLE DATE ----->	01/24/97		06/05/97		01/25/97		06/09/97		01/24/97		06/09/97	
	DATE EXTRACTED -->	01/27/97		06/06/97		01/20/97		06/10/97		01/27/97		06/10/97	
	DATE ANALYZED --->	01/28/97		06/11/97		02/03/97		06/16/97		01/28/97		06/16/97	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	28249	VAL	29591	VAL	28249	VAL	29591	VAL	28249	VAL	29591	VAL
100-02-7	4-Nitrophenol	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
132-64-9	Dibenzofuran	10.	U	10.	U	4.	J	2.	J	10.	U	10.	U
121-14-2	2,4-Dinitrotoluene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
84-66-2	Diethylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
7005-72-3	4-Chlorophenylphenylether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
86-73-7	Fluorene	10.	U	10.	U	9.	J	4.	J	10.	U	10.	U
100-01-6	4-Nitroaniline	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
534-52-1	2-Methyl-4,6-Dinitrophenol	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
86-30-6	N-Nitrosodiphenylamine	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
101-55-3	4-Bromophenyl-phenylether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
118-74-1	Hexachlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
87-86-5	Pentachlorophenol	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
85-01-8	Phenanthrene	10.	U	10.	U	6.	J	5.	J	10.	U	10.	U
120-12-7	Anthracene	10.	U	10.	U	2.	J	10.	U	10.	U	10.	U
84-74-2	Di-n-butylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
206-44-0	Fluoranthene	10.	U	10.	U	6.	J	4.	J	10.	U	10.	U
129-00-0	Pyrene	10.	U	10.	U	4.	J	2.	J	10.	U	10.	U
85-68-7	Butylbenzylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	1.	J
91-94-1	3,3'-Dichlorobenzidine	20.	U	20.	U	20.	U	20.	U	20.	U	20.	U
56-55-3	Benzo(a)anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
218-01-9	Chrysene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
117-84-0	Di-n-octyl phthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
205-99-2	Benzo(b)fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
207-08-9	Benzo(k)fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
50-32-8	Benzo(a)pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
53-70-3	Dibenz(a,h)anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
191-24-2	Benzo(g,h,i)perylene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-SVOA	SAMPLE ID ------>	FDS-H-W08C-02	FDS-G-W09A-01	FDS-G-W09A-02	FDS-G-W09B-01	FDS-G-W09B-02	FDS-H-W09B-02
	ORIGINAL ID ----->	FDSHW08C02	FDSGW09A01	FDSGW09A02	FDSGW09B01	FDSGW09B02	FDSHW09B02
	LAB SAMPLE ID --->	29636.08	28227.06	29656.04	28227.08	29656.06	29656.07
	ID FROM REPORT -->	FDSHW08C02	FDSGW09A01	FDSGW09A02	FDSGW09B01	FDSGW09B02	FDSHW09B02
	SAMPLE DATE ----->	06/09/97	01/21/97	06/10/97	01/21/97	06/10/97	06/10/97
	DATE EXTRACTED -->	06/10/97	01/22/97	06/11/97	01/22/97	06/11/97	06/11/97
	DATE ANALYZED --->	06/16/97	01/24/97	06/16/97	01/27/97	06/17/97	06/17/97
	MATRIX ---------->	Water	Water	Water	Water	Water	Water
	UNITS ---------->	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L

CAS #	Parameter	29591	VAL	28217	VAL	29656	VAL	28217	VAL	29656	VAL	29656	VAL
108-95-2	Phenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
111-44-4	bis(2-Chloroethyl)ether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-57-8	2-Chlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
100-51-6	Benzyl alcohol	3.	J	10.	U	10.	U	10.	U	10.	U	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-48-7	2-Methylphenol (o-Cresol)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
106-44-5	4-Methylphenol (p-Cresol)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
621-64-7	N-Nitroso-di-n-propylamine	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
67-72-1	Hexachloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
98-95-3	Nitrobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
78-59-1	Isophorone	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-75-5	2-Nitrophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
105-67-9	2,4-Dimethylphenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
65-85-0	Benzoic acid	50.	U	50.	U	50.	U	50.	UJ	50.	U	50.	U
111-91-1	bis(2-Chloroethoxy)methane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
120-83-2	2,4-Dichlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
91-20-3	Naphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
106-47-8	4-Chloroaniline	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
87-68-3	Hexachlorobutadiene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
59-50-7	4-Chloro-3-methylphenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
91-57-6	2-Methylnaphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
77-47-4	Hexachlorocyclopentadiene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-06-2	2,4,6-Trichlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-95-4	2,4,5-Trichlorophenol	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
91-58-7	2-Chloronaphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-74-4	2-Nitroaniline	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
131-11-3	Dimethyl phthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
208-96-8	Acenaphthylene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
99-09-2	3-Nitroaniline	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
83-32-9	Acenaphthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
51-28-5	2,4-Dinitrophenol	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-SVOA	SAMPLE ID ------>	FDS-H-W08C-02		FDS-G-W09A-01		FDS-G-W09A-02		FDS-G-W09B-01		FDS-G-W09B-02		FDS-H-W09B-02	
	ORIGINAL ID ----->	FDSHW08C02		FDSGW09A01		FDSGW09A02		FDSGW09B01		FDSGW09B02		FDSHW09B02	
	LAB SAMPLE ID --->	29636.08		28227.06		29656.04		28227.08		29656.06		29656.07	
	ID FROM REPORT -->	FDSHW08C02		FDSGW09A01		FDSGW09A02		FDSGW09B01		FDSGW09B02		FDSHW09B02	
	SAMPLE DATE ----->	06/09/97		01/21/97		06/10/97		01/21/97		06/10/97		06/10/97	
	DATE EXTRACTED -->	06/10/97		01/22/97		06/11/97		01/22/97		06/11/97		06/11/97	
	DATE ANALYZED --->	06/16/97		01/24/97		06/16/97		01/27/97		06/17/97		06/17/97	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ----------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	29591	VAL	28217	VAL	29656	VAL	28217	VAL	29656	VAL	29656	VAL
100-02-7	4-Nitrophenol	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
132-64-9	Dibenzofuran	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
121-14-2	2,4-Dinitrotoluene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
84-66-2	Diethylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
7005-72-3	4-Chlorophenylphenylether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
86-73-7	Fluorene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
100-01-6	4-Nitroaniline	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
534-52-1	2-Methyl-4,6-Dinitrophenol	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
86-30-6	N-Nitrosodiphenylamine	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
101-55-3	4-Bromophenyl-phenylether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
118-74-1	Hexachlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
87-86-5	Pentachlorophenol	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
85-01-8	Phenanthrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	J
120-12-7	Anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
84-74-2	Di-n-butylphthalate	1.	J	10.	U	10.	U	10.	U	10.	U	10.	U
206-44-0	Fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
129-00-0	Pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
85-68-7	Butylbenzylphthalate	9.	J	10.	U	10.	U	10.	U	10.	U	10.	U
91-94-1	3,3'-Dichlorobenzidine	20.	U	20.	U	20.	U	20.	U	20.	U	20.	U
56-55-3	Benzo(a)anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
218-01-9	Chrysene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
117-84-0	Di-n-octyl phthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
205-99-2	Benzo(b)fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
207-08-9	Benzo(k)fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
50-32-8	Benzo(a)pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
53-70-3	Dibenz(a,h)anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
191-24-2	Benzo(g,h,i)perylene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-SVOA	SAMPLE ID ------>	FDS-G-W09C-01	FDS-G-W09C-02	FDS-G-W10A-01	FDS-G-W10A-02	FDS-G-W10B-01	FDS-G-W10B-02
	ORIGINAL ID ----->	FDSGW09C01	FDSGW09C02	FDSGW10A01	FDSGW10A02	FDSGW10B01	FDSGW10B02
	LAB SAMPLE ID --->	28227.07	29656.05	28227.01	29656.01	28227.02	29656.02
	ID FROM REPORT -->	FDSGW09C01	FDSGW09C02	FDSGW10A01	FDSGW10A02	FDSGW10B01	FDSGW10B02
	SAMPLE DATE ----->	01/21/97	06/10/97	01/21/97	06/10/97	01/21/97	06/10/97
	DATE EXTRACTED -->	01/22/97	06/11/97	01/22/97	06/11/97	01/22/97	06/11/97
	DATE ANALYZED --->	01/24/97	06/17/97	01/24/97	06/16/97	01/24/97	06/16/97
	MATRIX ---------->	Water	Water	Water	Water	Water	Water
	UNITS ---------->	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L

CAS #	Parameter	28217	VAL	29656	VAL	28217	VAL	29656	VAL	28217	VAL	29656	VAL
108-95-2	Phenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
111-44-4	bis(2-Chloroethyl)ether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-57-8	2-Chlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
100-51-6	Benzyl alcohol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-48-7	2-Methylphenol (o-Cresol)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
106-44-5	4-Methylphenol (p-Cresol)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
621-64-7	N-Nitroso-di-n-propylamine	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
67-72-1	Hexachloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
98-95-3	Nitrobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
78-59-1	Isophorone	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-75-5	2-Nitrophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
105-67-9	2,4-Dimethylphenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
65-85-0	Benzoic acid	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
111-91-1	bis(2-Chloroethoxy)methane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
120-83-2	2,4-Dichlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
91-20-3	Naphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
106-47-8	4-Chloroaniline	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
87-68-3	Hexachlorobutadiene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
59-50-7	4-Chloro-3-methylphenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
91-57-6	2-Methylnaphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
77-47-4	Hexachlorocyclopentadiene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-06-2	2,4,6-Trichlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-95-4	2,4,5-Trichlorophenol	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
91-58-7	2-Chloronaphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-74-4	2-Nitroaniline	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
131-11-3	Dimethyl phthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
208-96-8	Acenaphthylene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
99-09-2	3-Nitroaniline	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
83-32-9	Acenaphthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
51-28-5	2,4-Dinitrophenol	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-SVOA	SAMPLE ID ------->	FDS-G-W09C-01	FDS-G-W09C-02	FDS-G-W10A-01	FDS-G-W10A-02	FDS-G-W10B-01	FDS-G-W10B-02
	ORIGINAL ID ----->	FDSGW09C01	FDSGW09C02	FDSGW10A01	FDSGW10A02	FDSGW10B01	FDSGW10B02
	LAB SAMPLE ID --->	28227.07	29656.05	28227.01	29656.01	28227.02	29656.02
	ID FROM REPORT -->	FDSGW09C01	FDSGW09C02	FDSGW10A01	FDSGW10A02	FDSGW10B01	FDSGW10B02
	SAMPLE DATE ----->	01/21/97	06/10/97	01/21/97	06/10/97	01/21/97	06/10/97
	DATE EXTRACTED -->	01/22/97	06/11/97	01/22/97	06/11/97	01/22/97	06/11/97
	DATE ANALYZED --->	01/24/97	06/17/97	01/24/97	06/16/97	01/24/97	06/16/97
	MATRIX ---------->	Water	Water	Water	Water	Water	Water
	UNITS ---------->	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L

CAS #	Parameter	28217	VAL	29656	VAL	28217	VAL	29656	VAL	28217	VAL	29656	VAL
100-02-7	4-Nitrophenol	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
132-64-9	Dibenzofuran	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
121-14-2	2,4-Dinitrotoluene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
84-66-2	Diethylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
7005-72-3	4-Chlorophenylphenylether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
86-73-7	Fluorene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
100-01-6	4-Nitroaniline	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
534-52-1	2-Methyl-4,6-Dinitrophenol	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
86-30-6	N-Nitrosodiphenylamine	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
101-55-3	4-Bromophenyl-phenylether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
118-74-1	Hexachlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
87-86-5	Pentachlorophenol	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
85-01-8	Phenanthrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
120-12-7	Anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
84-74-2	Di-n-butylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
206-44-0	Fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
129-00-0	Pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
85-68-7	Butylbenzylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
91-94-1	3,3'-Dichlorobenzidine	20.	U	20.	U	20.	U	20.	U	20.	U	20.	U
56-55-3	Benzo(a)anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
218-01-9	Chrysene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	58.	U	10.	U	10.	U	10.	U	10.	U	10.	J
117-84-0	Di-n-octyl phthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
205-99-2	Benzo(b)fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
207-08-9	Benzo(k)fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
50-32-8	Benzo(a)pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
53-70-3	Dibenz(a,h)anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
191-24-2	Benzo(g,h,i)perylene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-SVOA													
	SAMPLE ID ------>	FDS-G-W10C-01		FDS-G-W10C-02		FDS-G-W11A-01		FDS-G-W11A-02		FDS-G-W11B-01		FDS-G-W11B-02	
	ORIGINAL ID ----->	FDSGW10C01		FDSGW10C02		FDSGW11A01		FDSGW11A02		FDSGW11B01		FDSGW11B02	
	LAB SAMPLE ID --->	28227.03		29656.03		28308.07		29678.01		28308.08		29678.02	
	ID FROM REPORT -->	FDSGW10C01		FDSGW10C02		FDSGW11A01		FDSGW11A02		FDSGW11B01		FDSGW11B02	
	SAMPLE DATE ----->	01/21/97		06/10/97		01/28/97		06/11/97		01/28/97		06/11/97	
	DATE EXTRACTED -->	01/22/97		06/11/97		01/29/97		06/13/97		01/29/97		06/13/97	
	DATE ANALYZED --->	01/24/97		06/16/97		01/31/97		06/18/97		01/31/97		06/18/97	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ----------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	28217	VAL	29656	VAL	28308	VAL	29656	VAL	28308	VAL	29656	VAL
108-95-2	Phenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
111-44-4	bis(2-Chloroethyl)ether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-57-8	2-Chlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
100-51-6	Benzyl alcohol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-48-7	2-Methylphenol (o-Cresol)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
106-44-5	4-Methylphenol (p-Cresol)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
621-64-7	N-Nitroso-di-n-propylamine	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
67-72-1	Hexachloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
98-95-3	Nitrobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
78-59-1	Isophorone	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-75-5	2-Nitrophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
105-67-9	2,4-Dimethylphenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
65-85-0	Benzoic acid	50.	U	50.	U	7.	J	50.	U	50.	U	50.	U
111-91-1	bis(2-Chloroethoxy)methane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
120-83-2	2,4-Dichlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
91-20-3	Naphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
106-47-8	4-Chloroaniline	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
87-68-3	Hexachlorobutadiene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
59-50-7	4-Chloro-3-methylphenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
91-57-6	2-Methylnaphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
77-47-4	Hexachlorocyclopentadiene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-06-2	2,4,6-Trichlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-95-4	2,4,5-Trichlorophenol	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
91-58-7	2-Chloronaphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-74-4	2-Nitroaniline	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
131-11-3	Dimethyl phthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
208-96-8	Acenaphthylene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
99-09-2	3-Nitroaniline	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
83-32-9	Acenaphthene	10.	U	10.	U	1.	J	2.	J	10.	U	10.	U
51-28-5	2,4-Dinitrophenol	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-SVOA	SAMPLE ID ------->	FDS-G-W10C-01	FDS-G-W10C-02	FDS-G-W11A-01	FDS-G-W11A-02	FDS-G-W11B-01	FDS-G-W11B-02
	ORIGINAL ID ----->	FDSGW10C01	FDSGW10C02	FDSGW11A01	FDSGW11A02	FDSGW11B01	FDSGW11B02
	LAB SAMPLE ID --->	28227.03	29656.03	28308.07	29678.01	28308.08	29678.02
	ID FROM REPORT -->	FDSGW10C01	FDSGW10C02	FDSGW11A01	FDSGW11A02	FDSGW11B01	FDSGW11B02
	SAMPLE DATE ----->	01/21/97	06/10/97	01/28/97	06/11/97	01/28/97	06/11/97
	DATE EXTRACTED -->	01/22/97	06/11/97	01/29/97	06/13/97	01/29/97	06/13/97
	DATE ANALYZED --->	01/24/97	06/16/97	01/31/97	06/18/97	01/31/97	06/18/97
	MATRIX ---------->	Water	Water	Water	Water	Water	Water
	UNITS ---------->	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L

CAS #	Parameter	28217	VAL	29656	VAL	28308	VAL	29656	VAL	28308	VAL	29656	VAL
100-02-7	4-Nitrophenol	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
132-64-9	Dibenzofuran	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
121-14-2	2,4-Dinitrotoluene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
84-66-2	Diethylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
7005-72-3	4-Chlorophenylphenylether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
86-73-7	Fluorene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
100-01-6	4-Nitroaniline	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
534-52-1	2-Methyl-4,6-Dinitrophenol	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
86-30-6	N-Nitrosodiphenylamine	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
101-55-3	4-Bromophenyl-phenylether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
118-74-1	Hexachlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
87-86-5	Pentachlorophenol	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
85-01-8	Phenanthrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
120-12-7	Anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
84-74-2	Di-n-butylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
206-44-0	Fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
129-00-0	Pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
85-68-7	Butylbenzylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
91-94-1	3,3'-Dichlorobenzidine	20.	U	20.	U	20.	U	20.	U	20.	U	20.	U
56-55-3	Benzo(a)anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
218-01-9	Chrysene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
117-84-0	Di-n-octyl phthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
205-99-2	Benzo(b)fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
207-08-9	Benzo(k)fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
50-32-8	Benzo(a)pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
53-70-3	Dibenz(a,h)anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
191-24-2	Benzo(g,h,i)perylene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-SVOA													
	SAMPLE ID ------->	FDS-G-W11C-01		FDS-G-W11C-02		FDS-H-W11C-02		FDS-G-W12A-01		FDS-G-W12A-02		FDS-H-W12A-02	
	ORIGINAL ID ----->	FDSGW11C01		FDSGW11C02		FDSHW11C02		FDSGW12A01		FDSGW12A02		FDSHW12A02	
	LAB SAMPLE ID --->	28308.09		29678.03		29678.04		28295.05		29678.07		29678.08	
	ID FROM REPORT -->	FDSGW11C01		FDSGW11C02		FDSHW11C02		FDSGW12A01		FDSGW12A02		FDSHW12A02	
	SAMPLE DATE ----->	01/28/97		06/11/97		06/11/97		01/27/97		06/11/97		06/11/97	
	DATE EXTRACTED -->	01/29/97		06/13/97		06/13/97		02/03/97		06/13/97		06/13/97	
	DATE ANALYZED --->	01/31/97		06/18/97		06/18/97		02/03/97		06/18/97		06/18/97	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	28308	VAL	29656	VAL	29656	VAL	28249	VAL	29656	VAL	29656	VAL
108-95-2	Phenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
111-44-4	bis(2-Chloroethyl)ether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-57-8	2-Chlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
100-51-6	Benzyl alcohol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-48-7	2-Methylphenol (o-Cresol)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
106-44-5	4-Methylphenol (p-Cresol)	10.	U	2.	J	10.	U	10.	U	10.	U	10.	U
621-64-7	N-Nitroso-di-n-propylamine	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
67-72-1	Hexachloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
98-95-3	Nitrobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
78-59-1	Isophorone	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-75-5	2-Nitrophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
105-67-9	2,4-Dimethylphenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
65-85-0	Benzoic acid	50.	U	25.	J	12.	J	50.	U	50.	U	50.	U
111-91-1	bis(2-Chloroethoxy)methane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
120-83-2	2,4-Dichlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
91-20-3	Naphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
106-47-8	4-Chloroaniline	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
87-68-3	Hexachlorobutadiene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
59-50-7	4-Chloro-3-methylphenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
91-57-6	2-Methylnaphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
77-47-4	Hexachlorocyclopentadiene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-06-2	2,4,6-Trichlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-95-4	2,4,5-Trichlorophenol	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
91-58-7	2-Chloronaphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-74-4	2-Nitroaniline	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
131-11-3	Dimethyl phthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
208-96-8	Acenaphthylene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
99-09-2	3-Nitroaniline	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
83-32-9	Acenaphthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
51-28-5	2,4-Dinitrophenol	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-SVOA	SAMPLE ID ------>	FDS-G-W11C-01	FDS-G-W11C-02	FDS-H-W11C-02	FDS-G-W12A-01	FDS-G-W12A-02	FDS-H-W12A-02
	ORIGINAL ID ----->	FDSGW11C01	FDSGW11C02	FDSHW11C02	FDSGW12A01	FDSGW12A02	FDSHW12A02
	LAB SAMPLE ID --->	28308.09	29678.03	29678.04	28295.05	29678.07	29678.08
	ID FROM REPORT -->	FDSGW11C01	FDSGW11C02	FDSHW11C02	FDSGW12A01	FDSGW12A02	FDSHW12A02
	SAMPLE DATE ----->	01/28/97	06/11/97	06/11/97	01/27/97	06/11/97	06/11/97
	DATE EXTRACTED -->	01/29/97	06/13/97	06/13/97	02/03/97	06/13/97	06/13/97
	DATE ANALYZED --->	01/31/97	06/18/97	06/18/97	02/03/97	06/18/97	06/18/97
	MATRIX ---------->	Water	Water	Water	Water	Water	Water
	UNITS ---------->	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L

CAS #	Parameter	28308	VAL	29656	VAL	29656	VAL	28249	VAL	29656	VAL	29656	VAL
100-02-7	4-Nitrophenol	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
132-64-9	Dibenzofuran	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
121-14-2	2,4-Dinitrotoluene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
84-66-2	Diethylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
7005-72-3	4-Chlorophenylphenylether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
86-73-7	Fluorene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
100-01-6	4-Nitroaniline	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
534-52-1	2-Methyl-4,6-Dinitrophenol	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
86-30-6	N-Nitrosodiphenylamine	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
101-55-3	4-Bromophenyl-phenylether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
118-74-1	Hexachlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
87-86-5	Pentachlorophenol	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
85-01-8	Phenanthrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
120-12-7	Anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
84-74-2	Di-n-butylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
206-44-0	Fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
129-00-0	Pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
85-68-7	Butylbenzylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
91-94-1	3,3'-Dichlorobenzidine	20.	U	20.	U	20.	U	20.	U	20.	U	20.	U
56-55-3	Benzo(a)anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
218-01-9	Chrysene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	10.	U	10.	U	16.	U	10.	U	10.	U	10.	U
117-84-0	Di-n-octyl phthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
205-99-2	Benzo(b)fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
207-08-9	Benzo(k)fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
50-32-8	Benzo(a)pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
53-70-3	Dibenz(a,h)anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
191-24-2	Benzo(g,h,i)perylene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-SVOA													
	SAMPLE ID ------>	FDS-G-W12B-01		FDS-G-W12B-02		FDS-G-W13A-01		FDS-G-W13A-02		FDS-G-W13B-01		FDS-G-W13B-02	
	ORIGINAL ID ----->	FDSGW12B01		FDSGW12B02		FDSGW13A01		FDSGW13A02		FDSGW13B01		FDSGW13B02	
	LAB SAMPLE ID --->	28295.07		29678.06		28295.04		29678.05		28295.03		29707.01	
	ID FROM REPORT -->	FDSGW12B01		FDSGW12B02		FDSGW13A01		FDSGW13A02		FDSGW13B01		FDSGW13B02	
	SAMPLE DATE ----->	01/27/97		06/11/97		01/27/97		06/11/97		01/27/97		06/13/97	
	DATE EXTRACTED -->	02/03/97		06/13/97		01/20/97		06/13/97		01/20/97		06/16/97	
	DATE ANALYZED --->	01/31/97		06/18/97		01/30/97		06/18/97		01/30/97		06/20/97	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	28249	VAL	29656	VAL	28249	VAL	29656	VAL	28249	VAL	29707	VAL
108-95-2	Phenol	10.	UR	10.	U	10.	U	10.	U	10.	U	10.	U
111-44-4	bis(2-Chloroethyl)ether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-57-8	2-Chlorophenol	10.	UR	10.	U	10.	U	10.	U	10.	U	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
100-51-6	Benzyl alcohol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-48-7	2-Methylphenol (o-Cresol)	10.	UR	10.	U	10.	U	10.	U	10.	U	10.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
106-44-5	4-Methylphenol (p-Cresol)	10.	UR	10.	U	10.	U	10.	U	10.	U	10.	U
621-64-7	N-Nitroso-di-n-propylamine	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
67-72-1	Hexachloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
98-95-3	Nitrobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
78-59-1	Isophorone	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-75-5	2-Nitrophenol	10.	UR	10.	U	10.	U	10.	U	10.	U	10.	U
105-67-9	2,4-Dimethylphenol	10.	UR	10.	U	10.	U	10.	U	10.	U	10.	U
65-85-0	Benzoic acid	50.	UR	50.	U	2.	J	50.	U	2.	J	50.	U
111-91-1	bis(2-Chloroethoxy)methane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
120-83-2	2,4-Dichlorophenol	10.	UR	10.	U	10.	U	10.	U	10.	U	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
91-20-3	Naphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
106-47-8	4-Chloroaniline	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
87-68-3	Hexachlorobutadiene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
59-50-7	4-Chloro-3-methylphenol	10.	UR	10.	U	10.	U	10.	U	10.	U	10.	U
91-57-6	2-Methylnaphthalene	10.	U	10.	U	1.	J	5.	J	10.	U	10.	U
77-47-4	Hexachlorocyclopentadiene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-06-2	2,4,6-Trichlorophenol	10.	UR	10.	U	10.	U	10.	U	10.	U	10.	U
95-95-4	2,4,5-Trichlorophenol	50.	UR	50.	U	50.	U	50.	U	50.	U	50.	U
91-58-7	2-Chloronaphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-74-4	2-Nitroaniline	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
131-11-3	Dimethyl phthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
208-96-8	Acenaphthylene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
99-09-2	3-Nitroaniline	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
83-32-9	Acenaphthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
51-28-5	2,4-Dinitrophenol	50.	UR	50.	U	50.	U	50.	U	50.	U	50.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-SVOA													
	SAMPLE ID ------>	FDS-G-W12B-01		FDS-G-W12B-02		FDS-G-W13A-01		FDS-G-W13A-02		FDS-G-W13B-01		FDS-G-W13B-02	
	ORIGINAL ID ----->	FDSGW12B01		FDSGW12B02		FDSGW13A01		FDSGW13A02		FDSGW13B01		FDSGW13B02	
	LAB SAMPLE ID --->	28295.07		29678.06		28295.04		29678.05		28295.03		29707.01	
	ID FROM REPORT -->	FDSGW12B01		FDSGW12B02		FDSGW13A01		FDSGW13A02		FDSGW13B01		FDSGW13B02	
	SAMPLE DATE ----->	01/27/97		06/11/97		01/27/97		06/11/97		01/27/97		06/13/97	
	DATE EXTRACTED -->	02/03/97		06/13/97		01/20/97		06/13/97		01/20/97		06/16/97	
	DATE ANALYZED --->	01/31/97		06/18/97		01/30/97		06/18/97		01/30/97		06/20/97	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	28249	VAL	29656	VAL	28249	VAL	29656	VAL	28249	VAL	29707	VAL
100-02-7	4-Nitrophenol	50.	UR	50.	U	50.	U	50.	U	50.	U	50.	U
132-64-9	Dibenzofuran	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
121-14-2	2,4-Dinitrotoluene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
84-66-2	Diethylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
7005-72-3	4-Chlorophenylphenylether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
86-73-7	Fluorene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
100-01-6	4-Nitroaniline	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
534-52-1	2-Methyl-4,6-Dinitrophenol	50.	UR	50.	U	50.	U	50.	U	50.	U	50.	U
86-30-6	N-Nitrosodiphenylamine	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
101-55-3	4-Bromophenyl-phenylether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
118-74-1	Hexachlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
87-86-5	Pentachlorophenol	50.	UR	50.	U	50.	U	50.	U	50.	U	50.	U
85-01-8	Phenanthrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
120-12-7	Anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
84-74-2	Di-n-butylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
206-44-0	Fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
129-00-0	Pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
85-68-7	Butylbenzylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
91-94-1	3,3'-Dichlorobenzidine	20.	U	20.	U	20.	U	20.	U	20.	U	20.	U
56-55-3	Benzo(a)anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
218-01-9	Chrysene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	10.	U	10.	U	10.	U	10.	U	11.	U	39.	U
117-84-0	Di-n-octyl phthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
205-99-2	Benzo(b)fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
207-08-9	Benzo(k)fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
50-32-8	Benzo(a)pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
53-70-3	Dibenz(a,h)anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
191-24-2	Benzo(g,h,i)perylene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-SVOA	SAMPLE ID ------->	FDS-G-W13C-01	FDS-G-W13C-02	FDS-G-W13D-01	FDS-G-W13D-02	FDS-G-W13E-01	FDS-G-W13E-02
	ORIGINAL ID ----->	FDSGW13C01	FDSGW13C02	FDSGW13D01	FDSGW13D02	FDSGW13E01	FDSGW13E02
	LAB SAMPLE ID --->	28295.01	29697.03	28295.08	29697.04	28308.04	29707.02
	ID FROM REPORT -->	FDSGW13C01	FDSGW13C02	FDSGW13D01	FDSGW13D02	FDSGW13E01	FDSGW13E02
	SAMPLE DATE ----->	01/27/97	06/12/97	01/27/97	06/12/97	01/28/97	06/13/97
	DATE EXTRACTED -->	01/20/97	06/16/97	01/20/97	06/16/97	01/29/97	06/16/97
	DATE ANALYZED --->	01/30/97	06/20/97	01/31/97	06/20/97	01/30/97	06/20/97
	MATRIX ---------->	Water	Water	Water	Water	Water	Water
	UNITS ---------->	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L

CAS #	Parameter	28249	VAL	29656	VAL	28249	VAL	29656	VAL	28308	VAL	29707	VAL
108-95-2	Phenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
111-44-4	bis(2-Chloroethyl)ether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-57-8	2-Chlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
100-51-6	Benzyl alcohol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-48-7	2-Methylphenol (o-Cresol)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
106-44-5	4-Methylphenol (p-Cresol)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
621-64-7	N-Nitroso-di-n-propylamine	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
67-72-1	Hexachloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
98-95-3	Nitrobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
78-59-1	Isophorone	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-75-5	2-Nitrophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
105-67-9	2,4-Dimethylphenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
65-85-0	Benzoic acid	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
111-91-1	bis(2-Chloroethoxy)methane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
120-83-2	2,4-Dichlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
91-20-3	Naphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
106-47-8	4-Chloroaniline	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
87-68-3	Hexachlorobutadiene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
59-50-7	4-Chloro-3-methylphenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
91-57-6	2-Methylnaphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
77-47-4	Hexachlorocyclopentadiene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-06-2	2,4,6-Trichlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-95-4	2,4,5-Trichlorophenol	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
91-58-7	2-Chloronaphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-74-4	2-Nitroaniline	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
131-11-3	Dimethyl phthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
208-96-8	Acenaphthylene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
99-09-2	3-Nitroaniline	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
83-32-9	Acenaphthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
51-28-5	2,4-Dinitrophenol	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-SVOA	SAMPLE ID ------->	FDS-G-W13C-01	FDS-G-W13C-02	FDS-G-W13D-01	FDS-G-W13D-02	FDS-G-W13E-01	FDS-G-W13E-02
	ORIGINAL ID ----->	FDSGW13C01	FDSGW13C02	FDSGW13D01	FDSGW13D02	FDSGW13E01	FDSGW13E02
	LAB SAMPLE ID --->	28295.01	29697.03	28295.08	29697.04	28308.04	29707.02
	ID FROM REPORT -->	FDSGW13C01	FDSGW13C02	FDSGW13D01	FDSGW13D02	FDSGW13E01	FDSGW13E02
	SAMPLE DATE ----->	01/27/97	06/12/97	01/27/97	06/12/97	01/28/97	06/13/97
	DATE EXTRACTED -->	01/20/97	06/16/97	01/20/97	06/16/97	01/29/97	06/16/97
	DATE ANALYZED --->	01/30/97	06/20/97	01/31/97	06/20/97	01/30/97	06/20/97
	MATRIX ---------->	Water	Water	Water	Water	Water	Water
	UNITS ---------->	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L

CAS #	Parameter	28249	VAL	29656	VAL	28249	VAL	29656	VAL	28308	VAL	29707	VAL
100-02-7	4-Nitrophenol	50.	UR	50.	U	50.	UR	50.	U	50.	U	50.	U
132-64-9	Dibenzofuran	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
121-14-2	2,4-Dinitrotoluene	10.	UR	10.	U	10.	UR	10.	U	10.	U	10.	U
84-66-2	Diethylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
7005-72-3	4-Chlorophenylphenylether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
86-73-7	Fluorene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
100-01-6	4-Nitroaniline	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
534-52-1	2-Methyl-4,6-Dinitrophenol	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
86-30-6	N-Nitrosodiphenylamine	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
101-55-3	4-Bromophenyl-phenylether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
118-74-1	Hexachlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
87-86-5	Pentachlorophenol	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
85-01-8	Phenanthrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
120-12-7	Anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
84-74-2	Di-n-butylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
206-44-0	Fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
129-00-0	Pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
85-68-7	Butylbenzylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
91-94-1	3,3'-Dichlorobenzidine	20.	U	20.	U	20.	U	20.	U	20.	U	20.	U
56-55-3	Benzo(a)anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
218-01-9	Chrysene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
117-84-0	Di-n-octyl phthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
205-99-2	Benzo(b)fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
207-08-9	Benzo(k)fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
50-32-8	Benzo(a)pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
53-70-3	Dibenz(a,h)anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
191-24-2	Benzo(g,h,i)perylene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-SVOA	SAMPLE ID ------->	FDS-G-W14A-01	FDS-G-W14A-02	FDS-G-W14B-01	FDS-G-W14B-02	FDS-G-W14C-01	FDS-G-W14C-02
	ORIGINAL ID ----->	FDSGW14A01	FDSGW14A02	FDSGW14B01	FDSGW14B02	FDSGW14C01	FDSGW14C02
	LAB SAMPLE ID --->	28295.02	29697.01	28295.06	29697.02	28249.01	29707.03
	ID FROM REPORT -->	FDSGW14A01	FDSGW14A02	FDSGW14B01	FDSGW14B02	FDSGW14C01	FDSGW14C02
	SAMPLE DATE ----->	01/27/97	06/12/97	01/27/97	06/12/97	01/22/97	06/13/97
	DATE EXTRACTED -->	01/20/97	06/16/97	01/20/97	06/16/97	01/24/97	06/16/97
	DATE ANALYZED --->	01/30/97	06/20/97	01/31/97	06/20/97	01/27/97	06/20/97
	MATRIX ---------->	Water	Water	Water	Water	Water	Water
	UNITS ---------->	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L

CAS #	Parameter	28249	VAL	29656	VAL	28249	VAL	29656	VAL	28249	VAL	29707	VAL
108-95-2	Phenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
111-44-4	bis(2-Chloroethyl)ether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-57-8	2-Chlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
100-51-6	Benzyl alcohol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-48-7	2-Methylphenol (o-Cresol)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
106-44-5	4-Methylphenol (p-Cresol)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
621-64-7	N-Nitroso-di-n-propylamine	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
67-72-1	Hexachloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
98-95-3	Nitrobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
78-59-1	Isophorone	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-75-5	2-Nitrophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
105-67-9	2,4-Dimethylphenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
65-85-0	Benzoic acid	50.	U	2.	J	50.	U	1.	J	50.	U	50.	U
111-91-1	bis(2-Chloroethoxy)methane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
120-83-2	2,4-Dichlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
91-20-3	Naphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
106-47-8	4-Chloroaniline	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
87-68-3	Hexachlorobutadiene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
59-50-7	4-Chloro-3-methylphenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
91-57-6	2-Methylnaphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
77-47-4	Hexachlorocyclopentadiene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-06-2	2,4,6-Trichlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-95-4	2,4,5-Trichlorophenol	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
91-58-7	2-Chloronaphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-74-4	2-Nitroaniline	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
131-11-3	Dimethyl phthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
208-96-8	Acenaphthylene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
99-09-2	3-Nitroaniline	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
83-32-9	Acenaphthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
51-28-5	2,4-Dinitrophenol	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-SVOA													
	SAMPLE ID ------>	FDS-G-W14A-01		FDS-G-W14A-02		FDS-G-W14B-01		FDS-G-W14B-02		FDS-G-W14C-01		FDS-G-W14C-02	
	ORIGINAL ID ----->	FDSGW14A01		FDSGW14A02		FDSGW14B01		FDSGW14B02		FDSGW14C01		FDSGW14C02	
	LAB SAMPLE ID --->	28295.02		29697.01		28295.06		29697.02		28249.01		29707.03	
	ID FROM REPORT -->	FDSGW14A01		FDSGW14A02		FDSGW14B01		FDSGW14B02		FDSGW14C01		FDSGW14C02	
	SAMPLE DATE ----->	01/27/97		06/12/97		01/27/97		06/12/97		01/22/97		06/13/97	
	DATE EXTRACTED -->	01/20/97		06/16/97		01/20/97		06/16/97		01/24/97		06/16/97	
	DATE ANALYZED --->	01/30/97		06/20/97		01/31/97		06/20/97		01/27/97		06/20/97	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	28249	VAL	29656	VAL	28249	VAL	29656	VAL	28249	VAL	29707	VAL
100-02-7	4-Nitrophenol	50.	U	1.	J	50.	U	50.	U	50.	U	50.	U
132-64-9	Dibenzofuran	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
121-14-2	2,4-Dinitrotoluene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
84-66-2	Diethylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
7005-72-3	4-Chlorophenylphenylether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
86-73-7	Fluorene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
100-01-6	4-Nitroaniline	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
534-52-1	2-Methyl-4,6-Dinitrophenol	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
86-30-6	N-Nitrosodiphenylamine	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
101-55-3	4-Bromophenyl-phenylether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
118-74-1	Hexachlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
87-86-5	Pentachlorophenol	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
85-01-8	Phenanthrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
120-12-7	Anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
84-74-2	Di-n-butylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
206-44-0	Fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
129-00-0	Pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
85-68-7	Butylbenzylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
91-94-1	3,3'-Dichlorobenzidine	20.	U	20.	U	20.	U	20.	U	20.	U	20.	U
56-55-3	Benzo(a)anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
218-01-9	Chrysene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
117-84-0	Di-n-octyl phthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
205-99-2	Benzo(b)fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
207-08-9	Benzo(k)fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
50-32-8	Benzo(a)pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
53-70-3	Dibenz(a,h)anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
191-24-2	Benzo(g,h,i)perylene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-SVOA													
	SAMPLE ID ------>	FDS-G-W15A-01		FDS-G-W15A-02		FDS-G-W15B-01		FDS-G-W15B-02		FDS-G-W15C-01		FDS-G-W15C-02	
	ORIGINAL ID ----->	FDSGW15A01		FDSGW15A02		FDSGW15B01		FDSGW15B02		FDSGW15C01		FDSGW15C02	
	LAB SAMPLE ID --->	28308.01		29707.04		28308.02		29730.06		28308.03		29730.07	
	ID FROM REPORT -->	FDSGW15A01		FDSGW15A02		FDSGW15B01		FDSGW15B02		FDSGW15C01		FDSGW15C02	
	SAMPLE DATE ----->	01/28/97		06/13/97		01/28/97		06/16/97		01/28/97		06/16/97	
	DATE EXTRACTED -->	01/29/97		06/16/97		01/29/97		06/18/97		01/29/97		06/18/97	
	DATE ANALYZED --->	01/31/97		06/23/97		01/30/97		06/25/97		01/30/97		06/25/97	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	28308	VAL	29707	VAL	28308	VAL	29707	VAL	28308	VAL	29707	VAL
108-95-2	Phenol	1.	J	10.	U	10.	U	12.	U	10.	U	12.	U
111-44-4	bis(2-Chloroethyl)ether	10.	U	10.	U	10.	U	12.	U	10.	U	12.	U
95-57-8	2-Chlorophenol	10.	U	10.	U	10.	U	12.	U	10.	U	12.	U
541-73-1	1,3-Dichlorobenzene	10.	U	10.	U	10.	U	12.	U	10.	U	12.	U
106-46-7	1,4-Dichlorobenzene	10.	U	10.	U	10.	U	12.	U	10.	U	12.	U
100-51-6	Benzyl alcohol	10.	U	10.	U	10.	U	12.	U	10.	U	12.	U
95-50-1	1,2-Dichlorobenzene	10.	U	10.	U	10.	U	12.	U	10.	U	12.	U
95-48-7	2-Methylphenol (o-Cresol)	10.	U	10.	U	10.	U	12.	U	10.	U	12.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10.	U	10.	U	10.	U	12.	U	10.	U	12.	U
106-44-5	4-Methylphenol (p-Cresol)	23.		2.	J	10.	U	12.	U	10.	U	12.	U
621-64-7	N-Nitroso-di-n-propylamine	10.	U	10.	U	10.	U	12.	U	10.	U	12.	U
67-72-1	Hexachloroethane	10.	U	10.	U	10.	U	12.	U	10.	U	12.	U
98-95-3	Nitrobenzene	10.	U	10.	U	10.	U	12.	U	10.	U	12.	U
78-59-1	Isophorone	10.	U	10.	U	10.	U	12.	U	10.	U	12.	U
88-75-5	2-Nitrophenol	10.	U	10.	U	10.	U	12.	U	10.	U	12.	U
105-67-9	2,4-Dimethylphenol	10.	U	10.	U	10.	U	12.	U	10.	U	12.	U
65-85-0	Benzoic acid	6.	J	50.	U	50.	U	62.	U	50.	U	60.	U
111-91-1	bis(2-Chloroethoxy)methane	10.	U	10.	U	10.	U	12.	U	10.	U	12.	U
120-83-2	2,4-Dichlorophenol	10.	U	10.	U	10.	U	12.	U	10.	U	12.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U	10.	U	10.	U	12.	U	10.	U	12.	U
91-20-3	Naphthalene	10.	U	10.	U	10.	U	12.	U	10.	U	12.	U
106-47-8	4-Chloroaniline	10.	U	10.	U	10.	U	12.	U	10.	U	12.	U
87-68-3	Hexachlorobutadiene	10.	U	10.	U	10.	U	12.	U	10.	U	12.	U
59-50-7	4-Chloro-3-methylphenol	10.	U	10.	U	10.	U	12.	U	10.	U	12.	U
91-57-6	2-Methylnaphthalene	10.	U	10.	U	10.	U	12.	U	10.	U	12.	U
77-47-4	Hexachlorocyclopentadiene	10.	U	10.	U	10.	U	12.	U	10.	U	12.	U
88-06-2	2,4,6-Trichlorophenol	10.	U	10.	U	10.	U	12.	U	10.	U	12.	U
95-95-4	2,4,5-Trichlorophenol	50.	U	50.	U	50.	U	62.	U	50.	U	60.	U
91-58-7	2-Chloronaphthalene	10.	U	10.	U	10.	U	12.	U	10.	U	12.	U
88-74-4	2-Nitroaniline	50.	U	50.	U	50.	U	62.	U	50.	U	60.	U
131-11-3	Dimethyl phthalate	10.	U	10.	U	10.	U	12.	U	10.	U	12.	U
208-96-8	Acenaphthylene	10.	U	10.	U	10.	U	12.	U	10.	U	12.	U
606-20-2	2,6-Dinitrotoluene	10.	U	10.	U	10.	U	12.	U	10.	U	12.	U
99-09-2	3-Nitroaniline	50.	U	50.	U	50.	U	62.	U	50.	U	60.	U
83-32-9	Acenaphthene	10.	U	10.	U	10.	U	12.	U	10.	U	12.	U
51-28-5	2,4-Dinitrophenol	50.	U	50.	U	50.	U	62.	U	50.	U	60.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-SVOA													
	SAMPLE ID ------->	FDS-G-W15A-01		FDS-G-W15A-02		FDS-G-W15B-01		FDS-G-W15B-02		FDS-G-W15C-01		FDS-G-W15C-02	
	ORIGINAL ID ----->	FDSGW15A01		FDSGW15A02		FDSGW15B01		FDSGW15B02		FDSGW15C01		FDSGW15C02	
	LAB SAMPLE ID --->	28308.01		29707.04		28308.02		29730.06		28308.03		29730.07	
	ID FROM REPORT -->	FDSGW15A01		FDSGW15A02		FDSGW15B01		FDSGW15B02		FDSGW15C01		FDSGW15C02	
	SAMPLE DATE ----->	01/28/97		06/13/97		01/28/97		06/16/97		01/28/97		06/16/97	
	DATE EXTRACTED -->	01/29/97		06/16/97		01/29/97		06/18/97		01/29/97		06/18/97	
	DATE ANALYZED --->	01/31/97		06/23/97		01/30/97		06/25/97		01/30/97		06/25/97	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	28308	VAL	29707	VAL	28308	VAL	29707	VAL	28308	VAL	29707	VAL
100-02-7	4-Nitrophenol	50.	U	50.	U	50.	U	62.	U	50.	U	60.	U
132-64-9	Dibenzofuran	10.	U	10.	U	10.	U	12.	U	10.	U	12.	U
121-14-2	2,4-Dinitrotoluene	10.	U	10.	U	10.	U	12.	U	10.	U	12.	U
84-66-2	Diethylphthalate	10.	U	10.	U	10.	U	12.	U	10.	U	12.	U
7005-72-3	4-Chlorophenylphenylether	10.	U	10.	U	10.	U	12.	U	10.	U	12.	U
86-73-7	Fluorene	10.	U	10.	U	10.	U	12.	U	10.	U	12.	U
100-01-6	4-Nitroaniline	50.	U	50.	U	50.	U	62.	U	50.	U	60.	U
534-52-1	2-Methyl-4,6-Dinitrophenol	50.	U	50.	U	50.	U	62.	U	50.	U	60.	U
86-30-6	N-Nitrosodiphenylamine	10.	U	10.	U	10.	U	12.	U	10.	U	12.	U
101-55-3	4-Bromophenyl-phenylether	10.	U	10.	U	10.	U	12.	U	10.	U	12.	U
118-74-1	Hexachlorobenzene	10.	U	10.	U	10.	U	12.	U	10.	U	12.	U
87-86-5	Pentachlorophenol	50.	U	50.	U	50.	U	62.	U	50.	U	60.	U
85-01-8	Phenanthrene	10.	U	10.	U	10.	U	12.	U	10.	U	12.	U
120-12-7	Anthracene	10.	U	10.	U	10.	U	12.	U	10.	U	12.	U
84-74-2	Di-n-butylphthalate	10.	U	10.	U	10.	U	12.	U	10.	U	12.	U
206-44-0	Fluoranthene	10.	U	10.	U	10.	U	12.	U	10.	U	12.	U
129-00-0	Pyrene	10.	U	10.	U	10.	U	12.	U	10.	U	12.	U
85-68-7	Butylbenzylphthalate	10.	U	10.	U	10.	U	12.	U	10.	U	12.	U
91-94-1	3,3'-Dichlorobenzidine	20.	U	20.	U	20.	U	25.	U	20.	U	24.	U
56-55-3	Benzo(a)anthracene	10.	U	10.	U	10.	U	12.	U	10.	U	12.	U
218-01-9	Chrysene	10.	U	10.	U	10.	U	12.	U	10.	U	12.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	10.	U	10.	U	10.	U	12.	U	10.	U	12.	U
117-84-0	Di-n-octyl phthalate	10.	U	10.	U	10.	U	12.	U	10.	U	12.	U
205-99-2	Benzo(b)fluoranthene	10.	U	10.	U	10.	U	12.	U	10.	U	12.	U
207-08-9	Benzo(k)fluoranthene	10.	U	10.	U	10.	U	12.	U	10.	U	12.	U
50-32-8	Benzo(a)pyrene	10.	U	10.	U	10.	U	12.	U	10.	U	12.	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U	10.	U	10.	U	12.	U	10.	U	12.	U
53-70-3	Dibenz(a,h)anthracene	10.	U	10.	U	10.	U	12.	U	10.	U	12.	U
191-24-2	Benzo(g,h,i)perylene	10.	U	10.	U	10.	U	12.	U	10.	U	12.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-SVOA	SAMPLE ID ------->	FDS-G-W18A-01		FDS-G-W18A-02					
	ORIGINAL ID ----->	FDSGW18A01		FDSGW18A02					
	LAB SAMPLE ID --->	28328.05		29767.03					
	ID FROM REPORT -->	FDSGW18A01		FDSGW18A02					
	SAMPLE DATE ----->	01/29/97		06/18/97					
	DATE EXTRACTED -->	01/31/97		07/01/97					
	DATE ANALYZED --->	02/03/97		06/27/97					
	MATRIX ---------->	Water		Water					
	UNITS ---------->	UG/L		UG/L					
CAS #	Parameter	28308	VAL	29767	VAL				
108-95-2	Phenol	10.	U	10.	U				
111-44-4	bis(2-Chloroethyl)ether	10.	U	10.	U				
95-57-8	2-Chlorophenol	10.	U	10.	U				
541-73-1	1,3-Dichlorobenzene	10.	U	10.	U				
106-46-7	1,4-Dichlorobenzene	10.	U	10.	U				
100-51-6	Benzyl alcohol	10.	U	10.	U				
95-50-1	1,2-Dichlorobenzene	10.	U	10.	U				
95-48-7	2-Methylphenol (o-Cresol)	10.	U	10.	U				
108-60-1	2,2'-oxybis(1-Chloropropane)	10.	U	10.	U				
106-44-5	4-Methylphenol (p-Cresol)	10.	U	10.	U				
621-64-7	N-Nitroso-di-n-propylamine	10.	U	10.	U				
67-72-1	Hexachloroethane	10.	U	10.	U				
98-95-3	Nitrobenzene	10.	U	10.	U				
78-59-1	Isophorone	10.	U	10.	U				
88-75-5	2-Nitrophenol	10.	U	10.	U				
105-67-9	2,4-Dimethylphenol	10.	U	10.	U				
65-85-0	Benzoic acid	50.	U	1.	J				
111-91-1	bis(2-Chloroethoxy)methane	10.	U	10.	U				
120-83-2	2,4-Dichlorophenol	10.	U	10.	U				
120-82-1	1,2,4-Trichlorobenzene	10.	U	10.	U				
91-20-3	Naphthalene	10.	U	10.	U				
106-47-8	4-Chloroaniline	10.	U	10.	U				
87-68-3	Hexachlorobutadiene	10.	U	10.	U				
59-50-7	4-Chloro-3-methylphenol	10.	U	10.	U				
91-57-6	2-Methylnaphthalene	10.	U	10.	U				
77-47-4	Hexachlorocyclopentadiene	10.	U	10.	U				
88-06-2	2,4,6-Trichlorophenol	10.	U	10.	U				
95-95-4	2,4,5-Trichlorophenol	50.	U	50.	U				
91-58-7	2-Chloronaphthalene	10.	U	10.	U				
88-74-4	2-Nitroaniline	50.	U	50.	U				
131-11-3	Dimethyl phthalate	10.	U	10.	U				
208-96-8	Acenaphthylene	10.	U	10.	U				
606-20-2	2,6-Dinitrotoluene	10.	U	10.	U				
99-09-2	3-Nitroaniline	50.	U	50.	U				
83-32-9	Acenaphthene	10.	U	10.	U				
51-28-5	2,4-Dinitrophenol	50.	U	50.	U				

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-SVOA							
SAMPLE ID ------->	FDS-G-W18A-01		FDS-G-W18A-02				
ORIGINAL ID ----->	FDSGW18A01		FDSGW18A02				
LAB SAMPLE ID --->	28328.05		29767.03				
ID FROM REPORT -->	FDSGW18A01		FDSGW18A02				
SAMPLE DATE ----->	01/29/97		06/18/97				
DATE EXTRACTED -->	01/31/97		07/01/97				
DATE ANALYZED --->	02/03/97		06/27/97				
MATRIX ---------->	Water		Water				
UNITS ---------->	UG/L		UG/L				
CAS #	Parameter	28308 VAL	29767 VAL				
100-02-7	4-Nitrophenol	50. U	50. U				
132-64-9	Dibenzofuran	10. U	10. U				
121-14-2	2,4-Dinitrotoluene	10. U	10. U				
84-66-2	Diethylphthalate	10. U	10. U				
7005-72-3	4-Chlorophenylphenylether	10. U	10. U				
86-73-7	Fluorene	10. U	10. U				
100-01-6	4-Nitroaniline	50. U	50. U				
534-52-1	2-Methyl-4,6-Dinitrophenol	50. U	50. U				
86-30-6	N-Nitrosodiphenylamine	10. U	10. U				
101-55-3	4-Bromophenyl-phenylether	10. U	10. U				
118-74-1	Hexachlorobenzene	10. U	10. U				
87-86-5	Pentachlorophenol	50. U	10. J				
85-01-8	Phenanthrene	10. U	10. U				
120-12-7	Anthracene	10. U	10. U				
84-74-2	Di-n-butylphthalate	10. U	10. U				
206-44-0	Fluoranthene	10. U	10. U				
129-00-0	Pyrene	10. U	10. U				
85-68-7	Butylbenzylphthalate	10. U	10. U				
91-94-1	3,3'-Dichlorobenzidine	20. U	20. U				
56-55-3	Benzo(a)anthracene	10. U	10. U				
218-01-9	Chrysene	10. U	10. U				
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	10. U	10. U				
117-84-0	Di-n-octyl phthalate	10. U	10. U				
205-99-2	Benzo(b)fluoranthene	10. U	10. U				
207-08-9	Benzo(k)fluoranthene	10. U	10. U				
50-32-8	Benzo(a)pyrene	10. U	10. U				
193-39-5	Indeno(1,2,3-cd)pyrene	10. U	10. U				
53-70-3	Dibenz(a,h)anthracene	10. U	10. U				
191-24-2	Benzo(g,h,i)perylene	10. U	10. U				

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-VOA	SAMPLE ID ------>	FDS-G-W01A-01		FDS-G-W01A-02		FDS-G-W01B-01		FDS-G-W01B-02		FDS-G-W01C-01		FDS-G-W01C-02	
	ORIGINAL ID ----->	FDSGW01A01		FDSGW01A02		FDSGW01B01		FDSGW01B02		FDSGW01C01		FDSGW01C02	
	LAB SAMPLE ID --->	28174.01		29610.04		28174.02		29560.05		28185.01		29560.06	
	ID FROM REPORT -->	FDSGW01A01		FDSGW01A02		FDSGW01B01		FDSGW01B02		FDSGW01C01		FDSGW01C02	
	SAMPLE DATE ----->	01/14/97		06/05/97		01/14/97		06/02/97		01/15/97		06/02/97	
	DATE ANALYZED --->	01/16/97		06/10/97		01/16/97		06/04/97		01/20/97		06/04/97	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ----------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	28134	VAL	29591	VAL	28134	VAL	29515	VAL	28185	VAL	29515	VAL
74-87-3	Chloromethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
74-83-9	Bromomethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-01-4	Vinyl chloride	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-00-3	Chloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-09-2	Methylene chloride	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
67-64-1	Acetone	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-15-0	Carbon disulfide	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-35-4	1,1-Dichloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-34-3	1,1-Dichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
540-59-0	1,2-Dichloroethene (total)	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
67-66-3	Chloroform	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
107-06-2	1,2-Dichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
78-93-3	2-Butanone (MEK)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
71-55-6	1,1,1-Trichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
56-23-5	Carbon tetrachloride	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-27-4	Bromodichloromethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
78-87-5	1,2-Dichloropropane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-01-6	Trichloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
124-48-1	Dibromochloromethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
71-43-2	Benzene	5.		4.	J	5.	U	5.	U	5.	U	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-25-2	Bromoform	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
591-78-6	2-Hexanone	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
127-18-4	Tetrachloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-88-3	Toluene	6.		4.	J	5.	U	5.	U	5.	U	5.	U
108-90-7	Chlorobenzene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
100-41-4	Ethylbenzene	45.		42.		5.	U	5.	U	5.	U	5.	U
100-42-5	Styrene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
1330-20-7	Xylene (Total)	280.		230.		5.	U	5.	U	5.	U	5.	U
108-05-4	Vinyl acetate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
110-75-8	2-Chloroethyl vinyl ether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-VOA	SAMPLE ID ------->	FDS-G-W01D-01		FDS-G-W01D-02		FDS-H-W01D-02		FDS-G-W01E-01		FDS-G-W01E-02		FDS-G-W02A-01	
	ORIGINAL ID ----->	FDSGW01D01		FDSGW01D02		FDSHW01D02		FDSGW01E01		FDSGW01E02		FDSGW02A01	
	LAB SAMPLE ID --->	28185.02		29591.03		29591.04		28328.01		29560.07		28190.02	
	ID FROM REPORT -->	FDSGW01D01		FDSGW01D02		FDSHW01D02		FDSGW01E01		FDSGW01E02		FDSGW02A01	
	SAMPLE DATE ----->	01/14/97		06/04/97		06/04/97		01/29/97		06/02/97		01/16/97	
	DATE ANALYZED --->	01/20/97		06/09/97		06/09/97		01/31/97		06/04/97		01/20/97	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	28185	VAL	29591	VAL	29591	VAL	28308	VAL	29515	VAL	28185	VAL
74-87-3	Chloromethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
74-83-9	Bromomethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-01-4	Vinyl chloride	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-00-3	Chloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-09-2	Methylene chloride	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
67-64-1	Acetone	10.	U	10.	U	10.	U	10.	U	10.	U	11.	U
75-15-0	Carbon disulfide	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-35-4	1,1-Dichloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-34-3	1,1-Dichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
540-59-0	1,2-Dichloroethene (total)	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
67-66-3	Chloroform	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
107-06-2	1,2-Dichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
78-93-3	2-Butanone (MEK)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
71-55-6	1,1,1-Trichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
56-23-5	Carbon tetrachloride	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-27-4	Bromodichloromethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
78-87-5	1,2-Dichloropropane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-01-6	Trichloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
124-48-1	Dibromochloromethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
71-43-2	Benzene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-25-2	Bromoform	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
591-78-6	2-Hexanone	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
127-18-4	Tetrachloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-88-3	Toluene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-90-7	Chlorobenzene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
100-41-4	Ethylbenzene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
100-42-5	Styrene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
1330-20-7	Xylene (Total)	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-05-4	Vinyl acetate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
110-75-8	2-Chloroethyl vinyl ether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-VOA	SAMPLE ID ------->>	FDS-G-W02A-02	FDS-H-W02A-02	FDS-G-W02B-01	FDS-G-W02B-02	FDS-G-W02C-01	FDS-G-W02C-02
	ORIGINAL ID ----->>	FDSGW02A02	FDSHW02A02	FDSGW02B01	FDSGW02B02	FDSGW02C01	FDSGW02C02
	LAB SAMPLE ID --->>	29538.03	29538.04	28223.10	29523.03	28190.01	29538.02
	ID FROM REPORT -->>	FDSGW02A02	FDSHW02A02	FDSGW02B01	FDSGW02B02	FDSGW02C01	FDSGW02C02
	SAMPLE DATE ----->>	05/30/97	05/30/97	01/19/97	05/20/97	01/16/97	05/30/97
	DATE ANALYZED --->>	06/02/97	06/02/97	01/23/97	06/02/97	01/20/97	06/02/97
	MATRIX ---------->>	Water	Water	Water	Water	Water	Water
	UNITS ----------->>	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L

CAS #	Parameter	29515	VAL	29515	VAL	28217	VAL	29515	VAL	28185	VAL	29515	VAL
74-87-3	Chloromethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
74-83-9	Bromomethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-01-4	Vinyl chloride	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-00-3	Chloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-09-2	Methylene chloride	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
67-64-1	Acetone	14.	U	18.	U	12.	U	10.	U	64.	U	10.	U
75-15-0	Carbon disulfide	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-35-4	1,1-Dichloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-34-3	1,1-Dichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
540-59-0	1,2-Dichloroethene (total)	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
67-66-3	Chloroform	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
107-06-2	1,2-Dichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
78-93-3	2-Butanone (MEK)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
71-55-6	1,1,1-Trichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
56-23-5	Carbon tetrachloride	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-27-4	Bromodichloromethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
78-87-5	1,2-Dichloropropane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-01-6	Trichloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
124-48-1	Dibromochloromethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
71-43-2	Benzene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-25-2	Bromoform	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
591-78-6	2-Hexanone	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
127-18-4	Tetrachloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-88-3	Toluene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-90-7	Chlorobenzene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
100-41-4	Ethylbenzene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
100-42-5	Styrene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
1330-20-7	Xylene (Total)	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-05-4	Vinyl acetate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
110-75-8	2-Chloroethyl vinyl ether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-VOA	SAMPLE ID ------->	FDS-G-W03A-01	FDS-G-W03A-02	FDS-G-W03B-01	FDS-G-W03B-02	FDS-G-W03C-01	FDS-G-W03C-02
	ORIGINAL ID ----->	FDSGW03A01	FDSGW03A02	FDSGW03B01	FDSGW03B02	FDSGW03C01	FDSGW03C02
	LAB SAMPLE ID --->	28223.01	29591.01	28185.05	29560.01	28185.04	29591.02
	ID FROM REPORT -->	FDSGW03A01	FDSGW03A02	FDSGW03B01	FDSGW03B02	FDSGW03C01	FDSGW03C02
	SAMPLE DATE ----->	01/19/97	06/04/97	01/15/97	06/02/97	01/15/97	06/04/97
	DATE ANALYZED --->	01/22/97	06/06/97	01/20/97	06/04/97	01/20/97	06/09/97
	MATRIX ---------->	Water	Water	Water	Water	Water	Water
	UNITS ---------->	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L

CAS #	Parameter	28217	VAL	29591	VAL	28185	VAL	29515	VAL	28185	VAL	29591	VAL
74-87-3	Chloromethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
74-83-9	Bromomethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-01-4	Vinyl chloride	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-00-3	Chloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-09-2	Methylene chloride	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
67-64-1	Acetone	36.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-15-0	Carbon disulfide	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-35-4	1,1-Dichloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-34-3	1,1-Dichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
540-59-0	1,2-Dichloroethene (total)	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
67-66-3	Chloroform	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
107-06-2	1,2-Dichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
78-93-3	2-Butanone (MEK)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
71-55-6	1,1,1-Trichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
56-23-5	Carbon tetrachloride	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-27-4	Bromodichloromethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
78-87-5	1,2-Dichloropropane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-01-6	Trichloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
124-48-1	Dibromochloromethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
71-43-2	Benzene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-25-2	Bromoform	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
591-78-6	2-Hexanone	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
127-18-4	Tetrachloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-88-3	Toluene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-90-7	Chlorobenzene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
100-41-4	Ethylbenzene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
100-42-5	Styrene	5.	U	5.	U	1.	J	5.	U	5.	U	5.	U
1330-20-7	Xylene (Total)	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-05-4	Vinyl acetate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
110-75-8	2-Chloroethyl vinyl ether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-VOA	SAMPLE ID ------>	FDS-G-W04A-01		FDS-G-W04A-02		FDS-G-W04B-01		FDS-G-W04B-02		FDS-G-W04C-01		FDS-G-W04C-02	
	ORIGINAL ID ----->	FDSGW04A01		FDSGW04A02		FDSGW04B01		FDSGW04B02		FDSGW04C01		FDSGW04C02	
	LAB SAMPLE ID --->	28223.07		29487.03		28223.08		29515.01		28223.09		29515.05	
	ID FROM REPORT -->	FDSGW04A01		FDSGW04A02		FDSGW04B01		FDSGW04B02		FDSGW04C01		FDSGW04C02	
	SAMPLE DATE ----->	01/20/97		05/23/97		01/20/97		05/28/97		01/20/97		05/28/97	
	DATE ANALYZED --->	01/22/97		05/29/97		01/22/97		05/30/97		01/23/97		05/30/97	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	28217	VAL	29437	VAL	28217	VAL	29515	VAL	28217	VAL	29515	VAL
74-87-3	Chloromethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
74-83-9	Bromomethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-01-4	Vinyl chloride	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-00-3	Chloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-09-2	Methylene chloride	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
67-64-1	Acetone	10.	U	10.	U	10.	U	10.	U	5.	U	10.	U
75-15-0	Carbon disulfide	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-35-4	1,1-Dichloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-34-3	1,1-Dichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
540-59-0	1,2-Dichloroethene (total)	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
67-66-3	Chloroform	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
107-06-2	1,2-Dichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
78-93-3	2-Butanone (MEK)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
71-55-6	1,1,1-Trichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
56-23-5	Carbon tetrachloride	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-27-4	Bromodichloromethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
78-87-5	1,2-Dichloropropane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-01-6	Trichloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
124-48-1	Dibromochloromethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
71-43-2	Benzene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-25-2	Bromoform	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
591-78-6	2-Hexanone	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
127-18-4	Tetrachloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-88-3	Toluene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-90-7	Chlorobenzene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
100-41-4	Ethylbenzene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
100-42-5	Styrene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
1330-20-7	Xylene (Total)	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-05-4	Vinyl acetate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
110-75-8	2-Chloroethyl vinyl ether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-VOA	SAMPLE ID ------>	FDS-G-W05A-01	FDS-G-W05A-02	FDS-G-W05B-01	FDS-G-W05B-02	FDS-G-W06A-01	FDS-G-W06A-02
	ORIGINAL ID ----->	FDSGW05A01	FDSGW05A02	FDSGW05B01	FDSGW05B02	FDSGW06A01	FDSGW06A02
	LAB SAMPLE ID --->	28223.03	29610.01	28209.04	29610.02	28223.02	29523.01
	ID FROM REPORT -->	FDSGW05A01	FDSGW05A02	FDSGW05B01	FDSGW05B02	FDSGW06A01	FDSGW06A02
	SAMPLE DATE ----->	01/19/97	06/05/97	01/17/97	06/05/97	01/18/97	05/20/97
	DATE ANALYZED --->	01/22/97	06/09/97	01/20/97	06/10/97	01/22/97	06/02/97
	MATRIX ---------->	Water	Water	Water	Water	Water	Water
	UNITS ----------->	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L

CAS #	Parameter	28217	VAL	29591	VAL	28185	VAL	29591	VAL	28217	VAL	29515	VAL
74-87-3	Chloromethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
74-83-9	Bromomethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-01-4	Vinyl chloride	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-00-3	Chloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-09-2	Methylene chloride	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
67-64-1	Acetone	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-15-0	Carbon disulfide	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-35-4	1,1-Dichloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-34-3	1,1-Dichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
540-59-0	1,2-Dichloroethene (total)	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
67-66-3	Chloroform	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
107-06-2	1,2-Dichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
78-93-3	2-Butanone (MEK)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
71-55-6	1,1,1-Trichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
56-23-5	Carbon tetrachloride	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-27-4	Bromodichloromethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
78-87-5	1,2-Dichloropropane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-01-6	Trichloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
124-48-1	Dibromochloromethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
71-43-2	Benzene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-25-2	Bromoform	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
591-78-6	2-Hexanone	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
127-18-4	Tetrachloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-88-3	Toluene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-90-7	Chlorobenzene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
100-41-4	Ethylbenzene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
100-42-5	Styrene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
1330-20-7	Xylene (Total)	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-05-4	Vinyl acetate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
110-75-8	2-Chloroethyl vinyl ether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-VOA	SAMPLE ID ------>	FDS-G-W06B-01		FDS-G-W06B-02		FDS-G-W06C-01		FDS-G-W06C-02		FDS-G-W07A-01		FDS-G-W07A-02	
	ORIGINAL ID ----->	FDSGW06B01		FDSGW06B02		FDSGW06C01		FDSGW06C02		FDSGW07A01		FDSGW07A02	
	LAB SAMPLE ID --->	28223.05		29523.02		28223.06		29538.01		28343.01		29610.05	
	ID FROM REPORT -->	FDSGW06B01		FDSGW06B02		FDSGW06C01		FDSGW06C02		FDSGW07A01		FDSGW07A02	
	SAMPLE DATE ----->	01/20/97		05/20/97		01/20/97		05/30/97		01/29/97		06/05/97	
	DATE ANALYZED --->	01/22/97		06/02/97		01/22/97		06/02/97		01/31/97		06/10/97	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ----------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	28217	VAL	29515	VAL	28217	VAL	29515	VAL	28308	VAL	29591	VAL
74-87-3	Chloromethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
74-83-9	Bromomethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-01-4	Vinyl chloride	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-00-3	Chloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-09-2	Methylene chloride	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
67-64-1	Acetone	20.	U	10.	U	29.	U	90.	U	13.	U	10.	U
75-15-0	Carbon disulfide	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-35-4	1,1-Dichloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-34-3	1,1-Dichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
540-59-0	1,2-Dichloroethene (total)	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
67-66-3	Chloroform	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
107-06-2	1,2-Dichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
78-93-3	2-Butanone (MEK)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
71-55-6	1,1,1-Trichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
56-23-5	Carbon tetrachloride	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-27-4	Bromodichloromethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
78-87-5	1,2-Dichloropropane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-01-6	Trichloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
124-48-1	Dibromochloromethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
71-43-2	Benzene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-25-2	Bromoform	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
591-78-6	2-Hexanone	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
127-18-4	Tetrachloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-88-3	Toluene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-90-7	Chlorobenzene	5.	U	6.		5.	U	5.	U	5.	U	5.	U
100-41-4	Ethylbenzene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
100-42-5	Styrene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
1330-20-7	Xylene (Total)	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-05-4	Vinyl acetate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
110-75-8	2-Chloroethyl vinyl ether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-VOA	SAMPLE ID ------>	FDS-G-W07B-01		FDS-G-W07B-02		FDS-G-W07C-01		FDS-G-W07C-02		FDS-G-W07D-01		FDS-G-W07D-02	
	ORIGINAL ID ----->	FDSGW07B01		FDSGW07B02		FDSGW07C01		FDSGW07C02		FDSGW07D01		FDSGW07D02	
	LAB SAMPLE ID --->	28209.01		29636.01		28209.02		29636.05		28279.01		29744.01	
	ID FROM REPORT -->	FDSGW07B01		FDSGW07B02		FDSGW07C01		FDSGW07C02		FDSGW07D01		FDSGW07D02	
	SAMPLE DATE ----->	01/17/97		06/09/97		01/17/97		06/09/97		01/24/97		06/17/97	
	DATE ANALYZED --->	01/20/97		06/13/97		01/20/97		06/13/97		01/27/97		06/19/97	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ----------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	28185	VAL	29591	VAL	28185	VAL	29591	VAL	28249	VAL	29707	VAL
74-87-3	Chloromethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
74-83-9	Bromomethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-01-4	Vinyl chloride	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-00-3	Chloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-09-2	Methylene chloride	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
67-64-1	Acetone	10.	U	10.	U	10.	U	10.	U	16.	U	10.	U
75-15-0	Carbon disulfide	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-35-4	1,1-Dichloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-34-3	1,1-Dichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
540-59-0	1,2-Dichloroethene (total)	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
67-66-3	Chloroform	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
107-06-2	1,2-Dichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
78-93-3	2-Butanone (MEK)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
71-55-6	1,1,1-Trichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
56-23-5	Carbon tetrachloride	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-27-4	Bromodichloromethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
78-87-5	1,2-Dichloropropane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-01-6	Trichloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
124-48-1	Dibromochloromethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
71-43-2	Benzene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-25-2	Bromoform	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
591-78-6	2-Hexanone	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
127-18-4	Tetrachloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-88-3	Toluene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-90-7	Chlorobenzene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
100-41-4	Ethylbenzene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
100-42-5	Styrene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
1330-20-7	Xylene (Total)	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-05-4	Vinyl acetate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
110-75-8	2-Chloroethyl vinyl ether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-VOA	SAMPLE ID ------>	FDS-G-W08A-01		FDS-G-W08A-02		FDS-G-W08B-01		FDS-G-W08B-02		FDS-G-W08C-01		FDS-G-W08C-02	
	ORIGINAL ID ----->	FDSGW08A01		FDSGW08A02		FDSGW08B01		FDSGW08B02		FDSGW08C01		FDSGW08C02	
	LAB SAMPLE ID --->	28279.02		29610.03		28295.10		29636.06		28279.03		29636.07	
	ID FROM REPORT -->	FDSGW08A01		FDSGW08A02		FDSGW08B01		FDSGW08B02		FDSGW08C01		FDSGW08C02	
	SAMPLE DATE ----->	01/24/97		06/05/97		01/25/97		06/09/97		01/24/97		06/09/97	
	DATE ANALYZED --->	01/27/97		06/10/97		01/29/97		06/13/97		01/27/97		06/13/97	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	28249	VAL	29591	VAL	28249	VAL	29591	VAL	28249	VAL	29591	VAL
74-87-3	Chloromethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
74-83-9	Bromomethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-01-4	Vinyl chloride	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-00-3	Chloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-09-2	Methylene chloride	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
67-64-1	Acetone	10.	U	10.	U	7.	U	10.	U	10.	UJ	10.	U
75-15-0	Carbon disulfide	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-35-4	1,1-Dichloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-34-3	1,1-Dichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
540-59-0	1,2-Dichloroethene (total)	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
67-66-3	Chloroform	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
107-06-2	1,2-Dichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
78-93-3	2-Butanone (MEK)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
71-55-6	1,1,1-Trichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
56-23-5	Carbon tetrachloride	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-27-4	Bromodichloromethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
78-87-5	1,2-Dichloropropane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-01-6	Trichloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
124-48-1	Dibromochloromethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
71-43-2	Benzene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-25-2	Bromoform	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
591-78-6	2-Hexanone	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
127-18-4	Tetrachloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-88-3	Toluene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-90-7	Chlorobenzene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
100-41-4	Ethylbenzene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
100-42-5	Styrene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
1330-20-7	Xylene (Total)	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-05-4	Vinyl acetate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
110-75-8	2-Chloroethyl vinyl ether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-VOA	SAMPLE ID ------>	FDS-H-W08C-02		FDS-G-W09A-01		FDS-G-W09A-02		FDS-G-W09B-01		FDS-G-W09B-02		FDS-H-W09B-02	
	ORIGINAL ID ----->	FDSHW08C02		FDSGW09A01		FDSGW09A02		FDSGW09B01		FDSGW09B02		FDSHW09B02	
	LAB SAMPLE ID --->	29636.08		28227.06		29656.04		28227.08		29656.06		29656.07	
	ID FROM REPORT -->	FDSHW08C02		FDSGW09A01		FDSGW09A02		FDSGW09B01		FDSGW09B02		FDSHW09B02	
	SAMPLE DATE ----->	06/09/97		01/21/97		06/10/97		01/21/97		06/10/97		06/10/97	
	DATE ANALYZED --->	06/13/97		01/22/97		06/13/97		01/22/97		06/16/97		06/17/97	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ----------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	29591	VAL	28217	VAL	29656	VAL	28217	VAL	29656	VAL	29656	VAL
74-87-3	Chloromethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
74-83-9	Bromomethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-01-4	Vinyl chloride	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-00-3	Chloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-09-2	Methylene chloride	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
67-64-1	Acetone	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-15-0	Carbon disulfide	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-35-4	1,1-Dichloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-34-3	1,1-Dichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
540-59-0	1,2-Dichloroethene (total)	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
67-66-3	Chloroform	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
107-06-2	1,2-Dichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
78-93-3	2-Butanone (MEK)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
71-55-6	1,1,1-Trichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
56-23-5	Carbon tetrachloride	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-27-4	Bromodichloromethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
78-87-5	1,2-Dichloropropane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-01-6	Trichloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
124-48-1	Dibromochloromethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
71-43-2	Benzene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-25-2	Bromoform	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
591-78-6	2-Hexanone	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
127-18-4	Tetrachloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-88-3	Toluene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-90-7	Chlorobenzene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
100-41-4	Ethylbenzene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
100-42-5	Styrene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
1330-20-7	Xylene (Total)	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-05-4	Vinyl acetate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
110-75-8	2-Chloroethyl vinyl ether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-VOA	SAMPLE ID ------>	FDS-G-W09C-01	FDS-G-W09C-02	FDS-G-W10A-01	FDS-G-W10A-02	FDS-G-W10B-01	FDS-G-W10B-02
	ORIGINAL ID ----->	FDSGW09C01	FDSGW09C02	FDSGW10A01	FDSGW10A02	FDSGW10B01	FDSGW10B02
	LAB SAMPLE ID --->	28227.07	29656.05	28227.01	29656.01	28227.02	29656.02
	ID FROM REPORT -->	FDSGW09C01	FDSGW09C02	FDSGW10A01	FDSGW10A02	FDSGW10B01	FDSGW10B02
	SAMPLE DATE ----->	01/21/97	06/10/97	01/21/97	06/10/97	01/21/97	06/10/97
	DATE ANALYZED --->	01/22/97	06/16/97	01/22/97	06/13/97	01/22/97	06/13/97
	MATRIX ---------->	Water	Water	Water	Water	Water	Water
	UNITS ---------->	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L

CAS #	Parameter	28217	VAL	29656	VAL	28217	VAL	29656	VAL	28217	VAL	29656	VAL
74-87-3	Chloromethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
74-83-9	Bromomethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-01-4	Vinyl chloride	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-00-3	Chloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-09-2	Methylene chloride	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
67-64-1	Acetone	6.	U	6.	J	11.	U	10.	U	58.	U	10.	U
75-15-0	Carbon disulfide	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-35-4	1,1-Dichloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-34-3	1,1-Dichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
540-59-0	1,2-Dichloroethene (total)	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
67-66-3	Chloroform	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
107-06-2	1,2-Dichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
78-93-3	2-Butanone (MEK)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
71-55-6	1,1,1-Trichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
56-23-5	Carbon tetrachloride	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-27-4	Bromodichloromethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
78-87-5	1,2-Dichloropropane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-01-6	Trichloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
124-48-1	Dibromochloromethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
71-43-2	Benzene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-25-2	Bromoform	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
591-78-6	2-Hexanone	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
127-18-4	Tetrachloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-88-3	Toluene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-90-7	Chlorobenzene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
100-41-4	Ethylbenzene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
100-42-5	Styrene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
1330-20-7	Xylene (Total)	5.	U	1.	J	5.	U	5.	U	5.	U	5.	U
108-05-4	Vinyl acetate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
110-75-8	2-Chloroethyl vinyl ether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-VOA	SAMPLE ID ------>	FDS-G-W10C-01	FDS-G-W10C-02	FDS-G-W11A-01	FDS-G-W11A-02	FDS-G-W11B-01	FDS-G-W11B-02
	ORIGINAL ID ----->	FDSGW10C01	FDSGW10C02	FDSGW11A01	FDSGW11A02	FDSGW11B01	FDSGW11B02
	LAB SAMPLE ID --->	28227.03	29656.03	28308.07	29678.01	28308.08	29678.02
	ID FROM REPORT -->	FDSGW10C01	FDSGW10C02	FDSGW11A01	FDSGW11A02	FDSGW11B01	FDSGW11B02
	SAMPLE DATE ----->	01/21/97	06/10/97	01/28/97	06/11/97	01/28/97	06/11/97
	DATE ANALYZED --->	01/22/97	06/13/97	01/30/97	06/17/97	01/30/97	06/17/97
	MATRIX ---------->	Water	Water	Water	Water	Water	Water
	UNITS ----------->	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L

CAS #	Parameter	28217	VAL	29656	VAL	28308	VAL	29656	VAL	28308	VAL	29656	VAL
74-87-3	Chloromethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
74-83-9	Bromomethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-01-4	Vinyl chloride	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-00-3	Chloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-09-2	Methylene chloride	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
67-64-1	Acetone	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-15-0	Carbon disulfide	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-35-4	1,1-Dichloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-34-3	1,1-Dichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
540-59-0	1,2-Dichloroethene (total)	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
67-66-3	Chloroform	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
107-06-2	1,2-Dichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
78-93-3	2-Butanone (MEK)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
71-55-6	1,1,1-Trichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
56-23-5	Carbon tetrachloride	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-27-4	Bromodichloromethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
78-87-5	1,2-Dichloropropane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-01-6	Trichloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
124-48-1	Dibromochloromethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
71-43-2	Benzene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-25-2	Bromoform	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
591-78-6	2-Hexanone	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
127-18-4	Tetrachloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-88-3	Toluene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-90-7	Chlorobenzene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
100-41-4	Ethylbenzene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
100-42-5	Styrene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
1330-20-7	Xylene (Total)	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-05-4	Vinyl acetate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
110-75-8	2-Chloroethyl vinyl ether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-VOA	SAMPLE ID ------->	FDS-G-W11C-01	FDS-G-W11C-02	FDS-H-W11C-02	FDS-G-W12A-01	FDS-G-W12A-02	FDS-H-W12A-02
	ORIGINAL ID ----->	FDSGW11C01	FDSGW11C02	FDSHW11C02	FDSGW12A01	FDSGW12A02	FDSHW12A02
	LAB SAMPLE ID --->	28308.09	29678.03	29678.04	28295.05	29678.07	29678.08
	ID FROM REPORT -->	FDSGW11C01	FDSGW11C02	FDSHW11C02	FDSGW12A01	FDSGW12A02	FDSHW12A02
	SAMPLE DATE ----->	01/28/97	06/11/97	06/11/97	01/27/97	06/11/97	06/11/97
	DATE ANALYZED --->	01/30/97	06/17/97	06/17/97	01/29/97	06/17/97	06/17/97
	MATRIX ---------->	Water	Water	Water	Water	Water	Water
	UNITS ---------->	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L

CAS #	Parameter	28308	VAL	29656	VAL	29656	VAL	28249	VAL	29656	VAL	29656	VAL
74-87-3	Chloromethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
74-83-9	Bromomethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-01-4	Vinyl chloride	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-00-3	Chloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-09-2	Methylene chloride	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
67-64-1	Acetone	15.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-15-0	Carbon disulfide	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-35-4	1,1-Dichloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-34-3	1,1-Dichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
540-59-0	1,2-Dichloroethene (total)	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
67-66-3	Chloroform	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
107-06-2	1,2-Dichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
78-93-3	2-Butanone (MEK)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
71-55-6	1,1,1-Trichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
56-23-5	Carbon tetrachloride	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-27-4	Bromodichloromethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
78-87-5	1,2-Dichloropropane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-01-6	Trichloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
124-48-1	Dibromochloromethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
71-43-2	Benzene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-25-2	Bromoform	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	J
591-78-6	2-Hexanone	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
127-18-4	Tetrachloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-88-3	Toluene	1.	J	5.	U	5.	U	5.	U	5.	U	5.	U
108-90-7	Chlorobenzene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
100-41-4	Ethylbenzene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
100-42-5	Styrene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
1330-20-7	Xylene (Total)	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-05-4	Vinyl acetate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
110-75-8	2-Chloroethyl vinyl ether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

| SW846-VOA | SAMPLE ID ------->
ORIGINAL ID ----->
LAB SAMPLE ID --->
ID FROM REPORT -->
SAMPLE DATE ----->
DATE ANALYZED --->
MATRIX ---------->
UNITS ---------->	FDS-G-W12B-01 FDSGW12B01 28295.07 FDSGW12B01 01/27/97 01/29/97 Water UG/L		FDS-G-W12B-02 FDSGW12B02 29678.06 FDSGW12B02 06/11/97 06/17/97 Water UG/L		FDS-G-W13A-01 FDSGW13A01 28295.04 FDSGW13A01 01/27/97 01/29/97 Water UG/L		FDS-G-W13A-02 FDSGW13A02 29678.05 FDSGW13A02 06/11/97 06/17/97 Water UG/L		FDS-G-W13B-01 FDSGW13B01 28295.03 FDSGW13B01 01/27/97 01/29/97 Water UG/L		FDS-G-W13B-02 FDSGW13B02 29707.01 FDSGW13B02 06/13/97 06/17/97 Water UG/L	
CAS #	Parameter	28249	VAL	29656	VAL	28249	VAL	29656	VAL	28249	VAL	29707	VAL
74-87-3	Chloromethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
74-83-9	Bromomethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-01-4	Vinyl chloride	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-00-3	Chloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-09-2	Methylene chloride	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
67-64-1	Acetone	10.	U	10.	U	13.	U	10.	U	16.	U	26.	U
75-15-0	Carbon disulfide	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-35-4	1,1-Dichloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-34-3	1,1-Dichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
540-59-0	1,2-Dichloroethene (total)	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
67-66-3	Chloroform	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
107-06-2	1,2-Dichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
78-93-3	2-Butanone (MEK)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
71-55-6	1,1,1-Trichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
56-23-5	Carbon tetrachloride	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-27-4	Bromodichloromethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
78-87-5	1,2-Dichloropropane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-01-6	Trichloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
124-48-1	Dibromochloromethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
71-43-2	Benzene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-25-2	Bromoform	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
591-78-6	2-Hexanone	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
127-18-4	Tetrachloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-88-3	Toluene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-90-7	Chlorobenzene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
100-41-4	Ethylbenzene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
100-42-5	Styrene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
1330-20-7	Xylene (Total)	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-05-4	Vinyl acetate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
110-75-8	2-Chloroethyl vinyl ether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-VOA	SAMPLE ID ------->>	FDS-G-W13C-01		FDS-G-W13C-02		FDS-G-W13D-01		FDS-G-W13D-02		FDS-G-W13E-01		FDS-G-W13E-02	
	ORIGINAL ID ----->>	FDSGW13C01		FDSGW13C02		FDSGW13D01		FDSGW13D02		FDSGW13E01		FDSGW13E02	
	LAB SAMPLE ID --->>	28295.01		29697.03		28295.08		29697.04		28308.04		29707.02	
	ID FROM REPORT -->>	FDSGW13C01		FDSGW13C02		FDSGW13D01		FDSGW13D02		FDSGW13E01		FDSGW13E02	
	SAMPLE DATE ----->>	01/27/97		06/12/97		01/27/97		06/12/97		01/28/97		06/13/97	
	DATE ANALYZED --->>	01/29/97		06/17/97		01/29/97		06/17/97		01/30/97		06/17/97	
	MATRIX ---------->>	Water		Water		Water		Water		Water		Water	
	UNITS ----------->>	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	28249	VAL	29656	VAL	28249	VAL	29656	VAL	28308	VAL	29707	VAL
74-87-3	Chloromethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
74-83-9	Bromomethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-01-4	Vinyl chloride	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-00-3	Chloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-09-2	Methylene chloride	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
67-64-1	Acetone	10.	U	10.	U	10.	U	10.	U	11.	U	10.	U
75-15-0	Carbon disulfide	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-35-4	1,1-Dichloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-34-3	1,1-Dichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
540-59-0	1,2-Dichloroethene (total)	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
67-66-3	Chloroform	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
107-06-2	1,2-Dichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
78-93-3	2-Butanone (MEK)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
71-55-6	1,1,1-Trichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
56-23-5	Carbon tetrachloride	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-27-4	Bromodichloromethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
78-87-5	1,2-Dichloropropane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-01-6	Trichloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
124-48-1	Dibromochloromethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
71-43-2	Benzene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-25-2	Bromoform	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
591-78-6	2-Hexanone	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
127-18-4	Tetrachloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-88-3	Toluene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-90-7	Chlorobenzene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
100-41-4	Ethylbenzene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
100-42-5	Styrene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
1330-20-7	Xylene (Total)	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-05-4	Vinyl acetate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
110-75-8	2-Chloroethyl vinyl ether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-VOA	SAMPLE ID ------>	FDS-G-W14A-01	FDS-G-W14A-02	FDS-G-W14B-01	FDS-G-W14B-02	FDS-G-W14C-01	FDS-G-W14C-02
	ORIGINAL ID ----->	FDSGW14A01	FDSGW14A02	FDSGW14B01	FDSGW14B02	FDSGW14C01	FDSGW14C02
	LAB SAMPLE ID --->	28295.02	29697.01	28295.06	29697.02	28249.01	29707.03
	ID FROM REPORT -->	FDSGW14A01	FDSGW14A02	FDSGW14B01	FDSGW14B02	FDSGW14C01	FDSGW14C02
	SAMPLE DATE ----->	01/27/97	06/12/97	01/27/97	06/12/97	01/22/97	06/13/97
	DATE ANALYZED --->	01/29/97	06/17/97	01/29/97	06/17/97	01/24/97	06/17/97
	MATRIX ---------->	Water	Water	Water	Water	Water	Water
	UNITS ----------->	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L

CAS #	Parameter	28249	VAL	29656	VAL	28249	VAL	29656	VAL	28249	VAL	29707	VAL
74-87-3	Chloromethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
74-83-9	Bromomethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-01-4	Vinyl chloride	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-00-3	Chloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-09-2	Methylene chloride	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
67-64-1	Acetone	66.	U	10.	U	10.	U	10.	U	13.	U	18.	U
75-15-0	Carbon disulfide	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-35-4	1,1-Dichloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-34-3	1,1-Dichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
540-59-0	1,2-Dichloroethene (total)	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
67-66-3	Chloroform	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
107-06-2	1,2-Dichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
78-93-3	2-Butanone (MEK)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
71-55-6	1,1,1-Trichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
56-23-5	Carbon tetrachloride	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-27-4	Bromodichloromethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
78-87-5	1,2-Dichloropropane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-01-6	Trichloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
124-48-1	Dibromochloromethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
71-43-2	Benzene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-25-2	Bromoform	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
591-78-6	2-Hexanone	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
127-18-4	Tetrachloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-88-3	Toluene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-90-7	Chlorobenzene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
100-41-4	Ethylbenzene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
100-42-5	Styrene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
1330-20-7	Xylene (Total)	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-05-4	Vinyl acetate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
110-75-8	2-Chloroethyl vinyl ether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-VOA	SAMPLE ID ------->	FDS-G-W15A-01		FDS-G-W15A-02		FDS-G-W15B-01		FDS-G-W15B-02		FDS-G-W15C-01		FDS-G-W15C-02	
	ORIGINAL ID ----->	FDSGW15A01		FDSGW15A02		FDSGW15B01		FDSGW15B02		FDSGW15C01		FDSGW15C02	
	LAB SAMPLE ID --->	28308.01		29707.04		28308.02		29730.06		28308.03		29730.07	
	ID FROM REPORT -->	FDSGW15A01		FDSGW15A02		FDSGW15B01		FDSGW15B02		FDSGW15C01		FDSGW15C02	
	SAMPLE DATE ----->	01/28/97		06/13/97		01/28/97		06/16/97		01/28/97		06/16/97	
	DATE ANALYZED --->	01/30/97		06/17/97		01/30/97		06/19/97		01/30/97		06/19/97	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	28308	VAL	29707	VAL	28308	VAL	29707	VAL	28308	VAL	29707	VAL
74-87-3	Chloromethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
74-83-9	Bromomethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-01-4	Vinyl chloride	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-00-3	Chloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-09-2	Methylene chloride	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
67-64-1	Acetone	13.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-15-0	Carbon disulfide	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-35-4	1,1-Dichloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-34-3	1,1-Dichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
540-59-0	1,2-Dichloroethene (total)	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
67-66-3	Chloroform	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
107-06-2	1,2-Dichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
78-93-3	2-Butanone (MEK)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
71-55-6	1,1,1-Trichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
56-23-5	Carbon tetrachloride	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-27-4	Bromodichloromethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
78-87-5	1,2-Dichloropropane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-01-6	Trichloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
124-48-1	Dibromochloromethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
71-43-2	Benzene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-25-2	Bromoform	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
591-78-6	2-Hexanone	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
127-18-4	Tetrachloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-88-3	Toluene	3.	J	5.	U	5.	U	5.	U	5.	U	5.	U
108-90-7	Chlorobenzene	6.		5.	U	5.	U	5.	U	5.	U	5.	U
100-41-4	Ethylbenzene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
100-42-5	Styrene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
1330-20-7	Xylene (Total)	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-05-4	Vinyl acetate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
110-75-8	2-Chloroethyl vinyl ether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U

*** Validation Complete ***

CHARLESTON - ZONE G
CHARLESTON ZONE G QUARTERLY GW
Fuel Distribution System CAR

SW846-VOA	SAMPLE ID ------>	FDS-G-W18A-01		FDS-G-W18A-02					
	ORIGINAL ID ----->	FDSGW18A01		FDSGW18A02					
	LAB SAMPLE ID --->	28328.05		29767.03					
	ID FROM REPORT -->	FDSGW18A01		FDSGW18A02					
	SAMPLE DATE ----->	01/29/97		06/18/97					
	DATE ANALYZED --->	01/31/97		06/20/97					
	MATRIX ---------->	Water		Water					
	UNITS ---------->	UG/L		UG/L					
CAS #	Parameter	28308	VAL	29767	VAL				
74-87-3	Chloromethane	10.	U	10.	U				
74-83-9	Bromomethane	10.	U	10.	U				
75-01-4	Vinyl chloride	10.	U	10.	U				
75-00-3	Chloroethane	10.	U	10.	U				
75-09-2	Methylene chloride	5.	U	5.	U				
67-64-1	Acetone	10.	U	10.	U				
75-15-0	Carbon disulfide	5.	U	5.	U				
75-35-4	1,1-Dichloroethene	5.	U	5.	U				
75-34-3	1,1-Dichloroethane	5.	U	5.	U				
540-59-0	1,2-Dichloroethene (total)	5.	U	5.	U				
67-66-3	Chloroform	5.	U	5.	U				
107-06-2	1,2-Dichloroethane	5.	U	5.	U				
78-93-3	2-Butanone (MEK)	10.	U	10.	U				
71-55-6	1,1,1-Trichloroethane	5.	U	5.	U				
56-23-5	Carbon tetrachloride	5.	U	5.	U				
75-27-4	Bromodichloromethane	5.	U	5.	U				
78-87-5	1,2-Dichloropropane	5.	U	5.	U				
10061-01-5	cis-1,3-Dichloropropene	5.	U	5.	U				
79-01-6	Trichloroethene	5.	U	5.	U				
124-48-1	Dibromochloromethane	5.	U	5.	U				
79-00-5	1,1,2-Trichloroethane	5.	U	5.	U				
71-43-2	Benzene	5.	U	5.	U				
10061-02-6	trans-1,3-Dichloropropene	5.	U	5.	U				
75-25-2	Bromoform	5.	U	5.	U				
108-10-1	4-Methyl-2-Pentanone (MIBK)	10.	U	10.	U				
591-78-6	2-Hexanone	10.	U	10.	U				
127-18-4	Tetrachloroethene	5.	U	5.	U				
79-34-5	1,1,2,2-Tetrachloroethane	5.	U	5.	U				
108-88-3	Toluene	5.	U	5.	U				
108-90-7	Chlorobenzene	5.	U	5.	U				
100-41-4	Ethylbenzene	5.	U	5.	U				
100-42-5	Styrene	5.	U	5.	U				
1330-20-7	Xylene (Total)	5.	U	5.	U				
108-05-4	Vinyl acetate	10.	U	10.	U				
110-75-8	2-Chloroethyl vinyl ether	10.	U	10.	U				

*** Validation Complete ***

Appendix D

Fuel Distribution System
TPH Soil Sampling Report

S&ME

May 28, 1992

CRSS Architects, Inc.
300 Executive Center Drive
Greenville, South Carolina 29615

Attention: Mr. Francis M. Tanahey, P.E.

Subject: Report of the Soil Sampling and Analysis
Environmental Specification Preparation
800 Foot 18-Inch Fuel Pipeline
Charleston Naval Supply Center
S&ME, Inc. Job #1134-92-236

Dear Mr. Tanahey:

S&ME, Inc. (S&ME) has completed the soil sampling and laboratory analysis for soil samples collected along an 18-inch pipeline at the above reference site. Our services have been provided in general accordance with Westinghouse Environmental and Geotechnical Services, Inc. proposal #34-92-085A dated July 24, 1991 under A/E Contract No. N62467-90-D-1120.

The following report describes our sample collection procedures, analytical results, and conclusions based upon our findings. We intend to provide an additional submittal outlining appropriate abatement measures addressing the detected petroleum related contamination associated with the pipeline under study. If you have any questions concerning this portion of the project, please contact us at 884-0005.

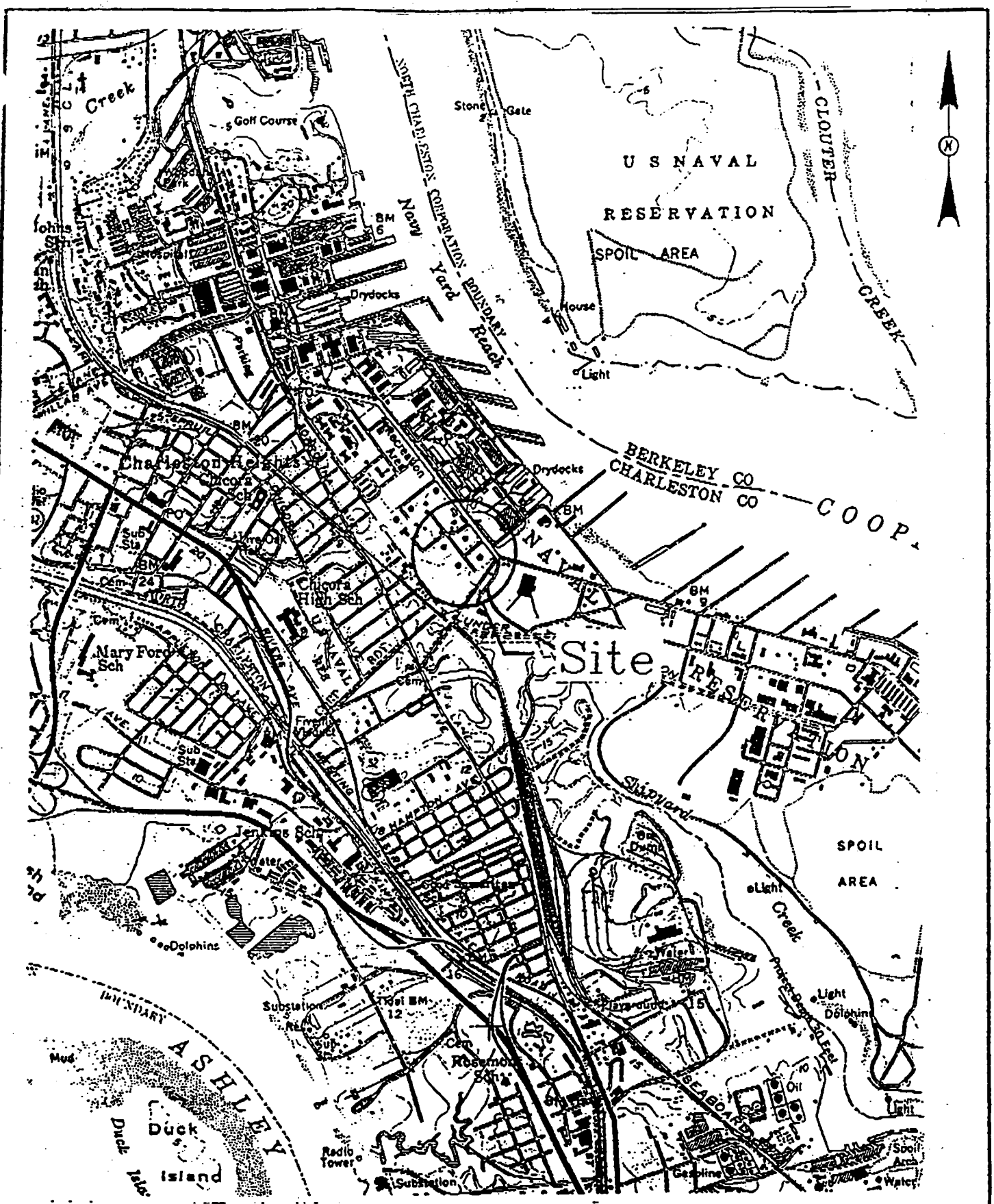
Sincerely,

S&ME, INC.

Hugh Connolly
Project Hydrogeologist

John Albrecht, P.E.
Senior Environmental Engineer

ENCL (1)



SCALE: 1 : 24000	DRAWN BY: MA	S&ME Charleston Branch 640 Low Country Blvd. Mt. Pleasant, South Carolina 29464 (803) 884-0004	TITLE: Site Location Plan Naval Supply Center 16" Fuel Line Charleston Navy Base, S.C.	FIGURE: 1
DATE: 5-28-92	CHECKED BY: MC			
JOB NO: 113492236	APPROVED BY: MC			1 OF 2

1.0 INTRODUCTION

The pipeline under study is an 18-inch steel product supply line associated with the Naval Supply Center located on Charleston Naval Base in Charleston, South Carolina. A site location plan is presented as Figure 1. The Naval Supply Center is an above ground tank farm that traditionally stores Diesel Fuels and Waste Oils. The pipeline is approximately 800 feet in length and is located in front of the tank farm facility paralleling Hobson Avenue. The pipeline is used to transfer diesel fuel to and from the fueling pier, located at the Cooper River to the east of the study area. The pipeline terminates at above ground valve assemblies situated at either end of the 800 foot length at the tank farm.

The pipeline has been scheduled for refit which will result in the excavation of soils associated with the pipeline and some dewatering activities due to the pipelines orientation being below the water table. Due to the suspect contamination associated with the pipeline, S&ME, Inc. has been contracted to perform soil sampling and analysis along the pipeline to determine if petroleum related contamination exists in the area of future construction.

2.0 SUMMARY OF WORK PERFORMED

The following scope of work describes the soil sampling procedures and protocol and describes the analytical results for soil samples submitted for laboratory analysis.

2.1 Soil Sample Collection/Laboratory Analysis

S&ME contacted Navy Base personnel associated with the Naval Supply Center to determine the location of the pipeline. It's location was determined to be between the sidewalk along Hobson Avenue and the fenced area bordering the tank farm facility. Boring locations were marked at 100 foot centers along the pipeline for the initial round of samples to be collected. The sample locations were oriented with the first sample, number PB-1, being located at the valve assembly at the intersection of Hobson Avenue and the Viaduct Road entrance to the Navy Base and the last sample, PB-10 being located at the valve assembly situated at the opposite end of the pipeline, on the north side of Building 98.

Hand auger borings were performed at each sample location down to the soil/groundwater interface encountered at a depth of 6 feet below grade. Soil samples were collected at 10 foot intervals and placed into decontaminated glass jars with sealable lids. The lids were fitted with a sampling port so the samples could be field screened with a microtip photoionizing detector. After a minimum waiting period of 10 minutes, the samples were screened for organic vapor concentrations. The values were recorded and boring logs produced showing the soils encountered and their corresponding organic vapor concentrations with depth.

As part of the project, some general assumptions were made to limit the number of samples to be submitted for laboratory analysis. The first assumption was that adjacent 100 foot sample locations that appeared to be free of contamination during by the soil screening process were assumed to be clean along the entire 100 foot section of pipeline. Similarly, adjacent 100 foot sample locations that appeared to contaminated during the soil screening process were assumed to be so along the entire 100 foot length of pipeline. As a result, soil samples were not collected at a 50 foot interval between these locations. However, in the event that a 100 foot contaminated sample location was adjacent to a 100 foot non-contaminated sample location as indicated by field screening, an adjacent 50 foot sample was

collected and submitted for laboratory analysis to more accurately define the limits of contamination along the pipeline. As a result, sample locations PB-3.5, PB-6.5 and PB-8.5 were collected and submitted for laboratory analysis. A sample location plan is presented as Figure 2.

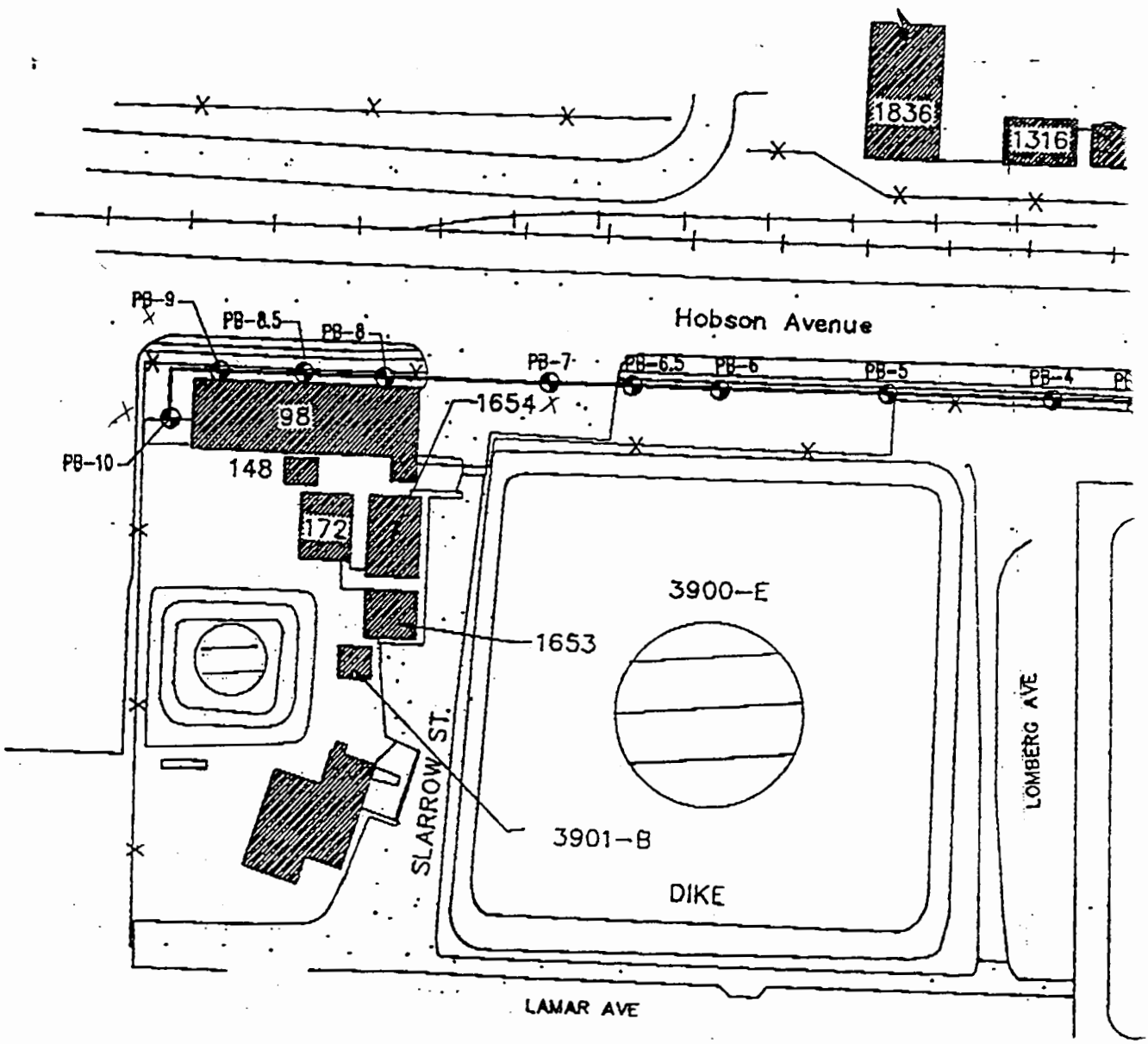
Once the desired sampling depth had been reached at the respective boring locations, a final soil sample was collected at 6 feet below grade and submitted for laboratory analysis. The samples were collected from the hand auger bucket, placed into specially prepared sample containers and immediately refrigerated. At the end of the work day, the samples were shipped by overnight courier to Southern Petroleum Laboratory in Lafayette, Louisiana. The samples were analyzed for Total Petroleum Hydrocarbons (TPH) by Gas Chromatography (GC) by the Modified California Method (DHS).

Prior to and in between each sample location, all downhole sampling equipment was decontaminated with a chemically neutral surfactant and rinsed with deionized water.

2.2 Soil Screening and Laboratory Analytical Results

As indicated by field screening, some levels of organic vapor concentrations were detected in all soil samples collected at the site except for sample location PB-8. Low levels were detected at sample location PB-4 and PB-5. Due to the nature of the soils comprising the Charleston Naval Base, it is felt that the readings at PB-4 and PB-5 were the result of natural organic vapors, such as Methane and Hydrogen Sulfide resulting from decay of buried organic materials (roots, leaves, etc.). However, soil samples yielding higher levels of organic vapors usually possessed distinct petroleum odors, indicating contamination was present. Boring logs showing the soils encountered and corresponding organic vapor concentrations are attached (see Attachment I).

TPH was detected above the quantitation limits in all samples submitted except for sample locations PB-3.5, PB-4, PB-5, PB-6, PB-6.5, PB-8 and PB-8.5. The remaining samples submitted for laboratory analysis possessed varying levels of petroleum hydrocarbon contamination with the higher levels being associated with samples collected from the ends of the pipeline in the areas of the valve assemblies. Table I summarizes the TPH concentrations detected in the soil samples submitted for laboratory analysis and the analytical data sheets are provided as Attachment II.



Graphic Scale

0' 100' 200'

Legend

PB-# Soil Sample Location

18" Underground Pipeline

SCALE: 1" = 100'	DRAWN BY: WJM
DATE: 5-28-92	CHECKED BY: HL
JOB NO: 113492236	APPROVED BY: JHL

S&ME

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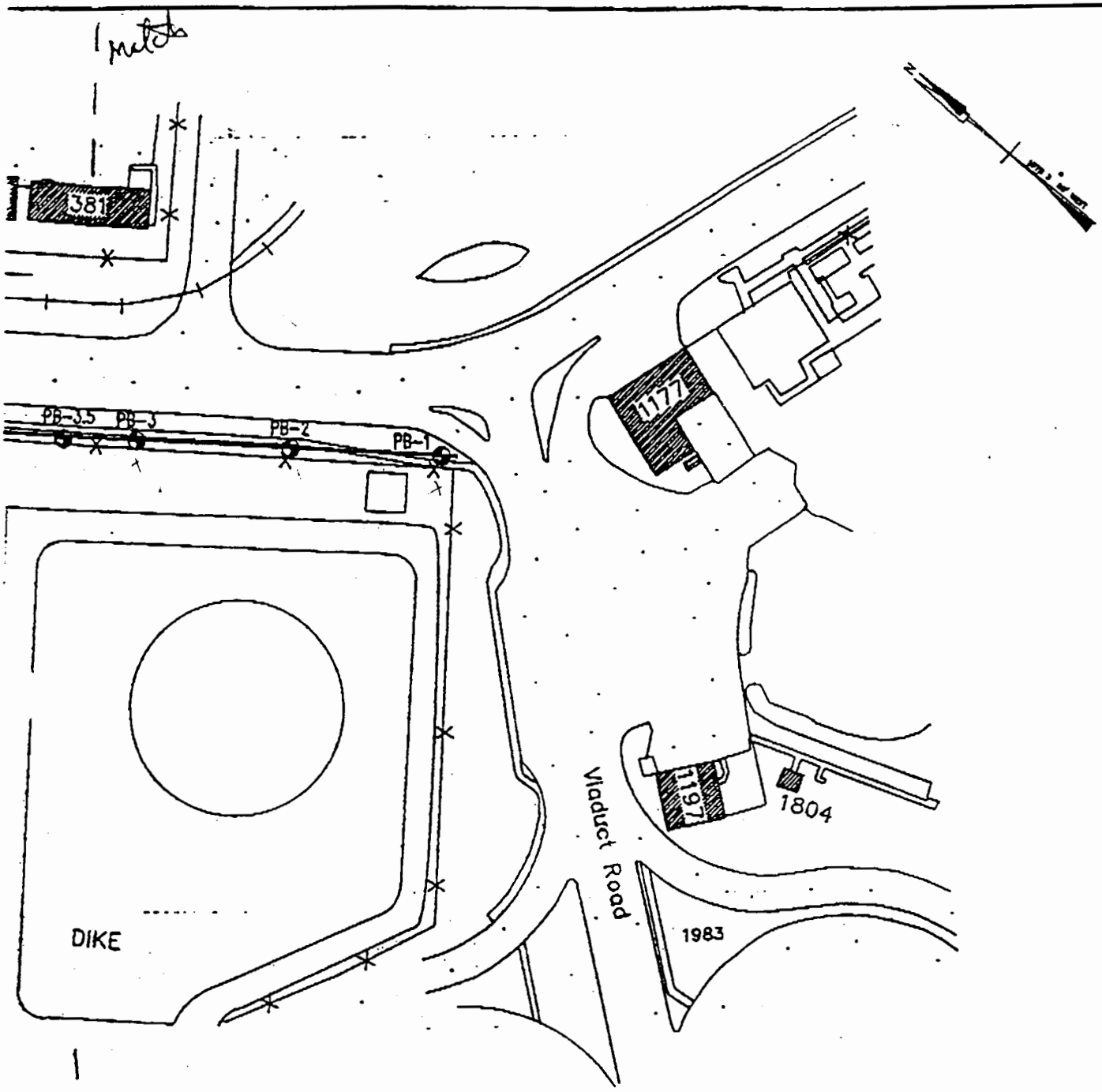

Note: This Boring Location Plan was derived from a drawing provided by the Charleston Navy Base.

Charleston Branch
840 Low Country Blvd.
Mt Pleasant, South Carolina
29464
(803) 884-0005

TITLE: Site/Sample Location Plan
Naval Supply Center
18" Fuel Line
Charleston Navy Base, South Carolina

FIGURE: 2

SHEET 2 OF 2

MAY 29 '92 9:29 FROM S-MS. INC.-LAS. PAGE.005

TABLE I
SUMMARY OF ANALYTICAL RESULTS

SAMPLE ID#	TPH CONCENTRATION (mg/kg, ppm)
PB-1	820
PB-2	4.5
PB-3	65
PB-3.5	ND*
PB-4	ND
PB-5	ND
PB-6	ND
PB-6.5	ND
PB-7	170
PB-8	ND
PB-8.5	ND
PB-9	1000
PB-10	690

* ND - Not Detected Above Quantitation Limit

3.0 CONCLUSIONS/RECOMMENDATIONS

Significant levels of petroleum related contamination have been confirmed in soil samples collected from the terminal ends of the pipeline under study in the areas of the valve assemblies. An affected area of approximately 200 feet along the pipeline from sample location PB-1 at the valve assembly situated at the intersection of Hobson Avenue and the Viaduct Road entrance to the Navy Base has been identified as well as an approximate 100 foot length along the pipeline starting at the valve assembly on the opposite end of the pipeline. Also, an isolated pocket of contamination has been identified in the area of sample location PB-7. This area has been isolated to an area of 125 feet as indicated by surrounding sample locations PB-6.5 and PB-8.

Due to the detected levels of petroleum related contamination associated with the soil samples collected along the pipeline, appropriate abatement measures should be utilized when performing excavation in the identified problem areas. Also, due to the depth at which the soil samples were collected (soil/groundwater interface) it is likely that the groundwater has been adversely affected by the release. As a result, any dewatering activity to take place in conjunction with the pipeline will be hindered. Excavated contaminated soil and effluent from the dewatering system would be required to be contained, sampled and analyzed to document contaminant levels governing its disposal.

ATTACHMENT I
BORING LOGS AND ORGANIC VAPOR READINGS
NAVY BASE PIPELINE
CHARLESTON, SOUTH CAROLINA

ATTACHMENT I
BORING LOGS AND ORGANIC VAPOR READINGS
NAVY BASE PIPELINE
CHARLESTON, SOUTH CAROLINA

LOCATION			LOCATION		
DEPTH (FT)	OVA READING	REMARKS	DEPTH (FT)	OVA READING	REMARKS
PB-1			PB-2		
0-2	0 PPM	BROWN SILTY SAND	0-2	3.2 PPM	BROWN CLAYEY SAND
2-4	120 PPM	BROWN CLAYEY SAND	2-4	1000+ PPM	BROWN CLAYEY SAND
4-6	1000+ PPM	BROWN CLAYEY SAND	4-6	480 PPM	BROWN CLAYEY SAND
* ODOR NOTED			* ODOR NOTED		
PB-3			PB-3.5		
0-2	0 PPM	BROWN SILTY SAND	0-2	0 PPM	BROWN SILTY SAND
2-4	3.6 PPM	BROWN SILTY SAND	2-4	0 PPM	BROWN SILTY SAND
4-6	1000+ PPM	BROWN SILTY CLAY	4-6	350 PPM	BLACK CLAY
* ODOR NOTED					
PB-4			PB-5		
0-2	0 PPM	TAN SILTY SAND	0-2	0 PPM	BROWN SILTY CLAY
2-4	0 PPM	TAN SILTY SAND	2-4	0 PPM	BROWN SILTY CLAY
4-6	10 PPM	TAN SILTY SAND	4-6	30 PPM	BLACK CLAY (MARSH MUD)
PB-6			PB-6.5		
0-2	0 PPM	BROWN SILTY CLAY	0-2	125 PPM	BROWN SILTY CLAY
2-4	120 PPM	BROWN SILTY CLAY	2-4	130 PPM	BROWN SILTY CLAY
4-6	660 PPM	BLACK CLAY CLAY	4-6	1000+ PPM	BLACK MUD

ATTACHMENT I (CONTINUED)
BORING LOGS AND ORGANIC VAPOR READINGS
NAVY BASE PIPELINE
CHARLESTON, SOUTH CAROLINA

LOCATION			LOCATION		
DEPTH (FT)	OVA READING	REMARKS	DEPTH (FT)	OVA READING	REMARKS
PB-7			PB-8		
0-2	250 PPM	BROWN SILTY CLAY	0-2	5.4 PPM	TAN SILTY SAND
2-4	275 PPM	BROWN SILTY CLAY	2-4	32 PPM	TAN SILTY SAND
4-6	200 PPM	BROWN SILTY CLAY	4-6	2 PPM	GREY SILTY CLAY
* ODOR NOTED					
PB-8.5			PB-9		
0-2	0 PPM	BROWN SILTY SAND	0-2	0 PPM	BROWN SILTY CLAY
2-4	0 PPM	BROWN SILTY SAND	2-4	1.5 PPM	BROWN SILTY CLAY
4-6	5 PPM	GREY SILTY CLAY	4-6	120 PPM	BROWN SILTY CLAY
PB-10					
0-2	3.2 PPM	BROWN SILTY CLAY			
2-4	35 PPM	BROWN SILTY CLAY			
4-6	170 PPM	BROWN SILTY CLAY			

ATTACHMENT II

ANALYTICAL RESULTS
NAVY BASE PIPELINE
CHARLESTON, SOUTH CAROLINA

LAFAYETTE LAB
P.O. BOX 91780
LAFAYETTE, LA
ZIP 70593-1780
PHONE: (318) 984-2374

SPL

****SUMMARY REPORT*****

Client: S&ME ENVIRONMENTAL & GEO.

Site: NAVY PIPELINE
S&ME/ CHARLESTON, SC

Project: 1134-92-236

SPL ID	CLIENT ID	MATRIX	BENZENE	TOLUENE	ETHYLBENZ.	XYLENE	TPH-IR	TPH-GC	LEAD	MTBE
9205014-01	PB-1	Soil						820mg/Kg		
9205014-02	PB-2	Soil						4.5mg/Kg		
9205014-03	PB-3	Soil						65mg/Kg		
9205014-04	PB-4	Soil						NDmg/Kg		
9205014-05	PB-5	Soil						NDmg/Kg		
9205014-06	PB-6	Soil						NDmg/Kg		
9205014-07	PB-7	Soil						170mg/Kg		
9205014-08	PB-8	Soil						NDmg/Kg		
9205014-09	PB-9	Soil						1000mg/Kg		
9205014-10	PB-10	Soil						690mg/Kg		
9205014-11	PB-3.5	Soil						NDmg/Kg		
9205014-12	PB-6.5	Soil						NDmg/Kg		
9205014-13	PB-8.5	Soil						NDmg/Kg		

TPH-GC - Method-Mod. Cal. DHS-Diesel

LAFAYETTE LAB
P.O. BOX 31780
LAFAYETTE, LA
ZIP 70593-1780
PHONE: (318) 984-2374

SPL Certificate of Analysis No. 9205014-01

S&ME ENVIRONMENTAL & GEO.
840 LOW COUNTRY BLVD.
MOUNT PLEASANT, SC 29464

Attn: HUGH CONNOLLY 05/11/92

Project: 1134-92-236
Site: NAVY PIPELINE
S&ME/ CHARLESTON,SC

Sample No: PB-1
Sample of: Soil
Sampled by: S&ME ENVIRONMENTAL & GEO.
Sample Date: 05/04/92 00:00:00
Sample Received: 05/07/92

A N A L Y T I C A L R E S U L T S

PARAMETER	RESULTS		PQL*
TOTAL PETROLEUM HYDROCARBONS Method-Mod. Cal. DHS-Diesel	820	mg/Kg	3.3

Method-CA DHS/DRO ANALYZED BY Tai Sun DATE/TIME: 05/10/92

PQL* = Practical Quantitation Limit
ND = Parameter analyzed for but not detected.

BB-4

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance.
SPL Certification #73004 #Ref: LUFT Field Manual, CA DHS, May 1988

SPL, Incorporated

C. A. Guardia

LAFAYETTE LAB
P.O. BOX 31780
LAFAYETTE, LA
ZIP 70593-1780
PHONE: (318) 984-2374

Certificate of Analysis No. 9205014-02

S&ME ENVIRONMENTAL & GEO.
840 LOW COUNTRY BLVD.
MOUNT PLEASANT, SC 29464

Attn: HUGH CONNOLLY

05/11/92

Project: 1134-92-236
Site: NAVY PIPELINE
S&ME/ CHARLESTON,SC

Sample No: PB-2
Sample of: Soil
Sampled by: S&ME ENVIRONMENTAL & GEO.
Sample Date: 05/04/92 00:00:00
Sample Received: 05/07/92

A N A L Y T I C A L R E S U L T S

PARAMETER	RESULTS		PQL*
TOTAL PETROLEUM HYDROCARBONS Method-Mod. Cal. DHS-Diesel	4.5	mg/Kg	3.3

Method-CA DHS/DRO ANALYZED BY Tai Sun DATE/TIME: 05/10/92

PQL* = Practical Quantitation Limit
ND = Parameter analyzed for but not detected.

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QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance.
SPL Certification #73004 #Ref: LUFT Field Manual, CA DHS, May 1988

SPL, Incorporated

C. A. Guardia

LAFAYETTE LAB
P.O. BOX 31780
LAFAYETTE, LA
ZIP 70593-1780
PHONE: (318) 984-2374

SPL Certificate of Analysis No. 9205014-03

S&ME ENVIRONMENTAL & GEO.
840 LOW COUNTRY BLVD.
MOUNT PLEASANT, SC 29464

Attn: HUGH CONNOLLY 05/11/92

Project: 1134-92-236
Site: NAVY PIPELINE
S&ME/ CHARLESTON,SC

Sample No: PB-3
Sample of: Soil
Sampled by: S&ME ENVIRONMENTAL & GEO.
Sample Date: 05/05/92 00:00:00
Sample Received: 05/07/92

A N A L Y T I C A L R E S U L T S

PARAMETER	RESULTS		PQL*
TOTAL PETROLEUM HYDROCARBONS Method-Mod. Cal. DHS-Diesel	65	mg/Kg	3.3

Method-CA DHS/DRO ANALYZED BY Tai Sun DATE/TIME: 05/10/92

PQL* = Practical Quantitation Limit
ND = Parameter analyzed for but not detected.

BB-4

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance.
SPL Certification #73004 #Ref: LUFT Field Manual, CA DHS, May 1988

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C. A. Guardia

LAFAYETTE LAB
P.O. BOX 31780
LAFAYETTE, LA
ZIP 70593-1780
PHONE: (318) 984-2374

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Certificate of Analysis No. 9205014-04

S&ME ENVIRONMENTAL & GEO.
840 LOW COUNTRY BLVD.
MOUNT PLEASANT, SC 29464

Attn: HUGH CONNOLLY

05/11/92

Project: 1134-92-236
Site: NAVY PIPELINE
S&ME/ CHARLESTON,SC

Sample No: PB-4
Sample of: Soil
Sampled by: S&ME ENVIRONMENTAL & GEO.
Sample Date: 05/05/92 00:00:00
Sample Received: 05/07/92

A N A L Y T I C A L R E S U L T S

PARAMETER	RESULTS		PQL*
TOTAL PETROLEUM HYDROCARBONS Method-Mod. Cal. DHS-Diesel	ND	mg/Kg	3.3

Method-CA DHS/DRO ANALYZED BY Tai Sun DATE/TIME: 05/10/92

PQL* = Practical Quantitation Limit
ND = Parameter analyzed for but not detected.

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SPL, Incorporated

C. A. Guardia

LAFAYETTE LAB
P.O. BOX 31780
LAFAYETTE, LA
ZIP 70593-1780
PHONE: (318) 984-2374

SPL

Certificate of Analysis No. 9205014-05

S&ME ENVIRONMENTAL & GEO.
840 LOW COUNTRY BLVD.
MOUNT PLEASANT, SC 29464

Attn: HUGH CONNOLLY 05/11/92

Project: 1134-92-236
Site: NAVY PIPELINE
S&ME/ CHARLESTON,SC

Sample No: PB-5
Sample of: Soil
Sampled by: S&ME ENVIRONMENTAL & GEO.
Sample Date: 05/05/92 00:00:00
Sample Received: 05/07/92

A N A L Y T I C A L R E S U L T S

PARAMETER	RESULTS		PQL*
TOTAL PETROLEUM HYDROCARBONS Method-Mod. Cal. DHS-Diesel	ND	mg/Kg	3.3

Method-CA DHS/DRO ANALYZED BY Tai Sun DATE/TIME: 05/10/92

PQL* = Practical Quantitation Limit
ND = Parameter analyzed for but not detected.

BB-4

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C. A. Guardia

LAFAYETTE LAB
P.O. BOX 31780
LAFAYETTE, LA
ZIP 70593-1780
PHONE: (318) 984-2374

SPL

Certificate of Analysis No. 9205014-06

S&ME ENVIRONMENTAL & GEO.
840 LOW COUNTRY BLVD.
MOUNT PLEASANT, SC 29464

Attn: HUGH CONNOLLY

05/11/92

Project:	1134-92-236
Site:	NAVY PIPELINE S&ME/ CHARLESTON,SC
Sample No:	PB-6
Sample of:	Soil
Sampled by:	S&ME ENVIRONMENTAL & GEO.
Sample Date:	05/05/92 00:00:00
Sample Received:	05/07/92

A N A L Y T I C A L R E S U L T S

PARAMETER	RESULTS		PQL*
TOTAL PETROLEUM HYDROCARBONS Method-Mod. Cal. DHS-Diesel	ND	mg/Kg	3.3

Method-CA DHS/DRO ANALYZED BY Tai Sun DATE/TIME: 05/10/92

PQL* = Practical Quantitation Limit
ND = Parameter analyzed for but not detected.

BB-4

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SPL Certification #73004 #Ref: LUFT Field Manual, CA DHS, May 1988

SPL, Incorporated

C. A. Guardia

LAFAYETTE LAB
P.O. BOX 31780
LAFAYETTE, LA
ZIP 70503-1780
PHONE: (318) 984-2374

SPL

Certificate of Analysis No. 9205014-07

S&ME ENVIRONMENTAL & GEO.
840 LOW COUNTRY BLVD.
MOUNT PLEASANT, SC 29464

Attn: HUGH CONNOLLY

05/11/92

Project: 1134-92-236
Site: NAVY PIPELINE
S&ME/ CHARLESTON,SC

Sample No: PB-7
Sample of: Soil
Sampled by: S&ME ENVIRONMENTAL & GEO.
Sample Date: 05/05/92 00:00:00
Sample Received: 05/07/92

A N A L Y T I C A L R E S U L T S

PARAMETER	RESULTS		PQL*
TOTAL PETROLEUM HYDROCARBONS Method-Mod. Cal. DHS-Diesel	170	mg/Kg	3.3

Method-CA DHS/DRO ANALYZED BY Tai Sun DATE/TIME: 05/10/92

PQL* = Practical Quantitation Limit
ND = Parameter analyzed for but not detected.

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C. A. Guardia

LAFAYETTE LAB
P.O. BOX 31780
LAFAYETTE, LA
ZIP 70593-1780
PHONE: (318) 984-2374

SPL Certificate of Analysis No. 9205014-08

S&ME ENVIRONMENTAL & GEO.
840 LOW COUNTRY BLVD.
MOUNT PLEASANT, SC 29464

Attn: HUGH CONNOLLY 05/11/92

Project: 1134-92-236
Site: NAVY PIPELINE
S&ME/ CHARLESTON,SC

Sample No: PB-8
Sample of: Soil
Sampled by: S&ME ENVIRONMENTAL & GEO.
Sample Date: 05/05/92 00:00:00
Sample Received: 05/07/92

A N A L Y T I C A L R E S U L T S

PARAMETER	RESULTS		PQL*
TOTAL PETROLEUM HYDROCARBONS Method-Mod. Cal. DHS-Diesel	ND	mg/Kg	3.3

Method-CA DHS/DRO ANALYZED BY Tai Sun DATE/TIME: 05/10/92

PQL* = Practical Quantitation Limit
ND = Parameter analyzed for but not detected.

BB-4

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SPL Certification #73004 #Ref: LUFT Field Manual, CA DHS, May 1988

SPL, Incorporated

C. A. Guardia

LAFAYETTE LAB
P.O. BOX 31780
LAFAYETTE, LA
ZIP 70593-1780
PHONE: (318) 984-2374

SPL Certificate of Analysis No. 9205014-09

S&ME ENVIRONMENTAL & GEO.
840 LOW COUNTRY BLVD.
MOUNT PLEASANT, SC 29464

Attn: HUGH CONNOLLY 05/11/92

Project: 1134-92-236
Site: NAVY PIPELINE
S&ME/ CHARLESTON,SC

Sample No: PB-9
Sample of: Soil
Sampled by: S&ME ENVIRONMENTAL & GEO.
Sample Date: 05/06/92 00:00:00
Sample Received: 05/07/92

A N A L Y T I C A L R E S U L T S

PARAMETER	RESULTS		PQL*
TOTAL PETROLEUM HYDROCARBONS Method-Mod. Cal. DHS-Diesel	1000	mg/Kg	3.3

Method-CA DHS/DRO ANALYZED BY Tai Sun DATE/TIME: 05/10/92

PQL* = Practical Quantitation Limit
ND = Parameter analyzed for but not detected.

BB-4

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance.
SPL Certification #73004 #Ref: LUFT Field Manual, CA DHS, May 1988

SPL, Incorporated

C. A. Guardia

LAFAYETTE LAB
P.O. BOX 31780
LAFAYETTE, LA
ZIP 70593-1780
PHONE: (318) 984-2374

Certificate of Analysis No. 9205014-10

S&ME ENVIRONMENTAL & GEO.
840 LOW COUNTRY BLVD.
MOUNT PLEASANT, SC 29464

Attn.: HUGH CONNOLLY

05/11/92

Project: 1134-92-236
Site: NAVY PIPELINE
S&ME/ CHARLESTON,SC

Sample No: PB-10
Sample of: Soil
Sampled by: S&ME ENVIRONMENTAL & GEO.
Sample Date: 05/06/92 00:00:00
Sample Received: 05/07/92

A N A L Y T I C A L R E S U L T S

PARAMETER	RESULTS		PQL*
TOTAL PETROLEUM HYDROCARBONS Method-Mod. Cal. DHS-Diesel	690	mg/Kg	3.3

Method-CA DHS/DRO ANALYZED BY Tai Sun DATE/TIME: 05/10/92

PQL* = Practical Quantitation Limit
ND = Parameter analyzed for but not detected.

BB-4

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance.
SPL Certification #73004 #Ref: LUFT Field Manual, CA DHS, May 1988

SPL, Incorporated

C. A. Guardia

LAFAYETTE LAB
P.O. BOX 31780
LAFAYETTE, LA
ZIP 70593-1780
PHONE: (318) 984-2374

Certificate of Analysis No. 9205014-11

S&ME ENVIRONMENTAL & GEO.
840 LOW COUNTRY BLVD.
MOUNT PLEASANT, SC 29464

Attn: HUGH CONNOLLY

05/11/92

Project: 1134-92-236
Site: NAVY PIPELINE
S&ME/ CHARLESTON,SC

Sample No: PB-3.5
Sample of: Soil
Sampled by: S&ME ENVIRONMENTAL & GEO.
Sample Date: 05/05/92 00:00:00
Sample Received: 05/07/92

A N A L Y T I C A L R E S U L T S

PARAMETER	RESULTS		PQL*
TOTAL PETROLEUM HYDROCARBONS Method-Mod. Cal. DHS-Diesel	ND	mg/Kg	3.3

Method-CA DHS/DRO ANALYZED BY Tai Sun DATE/TIME: 05/10/92

PQL* = Practical Quantitation Limit
ND = Parameter analyzed for but not detected.

BB-4

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance.
SPL Certification #73004 #Ref: LUFT Field Manual, CA DHS, May 1988

SPL, Incorporated

C. A. Guardia

LAFAYETTE LAB
P.O. BOX 31780
LAFAYETTE, LA
ZIP 70593-1780
PHONE: (318) 984-2374

SPL Certificate of Analysis No. 9205014-12

S&ME ENVIRONMENTAL & GEO.
840 LOW COUNTRY BLVD.
MOUNT PLEASANT, SC 29464

Attn: HUGH CONNOLLY 05/11/92

Project: 1134-92-236
Site: NAVY PIPELINE
S&ME/ CHARLESTON,SC

Sample No: PB-6.5
Sample of: Soil
Sampled by: S&ME ENVIRONMENTAL & GEO.
Sample Date: 05/05/92 00:00:00
Sample Received: 05/07/92

A N A L Y T I C A L R E S U L T S

PARAMETER	RESULTS		PQL*
TOTAL PETROLEUM HYDROCARBONS Method-Mod. Cal. DHS-Diesel	ND	mg/Kg	3.3

Method-CA DHS/DRO ANALYZED BY Tai Sun DATE/TIME: 05/10/92

PQL* = Practical Quantitation Limit
ND = Parameter analyzed for but not detected.

BB-4

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance.
SPL Certification #73004 #Ref: LUFT Field Manual, CA DHS, May 1988

SPL, Incorporated

C. A. Guardia

LAFAYETTE LAB
P.O. BOX 31780
LAFAYETTE, LA
ZIP 70593-1780
PHONE: (318) 984-2374

SPL Certificate of Analysis No. 9205014-13

S&ME ENVIRONMENTAL & GEO.
840 LOW COUNTRY BLVD.
MOUNT PLEASANT, SC 29464

Attn: HUGH CONNOLLY 05/11/92

Project:	1134-92-236
Site:	NAVY PIPELINE S&ME/ CHARLESTON,SC
Sample No:	PB-8.5
Sample of:	Soil
Sampled by:	S&ME ENVIRONMENTAL & GEO.
Sample Date:	05/06/92 00:00:00
Sample Received:	05/07/92

A N A L Y T I C A L R E S U L T S

PARAMETER	RESULTS		PQL*
TOTAL PETROLEUM HYDROCARBONS Method-Mod. Cal. DHS-Diesel	ND	mg/Kg	3.3

Method-CA DHS/DRO ANALYZED BY Tai Sun DATE/TIME: 05/10/92

PQL* = Practical Quantitation Limit
ND = Parameter analyzed for but not detected.

BB-4

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance.
SPL Certification #73004 #Ref: LUFT Field Manual, CA DHS, May 1988

SPL, Incorporated

C. A. Guardia

LAFAYETTE LAB
P.O. BOX 31780
LAFAYETTE, LA
ZIP 70593-1780
PHONE: (318) 984-2374

SPL

** SPL QUALITY CONTROL REPORT **

Matrix: SOIL

Reported on: 05-12-92
Analyzed on: 05-08-92
Analyst: T. SUN

This sample was randomly selected for use in the SPL quality control program. Samples chosen are fortified with a known concentration in duplicate. The results are as follows:

TOTAL PETROLEUM HYDROCARBONS [TPH]
Method- Modified California DHS

SPL Sample ID Number	Blank Value mg/kg	Amt Added mg/kg	Matrix Spike Recovery %	Matrix Spike Duplicate Recovery %	Relative Percent Difference %
505441	ND	167.0	88	107	19.5

SAMPLES IN BATCH: X0505436,437,441,442,447,448,451,452
9205012,9205014

SPL, Incorporated

John Durand, QC Officer

SPL Environmental Laboratories C.
104 Guilbeau Road
Lafayette, Louisiana 70506
(318) 984-2374 Fax: (318) 988-1576
Contact: C. A. Guardia / Karen Lestelle

Analysis Request and Chain of Custody Record

Temp: | Store: (Lab Use Only)

Project No.: 139-92-236
Company/Project Name: NAVY PIPELINE
Project Location/Physical Address: S+ME / CHAS S.C.

Field Sample No./ Identification	Date and Time	Grab	Comp.	Sample Container (Size/Mat'l)	Sample Type (Liquid, Soil Sludge, Etc.)	Preservative	ANALYSIS REQUESTED TEST	ANALYSIS REQUESTED METHOD	Remarks
PB-1	5/4 pm	X		1402	Soil	N/A	TPH/GC	Semi-Vol	heavily oil stained DHS
PB-2	5/4 pm	X		"	"	"	"	"	
PB-3	5/5 Am	X		"	"	"	"	"	
PB-4	5/5 Am	X		"	"	"	"	"	
PB-5	5/5 Am	X		"	"	"	"	"	
PB-6	5/5 pm	X		"	"	"	"	"	Some samples contaminated
PB-7	5/5 pm	X		"	"	"	"	"	
PB-8	5/5 pm	X		"	"	"	"	"	
PB-9	5/6 Am	X		"	"	"	"	"	
PB-10	5/6 Am	X		"	"	"	"	"	

Samplers: (Signature)	Relinquished by: (Signature)	Date: 5/6/92 Time: 18:00	Received by: (Signature)	Date: Time:	Intact
Affiliation	Relinquished by: (Signature)	Date: Time:	Received by: for Laboratory (Signature) B. Taylor	Date: 5/7/92 Time: 1125	Intact

REPORT TO: CONSULTANT'S NAME & ADDRESS:
S+ME ENVIRONMENTAL + GEO.
840 Lowcountry Blvd, Mt. Pleasant S.C. 29464
CONSULTANT'S PHONE #: 803 - 884-0005
CONSULTANT'S W.O. / JOB #:

INVOICE TO: [redacted]
PROJ. MGR.: HUGH CONNOLLY
DIVISION
WORK ORDER #:
UNIT #:

REMARKS:

SPL Environmental Laboratories, I
104 Guilbeau Road
Lafayette, Louisiana 70506
(318) 984-2374 Fax: (318) 988-1576
Contact: C. A. Guardia / Karen Lestelle

Analysis Request and Chain of Custody Record

Temp: | Store: (Lab Use Only)

ject No.	Company/Project Name	Project Location/Physical Address
A-92-236	NAVY BASE PIPELINE	STME / CHAS S.C.

Field mple No./ ntification	Date and Time	Grab	Comp.	Sample Container (Size/Mat'l)	Sample Type (Liquid, Soil Sludge, Etc.)	Preservative	ANALYSIS REQUESTED TEST	ANALYSIS REQUESTED METHOD	Remarks
B-3.5	5/5 PM	X		1 40Z	SOIL	II	TPH/GC	Semi-VOL	
B 6.5	5/5 PM	X		II	II	II	II	II	
B 8.5	5/6 AM	X		II	II	II	II	II	

Samplers: (Signature)	Relinquished by: (Signature)	Date: 5/6/92 Time: 18:00	Received by: (Signature)	Date: Time:	Intact
Affiliation: WARD SPECS	Relinquished by: (Signature)	Date: Time:	Received by: for Laboratory (Signature) B. Taylor	Date: 5/7/92 Time: 11:25	Intact

REPORT TO: CONSULTANT'S NAME & ADDRESS:
SEE PAGE ONE

INVOICE TO: [redacted]

[redacted] PROJ. MGR.:

DIVISION

CONSULTANT'S PHONE #:

[redacted] WORK ORDER #:

CONSULTANT'S W.O. / JOB #:

[redacted] UNIT #:

REMARKS:

Appendix E

Fuel Distribution System
UST 148 Assessment and Closure Report

South Carolina Department of Health and Environmental Control (S.C.D.H.E.C.)
Underground Storage Tank (UST) Assessment Report

Date Received

State Use Only

Submit Completed Form to:
UST Regulatory Section
SCDHEC
2600 Bull Street
Columbia, South Carolina 29201
Telephone (803) 734-5331

I. OWNERSHIP OF UST(S)

Agency/Owner: Southern Division, Naval Facilities Engineering Command, Caretaker Site Office

Mailing Address: P.O. Box 190010

City: N. Charleston State: SC Zip Code: 29419-9010

Area Code: 803 Telephone Number: 743-9985 Contact Person: LCDR Paul Rose

II. SITE IDENTIFICATION AND LOCATION

Site I.D. #: Unregulated

Facility Name: Charleston Naval Base Complex, Building 148

Street Address: Hobson Avenue

City: North Charleston, 29405-2413 County: Charleston

III. CLOSURE INFORMATION

Closure Started: 19 Aug 1996 Closure Completed: 16 July 1997

Number of USTs Closed: 1

N/A
Consultant

SPORTENVDETCHASN
UST Removal Contractor

IV. CERTIFICATION (Read and Sign after completing entire submittal)

I certify that I have personally examined and am familiar with the information submitted in this and all attached documents; and that based on my inquiry of those individuals responsible for obtaining this information, I believe that the submitted information is true, accurate and complete

LCDR Paul Rose
Name (Type or Print)

Signature

South Carolina Department of Health and Environmental Control (S.C.D.H.E.C.)
Underground Storage Tank (UST) Assessment Report

Date Received State Use Only

Submit Completed Form to:
UST Regulatory Section
SCDHEC
2600 Bull Street
Columbia, South Carolina 29201
Telephone (803) 734-5331

I. OWNERSHIP OF UST(S)

Agency/Owner: Southern Division, Naval Facilities Engineering Command, Caretaker Site Office

Mailing Address: P.O. Box 190010

City: N. Charleston State: SC Zip Code: 29419-9010

Area Code: 803 Telephone Number: 743-9985 Contact Person: LCDR Paul Rose

II. SITE IDENTIFICATION AND LOCATION

Site I.D. #: Unregulated

Facility Name: Charleston Naval Base Complex, Building 148

Street Address: Hobson Avenue

City: North Charleston, 29405-2413 County: Charleston

III. CLOSURE INFORMATION

Closure Started: 19 Aug 1996 Closure Completed: 16 July 1997

Number of USTs Closed: 1

N/A	SPORTENVDETCHASN
Consultant	UST Removal Contractor

IV. CERTIFICATION (Read and Sign after completing entire submittal)

I certify that I have personally examined and am familiar with the information submitted in this and all attached documents and that based on my inquiry of those individuals responsible for obtaining this information, I believe that the submitted information is true, accurate and complete.

LCDR Paul Rose
Name (Type or Print)

Signature

V. UST INFORMATION

	Tank 1	Tank 2	Tank 3	Tank 4	Tank 5	Tank 6
A. Product	Fuel Oil					
B. Capacity	20,000 gal					
C. Age	1948					
D. Construction Material	Concrete					
E. Month/Year of Last Use	1987					
F. Depth (ft.) To Base of Tank	4'					
G. Spill Prevention Equipment Y/N	N					
H. Overfill Prevention Equipment Y/N	N					
I. Method of Closure Removed/Filled	R					
J. Visible Corrosion or Pitting Y/N	N					
K. Visible Holes Y/N	N					

L. Method of disposal for any USTs removed from the ground (attach disposal manifests)

UST 148 was a poured concrete holding tank that extended 4' below ground surface level. Because the tank was constructed of concrete and rebar, which is classified as non-hazardous waste, but had contained fuel oil, it was demolished and deposited in Chambers Oakridge Landfill, Inc., 2183 Highway 78, Dorchester, SC, 29437. Chambers is licensed by South Carolina DHEC as a Subtitle "D" landfill. (See Attachment III, Chambers Special Waste Manifest OR-9609015, ticket numbers 18310, 18342, 18373, and 18396.)

M. Method of disposal for any liquid petroleum, sludges, or waste waters removed from the USTs (attach disposal manifests)

UST 148 had been emptied and cleaned prior to base closure. It contained no residual fuel oil or sludge.

N. If any corrosion, pitting, or holes were observed, describe the location and extent for each UST

UST 148's interior and exterior surfaces were inspected prior to demolition. No holes or cracks were found.

VI. PIPING INFORMATION

	Tank 1	Tank 2	Tank 3	Tank 4	Tank 5	Tank 6
A. Construction Material.....	Steel					
B. Distance from UST to Dispenser.....	5' See note 1					
C. Number of Dispensers.....	1 See note 1					
D. Type of System P/S.....	S					
E. Was Piping Removed from the Ground? Y/N....	Y					
F. Visible Corrosion or Pitting Y/N.....	Y					
G. Visible Holes Y/N.....	N					
H. Age.....	1948					

Note 1: Tank 148 temporarily held fuel oil during pipe line repairs and maintenance. It serviced Bldg 98.

I. If any corrosion, pitting, or holes were observed, describe the location and extent for each line.

Corrosion and pitting were present, but no holes were found.

VII. BRIEF SITE DESCRIPTION AND HISTORY

UST 148 is identified in the Final Resource Conservation and Recovery Act (RCRA) Facility Assessment of Naval Base Charleston as part of Area of Concern (AOC) 623. UST 148 was a ground surface level, concrete holding tank which extended approximately 4' below the ground surface. The facility was constructed in 1948 with UST 148 designated as a "stripper tank" to temporarily hold fuel oil while pipeline repairs and maintenance were performed. The tank was connected by two 8" pipelines to Building 98, a pump house, which was 5' away. It was last used in 1987.

Free product and oily soil were found throughout the UST 148 excavation. (See Site Map 3.) The heaviest concentration is located beneath the pipe where soil sample SPORT 0150-2 was collected. Free product was removed to sample the soil, but it returned after several hours. The predemolition inspection of UST 148's interior and exterior walls revealed no holes or cracks; furthermore, the 8" supply and return pipes were also found to be in sound condition. A review of available spill reports, inspection reports, and employee interviews found no documentation of any release at this site. However, numerous spills have been reported at the nearby NSC fuel farm.

Based on the tank being part of AOC 623, the Navy decided to put off any immediate action (removal of contaminated soil) until the soil and groundwater investigation for the AOC was accomplished. In June 1997, it was determined that AOC 623 sampling information, with respect to UST 148, was inconclusive. The RCRA Facility Investigation report has not yet been issued for this zone. The nearest soil boring detailed in the investigation plan was over 50 feet from the tank's former location.

The condition of the tank site from October 1996 to July 1997 was that of a shallow pit filled with rainwater run-off. The area was cordoned off and periodically inspected for any oil or oily sheen on the surface of the water. No free product of any thickness was ever noted, but an oil sheen or iridescence was visible from time to time. The film was removed and clean absorbent pads replaced when ever the sheen was noted. In July 1997, the surface water was removed and processed, the site was again sampled (see samples SPORT 0477-1through 4) and filled with clean fill. Further action at the site is anticipated.

VIII. SITE CONDITIONS

		Yes	No	Unk
A.	Were any petroleum-stained or contaminated soils found in the UST excavation, soil borings, trenches, or monitoring wells? If yes, indicate depth and location on the site map. **[throughout the UST excavation]**	X		
B.	Were any petroleum odors detected in the excavation, soil borings, trenches, or monitoring wells? If yes, indicate location on site map and describe the odor (strong, mild, etc.) **[strong]**	X		
C.	Was water present in the UST excavation, soil borings, or trenches? If yes, how far below land surface (indicate location and depth)? _____		X	
D.	Did contaminated soils remain stockpiled on site after closure? If yes, indicate the stockpile location on the site map. Name of DHEC representative authorizing soil removal: _____		X*	
E.	Was a petroleum sheen or free product detected on any excavation or boring waters? If yes, indicate location and thickness on the site map.		X**	

* Soil was not excavated because the top of UST 148 was above ground surface level. The tank pit was filled with clean soil.

** No groundwater was detected. After the tank was removed, rainwater runoff filled the shallow depression. An iridescent sheen was noted and absorbed periodically.

IX. SAMPLE INFORMATION

S.C.D.H.E.C. Lab Certification Number 10120

Sample #	Location	Sample Type (Soil/Water)	Depth*	Date/Time of Collection	Collected By	OVA#
SPORT 0150-1	UST prior to demo., south corner	Soil	3'	8/23/96 1030	D. Hall	Not Taken
SPORT 0150-2	UST prior to demo., beneath piping	Soil	5'	8/23/96 1042	D. Hall	Not Taken
SPORT 0150-3	UST prior to demo., beneath piping	Soil	4'	8/23/96 1051	D. Hall	Not Taken
SPORT 0150-4	UST prior to demo., north corner	Soil	3'	8/23/96 1103	D. Hall	Not Taken
SPORT 0183-1	UST excavation	Soil	5'	9/27/96 1015	B. Murray	Not Taken
SPORT 0183-2	UST excavation	Soil	4'	9/27/96 1045	B. Murray	Not Taken
SPORT 0188-1	UST excavation, beneath piping	Soil	~4'	10/1/96 1400	R. Atkins	Not Taken
SPORT 0188-2	UST excavation, beneath piping	Soil	~4'	10/1/96 1400	R. Atkins	Not Taken
SPORT 0477-1	UST excavation, east side, prior to backfilling	Soil	~4'	7/16/97 1000	R. Jenkins	Not Taken
SPORT 0477-2	UST excavation, south side, prior to backfilling	Soil	~4'	7/16/97 1010	R. Jenkins	Not Taken
SPORT 0477-3	UST excavation, west side, prior to backfilling	Soil	~4'	7/16/97 1020	R. Jenkins	Not Taken
SPORT 0477-4	UST excavation, north side, prior to backfilling	Soil	~4'	7/16/97 1030	R. Jenkins	Not Taken

* = Depth Below the Surrounding Land Surface

X. SAMPLING METHODOLOGY

Provide a detailed description of the methods used to collect and store (preserve) the samples.

After the removal of UST 148 soil samples were taken. Sampling was performed in accordance with SC DHEC R.61-92 Part 280 and SC DHEC UST Assessment Guidelines.

Sample jars were prepared by the testing laboratory. The grab method was utilized to fill sample containers leaving as little head space as possible and immediately capped. Soil samples were extracted throughout the excavation to characterize the extent of the contamination. UST piping soil samples were taken under the piping at the mechanical connections.

The samples were marked, logged, and immediately placed in sample coolers packed with ice to maintain an approximate temperature of 4° C. Tools were thoroughly cleaned and decontaminated with organic-free soap and water after each sample.

The samples remained in the custody of SPORTENVDETCHASN until they were transferred to General Engineering Laboratories for analysis as documented in the attached Chain-of-Custody Record.

XI. RECEPTORS

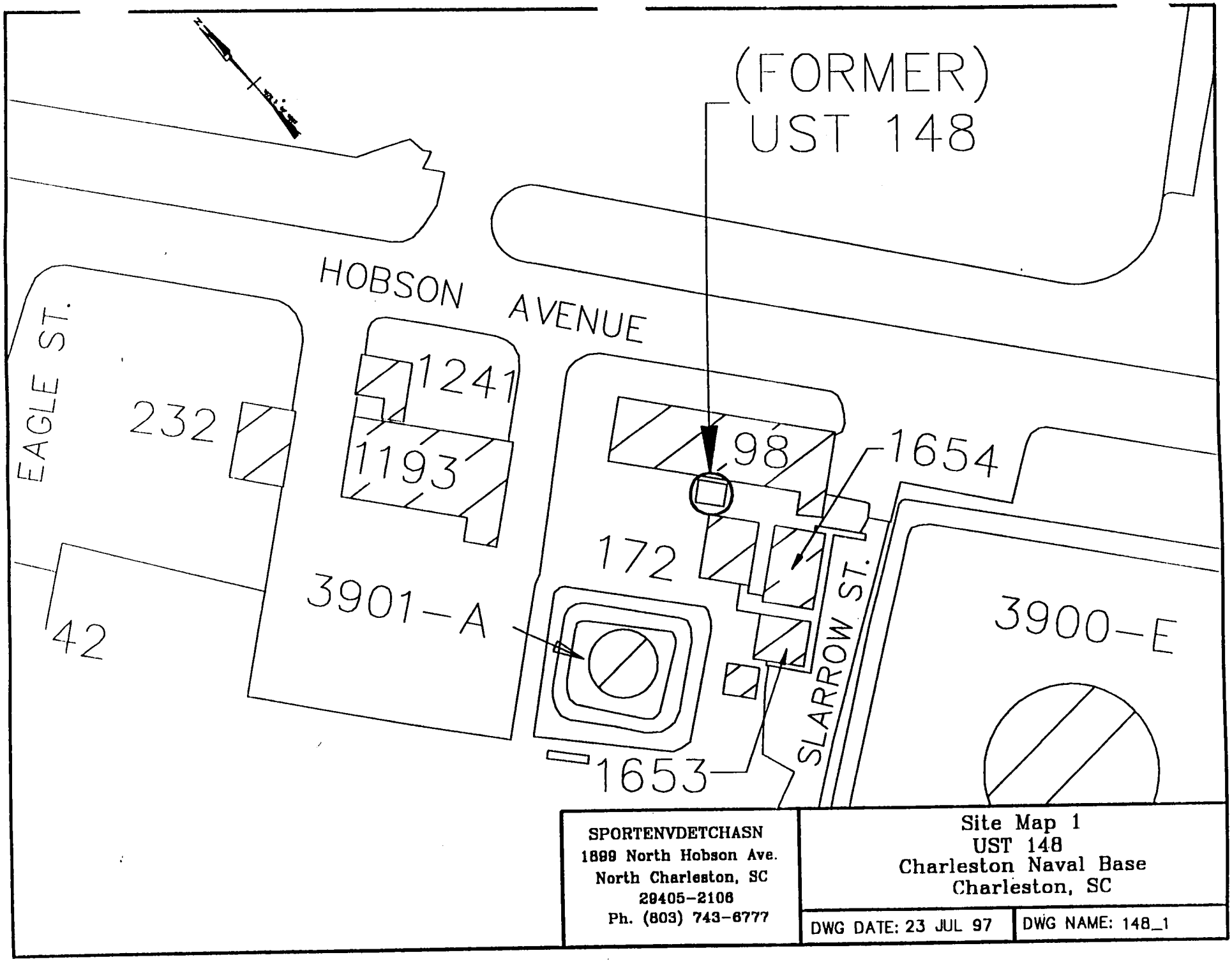
		Yes	No
A.	Are there any lakes, ponds, streams, or wetlands located within 1000 feet of the UST system? If yes, indicate type of receptor, distance, and direction on site map.		X
B.	Are there any public, private, or irrigation water supply wells within 1000 feet of the UST system? If yes, indicate type of well, distance, and direction on site map.		X
C.	Are there any underground structures (e.g., basements) located within 100 feet of the UST system? **[Bldg 98 pump house, 5' from UST 148]** If yes, indicate the type of structure, distance, and direction on site map.	X	
D.	Are there any underground utilities (e.g., telephone, electricity, gas, water, sewer, storm drain) located within 100 feet of the UST system that could potentially come in contact with the contamination? **[sewer]** If yes, indicate the type of utility, distance, and direction on the site map.	X	
E.	Has contaminated soil been identified at a depth of less than 3 feet below land surface in an area that is not capped by asphalt or concrete? If yes, indicate the area of contaminated soil on the site map.		X

Attachment I

SITE MAP

You must supply a scaled site map. It should include all buildings, road names, utilities, tank and pump island locations, sample locations, extent of excavation, and any other pertinent information.

Site Maps 1, 2, and 3
Photographs 1, 2, 3, and 4

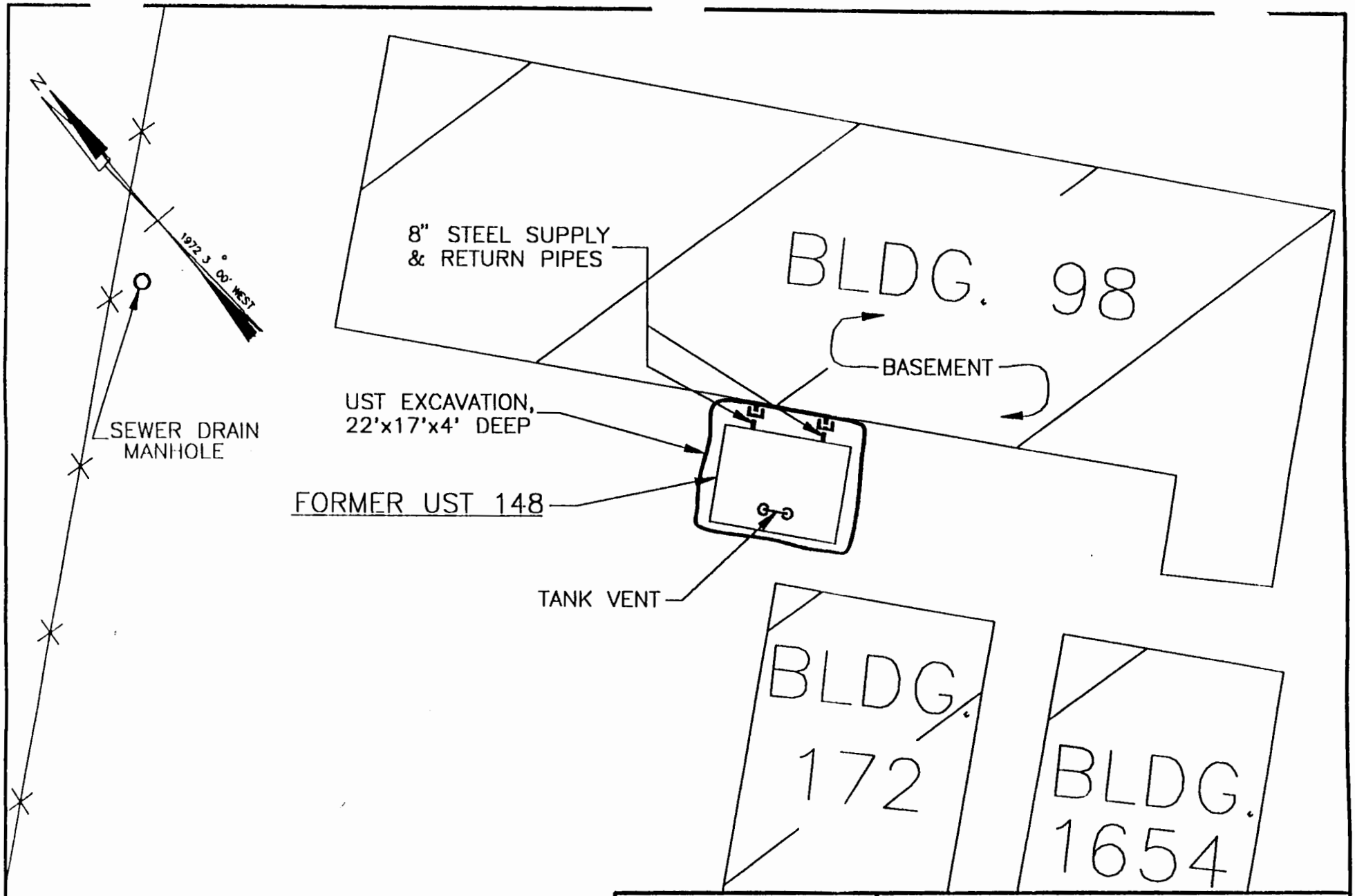


SPORTENVDETCHASN
1899 North Hobson Ave.
North Charleston, SC
29405-2106
Ph. (803) 743-6777

Site Map 1
UST 148
Charleston Naval Base
Charleston, SC

DWG DATE: 23 JUL 97

DWG NAME: 148_1

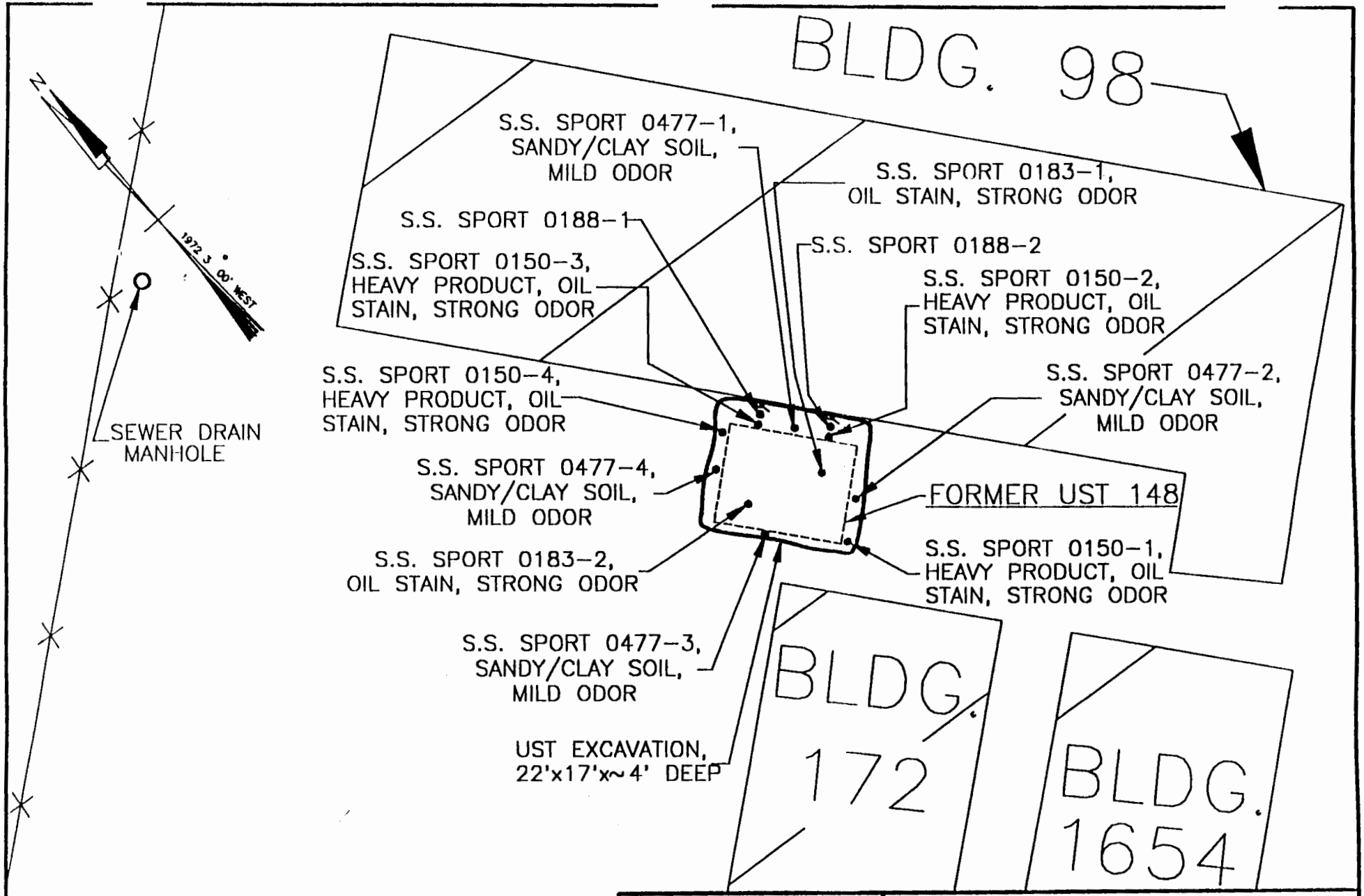


SPORTENVDETCHASN
1899 North Hobson Ave.
North Charleston, SC
29405-2108
Ph. (803) 743-6777

Site Map 2
UST 148
Charleston Naval Base
Charleston, SC

DWG DATE: 15 AUG 97

DWG NAME: 148_2



SPORTENVDETCHASN
1899 North Hobson Ave.
North Charleston, SC
29405-2106
Ph. (803) 743-6777

Site Map 3
UST 148
Charleston Naval Base
Charleston, SC

DWG DATE: 24 JUL 97 | DWG NAME: 148_3

UST 148

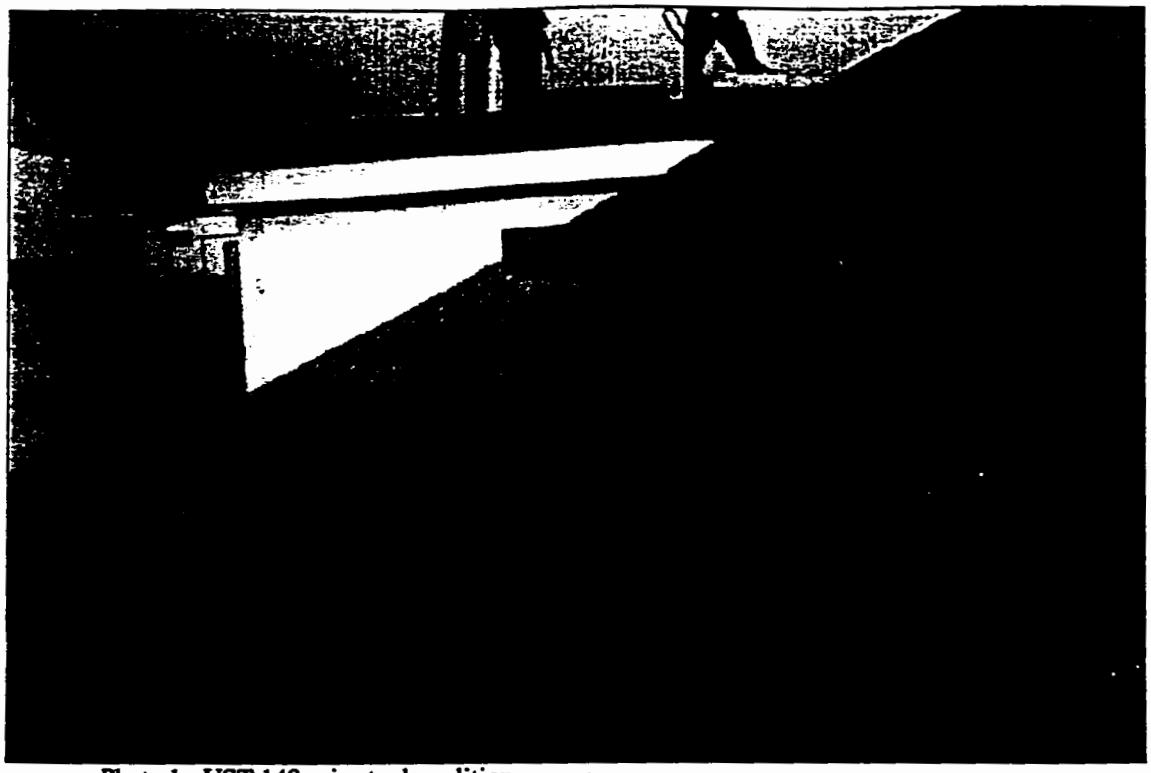


Photo 1: UST 148 prior to demolition.

Photo 2: UST 148 supply piping. The hole being indicated was created by Detachment technicians.

UST 148

Photo 3: UST 148 demolition in progress.

Photo 4: UST 148 excavation.

Attachment II

ANALYTICAL RESULTS

You must submit the laboratory report and chain-of-custody form for the samples. These samples must be analyzed by a South Carolina certified laboratory.

Certified Analytical Results
Chain-of-Custody

GENERAL ENGINEERING LABORATORIES
Meeting today's needs with a vision for tomorrow.

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: September 09, 1996

Sample ID	: SPORT0150-1
Lab ID	: 9608499-01
Matrix	: Soil
Date Collected	: 08/23/96
Date Received	: 08/23/96
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
BTEX - 4 items											
Benzene	U	0.00	1.00	2.00	ug/kg	1.0	THL	08/29/96	0159	89659	1
Ethylbenzene	U	0.00	1.00	2.00	ug/kg	1.0					
Toluene	U	0.00	1.00	2.00	ug/kg	1.0					
Xylenes (TOTAL)	U	0.00	1.00	4.00	ug/kg	1.0					
Naphthalene	U	0.00	1.00	2.00	ug/kg	1.0					
Extractable Organics											
Polynuclear Aromatic Hydrocarbons - 16 items											
Acenaphthene	U	0.00	330	660	ug/kg	1.0	BDG	09/04/96	0134	89865	2
Acenaphthylene	U	0.00	330	660	ug/kg	1.0					
Anthracene	U	0.00	330	660	ug/kg	1.0					
Benzo(a)anthracene		970	330	660	ug/kg	1.0					
Benzo(a)pyrene		957	330	660	ug/kg	1.0					
Benzo(b)fluoranthene		1680	330	660	ug/kg	1.0					
Benzo(ghi)perylene	J	568	330	660	ug/kg	1.0					
Benzo(k)fluoranthene	U	0.00	330	660	ug/kg	1.0					
Chrysene		1170	330	660	ug/kg	1.0					
Dibenzo(a,h)anthracene	U	0.00	330	660	ug/kg	1.0					
Fluoranthene		2400	330	660	ug/kg	1.0					
Fluorene	U	0.00	330	660	ug/kg	1.0					
Indeno(1,2,3-c,d)pyrene	J	462	330	660	ug/kg	1.0					
Naphthalene	U	0.00	330	660	ug/kg	1.0					
Phenanthrene		2260	330	660	ug/kg	1.0					
Pyrene		3040	330	660	ug/kg	1.0					

The following prep procedures were performed:
GC/MS Base/Neutral Compounds TNF 08/31/96 0930 89865 3

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: September 09, 1996

Sample ID : SPORT0150-1

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610	92.7	(30.0 - 115.)
Nitrobenzene-d5	M610	72.4	(23.0 - 120.)
p-Terphenyl-d14	M610	126.	(37.3 - 128.)
Bromofluorobenzene	BTEX-8260	114.	(59.7 - 159.)
Dibromofluoromethane	BTEX-8260	109.	(74.0 - 128.)
Toluene-d8	BTEX-8260	107.	(53.4 - 163.)
Bromofluorobenzene	NAP-8260	114.	(59.7 - 159.)
Dibromofluoromethane	NAP-8260	109.	(74.0 - 128.)
Toluene-d8	NAP-8260	107.	(53.4 - 163.)

M = Method	Method-Description
M 1	EPA 8260
M 2	EPA 8270
M 3	EPA 3550

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

GEL Laboratory Certifications		EPI Laboratory Certifications	
AL - 41040	AZ - AZ0514	AL - 41050	AZ - AZ0514
CA - 2089	CT - PH-0169	CA - I-1023/2056	CT - PH-0175

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Client:	Supervisor of Ship Building & Conversion SUPSHIP-Portsmouth Detachment-Env. 1899 North Hobson Ave. North Charleston, South Carolina 29405-2106
Contact:	Mr. Bill Hiers
Project Description:	SUPSHIP-Portsmouth Detachment

Sample ID : SPORT0150-1

GEL Laboratory Certifications		EPI Laboratory Certifications	
DE - SC012	FL - E87156/87294	FL - E87472/87458	MS - 29417
ME - SC012	MS - 10120	NY - 11502	RI - 138
NC - 233	NY - 11501	SC - 10582	TN - 02934
RI - 135	SC - 10120	UT - E-227	VA - 00111
TN - 02934	UT - E-251	WA - C225	NJ - 79002
VA - 00151	WA - C223	PA - 68-485	WV - 235
WI - 999887790	WV - 236		

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Karen Blakeney

Analytical Report Specialist

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: September 09, 1996

Sample ID : SPORT0150-2
Lab ID : 9608499-02
Matrix : Soil
Date Collected : 08/23/96
Date Received : 08/23/96
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
BTEX - 4 items											
Benzene	U	46.0	50.0	100	ug/kg	50.	THL	08/29/96	0228	89659	1
Ethylbenzene		557	50.0	100	ug/kg	50.					
Toluene	U	0.00	50.0	100	ug/kg	50.					
Xylenes (TOTAL)	U	0.00	50.0	100	ug/kg	50.					
Naphthalene		8420	250	500	ug/kg	250	THL	08/29/96	1657	89659	1
Extractable Organics											
Polynuclear Aromatic Hydrocarbons - 16 items											
Acenaphthene	U	0.00	13200	26400	ug/kg	40.	WAM	09/03/96	1521	89865	2
Acenaphthylene	U	0.00	13200	26400	ug/kg	40.					
Anthracene	U	0.00	13200	26400	ug/kg	40.					
Benzo(a)anthracene	U	0.00	13200	26400	ug/kg	40.					
Benzo(a)pyrene	U	0.00	13200	26400	ug/kg	40.					
Benzo(b)fluoranthene	U	0.00	13200	26400	ug/kg	40.					
Benzo(ghi)perylene	U	0.00	13200	26400	ug/kg	40.					
Benzo(k)fluoranthene	U	0.00	13200	26400	ug/kg	40.					
Chrysene	U	0.00	13200	26400	ug/kg	40.					
Dibenzo(a,h)anthracene	U	0.00	13200	26400	ug/kg	40.					
Fluoranthene	U	0.00	13200	26400	ug/kg	40.					
Fluorene	U	0.00	13200	26400	ug/kg	40.					
Indeno(1,2,3-c,d)pyrene	U	0.00	13200	26400	ug/kg	40.					
Naphthalene	U	0.00	13200	26400	ug/kg	40.					
Phenanthrene	U	0.00	13200	26400	ug/kg	40.					
Pyrene	U	0.00	13200	26400	ug/kg	40.					

The following prep procedures were performed:
GC/MS Base/Neutral Compounds

TNF 08/31/96 0930 89865 3

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(803) 556-8171 • Fax (803) 766-1178

Printed on recycled paper.

9608499-02

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: September 09, 1996

Sample ID : SPORT0150-2

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M

Comments:
A dilution was required for Extractable Organics due to matrix interference. As a result, the detection limits are elevated.

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610	0.00*	(30.0 - 115.)
Nitrobenzene-d5	M610	0.00*	(23.0 - 120.)
p-Terphenyl-d14	M610	0.00*	(37.3 - 128.)
Bromofluorobenzene	BTEX-8260	102.	(59.7 - 159.)
Dibromofluoromethane	BTEX-8260	98.0	(74.0 - 128.)
Toluene-d8	BTEX-8260	110.	(53.4 - 163.)
Bromofluorobenzene	NAP-8260	102.	(59.7 - 159.)
Dibromofluoromethane	NAP-8260	98.0	(74.0 - 128.)
Toluene-d8	NAP-8260	110.	(53.4 - 163.)

M = Method	Method-Description
M 1	EPA 8260
M 2	EPA 8270
M 3	EPA 3550

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

GEL Laboratory Certifications EPI Laboratory Certifications

GENERAL ENGINEERING LABORATORIES
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Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: September 09, 1996

Sample ID : SPORT0150-2

GEL Laboratory Certifications		EPI Laboratory Certifications	
AL - 41040	AZ - AZ0514	AL - 41050	AZ - AZ0514
CA - 2089	CT - PH-0169	CA - I-1023/2056	CT - PH-0175
DE - SC012	FL - E87156/87294	FL - E87472/87458	MS - 29417
ME - SC012	MS - 10120	NY - 11502	RI - 138
NC - 233	NY - 11501	SC - 10582	TN - 02934
RI - 135	SC - 10120	UT - E-227	VA - 00111
TN - 02934	UT - E-251	WA - C225	NJ - 79002
VA - 00151	WA - C223	PA - 68-485	WV - 235
WI - 999887790	WV - 236		

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Karen Blakeney
Analytical Report Specialist

GENERAL ENGINEERING LABORATORIES
Meeting today's needs with a vision for tomorrow.

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: September 09, 1996

Sample ID	: SPORT0150-3
Lab ID	: 9608499-03
Matrix	: Soil
Date Collected	: 08/23/96
Date Received	: 08/23/96
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
BTEX - 4 items											
Benzene	U	0.00	50.0	100	ug/kg	50.	THL	08/29/96	0256	89659	1
Ethylbenzene	U	0.00	50.0	100	ug/kg	50.					
Toluene	U	0.00	50.0	100	ug/kg	50.					
Xylenes (TOTAL)	U	0.00	50.0	100	ug/kg	50.					
Naphthalene		181	50.0	100	ug/kg	50.					
Extractable Organics											
Polynuclear Aromatic Hydrocarbons - 16 items											
Acenaphthene	U	0.00	26000	52000	ug/kg	40.	WAM	09/03/96	1553	89865	2
Acenaphthylene	U	0.00	26000	52000	ug/kg	40.					
Anthracene	U	0.00	26000	52000	ug/kg	40.					
Benzo(a)anthracene	U	0.00	26000	52000	ug/kg	40.					
Benzo(a)pyrene	U	0.00	26000	52000	ug/kg	40.					
Benzo(b)fluoranthene	U	0.00	26000	52000	ug/kg	40.					
Benzo(ghi)perylene	U	0.00	26000	52000	ug/kg	40.					
Benzo(k)fluoranthene	U	0.00	26000	52000	ug/kg	40.					
Chrysene	U	0.00	26000	52000	ug/kg	40.					
Dibenzo(a,h)anthracene	U	0.00	26000	52000	ug/kg	40.					
Fluoranthene	U	0.00	26000	52000	ug/kg	40.					
Fluorene	U	0.00	26000	52000	ug/kg	40.					
Indeno(1,2,3-c,d)pyrene	U	0.00	26000	52000	ug/kg	40.					
Naphthalene	U	0.00	26000	52000	ug/kg	40.					
Phenanthrene	U	0.00	26000	52000	ug/kg	40.					
Pyrene	U	0.00	26000	52000	ug/kg	40.					

The following prep procedures were performed:

GC/MS Base/Neutral Compounds TNF 08/31/96 0930 89865 3

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(803) 556-8171 • Fax (803) 766-1178

Printed on recycled paper.

9608499-03

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: September 09, 1996

Sample ID : SPORT0150-3

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M

Comments:
A dilution was required for Extractable Organics due to matrix interference. As a result, the detection limits are elevated.

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610	0.00*	(30.0 - 115.)
Nitrobenzene-d5	M610	0.00*	(23.0 - 120.)
p-Terphenyl-d14	M610	0.00*	(37.3 - 128.)
Bromofluorobenzene	BTEX-8260	114.	(59.7 - 159.)
Dibromofluoromethane	BTEX-8260	118.	(74.0 - 128.)
Toluene-d8	BTEX-8260	109.	(53.4 - 163.)
Bromofluorobenzene	NAP-8260	114.	(59.7 - 159.)
Dibromofluoromethane	NAP-8260	118.	(74.0 - 128.)
Toluene-d8	NAP-8260	109.	(53.4 - 163.)

M = Method	Method-Description
M 1	EPA 8260
M 2	EPA 8270
M 3	EPA 3550

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

GEL Laboratory Certifications EPI Laboratory Certifications

GENERAL ENGINEERING LABORATORIES
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Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

Sample ID : SPORT0150-3

GEL Laboratory Certifications		EPI Laboratory Certifications	
AL - 41040	AZ - AZ0514	AL - 41050	AZ - AZ0514
CA - 2089	CT - PH-0169	CA - I-1023/2056	CT - PH-0175
DE - SC012	FL - E87156/87294	FL - E87472/87458	MS - 29417
ME - SC012	MS - 10120	NY - 11502	RI - 138
NC - 233	NY - 11501	SC - 10582	TN - 02934
RI - 135	SC - 10120	UT - E-227	VA - 00111
TN - 02934	UT - E-251	WA - C225	NJ - 79002
VA - 00151	WA - C223	PA - 68-485	WV - 235
WI - 999887790	WV - 236		

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Karen Blakeney
Analytical Report Specialist

GENERAL ENGINEERING LABORATORIES

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Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: September 09, 1996

Sample ID	: SPORT0150-4
Lab ID	: 9608499-04
Matrix	: Soil
Date Collected	: 08/23/96
Date Received	: 08/23/96
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
BTEX - 4 items											
Benzene	U	0.00	50.0	100	ug/kg	50.	THL	08/29/96	0325	89659	1
Ethylbenzene	U	0.00	50.0	100	ug/kg	50.					
Toluene	U	0.00	50.0	100	ug/kg	50.					
Xylenes (TOTAL)	U	26.0	50.0	100	ug/kg	50.					
Naphthalene		235	50.0	100	ug/kg	50.					
Extractable Organics											
Polynuclear Aromatic Hydrocarbons - 16 items											
Acenaphthene	U	0.00	26600	53200	ug/kg	40.	WAM	09/03/96	1626	89865	2
Acenaphthylene	U	0.00	26600	53200	ug/kg	40.					
Anthracene	U	0.00	26600	53200	ug/kg	40.					
Benzo(a)anthracene	U	0.00	26600	53200	ug/kg	40.					
Benzo(a)pyrene	U	0.00	26600	53200	ug/kg	40.					
Benzo(b)fluoranthene	U	0.00	26600	53200	ug/kg	40.					
Benzo(ghi)perylene	U	0.00	26600	53200	ug/kg	40.					
Benzo(k)fluoranthene	U	0.00	26600	53200	ug/kg	40.					
Chrysene	U	0.00	26600	53200	ug/kg	40.					
Dibenzo(a,h)anthracene	U	0.00	26600	53200	ug/kg	40.					
Fluoranthene	U	0.00	26600	53200	ug/kg	40.					
Fluorene	U	0.00	26600	53200	ug/kg	40.					
Indeno(1,2,3-c,d)pyrene	U	0.00	26600	53200	ug/kg	40.					
Naphthalene	U	0.00	26600	53200	ug/kg	40.					
Phenanthrene	U	0.00	26600	53200	ug/kg	40.					
Pyrene	U	0.00	26600	53200	ug/kg	40.					

The following prep procedures were performed:

GC/MS Base/Neutral Compounds TNF 08/31/96 0930 89865 3

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: September 09, 1996

Sample ID : SPORT0150-4

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M

Comments:
A dilution was required for Extractable Organics due to matrix interference. As a result, the detection limits are elevated.

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610	0.00*	(30.0 - 115.)
Nitrobenzene-d5	M610	0.00*	(23.0 - 120.)
p-Terphenyl-d14	M610	0.00*	(37.3 - 128.)
Bromofluorobenzene	BTEX-8260	124.	(59.7 - 159.)
Dibromofluoromethane	BTEX-8260	120.	(74.0 - 128.)
Toluene-d8	BTEX-8260	115.	(53.4 - 163.)
Bromofluorobenzene	NAP-8260	124.	(59.7 - 159.)
Dibromofluoromethane	NAP-8260	120.	(74.0 - 128.)
Toluene-d8	NAP-8260	115.	(53.4 - 163.)

M = Method	Method-Description
M 1	EPA 8260
M 2	EPA 8270
M 3	EPA 3550

Notes:
The qualifiers in this report are defined as follows:
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J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

GEL Laboratory Certifications EPI Laboratory Certifications

GENERAL ENGINEERING LABORATORIES

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Client:	Supervisor of Ship Building & Conversion SUPSHIP-Portsmouth Detachment-Env. 1899 North Hobson Ave. North Charleston, South Carolina 29405-2106
Contact:	Mr. Bill Hiers
Project Description:	SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: September 09, 1996

Sample ID : SPORT0150-4

GEL Laboratory Certifications		EPI Laboratory Certifications	
AL - 41040	AZ - AZ0514	AL - 41050	AZ - AZ0514
CA - 2089	CT - PH-0169	CA - I-1023/2056	CT - PH-0175
DE - SC012	FL - E87156/87294	FL - E87472/87458	MS - 29417
ME - SC012	MS - 10120	NY - 11502	RI - 138
NC - 233	NY - 11501	SC - 10582	TN - 02934
RI - 135	SC - 10120	UT - E-227	VA - 00111
TN - 02934	UT - E-251	WA - C225	NJ - 79002
VA - 00151	WA - C223	PA - 68-485	WV - 235
WI - 999887790	WV - 236		

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Karen Blakeney

Analytical Report Specialist

GENERAL ENGINEERING LABORATORIES

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CERTIFICATE OF ANALYSIS

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: August 30, 1996

Sample ID : SPORT0150-5
Lab ID : 9608499-05
Matrix : GroundH2O
Date Collected : 08/23/96
Date Received : 08/23/96
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
BTEX - 4 items											
Benzene	U	0.00	1.00	2.00	ug/l	1.0	JLS	08/28/96	1756	89692	
Ethylbenzene	U	0.00	1.00	2.00	ug/l	1.0					
Toluene	U	0.00	1.00	2.00	ug/l	1.0					
Xylenes (TOTAL)	U	0.00	1.00	4.00	ug/l	1.0					
Naphthalene	U	0.00	1.00	2.00	ug/l	1.0					

Surrogate Recovery	Test	Percent%	Acceptable Limits
Bromofluorobenzene	BTEX-8260	107.	(80.0 - 128.)
Dibromofluoromethane	BTEX-8260	102.	(67.7 - 135.)
Toluene-d8	BTEX-8260	102.	(76.8 - 122.)
Bromofluorobenzene	NAP-8260	107.	(80.0 - 128.)
Dibromofluoromethane	NAP-8260	102.	(67.7 - 135.)
Toluene-d8	NAP-8260	102.	(76.8 - 122.)

M = Method	Method-Description
M 1	EPA 8260

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CERTIFICATE OF ANALYSIS

Client:	Supervisor of Ship Building & Conversion SUPSHIP-Portsmouth Detachment-Env. 1899 North Hobson Ave. North Charleston, South Carolina 29405-2106
Contact:	Mr. Bill Hiers
Project Description:	SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: August 30, 1996

Sample ID : SPORT0150-5

M = Method	Method-Description

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

GEL Laboratory Certifications		EPI Laboratory Certifications	
AL - 41040	AZ - AZ0514	AL - 41050	AZ - AZ0514
CA - 2089	CT - PH-0169	CA - I-1023/2056	CT - PH-0175
DE - SC012	FL - E87156/87294	FL - E87472/87458	MS - 29417
ME - SC012	MS - 10120	NY - 11502	RI - 138
NC - 233	NY - 11501	SC - 10582	TN - 02934
RI - 135	SC - 10120	UT - E-227	VA - 00111
TN - 02934	UT - E-251	WA - C225	NJ - 79002
VA - 00151	WA - C223	PA - 68-485	WV - 235
WI - 999887790	WV - 236		

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CERTIFICATE OF ANALYSIS

Client:	Supervisor of Ship Building & Conversion SUPSHIP-Portsmouth Detachment-Env. 1899 North Hobson Ave. North Charleston, South Carolina 29405-2106
Contact:	Mr. Bill Hiers
Project Description:	SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: August 30, 1996

Sample ID : SPORT0150-5

GEL Laboratory Certifications **EPI Laboratory Certifications**

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Karen Blakeney

Analytical Report Specialist

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PWC 00196

KBB

General Engineering Laboratories, Inc.
2040 Savage Road
Charleston, South Carolina 29414
P.O. Box 30712
Charleston, South Carolina 29417
(803) 556-8171

CHAIN OF CUSTODY RECORD

Page 1 of 1 C1608499

Client Name/Facility Name: SPORTENVDETCHASN

Collected by/Company: SPORTENVDETCHASN

Use F or P in the boxes to indicate whether sample was filtered and/or preserved

CCL 22913

SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods

	SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB	# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type	BTEX PIDS NAPTHALENE	PAH	Remarks	
-01	SPORT0150-1	8/23/96	1030		X	*	*	2																X	X	UST148-1 Soil	.1
-02	SPORT0150-2	8/23/96	1042		X	*	*	2																X	X	UST148-2 Soil	.1
-03	SPORT0150-3	8/23/96	1051		X	*	*	2																X	X	UST148-3 Soil	.1
-04	SPORT0150-4	8/23/96	1103		X	*	*	2																X	X	UST148-4 Soil	.1
-05	SPORT0150-5	8/23/96	0930				X	3																X		UST148 VOA Trip Blank	.2

Relinquished by:	Date:	Time:	Received by:	Relinquished by:	Date:	Time:	Received by:
[signature]	8/23/96	1122	W. R. Hiers, Jr.	W. R. Hiers, Jr.	8/23/96	1517	[signature]
Catharine [signature]	8/23/96	1600	Received by lab by: [signature]	Date: 8-23-96	Time: 1600	Remarks: * BTEX + NAPTHALENE SAMPLES ARE GRAB. PAH SAMPLES ARE COMPOSITE.	

White = sample collector Yellow = file Pink = with report

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Copy

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Laboratory Certifications

STATE	CEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
NY	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: October 07, 1996

Sample ID : SPORT0183-1
Lab ID : 9609571-01
Matrix : Soil
Date Collected : 09/27/96
Date Received : 09/27/96
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
BTEX - 4 items											
Benzene	U	0.00	500	1000	ug/kg	500	JGS2	10/04/96	1250	91672	1
Ethylbenzene		4690	500	1000	ug/kg	500					
Toluene	U	0.00	500	1000	ug/kg	500					
Xylenes (TOTAL)	U	0.00	500	1000	ug/kg	500					
Naphthalene		37500	500	1000	ug/kg	500					
Extractable Organics											
Polynuclear Aromatic Hydrocarbons - 16 items											
Acenaphthene	U	0.00	166	331	ug/kg	1.0	JPA	10/02/96	1850	91449	2
Acenaphthylene	U	0.00	166	331	ug/kg	1.0					
Anthracene	J	90000	66200	132000	ug/kg	400					
Benzo(a)anthracene	U	0.00	166	331	ug/kg	1.0					
Benzo(a)pyrene	U	0.00	166	331	ug/kg	1.0					
Benzo(b)fluoranthene	U	0.00	166	331	ug/kg	1.0					
Benzo(ghi)perylene	U	0.00	166	331	ug/kg	1.0					
Benzo(k)fluoranthene	U	0.00	166	331	ug/kg	1.0					
Chrysene	U	0.00	166	331	ug/kg	1.0					
Dibenzo(a,h)anthracene	U	0.00	166	331	ug/kg	1.0					
Fluoranthene	U	0.00	166	331	ug/kg	1.0					
Fluorene	U	0.00	166	331	ug/kg	1.0					
Indeno(1,2,3-c,d)pyrene	U	0.00	166	331	ug/kg	1.0					
Naphthalene	J	111000	66200	132000	ug/kg	400					
Phenanthrene	U	0.00	166	331	ug/kg	1.0					
Pyrene	U	0.00	166	331	ug/kg	1.0					

The following prep procedures were performed:
GC/MS Base/Neutral Compounds DDT 09/30/96 2345 91449 3

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
VA	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: October 07, 1996

Sample ID : SPORT0183-1

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M

Comments:
A dilution was required for Volatile Organics due to matrix interference.
As a result, the detection limits are elevated.

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610	0.00*	(30.0 - 115.)
Nitrobenzene-d5	M610	0.00*	(23.0 - 120.)
p-Terphenyl-d14	M610	0.00*	(37.3 - 128.)
Bromofluorobenzene	BTEX-8260	99.9	(59.7 - 159.)
Dibromofluoromethane	BTEX-8260	105.	(74.0 - 128.)
Toluene-d8	BTEX-8260	104.	(53.4 - 163.)
Bromofluorobenzene	NAP-8260	99.9	(59.7 - 159.)
Dibromofluoromethane	NAP-8260	105.	(74.0 - 128.)
Toluene-d8	NAP-8260	104.	(53.4 - 163.)

M = Method	Method-Description
M 1	EPA 8260
M 2	EPA 8270
M 3	EPA 3550

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: October 07, 1996

Sample ID : SPORT0183-i

M = Method	Method-Description

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Karen Blakeney
Reviewed By

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Laboratory Certificates

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FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: October 07, 1996

Sample ID : SPORT0183-2
Lab ID : 9609571-02
Matrix : Soil
Date Collected : 09/27/96
Date Received : 09/27/96
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
BTEX - 4 items											
Benzene	U	0.00	20.0	40.0	ug/kg	20.	JGS2	10/04/96	1319	91672	1
Ethylbenzene	U	0.00	20.0	40.0	ug/kg	20.					
Toluene	U	0.00	20.0	40.0	ug/kg	20.					
Xylenes (TOTAL)	U	0.00	20.0	40.0	ug/kg	20.					
Naphthalene		283	20.0	40.0	ug/kg	20.					
Extractable Organics											
Polynuclear Aromatic Hydrocarbons - 16 items											
Acenaphthene	U	0.00	164	330	ug/kg	1.0	JPA	10/02/96	1810	91449	2
Acenaphthylene	U	0.00	164	330	ug/kg	1.0					
Anthracene	J	6800	6540	13100	ug/kg	40.					
Benzo(a)anthracene	U	0.00	164	330	ug/kg	1.0					
Benzo(a)pyrene	U	0.00	164	330	ug/kg	1.0					
Benzo(b)fluoranthene	U	0.00	164	330	ug/kg	1.0					
Benzo(ghi)perylene	U	0.00	164	330	ug/kg	1.0					
Benzo(k)fluoranthene	U	0.00	164	330	ug/kg	1.0					
Chrysene	U	0.00	164	330	ug/kg	1.0					
Dibenzo(a,h)anthracene	U	0.00	164	330	ug/kg	1.0					
Fluoranthene	U	0.00	164	330	ug/kg	1.0					
Fluorene	U	0.00	164	330	ug/kg	1.0					
Indeno(1,2,3-c,d)pyrene	U	0.00	164	330	ug/kg	1.0					
Naphthalene	U	0.00	164	330	ug/kg	1.0					
Phenanthrene	U	0.00	164	330	ug/kg	1.0					
Pyrene	U	0.00	164	330	ug/kg	1.0					

The following prep procedures were performed:
GC/MS Base/Neutral Compounds

DDT 09/30/96 2345 91449 3

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Laboratory Certifications

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NC	233	
SC	10120	10582
TX	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: October 07, 1996

Sample ID : SPORT0183-2

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610	0.00*	(30.0 - 115.)
Nitrobenzene-d5	M610	0.00*	(23.0 - 120.)
p-Terphenyl-d14	M610	0.00*	(37.3 - 128.)
Bromofluorobenzene	BTEX-8260	77.5	(59.7 - 159.)
Dibromofluoromethane	BTEX-8260	109.	(74.0 - 128.)
Toluene-d8	BTEX-8260	110.	(53.4 - 163.)
Bromofluorobenzene	NAP-8260	77.5	(59.7 - 159.)
Dibromofluoromethane	NAP-8260	109.	(74.0 - 128.)
Toluene-d8	NAP-8260	110.	(53.4 - 163.)

M = Method	Method-Description
M 1	EPA 8260
M 2	EPA 8270
M 3	EPA 3550

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Karen Blakeney
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GENERAL ENGINEERING LABORATORIES

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Laboratory Certifications

STATE	GEL	EPA
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: October 07, 1996

Sample ID	: SPORT0183-3
Lab ID	: 9609571-03
Matrix	: Soil
Date Collected	: 09/27/96
Date Received	: 09/27/96
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
BTEX - 4 items											
Benzene	U	0.00	1.00	2.00	ug/kg	1.0	JGS2	10/04/96	1422	91672	1
Ethylbenzene	U	0.00	1.00	2.00	ug/kg	1.0					
Toluene	J	1.31	1.00	2.00	ug/kg	1.0					
Xylenes (TOTAL)	J	2.57	1.00	4.00	ug/kg	1.0					
Naphthalene		7.57	1.00	2.00	ug/kg	1.0					

Surrogate Recovery	Test	Percent%	Acceptable Limits
Bromofluorobenzene	BTEX-8260	112.	(59.7 - 159.)
Dibromofluoromethane	BTEX-8260	117.	(74.0 - 128.)
Toluene-d8	BTEX-8260	112.	(53.4 - 163.)
Bromofluorobenzene	NAP-8260	112.	(59.7 - 159.)
Dibromofluoromethane	NAP-8260	117.	(74.0 - 128.)
Toluene-d8	NAP-8260	112.	(53.4 - 163.)

M = Method	Method-Description
M 1	EPA 8260

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NC	233	
SC	10120	10582
VA	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: October 07, 1996

Sample ID : SPORT0183-3

M = Method	Method-Description

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Karen Blakeney
Reviewed By

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Charleston, South Carolina 29417
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CHAIN OF CUSTODY RECORD

9609571 KBB

Page 1 of 1

Client Name/Facility Name: SPORTENVDETCHASN
Collected by/Company: SPORTENVDETCHASN

	SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB	# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify; Method required	METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type	BTEX + NAPTHALENE	PAH	Remarks
-01	SPORTΦ183-1	9/27/96	1Φ15		X		X	2																X	X	AST-148-5 Soil .1
-02	SPORTΦ183-2	9/27/96	1Φ45		X		X	2																X	X	AST-148-6 Soil .1
-03	SPORTΦ183-3	9/27/96	ΦΦ84Φ		X		X	1																X		AST-148 VOA Soil TRIP BLANK .2
-04	SPORTΦ183-4	9/27/96	ΦΦ84Φ				X	3																X		AST-148 VOA TRIP BLNK .3

CCL 23470

Use F or P in the boxes to indicate whether sample was filtered and/or preserved

Relinquished by:	Date: 9/27/96	Time: 1118	Received by: W.R. Hiers Jr.	Relinquished by: W.R. Hiers Jr.	Date: 9/27/96	Time: 1430	Received by:
Relinquished by:	Date: 9/27/96	Time: 1500	Received by lab by: Karen Blakeney	Date: 9/27/96	Time: 1501	Remarks:	

White = sample collector Yellow = file Pink = with report

148
825

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: October 10, 1996

Sample ID	: SPORT0188-1
Lab ID	: 9610027-01
Matrix	: Soil
Date Collected	: 10/01/96
Date Received	: 10/01/96
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Extractable Organics											
PCB analysis - 7 items											
PCB-1016	U	0.00	32.6	41.6	ug/kg	10.	JPA	10/09/96	1328	91772	1
PCB-1221	U	0.00	32.6	41.6	ug/kg	10.					
PCB-1232	U	0.00	32.6	41.6	ug/kg	10.					
PCB-1242	U	0.00	32.6	41.6	ug/kg	10.					
PCB-1248	U	0.00	32.6	41.6	ug/kg	10.					
PCB-1254	U	0.00	32.6	41.6	ug/kg	10.					
PCB-1260	U	0.00	32.6	41.6	ug/kg	10.					
Metals Analysis											
Silver	U	-0.181	0.375	2.50	mg/kg	1.0	JSS	10/03/96	1243	91554	2
Arsenic	J	2.23	2.03	14.4	mg/kg	1.0					
Barium		12.7	0.106	2.50	mg/kg	1.0					
Cadmium	J	0.479	0.159	2.50	mg/kg	1.0					
Chromium		14.8	0.202	2.50	mg/kg	1.0					
Lead		566	1.75	4.81	mg/kg	1.0					
Selenium	U	-4.13	4.05	14.4	mg/kg	1.0					
Mercury	J	0.0527	0.00213	0.200	mg/kg	1.0	RMJ	10/03/96	1951	91583	N

The following prep procedures were performed:

PCB's	GWL	10/07/96	1900	91772	3
ICP	PGD	10/02/96	1300	91554	4
Mercury	RMJ	10/02/96	1500	91583	5

Surrogate Recovery	Test	Percent%	Acceptable Limits
4CMX	PCB	110.	(47.0 - 160.)

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: October 10, 1996

Sample ID : SPORT0188-1

Surrogate Recovery	Test	Percent%	Acceptable Limits

M = Method	Method-Description
M 1	EPA 8080
M 2	EPA 6010A
M 3	EPA 3550
M 4	EPA 3050
M 5	EPA 7471

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Karen Blakeney
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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	253	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: October 10, 1996

Sample ID : SPORT0188-2
Lab ID : 9610027-02
Matrix : Soil
Date Collected : 10/01/96
Date Received : 10/01/96
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Extractable Organics											
PCB analysis - 7 items											
PCB-1016	U	0.00	32.8	41.6	ug/kg	10.	JPA	10/09/96	1409	91772	1
PCB-1221	U	0.00	32.8	41.6	ug/kg	10.					
PCB-1232	U	0.00	32.8	41.6	ug/kg	10.					
PCB-1242	U	0.00	32.8	41.6	ug/kg	10.					
PCB-1248	U	0.00	32.8	41.6	ug/kg	10.					
PCB-1254	U	0.00	32.8	41.6	ug/kg	10.					
PCB-1260	U	0.00	32.8	41.6	ug/kg	10.					
Metals Analysis											
Silver	U	0.0135	0.375	2.50	mg/kg	1.0	JSS	10/03/96	1245	91554	2
Arsenic	U	-0.522	2.03	14.4	mg/kg	1.0					
Barium		14.2	0.106	2.50	mg/kg	1.0					
Cadmium	U	0.00433	0.159	2.50	mg/kg	1.0					
Chromium		3.33	0.202	2.50	mg/kg	1.0					
Lead		9.00	1.75	4.81	mg/kg	1.0					
Selenium	U	-1.62	4.05	14.4	mg/kg	1.0					
Mercury	U	-0.00551	0.00215	0.200	mg/kg	1.0	RMJ	10/03/96	1953	91583	N

The following prep procedures were performed:

PCB's	GWL	10/07/96	1900	91772	3
ICP	PGD	10/02/96	1300	91554	4
Mercury	RMJ	10/02/96	1500	91583	5

Surrogate Recovery	Test	Percent%	Acceptable Limits
4CMX	PC3	130.	(47.0 - 160.)

P.004 TEL:803-852-5812 GEN ENGINEERING OCT-10'96(THU) 16:45

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87451
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: October 10, 1996

Sample ID : SPORT0188-2

Surrogate Recovery	Test	Percent%	Acceptable Limits

M = Method	Method-Description
M 1	EPA 8080
M 2	EPA 6010A
M 3	EPA 3550
M 4	EPA 3050
M 5	EPA 7471

Notes:
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J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

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Karen Blakeney
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CHAIN OF CUSTODY RECORD

3 DAY TURNAROUND

Page 1 of 1 9610027

General Engineering La ies, Inc.
2040 Savage Road
Charleston, South Car 414
P.O. Box 30712
Charleston, South Carolina 29417
(803) 556-8171

Client Name/Facility Name: SPORTENVDETCHASN

Collected by/Company: SPORTENVDETCHASN

SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods

Use F or P in the boxes to indicate whether sample was filtered and/or preserved

CCL 23498

	SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB	# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	KCRA METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type			Remarks	
-01	SPORT0188-1	10/1/96	1400				X	2							X						X					UST148-7 Soil	.1
-02	SPORT0188-2	10/1/96	1400				X	2							X						X					UST148-8 Soil	.1

Relinquished by:	Date:	Time:	Received by:	Relinquished by:	Date:	Time:	Received by:
[signature]	10/1/96	1408	W. R. Hiers, Jr.	W. R. Hiers, Jr.	10/1/96	1426	Lee R. Moore
Relinquished by: Lee R. Moore	Date: 10/1/96	Time: 14:55	Received by lab by: [signature]	Date: 10-01-96	Time: 1455	Remarks:	

White = sample collector Yellow = file Pink = with report

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: July 28, 1997

Sample ID : SPORT0477-1
Lab ID : 9707353-01
Matrix : Soil
Date Collected : 07/16/97
Date Received : 07/16/97
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
BTEX - 4 items											
Benzene	J	69.5	50.0	100	ug/kg	50.	TCL	07/23/97	2130	105361	1
Ethylbenzene		3900	50.0	100	ug/kg	50.					
Toluene	U	0.00	50.0	100	ug/kg	50.					
Xylenes (TOTAL)	U	36.0	50.0	100	ug/kg	50.					
Naphthalene		1150	50.0	100	ug/kg	50.					
Extractable Organics											
Polynuclear Aromatic Hydrocarbons - 16 items											
Acenaphthene	U	0.00	16700	33300	ug/kg	100	WAM	07/21/97	1757	105216	2
Acenaphthylene	U	0.00	16700	33300	ug/kg	100					
Anthracene	U	0.00	16700	33300	ug/kg	100					
Benzo(a)anthracene	U	0.00	16700	33300	ug/kg	100					
Benzo(a)pyrene	U	0.00	16700	33300	ug/kg	100					
Benzo(b)fluoranthene	U	0.00	16700	33300	ug/kg	100					
Benzo(ghi)perylene	U	0.00	16700	33300	ug/kg	100					
Benzo(k)fluoranthene	U	0.00	16700	33300	ug/kg	100					
Chrysene	U	0.00	16700	33300	ug/kg	100					
Dibenzo(a,h)anthracene	U	0.00	16700	33300	ug/kg	100					
Fluoranthene	U	0.00	16700	33300	ug/kg	100					
Fluorene	U	0.00	16700	33300	ug/kg	100					
Indeno(1,2,3-c,d)pyrene	U	0.00	16700	33300	ug/kg	100					
Naphthalene	J	30000	16700	33300	ug/kg	100					
Phenanthrene	J	27600	16700	33300	ug/kg	100					
Pyrene	U	0.00	16700	33300	ug/kg	100					

The following prep procedures were performed:
GC/MS Base/Neutral Compounds GWL 07/19/97 1600 105216 3

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9707353-01

JUL. -28. 97 (MON) 17:27 GEN. ENGINEERING TEL:803-852-5812 P. 002

GENERAL ENGINEERING LABORATORIES

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/8745
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: July 28, 1997

Sample ID : SPORT0477-1

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M

Comments:
A dilution was required for Extractable Organics due to matrix interference. As a result, the detection limits are elevated.

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610	0.00*	(30.0 - 115.)
Nitrobenzene-d5	M610	0.00*	(23.0 - 120.)
p-Terphenyl-d14	M610	0.00*	(37.3 - 128.)
Bromofluorobenzene	BTEX-8260	114.	(53.5 - 154.)
Dibromofluoromethane	BTEX-8260	88.0	(63.4 - 136.)
Toluene-d8	BTEX-8260	111.	(72.1 - 137.)
Bromofluorobenzene	NAP-8260	114.	(53.5 - 154.)
Dibromofluoromethane	NAP-8260	88.0	(63.4 - 136.)
Toluene-d8	NAP-8260	111.	(72.1 - 137.)

M = Method	Method-Description
M 1	EPA 8260
M 2	EPA 8270
M 3	EPA 3550

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

GENERAL ENGINEERING LABORATORIES

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Laboratory Certifications

STATE	CHL	EPI
FL	E87156/87294	E87472/87-
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NFWC00197 Report Date: July 28, 1997

Sample ID : SPORT0477-1

M = Method	Method-Description

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Karen Blakeney
Reviewed By

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9707353-01

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GENERAL ENGINEERING LABORATORIES

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87438
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: July 28, 1997

Sample ID : SPORT0477-2
Lab ID : 9707353-02
Matrix : Soil
Date Collected : 07/16/97
Date Received : 07/16/97
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
BTEX - 4 items											
Benzene	U	0.00	1.00	2.00	ug/kg	1.0	TCL	07/23/97	2158	105361	1
Ethylbenzene	U	0.00	1.00	2.00	ug/kg	1.0					
Toluene		2.37	1.00	2.00	ug/kg	1.0					
Xylenes (TOTAL)	U	0.00	1.00	4.00	ug/kg	1.0					
Naphthalene	U	0.00	1.00	2.00	ug/kg	1.0	TCL	07/24/97	1724	105361	1
Extractable Organics											
Polynuclear Aromatic Hydrocarbons - 16 items											
Acenaphthene		555	165	330	ug/kg	1.0	WAM	07/22/97	1425	105216	2
Acenaphthylene	U	0.00	165	330	ug/kg	1.0					
Anthracene		1100	165	330	ug/kg	1.0					
Benzo(a)anthracene		2530	165	330	ug/kg	1.0					
Benzo(a)pyrene		2030	165	330	ug/kg	1.0					
Benzo(b)fluoranthene		2400	165	330	ug/kg	1.0					
Benzo(ghi)perylene		1100	165	330	ug/kg	1.0					
Benzo(k)fluoranthene		1780	165	330	ug/kg	1.0					
Chrysene		2760	165	330	ug/kg	1.0					
Dibenzo(a,h)anthracene	J	304	165	330	ug/kg	1.0					
Fluoranthene		9040	1650	3300	ug/kg	10.	WAM	07/21/97	1827	105216	2
Fluorene		823	165	330	ug/kg	1.0	WAM	07/22/97	1425	105216	2
Indeno(1,2,3-c,d)pyrene		1260	165	330	ug/kg	1.0					
Naphthalene		458	165	330	ug/kg	1.0					
Phenanthrene		8120	1650	3300	ug/kg	10.	WAM	07/21/97	1827	105216	2
Pyrene		5920	1650	3300	ug/kg	10.					

The following prep procedures were performed:

GC/MS Base/Neutral Compounds GWL 07/19/97 1600 105216 3

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9707353-02

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GENERAL ENGINEERING LABORATORIES

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87745
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: July 28, 1997

Sample ID : SPORT0477-2

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610	81.1	(30.0 - 115.)
Nitrobenzene-d5	M610	67.6	(23.0 - 120.)
p-Terphenyl-d14	M610	99.1	(37.3 - 128.)
Bromofluorobenzene	BTEX-8260	111.	(53.5 - 154.)
Dibromofluoromethane	BTEX-8260	93.3	(63.4 - 136.)
Toluene-d8	BTEX-8260	108.	(72.1 - 137.)
Bromofluorobenzene	NAP-8260	111.	(53.5 - 154.)
Dibromofluoromethane	NAP-8260	93.3	(63.4 - 136.)
Toluene-d8	NAP-8260	108.	(72.1 - 137.)

M = Method	Method-Description
M 1	EPA 8260
M 2	EPA 8270
M 3	EPA 3550

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Karen Blakeney
Reviewed By

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GENERAL ENGINEERING LABORATORIES

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Laboratory Certifications

STATE	CHL	EPI
FL	E87156/87294	E87472/87451
NC	223	
SC	10120	10512
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: July 28, 1997

Sample ID : SPORT0477-3
Lab ID : 9707353-03
Matrix : Soil
Date Collected : 07/16/97
Date Received : 07/16/97
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
BTEX - 4 items											
Benzene	U	0.00	50.0	100	ug/kg	50.	TCL	07/23/97	2227	105361	1
Ethylbenzene		383	50.0	100	ug/kg	50.					
Toluene	U	0.00	50.0	100	ug/kg	50.					
Xylenes (TOTAL)	J	88.5	50.0	100	ug/kg	50.					
Naphthalene		494	50.0	100	ug/kg	50.					
Extractable Organics											
Polynuclear Aromatic Hydrocarbons - 16 items											
Acenaphthene	U	0.00	6560	13100	ug/kg	40.	WAM	07/21/97	1858	105216	2
Acenaphthylene	U	0.00	6560	13100	ug/kg	40.					
Anthracene	U	0.00	6560	13100	ug/kg	40.					
Benzo(a)anthracene	U	0.00	6560	13100	ug/kg	40.					
Benzo(a)pyrene	U	0.00	6560	13100	ug/kg	40.					
Benzo(b)fluoranthene	U	0.00	6560	13100	ug/kg	40.					
Benzo(ghi)perylene	U	0.00	6560	13100	ug/kg	40.					
Benzo(k)fluoranthene	U	0.00	6560	13100	ug/kg	40.					
Chrysene	U	0.00	6560	13100	ug/kg	40.					
Dibenzo(a,h)anthracene	U	0.00	6560	13100	ug/kg	40.					
Fluoranthene	U	0.00	6560	13100	ug/kg	40.					
Fluorene	U	0.00	6560	13100	ug/kg	40.					
Indeno(1,2,3-c,d)pyrene	U	0.00	6560	13100	ug/kg	40.					
Naphthalene	U	0.00	6560	13100	ug/kg	40.					
Phenanthrene	U	0.00	6560	13100	ug/kg	40.					
Pyrene	U	0.00	6560	13100	ug/kg	40.					

The following prep procedures were performed:
GC/MS Base/Neutral Compounds GWL 07/19/97 1600 105216 3

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9707353-03

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GENERAL ENGINEERING LABORATORIES

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87145
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hicks
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: July 28, 1997

Sample ID : SPORT0477-3

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M

Comments:
A dilution was required for Extractable Organics due to matrix interference. As a result, the detection limits are elevated.

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610	0.00*	(30.0 - 115.)
Nitrobenzene-d5	M610	0.00*	(23.0 - 120.)
p-Terphenyl-d14	M610	0.00*	(37.3 - 128.)
Bromofluorobenzene	BTEX-8260	101.	(53.5 - 154.)
Dibromofluoromethane	BTEX-8260	89.5	(63.4 - 136.)
Toluene-d8	BTEX-8260	98.4	(72.1 - 137.)
Bromofluorobenzene	NAP-8260	101.	(53.5 - 154.)
Dibromofluoromethane	NAP-8260	89.5	(63.4 - 136.)
Toluene-d8	NAP-8260	98.4	(72.1 - 137.)

M = Method	Method-Description
M 1	EPA 8260
M 2	EPA 8270
M 3	EPA 3550

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

GENERAL ENGINEERING LABORATORIES

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Laboratory Certifications

STATE	GEL	SPI
FL	E87156/87294	E87472/874
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: July 28, 1997

Sample ID : SPORT0477-3

M = Method	Method-Description

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Karen Blakeney

Reviewed By

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9707353-03

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87451
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: July 28, 1997

Sample ID : SPORT0477-4
Lab ID : 9707353-04
Matrix : Soil
Date Collected : 07/16/97
Date Received : 07/16/97
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
BTEX - 4 items											
Benzene	U	26.0	50.0	100	ug/kg	50.	TCL	07/23/97	2255	105361	1
Ethylbenzene		526	50.0	100	ug/kg	50.					
Toluene	U	0.00	50.0	100	ug/kg	50.					
Xylenes (TOTAL)		343	50.0	100	ug/kg	50.					
Naphthalene		1950	50.0	100	ug/kg	50.					
Extractable Organics											
Polynuclear Aromatic Hydrocarbons - 16 items											
Acenaphthene	U	0.00	16600	33200	ug/kg	100	WAM	07/21/97	1928	105216	2
Acenaphthylene	U	0.00	16600	33200	ug/kg	100					
Anthracene	U	0.00	16600	33200	ug/kg	100					
Benzo(a)anthracene	U	0.00	16600	33200	ug/kg	100					
Benzo(a)pyrene	U	0.00	16600	33200	ug/kg	100					
Benzo(b)fluoranthene	U	0.00	16600	33200	ug/kg	100					
Benzo(ghi)perylene	U	0.00	16600	33200	ug/kg	100					
Benzo(k)fluoranthene	U	0.00	16600	33200	ug/kg	100					
Chrysene	U	0.00	16600	33200	ug/kg	100					
Dibenzo(a,h)anthracene	U	0.00	16600	33200	ug/kg	100					
Fluoranthene	U	0.00	16600	33200	ug/kg	100					
Fluorene	U	0.00	16600	33200	ug/kg	100					
Indeno(1,2,3-c,d)pyrene	U	0.00	16600	33200	ug/kg	100					
Naphthalene	U	0.00	16600	33200	ug/kg	100					
Phenanthrene	J	18700	16600	33200	ug/kg	100					
Pyrene	U	0.00	16600	33200	ug/kg	100					

The following prep procedures were performed:
GC/MS Base/Neutral Compounds GWL 07/19/97 1600 105216 3

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GENERAL ENGINEERING LABORATORIES

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87745
NC	233	
SC	10120	10512
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: July 28, 1997

Sample ID : SPORT0477-4

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M

Comments:
A dilution was required for Extractable Organics due to matrix interference. As a result, the detection limits are elevated.

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610	0.00*	(30.0 - 115.)
Nitrobenzene-d5	M610	0.00*	(23.0 - 120.)
p-Terphenyl-d14	M610	0.00*	(37.3 - 128.)
Bromofluorobenzene	BTEX-8260	117.	(53.5 - 154.)
Dibromofluoromethane	BTEX-8260	91.3	(63.4 - 136.)
Toluene-d8	BTEX-8260	107.	(72.1 - 137.)
Bromofluorobenzene	NAP-8260	117.	(53.5 - 154.)
Dibromofluoromethane	NAP-8260	91.3	(63.4 - 136.)
Toluene-d8	NAP-8260	107.	(72.1 - 137.)

M = Method	Method-Description
M 1	EPA 8260
M 2	EPA 8270
M 3	EPA 3550

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

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9707353-04

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GENERAL ENGINEERING LABORATORIES

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Laboratory Certifications

STATE	GEL	EPT
FL	E87156/87294	E87472/874
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: July 28, 1997

Sample ID : SPORT0477-4

M = Method	Method-Description

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Karen Blakeney

Reviewed By

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9707353-04

JUL -28. 97 (MON) 17:50 GEN. ENGINEERING TEL:803-852-5812 P.012

GENERAL ENGINEERING LABORATORIES

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Report Date: July 28, 1997

Sample ID	: SPORT0477-5
Lab ID	: 9707353-05
Matrix	: Soil
Date Collected	: 07/16/97
Date Received	: 07/16/97
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
BTEX - 4 items											
Benzene	U	0.00	1.00	2.00	ug/kg	1.0	TCL	07/23/97	2324	105361	1
Ethylbenzene	U	0.00	1.00	2.00	ug/kg	1.0					
Toluene	U	0.00	1.00	2.00	ug/kg	1.0					
Xylenes (TOTAL)	U	0.00	1.00	4.00	ug/kg	1.0					
Naphthalene	U	0.00	1.00	2.00	ug/kg	1.0	TCL	07/24/97	1752	105361	1

Surrogate Recovery	Test	Percent%	Acceptable Limits
Bromofluorobenzene	BTEX-8260	93.6	(53.5 - 154.)
Dibromofluoromethane	BTEX-8260	87.5	(63.4 - 136.)
Toluene-d8	BTEX-8260	98.0	(72.1 - 137.)
Bromofluorobenzene	NAP-8260	93.6	(53.5 - 154.)
Dibromofluoromethane	NAP-8260	87.5	(63.4 - 136.)
Toluene-d8	NAP-8260	98.0	(72.1 - 137.)

M = Method	Method-Description
M 1	EPA 8260

PO Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(803) 556-8171 • Fax (803) 766-1178

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9707353-05

JUL -28' 97(MON) 17:50 GEN. ENGINEERING TEL:803-852-5812 P.013

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Meeting today's needs with a vision for tomorrow

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NC	233	
SC	10120	10582
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cc: NPWC00197 Report Date: July 28, 1997

Sample ID : SPORT0477-5

M = Method	Method-Description

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Karen Blakeney
Reviewed By

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Karen Blakeney
Reviewed By

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NP 000197

General Engineering L ies, Inc.
2040 Savage Road
Charleston, South Carolina 29407
P.O. Box 30712
Charleston, South Carolina 29417
(803) 556-8171

CHAIN OF CUSTODY RECORD

Page 1 of 1

9707353

Client Name/Facility Name: SPORTENVDETCHASN
Collected by/Company: SPORTENVDETCHASN

SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB	# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type	PAH	BTEX+MTBE	Remarks
01 SPORTENV-1	7/16/97	1000		X		X	2	/															X	X	TANK 148 SOIL .1
02 SPORTENV-2	7/16/97	1010		X		X	2	/															X	X	TANK 148 SOIL .1
03 SPORTENV-3	7/16/97	1020		X		X	2																X	X	TANK 148 SOIL .1
04 SPORTENV-4	7/16/97	1030		X		X	2																X	X	TANK 148 SOIL .1
05 SPORTENV-5	7/16/97	0900		X		X	1																	X	TANK 148 SOIL VOA TRIP BLANK .2

CCL 28081

Use F or P in the boxes to indicate whether sample was filtered and/or preserved

SAMPLE ANALYSIS REQUIRED (#) - use remarks area to specify specific compounds or methods

Relinquished by:	Date:	Time:	Received by:	Relinquished by:	Date:	Time:	Received by:
[signature]	7-16-97	1130	W.R. Hines, Jr.	W.R. Hines, Jr.	7/16/97	1414	[signature]
[signature]	7-16-97	2:35	[signature]	Remarks:			

White = sample collector Yellow = file Pink = with report

Attachment III

Certificates of Disposal (tank)

Special Waste Manifest OR-9609015, ticket numbers 18310, 18342, 18373, and 18396
Chambers Oakridge Landfill, Inc., 2183 Highway 78, Dorchester, SC, 29437.

308-5964
Cell 148

CHAMBERS OAKRIDGE LANDFILL
SPECIAL WASTE MANIFEST

MANIFEST OR-9609015
EXPIRES 11/23/96

GENERATOR OF WASTE: CHARLESTON ENVIRONMENTAL DET

ACCOUNT NUMBER: 490-208

LOCATION OF WASTE: N CHARLESTON SC

ADDRESS:

PHONE: 803-743-2821 . . CONTACT: RICK ALBERS

GENERATOR'S SIGNATURE: _____ DATE: _____

********** TO BE COMPETED BY TRANSPORTER **********

TRANSPORTER OF WASTE: CHINNERS

DATE: 10-4-95 TRUCK NUMBER: 4

DRIVER'S SIGNATURE: Dale Roberson

****** TO BE COMPLETED BY CHAMBERS OAKRIDGE LANDFILL ******

DISPOSAL SITE: CHAMBERS OAKRIDGE LANDFILL DPW 130

DESCRIPTION OF WASTE: RES / CONCRETE DEBRIS

TICKET NUMBER: 18310 TONNAGE 19.58

RECEIVED BY: Jamie Cobb

4JG-12 97 10:5E FROM:CHAMBERS OAKRIDGE 803-563-4158 TO:226 PAGE:04

CHAMBERS OAKRIDGE LANDFILL
SPECIAL WASTE MANIFEST

MANIFEST OR-9609015
EXPIRES 11/23/96

GENERATOR OF WASTE: CHARLESTON ENVIRONMENTAL DET

ACCOUNT NUMBER: 490-208

LOCATION OF WASTE: N CHARLESTON SC

ADDRESS:

PHONE: 803-743-2821 . CONTACT: RICK ALBERS

GENERATOR'S SIGNATURE: _____ DATE: _____

********** TO BE COMPETED BY TRANSPORTER **********

TRANSPORTER OF WASTE: CHINNERS

DATE: 10-9-96 TRUCK NUMBER: 4

DRIVER'S SIGNATURE: Dale Robeson

****** TO BE COMPLETED BY CHAMBERS OAKRIDGE LANDFILL ******

DISPOSAL SITE: CHAMBERS OAKRIDGE LANDFILL DPW 130

DESCRIPTION OF WASTE: RES / CONCRETE DEBRIS

TICKET NUMBER: 18342 TONNAGE 21.23

RECEIVED BY: Mary

PAGE:01 TO:228 803-563-4156 OAKRIDGE FROM:CHAMBERS 06-JUL-12 ST 11:02

CHAMBERS OAKRIDGE LANDFILL
SPECIAL WASTE MANIFEST

MANIFEST OR-9609015
EXPIRES 11/23/96

GENERATOR OF WASTE: CHARLESTON ENVIRONMENTAL DET

ACCOUNT NUMBER: 490-208

LOCATION OF WASTE: N CHARLESTON SC

ADDRESS:

PHONE: 803-743-2821 . . CONTACT: RICK ALBERS

GENERATOR'S SIGNATURE: _____ DATE: _____

********** TO BE COMPETED.BY TRANSPORTER **********

TRANSPORTER OF WASTE: CHINNERS

DATE: 10-4-96 TRUCK NUMBER: 4

DRIVER'S SIGNATURE: Oak R.

****** TO BE COMPLETED BY CHAMBERS OAKRIDGE LANDFILL ******

DISPOSAL SITE: CHAMBERS OAKRIDGE LANDFILL DPW 130

DESCRIPTION OF WASTE: RES / CONCRETE DEBRIS

TICKET NUMBER: 18373 TONNAGE 20.41

RECEIVED BY: Jamie Gilbert

4JG-12 97 10:52 FROM:CHAMBERS OAKRIDGE 803-563-4158 TO:226 PAGE:02

CHAMBERS OAKRIDGE LANDFILL
SPECIAL WASTE MANIFEST

MANIFEST OR-9609015
EXPIRES 11/23/96

GENERATOR OF WASTE: CHARLESTON ENVIRONMENTAL DET

ACCOUNT NUMBER: 490-208

LOCATION OF WASTE: N CHARLESTON SC

ADDRESS:

PHONE: 803-743-2821 CONTACT: RICK ALBERS

GENERATOR'S SIGNATURE: _____ DATE: _____

********** TO BE COMPETED BY TRANSPORTER **********

TRANSPORTER OF WASTE: CHINNERS

DATE: 10-4-96 TRUCK NUMBER: 4

DRIVER'S SIGNATURE: Dale Robeson

****** TO BE COMPLETED BY CHAMBERS OAKRIDGE LANDFILL ******

DISPOSAL SITE: CHAMBERS OAKRIDGE LANDFILL DPW 130

DESCRIPTION OF WASTE: RES / CONCRETE DEBRIS

TICKET NUMBER: 18396 TONNAGE 23.15

RECEIVED BY: CMosny

Appendix F

Fuel Distribution System
Interim Measures Completion Report AOC 626

COMPLETION REPORT

INTERIM/STABILIZATION MEASURE FOR
AOC 626 (FUEL FARM)
NAVAL BASE CHARLESTON
CHARLESTON SC

Prepared for:

DEPARTMENT OF THE NAVY
SOUTHERN DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
CHARLESTON SC

Prepared by:

Supervisor of Shipbuilding, Conversion and Repair,
USN, (SUPSHIP) Portsmouth Va.,
Environmental Detachment Charleston, S.C.
1899 North Hobson Ave.
North Charleston, SC 29405-2106

May 22, 1997

DEPARTMENT OF THE NAVY
SOUTHERN DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
P.O. BOX 190010
2155 EAGLE DRIVE
NORTH CHARLESTON, S.C. 29419-9010

5090
Code 1876
23 May 1997

Mr. G. Randall Thompson
Director, Division of Hazardous and Infectious Waste Management
Bureau of Solid And Hazardous Waste Management
South Carolina Department of Health and Environmental Control
2600 Bull Street
Columbia SC 29201

Subj: INTERIM MEASURE COMPLETION REPORT FOR AREA OF CONCERN 626

Dear Mr. Thompson:

The enclosed interim measure report is submitted to fulfill the requirements of Permit Condition IV.D.6 for Permit Number SCO 170 022 560.

If the Department has any comments please feel free to contact me at (803) 820-7481.

Sincerely,

Brian K. Stockmaster

BRIAN K. STOCKMASTER
Remedial Project Manager
Environmental Division

Encl:
(1) Interim Measure Completion Report
Copy to:
SCDHEC (Mr. Tapia, Mr. Bergstrand)
EPA-Region IV (Mr. Bassett)
CSO Naval Base Charleston (LCDR Rose)
CEERD (Mr. Dearhart)
EA&H (Mr. Haverkost, Ms. Cutler)

COMPLETION REPORT

INTERIM/STABILIZATION MEASURE FOR
AOC 626 (FUEL FARM)
NAVAL BASE CHARLESTON
CHARLESTON SC

Prepared for:

DEPARTMENT OF THE NAVY
SOUTHERN DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
CHARLESTON SC

Prepared by:

Supervisor of Shipbuilding, Conversion and Repair,
USN, (SUPSHIP) Portsmouth Va.,
Environmental Detachment Charleston, S.C.
1899 North Hobson Ave.
North Charleston, SC 29405-2106

May 22, 1997

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ACRONYMS, ABBREVIATIONS and SYMBOL

ACM	Asbestos Containing Material
AOC	Area of Concern
BLS	Below Land Surface
CMS	Corrective Measures Study
DERP	Defense Environmental Restoration Program
DET	Environmental Detachment Charleston
DON	Department of the Navy
FO	Fuel Oil
IM	Interim Measure
IR	Installation Restoration
PVC	Polyvinyl Chloride
RCRA	Resource Conservation and Recovery Act
RFA	RCRA Facility Assessment
RFI	RCRA Facility Investigation
SARA	Superfund Amendments and Reauthorization Act
SCDHEC	South Carolina Department of Health and Environmental Control
SOUTHDIV	Southern Division Naval Facilities Engineering Command
SUPSHIP	Supervisor of Shipbuilding, Conversion and Repair, USN
SWMU	Solid Waste Management Unit
USN	United States Navy

1. INTRODUCTION

1.1 INSTALLATION RESTORATION PROGRAM. The purpose of the Department of the Navy (DON) Installation Restoration (IR) Program is to identify, assess, characterize and clean up or control contamination from past hazardous waste disposal operations and hazardous material spills at Navy and Marine Corps activities. The Defense Environmental Restoration Program (DERP) is codified in the Superfund Amendments and Reauthorization Act (SARA) Section 211 (10 USC 2701). The IR Program is a component of DERP.

1.1.1 Naval Base Charleston IR Program. At Naval Base Charleston, a Resource Conservation and Recovery Act (RCRA) Facility Assessment (RFA) was prepared which divided the Naval Base into zones and identified Solid Waste Management Units (SWMUs) and Areas of Concern (AOCs) within each zone. The RFA evaluated each SWMU and AOC and determined which sites required further investigation. Based on the RFA, a RCRA Facility Investigation (RFI) work plan has been or is being prepared for each zone containing SWMUs and AOCs requiring further investigation. On completion of the RFI for each Zone, a RFI report will be prepared for that zone. The RFI reports will identify SWMUs and AOCs containing wastes requiring remediation. Eventually, Corrective Measures Studies (CMSs) will be prepared to determine the best means of remediating each site.

1.2 INTERIM MEASURES. Interim Measures (IM) performed as part of the IR Program are intended to eliminate sources of environmental contamination or limit the spread of environmental contaminants prior to the completion of the RFI CMSs.

1.3 AOC 626. AOC 626 is the former Charleston Naval Supply Center Fuel Farm, located in Zone G at the corner of Hobson Avenue and Viaduct Road (see Map #1, Appendix A). It consists of four large fuel tanks, several smaller tanks, various pumping and piping systems, and waste oil and wastewater processing plants. In September 1994, an unspecified amount of diesel fuel oil was released from the Fuel Distribution System (FDS) at the intersection of Hobson Avenue and Viaduct Road. A leak in the abandoned 18" pipeline from the Chicora Tank Farm was determined to be the

source. Approximately 40,000 gallons of water/oil mixture was reportedly recovered from the site. Five vertical PVC recovery wells were installed by the Charleston Naval Shipyard (CNSY) Public Works (PW) department in an attempt to recover additional free product.

A pressure test conducted by contractors cleaning Naval Base pipelines on a separate 18" pipe resulted in an eruption of oil and water above land surface in the abandoned 18" pipe. Excavations in this area revealed a 2" diameter hole in the pipe.

1.4 AOC 626 INTERIM MEASURE. During the interval between the RFI and the completion of the CMS, it was decided by Southern Division Naval Facilities Engineering Command (SOUTHDIV) that an IM would be performed by Supervisor of Shipbuilding, Conversion and Repair (SUPSHIP), United States Navy (USN), Portsmouth Va. Environmental Detachment Charleston (SPORTENVDETCHASN). The objective of this IM was to remove the petroleum saturated soil, a 200' section of the 18" pipeline, and install a product recovery system as required. The scope of this IM is limited to the specific spill area along Viaduct Road and not intended to remediate the entire Fuel Farm. This IM is consistent with the ultimate cleanup of AOC 626 and is not intended to circumvent the public participation process inherent within environmental cleanup under RCRA authority.

2. INTERIM MEASURE EXECUTION

2.1 ACTIONS REQUIRED BY INTERIM MEASURE WORKPLAN. The saturated soil and the abandoned 18" fuel oil pipeline were removed to eliminate the source of contamination. A product recovery system was installed in an effort to recover additional free product. Required actions are listed below:

- Excavation of approximately 450 cubic yards of petroleum saturated soil (see Map #2, Appendix A) from land surface to the top of the 18" pipeline, approximately 10' below land surface (BLS).

- Removal of approximately 229 linear feet of 18" fuel oil pipeline from the south valve pit to the west fence line on Viaduct Road. An 18" aluminum expandable plug was installed at the valve pit end of the pipe removal. An 18" polvinyl chloride (PVC) vertical standoff with a cap was installed on the opposite end at the west fence line to support future cleaning of the pipeline.

- Installation of a product recovery system that included 200' of horizontal perforated 12" PVC pipe and 5 vertical standoffs for product recovery (see Drawing #1, Appendix D).

- Repair of the manhole to the sewer system by brick and mortar replacement.

- Monthly pumping of the product recovery system not to exceed one year.

2.2 OBSERVATIONS NOTED

2.2.1 Asbestos Pipe Insulation. Pipe sections removed from the excavation site were encased in an asbestos type material. The material was sampled for asbestos and analyzed by the Naval Hospital Charleston Industrial Hygienist Department. It was determined that the first 33′ of pipe was non asbestos while the remaining pipeline was encased in friable asbestos insulation.

2.2.2 Soil Conditions. From land surface to approximately 1′ BLS, the soil appeared to be fill dirt. From 1′ BLS to the bottom of the 10′ excavation, the soil was a silty clay mixture. Contamination was apparent at 5′ BLS. The soil in this area was heavily stained with oil and had a strong petroleum odor. Free product was observed leaching from the sides of the open trench during excavation.

2.2.3 Conditions of Pipe Line. Oil and water were discovered in the abandoned 18″ pipeline. The contents of the pipeline were pumped into the portable tanks. Further excavation of the pipeline revealed numerous holes of various diameters along the length. Welded patches were identified on the second section of pipe removed. Actual pipeline depth was 10′.

2.2.4 Unidentified Pipe Line. An additional 12″ pipeline was encountered during the excavation that was not identified on the available site drawings. This pipeline was located approximately 2′ below the existing 12″ sludge line. A former Public Works employee identified the pipeline as an abandoned 12″ sludge line that connects to the sludge pits at SWMU 8. The pipeline posed no interference problems and was left in place.

2.2.5 Underground Interferences Sheet piling and construction timbers were encountered below the surface for the majority of the excavation. Several of the sheets and timbers were removed to facilitate the installation of construction trench boxes and pipe removal.

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2.2.6 Groundwater. The above described interference may have restricted groundwater flow, making it difficult to determine the true groundwater level at the site. Approximately 10,430 gallons of oily water were pumped from the trench during the excavation.

2.3 PLAN MODIFICATIONS AND JUSTIFICATION. The IM work plan specified removal of a 12" sludge line that was reportedly directly atop the 18" line. The excavation revealed that the plan was in error and the 12" line was approximately 3' to the side of the 18" line and therefore not an interference for pipe removal. The DET was directed to leave the 12" line in place unless there were apparent signs of corrosion or leakage. Since neither was observed during the course of excavation, the sludge line was left in place.

The total volume of excavated soil was considerably less than originally planned due to the 10' depth of the pipeline.

3. INTERIM MEASURE OUTCOME

3.1 SITE CONDITIONS FOLLOWING COMPLETION OF WORK. Following completion of all site work on 3 February 1997, the DET had removed 450 cubic yards of petroleum contaminated soil, 229′ of 18″ pipeline, installed 200′ of product recovery system, and repaired the sewer manhole. The site was graded to existing conditions and seeded with grass. Site photographs are included in Appendix C.

The DET will be responsible for the operation and maintenance of the product recovery system. This will include the collection and proper disposal of the product, required preventive maintenance, and repairs to ensure optimum system operation. The system is expected to be operated bimonthly, unless product recovery indicates more or less pumping is required.

The initial pumping operation was conducted on 11 March 1997 and yielded approximately 300 gallons of free product.

4. SAMPLING

4.1 SAMPLING EVOLUTIONS AND RESULTS. Since the intent of this IM was to remove the source of contamination without specific cleanup criteria, screening and confirmatory samples were not taken. Investigative samples were taken from the bottom of the trench after pipe removal and tested in accordance with SCDHEC requirements for unknown used oil. Based on these sample results, the contaminated soil was determined to be non-hazardous and will be bioremediated or disposed of accordingly. The soil is presently being stored in Bldg 1601. See Appendix B for sampling data and documentation.

Asbestos sampling results of the pipeline insulation identified the material as friable Asbestos Containing Material (ACM).

5. WASTE GENERATION

5.1 HAZARDOUS/POTENTIALLY HAZARDOUS WASTE. Asbestos insulation was disposed of in accordance SCDHEC regulations.

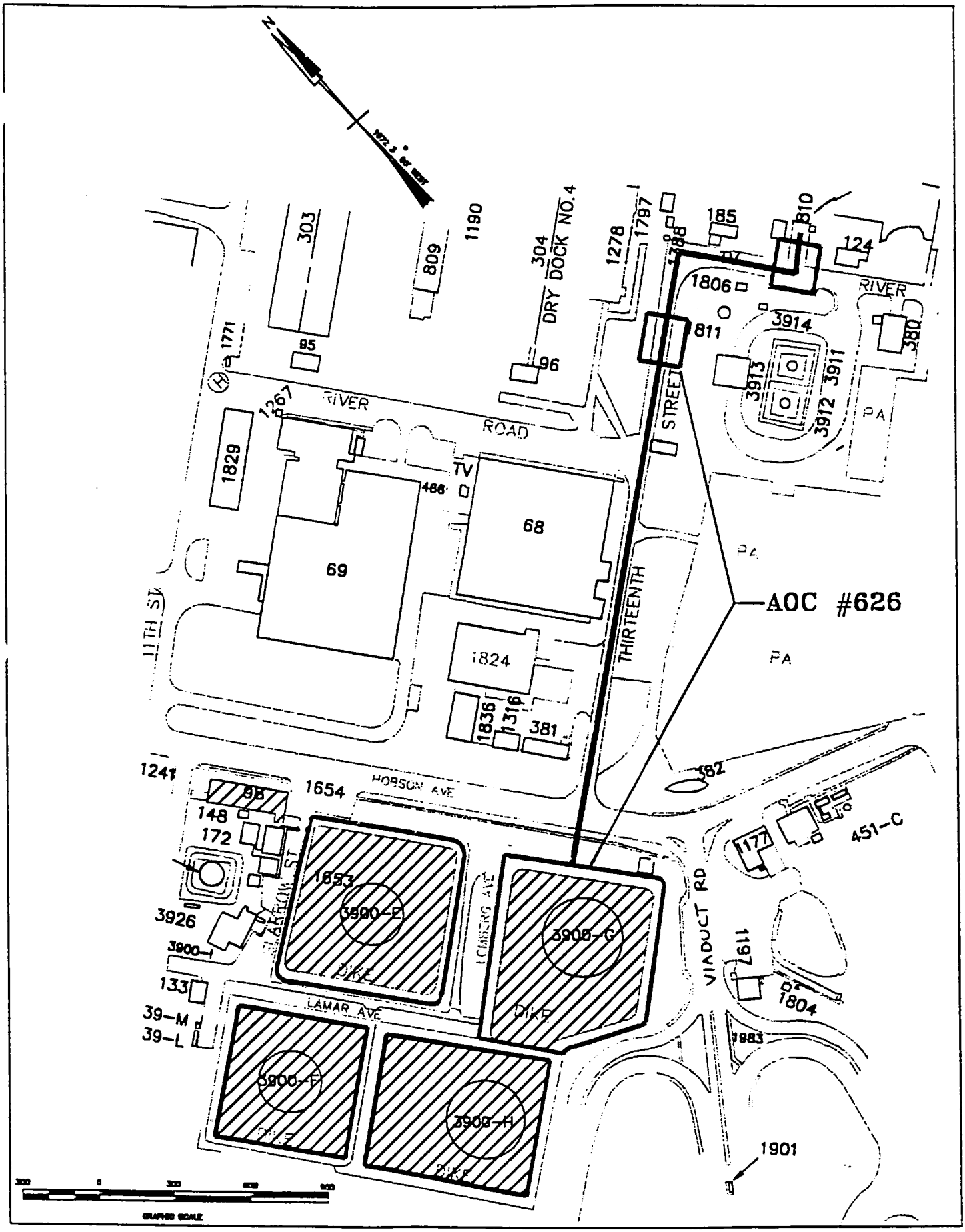
5.2 NON-HAZARDOUS WASTE.

5.2.1 Non-Hazardous Excavated Soil. Approximately 450 cubic yards of non-hazardous excavated soil was transported to Bldg 1601 for storage. Bioremediation of the soil would allow for potential reuse and would be the preferred method of disposal.

5.2.2 Pipeline. The pipeline was disposed of as construction debris after complete removal of asbestos.

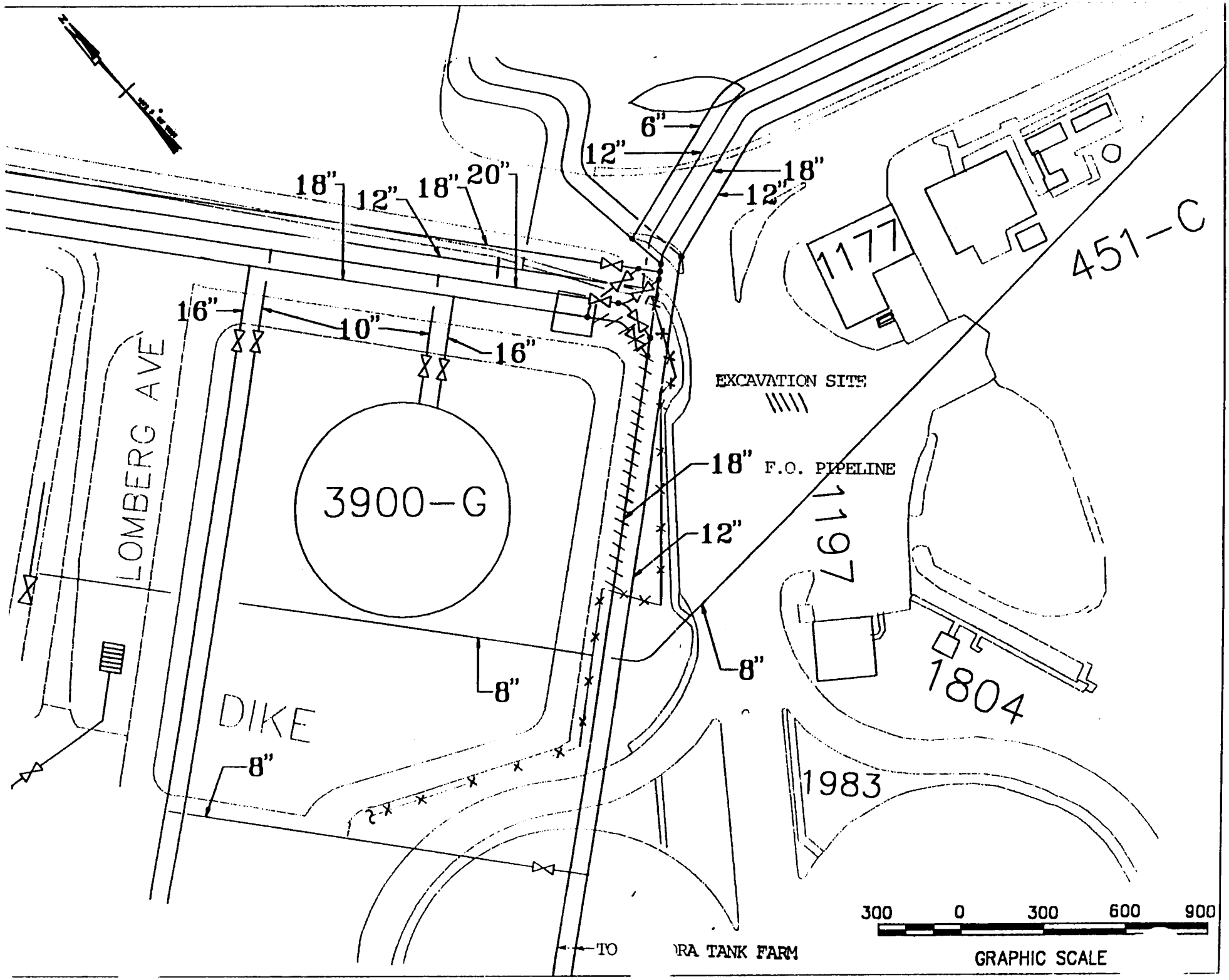
APPENDIX A

SITE MAPS

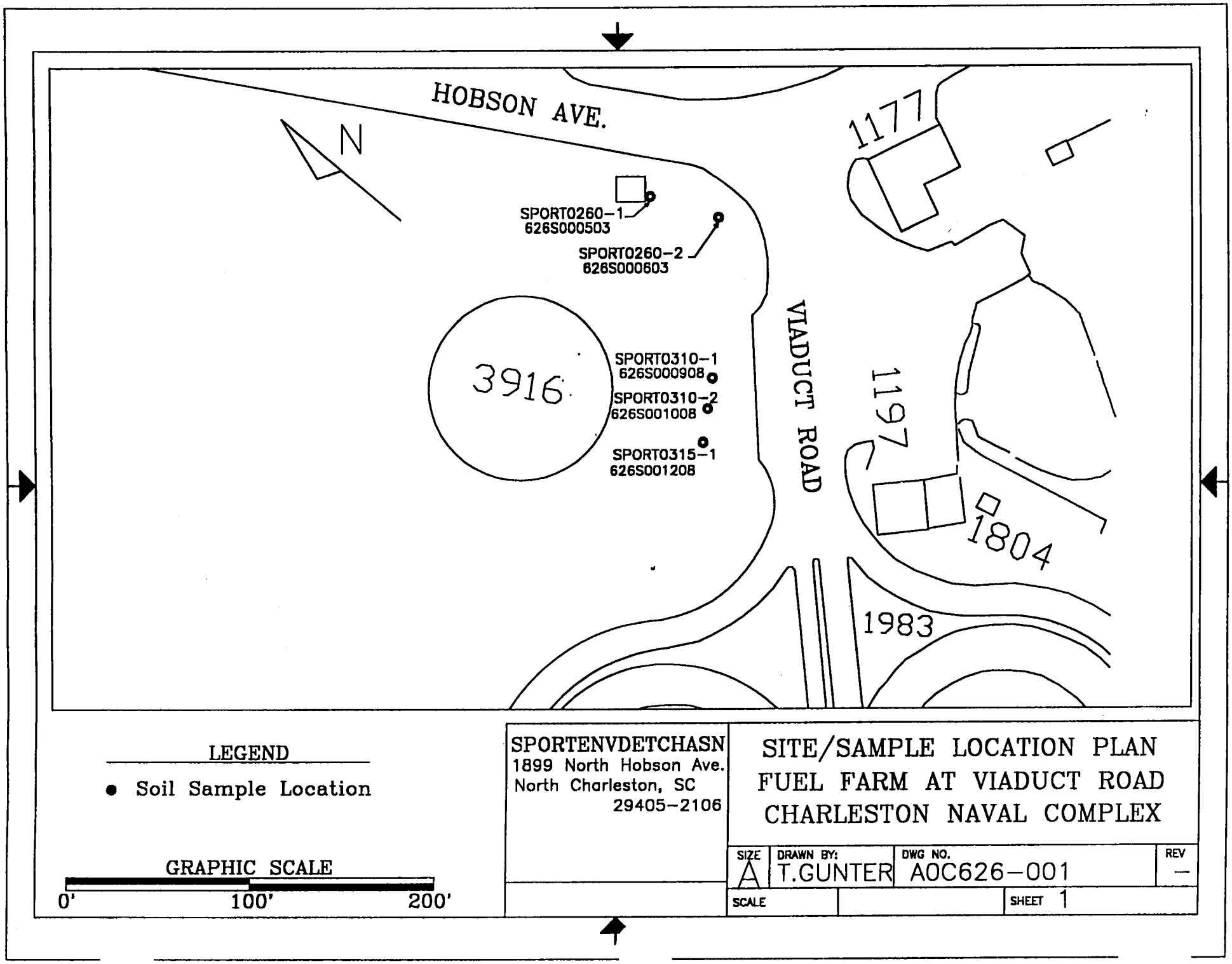


N
303
809
1190
304
DRY DOCK NO.4
1278
1797
1388
185
810
124
1806
RIVER
811
3914
380
1771
95
96
3913
3911
3912
PA
1267
RIVER
ROAD
STREET
1829
TV
466
68
69
PA
AOC #626
11TH ST
THIRTEENTH
1824
PA
1836
1316
381
1241
1654
HOBSON AVE
382
98
148
172
1653
3900-E
DIKE
3900-G
DIKE
VIADUCT RD
1177
451-C
3926
3900-I
133
39-M
39-L
LAMAR AVE
1197
1804
1983
3900-F
DIKE
3900-H
DIKE
1901
GRAPHIC SCALE

MAP #1


6"
12"
18"
12"
18"
20"
18"
12"
16"
10"
16"
1177
451-C
EXCAVATION SITE
LOMBERG AVE
3900-G
18" F.O. PIPELINE
12"
1197
8"
8"
DIKE
8"
1804
1983
300 0 300 600 900
GRAPHIC SCALE
TO
RA TANK FARM

MAP #2


HOBSON AVE.
N
1177
SPORT0260-1
626S000503
SPORT0260-2
626S000603
3916
SPORT0310-1
626S000908
SPORT0310-2
626S001008
SPORT0315-1
626S001208
VIADUCT ROAD
1197
1804
1983
LEGEND
Soil Sample Location
GRAPHIC SCALE
0'
100'
200'
SPORTENVDETCHASN
1899 North Hobson Ave.
North Charleston, SC
29405-2106
SITE/SAMPLE LOCATION PLAN
FUEL FARM AT VIADUCT ROAD
CHARLESTON NAVAL COMPLEX
SIZE A
DRAWN BY: T.GUNTER
DWG NO. A0C626-001
REV —
SCALE
SHEET 1

MAP #3

APPENDIX B

SAMPLING DOCUMENTATION

TABLE 1

SAMPLE RESULTS OR DETECTION LIMITS GREATER THAN RESIDENTIAL RBC					
PARAMETER	SPORT0260-1 NBCG626S000503	SPORT0260-2 NBCG626S000603	SPORT0310-1 NBCG626S000908	SPORT0310-2 NBCG626S001008	SPORT0315-1 NBCG626S001208
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzo(a)anthracene	DL 6.660	DL 6.660			3.57
Benzo(a)pyrene	DL 6.660	DL 6.660	DL 0.164	DL 0.165	2.86
Benzo(a)fluoranthene	DL 6.660	DL 6.660			3.67
Dibenze(a,h)anthracene	DL 6.660	DL 6.660	DL 0.164	DL 0.165	DL 6.662
Indeno(1,2,3-c,d)pyrene	DL 6.660	DL 6.660			1.54
TPH	8260	7520	150	120	30

United States Environmental Protection Agency Region III Risk Based Concentration Table Criteria:		
		mg/kg
	Benzo(a)anthracene	0.88
	Benzo(a)pyrene	0.088
	Benzo(a)fluoranthene	0.88
	Dibenze(a,h)anthracene	0.088
	Indeno(1,2,3-c,d)pyrene	0.88

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: December 16, 1996

Sample ID	: SPORT0260-1
Lab ID	: 9612094-01
Matrix	: Soil
Date Collected	: 12/04/96
Date Received	: 12/04/96
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
BTEX - 4 items											
Benzene	U	0.00	10000	20000	ug/kg	10000	JGS2	12/06/96	1156	94538	1
Ethylbenzene	U	0.00	10000	20000	ug/kg	10000					
Toluene	U	0.00	10000	20000	ug/kg	10000					
Xylenes (TOTAL)	U	0.00	10000	20000	ug/kg	10000					
Naphthalene	U	0.00	10000	20000	ug/kg	10000					
Extractable Organics											
Polynuclear Aromatic Hydrocarbons - 16 items											
Acenaphthene	U	0.00	6660	13300	ug/kg	40.	BDG	12/11/96	2033	94528	2
Acenaphthylene	U	0.00	6660	13300	ug/kg	40.					
Anthracene	U	0.00	6660	13300	ug/kg	40.					
Benzo(a)anthracene	U	0.00	6660	13300	ug/kg	40.					
Benzo(a)pyrene	U	0.00	6660	13300	ug/kg	40.					
Benzo(b)fluoranthene	U	0.00	6660	13300	ug/kg	40.					
Benzo(ghi)perylene	U	0.00	6660	13300	ug/kg	40.					
Benzo(k)fluoranthene	U	0.00	6660	13300	ug/kg	40.					
Chrysene	U	0.00	6660	13300	ug/kg	40.					
Dibenzo(a,h)anthracene	U	0.00	6660	13300	ug/kg	40.					
Fluoranthene	U	0.00	6660	13300	ug/kg	40.					
Fluorene	U	6660	6660	13300	ug/kg	40.					
Indeno(1,2,3-c,d)pyrene	U	0.00	6660	13300	ug/kg	40.					
Naphthalene	U	0.00	6660	13300	ug/kg	40.					
Phenanthrene	J	12800	6660	13300	ug/kg	40.					
Pyrene	U	0.00	6660	13300	ug/kg	40.					
Metals Analysis											
Mercury		0.223	0.00241	0.200	mg/kg	1.0	RMJ	12/11/96	1303	94693	M
Silver	U	36.1	42.4	1000	ug/kg	2.0	NRM	12/11/96	1640	94627	
Arsenic		5580	276	1000	ug/kg	2.0					

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: December 16, 1996

Sample ID : SPORT0260-1

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Barium		23700	24.7	1000	ug/kg	2.0					
Cadmium	U	14.6	20.9	500	ug/kg	2.0	NRM	12/11/96	1640	94627	3
Chromium		15400	62.1	1000	ug/kg	2.0					
Lead		35000	136	500	ug/kg	2.0					
Selenium	J	231	228	500	ug/kg	2.0					
General Chemistry											
Total Rec. Petro. Hydrocarbons		8260	10.0	50.0	mg/kg	1.0	SLR	12/05/96	1030	94537	4

The following prep procedures were performed:

GC/MS Base/Neutral Compounds	MS	12/09/96	1200	94528	5
Mercury	CRB	12/10/96	1340	94693	6
TRACE	CRB	12/09/96	1830	94627	7

Comments:
A dilution was required for Volatile Organics due to a high concentration of hydrocarbons. A dilution was required for Extractable Organics due to matrix interference.

As a result, the detection limits are elevated.

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610	0.00*	(30.0 - 115.)
Nitrobenzene-d5	M610	0.00*	(23.0 - 120.)
p-Terphenyl-d14	M610	0.00*	(37.3 - 128.)
Bromofluorobenzene	BTEX-8260	87.0	(59.7 - 159.)
Dibromofluoromethane	BTEX-8260	86.1	(74.0 - 128.)
Toluene-d8	BTEX-8260	85.1	(53.4 - 163.)
Bromofluorobenzene	NAP-8260	87.0	(59.7 - 159.)
Dibromofluoromethane	NAP-8260	86.1	(74.0 - 128.)
Toluene-d8	NAP-8260	85.1	(53.4 - 163.)

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FL	E87156/87294	E87472
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: December 16, 1996

Sample ID : SPORT0260-1

M = Method	Method-Description
M 1	EPA 8260
M 2	EPA 8270
M 3	EPA 6010A
M 4	EPA 9071
M 5	EPA 3550
M 6	EPA 7471
M 7	EPA 3050

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Karen Blakeney
Reviewed By

GENERAL ENGINEERING LABORATORIES

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: December 16, 1996

Sample ID	: SPORT0260-2
Lab ID	: 9612094-02
Matrix	: Soil
Date Collected	: 12/04/96
Date Received	: 12/04/96
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
BTEX - 4 items											
Benzene	U	0.00	10000	20000	ug/kg	10000	JGS2	12/06/96	1232	94538	1
Ethylbenzene	U	0.00	10000	20000	ug/kg	10000					
Toluene	U	0.00	10000	20000	ug/kg	10000					
Xylenes (TOTAL)	U	0.00	10000	20000	ug/kg	10000					
Naphthalene	J	17600	10000	20000	ug/kg	10000					
Extractable Organics											
Polynuclear Aromatic Hydrocarbons - 16 items											
Acenaphthene	J	7860	6660	13300	ug/kg	40.	BDG	12/11/96	2105	94528	2
Acenaphthylene	U	0.00	6660	13300	ug/kg	40.					
Anthracene	U	0.00	6660	13300	ug/kg	40.					
Benzo(a)anthracene	U	0.00	6660	13300	ug/kg	40.					
Benzo(a)pyrene	U	0.00	6660	13300	ug/kg	40.					
Benzo(b)fluoranthene	U	0.00	6660	13300	ug/kg	40.					
Benzo(ghi)perylene	U	0.00	6660	13300	ug/kg	40.					
Benzo(k)fluoranthene	U	0.00	6660	13300	ug/kg	40.					
Chrysene	U	0.00	6660	13300	ug/kg	40.					
Dibenzo(a,h)anthracene	U	0.00	6660	13300	ug/kg	40.					
Fluoranthene	J	7860	6660	13300	ug/kg	40.					
Fluorene	J	8790	6660	13300	ug/kg	40.					
Indeno(1,2,3-c,d)pyrene	U	0.00	6660	13300	ug/kg	40.					
Naphthalene	J	9190	6660	13300	ug/kg	40.					
Phenanthrene		20600	6660	13300	ug/kg	40.					
Pyrene	U	0.00	6660	13300	ug/kg	40.					
Metals Analysis											
Mercury	J	0.0784	0.00241	0.200	mg/kg	1.0	RMJ	12/11/96	1305	94693	N
Silver	J	47.8	42.0	990	ug/kg	2.0	NRM	12/11/96	1645	94627	1
Arsenic		4870	273	990	ug/kg	2.0					

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STATE	GEL	EPI
FL	E87156/87294	E87472
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: December 16, 1996

Sample ID : SPORT0260-2

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Barium		17800	24.5	990	ug/kg	2.0					
Cadmium	J	38.7	20.7	495	ug/kg	2.0	NRM	12/11/96	1645	94627	3
Chromium		15300	61.5	990	ug/kg	2.0					
Lead		48800	135	495	ug/kg	2.0					
Selenium	U	168	226	495	ug/kg	2.0					
General Chemistry											
Total Rec. Petro. Hydrocarbons		7520	10.0	50.0	mg/kg	1.0	SLR	12/05/96	1030	94537	

The following prep procedures were performed:

GC/MS Base/Neutral Compounds	MS	12/09/96	1200	94528	5
Mercury	CRB	12/10/96	1340	94693	6
TRACE	CRB	12/09/96	1830	94627	7

Comments:
A dilution was required for Volatile Organics due to a high concentration of hydrocarbons. A dilution was required for Extractable Organics due to matrix interference.

As a result, the detection limits are elevated.

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610	0.00*	(30.0 - 115.)
Nitrobenzene-d5	M610	0.00*	(23.0 - 120.)
p-Terphenyl-d14	M610	0.00*	(37.3 - 128.)
Bromofluorobenzene	BTEX-8260	96.4	(59.7 - 159.)
Dibromofluoromethane	BTEX-8260	93.7	(74.0 - 128.)
Toluene-d8	BTEX-8260	93.2	(53.4 - 163.)
Bromofluorobenzene	NAP-8260	96.4	(59.7 - 159.)
Dibromofluoromethane	NAP-8260	93.7	(74.0 - 128.)
Toluene-d8	NAP-8260	93.2	(53.4 - 163.)

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: December 16, 1996

Sample ID : SPORT0260-2

M = Method	Method-Description
M 1	EPA 8260
M 2	EPA 8270
M 3	EPA 6010A
M 4	EPA 9071
M 5	EPA 3550
M 6	EPA 7471
M 7	EPA 3050

Notes:
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J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Karen Blakeney
Reviewed By

GENERAL ENGINEERING LABORATORIES

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: December 16, 1996

Sample ID	: SPORT0260-3
Lab ID	: 9612094-03
Matrix	: GroundH2O
Date Collected	: 12/04/96
Date Received	: 12/04/96
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
BTEX - 4 items											
Benzene	U	0.00	1.00	2.00	ug/l	1.0	RMB	12/10/96	2235	94743	1
Ethylbenzene	U	0.00	1.00	2.00	ug/l	1.0					
Toluene	U	0.00	1.00	2.00	ug/l	1.0					
Xylenes (TOTAL)	U	0.00	1.00	4.00	ug/l	1.0					
Naphthalene	U	0.00	1.00	2.00	ug/l	1.0					

Surrogate Recovery	Test	Percent%	Acceptable Limits
Bromofluorobenzene	BTEX-8260	108.	(80.0 - 128.)
Dibromofluoromethane	BTEX-8260	107.	(67.7 - 135.)
Toluene-d8	BTEX-8260	105.	(76.8 - 122.)
Bromofluorobenzene	NAP-8260	108.	(80.0 - 128.)
Dibromofluoromethane	NAP-8260	107.	(67.7 - 135.)
Toluene-d8	NAP-8260	105.	(76.8 - 122.)

M = Method	Method-Description
M 1	EPA 8260

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/1
NC	233	
SC	10120	10582
TN	02934	02934

Client:	Supervisor of Ship Building & Conversion SUPSHIP-Portsmouth Detachment-Env. 1899 North Hobson Ave. North Charleston, South Carolina 29405-2106
Contact:	Mr. Bill Hiers
Project Description:	SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: December 16, 1996

Sample ID : SPORT0260-3

M = Method	Method-Description

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Karen Blakeney
Reviewed By

PO Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407

(803) 556-8171 • Fax (803) 766-1178

9612094-03

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: January 22, 1997

Sample ID	: SPORT0293-1
Lab ID	: 9701200-01
Matrix	: GroundH2O
Date Collected	: 01/13/97
Date Received	: 01/13/97
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
BTEX - 4 items											
Benzene	U	0.00	10.0	20.0	ug/l	10.	SHJ	01/20/97	1341	96539	1
Ethylbenzene	U	0.00	10.0	20.0	ug/l	10.					
Toluene	U	0.00	10.0	20.0	ug/l	10.					
Xylenes (TOTAL)		30.2	10.0	20.0	ug/l	10.					
Naphthalene	U	0.00	10.0	20.0	ug/l	10.					
Extractable Organics											
Polynuclear Aromatic Hydrocarbons - 16 items											
Acenaphthene	U	0.00	50.0	100	ug/l	10.	RLC	01/21/97	1254	96243	2
Acenaphthylene	U	0.00	50.0	100	ug/l	10.					
Anthracene	U	0.00	50.0	100	ug/l	10.					
Benzo(a)anthracene	U	0.00	50.0	100	ug/l	10.					
Benzo(a)pyrene	U	4.20	50.0	100	ug/l	10.					
Benzo(b)fluoranthene	U	6.20	50.0	100	ug/l	10.					
Benzo(ghi)perylene	U	0.00	50.0	100	ug/l	10.					
Benzo(k)fluoranthene	U	0.00	50.0	100	ug/l	10.					
Chrysene	U	0.00	50.0	100	ug/l	10.					
Dibenzo(a,h)anthracene	U	0.00	50.0	100	ug/l	10.					
Fluoranthene	U	34.0	50.0	100	ug/l	10.					
Fluorene	J	52.0	50.0	100	ug/l	10.					
Indeno(1,2,3-c,d)pyrene	U	9.80	50.0	100	ug/l	10.					
Naphthalene	U	0.00	50.0	100	ug/l	10.					
Phenanthrene		102	50.0	100	ug/l	10.					
Pyrene	U	25.0	50.0	100	ug/l	10.					
Metals Analysis											
Mercury	J	0.0290	0.0148	0.500	ug/l	1.0	RMJ	01/16/97	1545	96302	N
Silver	J	0.751	0.424	10.0	ug/l	1.0	NRM	01/16/97	1821	96287	3
Arsenic		14.3	2.76	10.0	ug/l	1.0					

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: January 22, 1997

Sample ID : SPORT0293-1

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Barium		154	0.247	10.0	ug/l	1.0					
Cadmium	J	0.315	0.209	5.00	ug/l	1.0	NRM	01/16/97	1821	96287	3
Chromium	J	6.05	0.621	10.0	ug/l	1.0					
Lead		18.8	1.36	5.00	ug/l	1.0					
Selenium	J	3.12	2.28	5.00	ug/l	1.0					
General Chemistry											
Total Rec. Petro. Hydrocarbons		22.5	2.00	2.00	mg/l	1.0	SLR	01/16/97	1100	96358	

The following prep procedures were performed:

GC/MS Base/Neutral Compounds	GWL	01/15/97	1600	96243	5
Mercury	RMJ	01/15/97	1700	96302	6
TRACE	FGD	01/15/97	1530	96287	7

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610	62.0	(43.0 - 108.)
Nitrobenzene-d5	M610	72.0	(35.0 - 111.)
p-Terphenyl-d14	M610	38.0	(33.0 - 125.)
Bromofluorobenzene	BTEX-8260	75.4	(73.8 - 128.)
Dibromofluoromethane	BTEX-8260	82.2	(63.9 - 139.)
Toluene-d8	BTEX-8260	77.1	(77.1 - 121.)
Bromofluorobenzene	NAP-8260	75.4	(73.8 - 128.)
Dibromofluoromethane	NAP-8260	82.2	(63.9 - 139.)
Toluene-d8	NAP-8260	77.1	(77.1 - 121.)

M = Method	Method-Description
M 1	EPA 8260
M 2	EPA 8270
M 3	EPA 6010A
M 4	EPA 9070A
M 5	EPA 3510

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: January 22, 1997

Sample ID : SPORT0293-1

M = Method	Method-Description
M 6	EPA 7470
M 7	EPA 3005

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
J indicates that the analyte was not detected at a concentration greater than the detection limit.
' indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Karen Blakeney
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Laboratory Certifications

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NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: January 22, 1997

Sample ID	: SPORT0293-2
Lab ID	: 9701200-02
Matrix	: GroundH2O
Date Collected	: 01/13/97
Date Received	: 01/13/97
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
BTEX - 4 items											
Benzene	U	0.00	10.0	20.0	ug/l	10.	SHJ	01/20/97	1412	96539	1
Ethylbenzene	U	0.00	10.0	20.0	ug/l	10.					
Toluene	U	0.00	10.0	20.0	ug/l	10.					
Xylenes (TOTAL)	U	0.00	10.0	20.0	ug/l	10.					
Naphthalene	U	0.00	10.0	20.0	ug/l	10.					

Surrogate Recovery	Test	Percent%	Acceptable Limits
Bromofluorobenzene	BTEX-8260	82.7	(73.8 - 128.)
Dibromofluoromethane	BTEX-8260	89.9	(63.9 - 139.)
Toluene-d8	BTEX-8260	82.3	(77.1 - 121.)
Bromofluorobenzene	NAP-8260	82.7	(73.8 - 128.)
Dibromofluoromethane	NAP-8260	89.9	(63.9 - 139.)
Toluene-d8	NAP-8260	82.3	(77.1 - 121.)

M = Method	Method-Description
M 1	EPA 8260

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Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: January 22, 1997

Sample ID : SPORT0293-2

M = Method	Method-Description

Notes:
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SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: January 29, 1997

Sample ID	: SPORT0310-1
Lab ID	: 9701340-01
Matrix	: Soil
Date Collected	: 01/17/97
Date Received	: 01/17/97
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
BTEX - 4 items											
Benzene	U	0.00	100	200	ug/kg	100	JAC	01/27/97	1952	96984	1
Ethylbenzene	U	72.0	100	200	ug/kg	100					
Toluene	U	0.00	100	200	ug/kg	100					
Xylenes (TOTAL)		405	100	200	ug/kg	100					
Naphthalene		1300	100	200	ug/kg	100					
Extractable Organics											
Polynuclear Aromatic Hydrocarbons - 16 items											
Acenaphthene	U	0.00	164	330	ug/kg	1.0	RLC	01/28/97	2023	96613	2
Acenaphthylene	U	0.00	164	330	ug/kg	1.0					
Anthracene	J	210	164	330	ug/kg	1.0					
Benzo(a)anthracene	U	91.8	164	330	ug/kg	1.0					
Benzo(a)pyrene	U	36.1	164	330	ug/kg	1.0					
Benzo(b)fluoranthene	U	62.3	164	330	ug/kg	1.0					
Benzo(ghi)perylene	U	0.00	164	330	ug/kg	1.0					
Benzo(k)fluoranthene	U	0.00	164	330	ug/kg	1.0					
Chrysene	U	112	164	330	ug/kg	1.0					
Dibenzo(a,h)anthracene	U	0.00	164	330	ug/kg	1.0					
Fluoranthene	J	312	164	330	ug/kg	1.0					
Fluorene	U	0.00	164	330	ug/kg	1.0					
Indeno(1,2,3-c,d)pyrene	U	36.1	164	330	ug/kg	1.0					
Naphthalene		1060	164	330	ug/kg	1.0					
Phenanthrene		1010	164	330	ug/kg	1.0					
Pyrene	J	187	164	330	ug/kg	1.0					
Metals Analysis											
Mercury	J	0.0789	0.00246	0.200	mg/kg	1.0	RMJ	01/23/97	1242	96504	N
Silver	U	-12.3	40.0	944	ug/kg	2.0	NRM	01/27/97	2118	96654	3
Arsenic		6030	260	944	ug/kg	2.0					

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NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: January 29, 1997

Sample ID : SPORT0310-1

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Barium		22200	23.3	944	ug/kg	2.0					
Cadmium	J	19.9	19.7	472	ug/kg	2.0	NRM	01/27/97	2118	96654	3
Chromium		15900	58.6	944	ug/kg	2.0					
Lead		18000	129	472	ug/kg	2.0					
Selenium	J	464	215	472	ug/kg	2.0					
General Chemistry											
Total Rec. Petro. Hydrocarbons		150	10.0	50.0	mg/kg	1.0	SLR	01/22/97	1200	96724	4

The following prep procedures were performed:

GC/MS Base/Neutral Compounds	MS	01/21/97	1400	96613	5
Mercury	RMJ	01/22/97	1600	96504	6
TRACE	CRB	01/22/97	1915	96654	7

Comments:
A dilution was required for Volatile Organics due to matrix interference.
As a result, the detection limits are elevated.

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610	51.8	(30.0 - 115.)
Nitrobenzene-d5	M610	61.2	(23.0 - 120.)
p-Terphenyl-d14	M610	38.0	(37.3 - 128.)
Bromofluorobenzene	BTEX-8260	95.4	(53.5 - 154.)
Dibromofluoromethane	BTEX-8260	73.1	(63.4 - 136.)
Toluene-d8	BTEX-8260	89.3	(72.1 - 137.)
Bromofluorobenzene	NAP-8260	95.4	(53.5 - 154.)
Dibromofluoromethane	NAP-8260	73.1	(63.4 - 136.)
Toluene-d8	NAP-8260	89.3	(72.1 - 137.)

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STATE	GEL	EPI
FL	E87156/87294	E87472/8
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: January 29, 1997

Sample ID : SPORT0310-1

M = Method	Method-Description
M 1	EPA 8260
M 2	EPA 8270
M 3	EPA 6010A
M 4	EPA 9071
M 5	EPA 3550
M 6	EPA 7471
M 7	EPA 3050

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

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Karen Blakeney
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SC	10120	10582
TN	02934	02934

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SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: January 29, 1997

Sample ID	: SPORT0310-2
Lab ID	: 9701340-02
Matrix	: Soil
Date Collected	: 01/17/97
Date Received	: 01/17/97
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
BTEX - 4 items											
Benzene	U	0.00	10.0	20.0	ug/kg	10.	JAC	01/28/97	0953	96984	1
Ethylbenzene	J	16.7	10.0	20.0	ug/kg	10.					
Toluene	U	0.00	10.0	20.0	ug/kg	10.					
Xylenes (TOTAL)		42.2	10.0	20.0	ug/kg	10.					
Naphthalene	U	0.00	10.0	20.0	ug/kg	10.					
Extractable Organics											
Polynuclear Aromatic Hydrocarbons - 16 items											
Acenaphthene	U	0.00	165	330	ug/kg	1.0	RLC	01/28/97	2056	96613	2
Acenaphthylene	U	0.00	165	330	ug/kg	1.0					
Anthracene	U	0.00	165	330	ug/kg	1.0					
Benzo(a)anthracene	U	0.00	165	330	ug/kg	1.0					
Benzo(a)pyrene	U	0.00	165	330	ug/kg	1.0					
Benzo(b)fluoranthene	U	0.00	165	330	ug/kg	1.0					
Benzo(ghi)perylene	U	0.00	165	330	ug/kg	1.0					
Benzo(k)fluoranthene	U	0.00	165	330	ug/kg	1.0					
Chrysene	U	0.00	165	330	ug/kg	1.0					
Dibenzo(a,h)anthracene	U	0.00	165	330	ug/kg	1.0					
Fluoranthene	U	0.00	165	330	ug/kg	1.0					
Fluorene	U	0.00	165	330	ug/kg	1.0					
Indeno(1,2,3-c,d)pyrene	U	0.00	165	330	ug/kg	1.0					
Naphthalene	U	0.00	165	330	ug/kg	1.0					
Phenanthrene	U	0.00	165	330	ug/kg	1.0					
Pyrene	U	0.00	165	330	ug/kg	1.0					
Metals Analysis											
Mercury	J	0.0302	0.00246	0.200	mg/kg	1.0	RMJ	01/23/97	1245	96504	N
Silver	U	10.2	42.0	990	ug/kg	2.0	NRM	01/27/97	2123	96654	3
Arsenic		7240	273	990	ug/kg	2.0					

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SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: January 29, 1997

Sample ID : SPORT0310-2

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Barium		17300	24.5	990	ug/kg	2.0					
Cadmium	J	28.9	20.7	495	ug/kg	2.0	NRM	01/27/97	2123	96654	3
Chromium		19500	61.5	990	ug/kg	2.0					
Lead		17000	135	495	ug/kg	2.0					
Selenium	J	463	226	495	ug/kg	2.0					
General Chemistry											
Total Rec. Petro. Hydrocarbons		120	10.0	50.0	mg/kg	1.0	SLR	01/22/97	1200	96724	4

The following prep procedures were performed:

GC/MS Base/Neutral Compounds	MS	01/21/97	1400	96613	5
Mercury	RMJ	01/22/97	1600	96504	6
TRACE	CRB	01/22/97	1915	96654	7

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610	93.7	(30.0 - 115.)
Nitrobenzene-d5	M610	109.	(23.0 - 120.)
p-Terphenyl-d14	M610	78.8	(37.3 - 128.)
Bromofluorobenzene	BTEX-8260	124.	(53.5 - 154.)
Dibromofluoromethane	BTEX-8260	79.5	(63.4 - 136.)
Toluene-d8	BTEX-8260	107.	(72.1 - 137.)
Bromofluorobenzene	NAP-8260	124.	(53.5 - 154.)
Dibromofluoromethane	NAP-8260	79.5	(63.4 - 136.)
Toluene-d8	NAP-8260	107.	(72.1 - 137.)

M = Method	Method-Description
M 1	EPA 8260
M 2	EPA 8270
M 3	EPA 6010A
M 4	EPA 9071
M 5	EPA 3550

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NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
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1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: January 29, 1997

Sample ID : SPORT0310-2

M = Method	Method-Description
M 6	EPA 7471
M 7	EPA 3050

Notes:
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NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: January 29, 1997

Sample ID	: SPORT0310-3
Lab ID	: 9701340-03
Matrix	: Soil
Date Collected	: 01/17/97
Date Received	: 01/17/97
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
BTEX - 4 items											
Benzene	U	0.00	1.00	2.00	ug/kg	1.0	JAC	01/28/97	1027	96984	1
Ethylbenzene	U	0.00	1.00	2.00	ug/kg	1.0					
Toluene	U	0.00	1.00	2.00	ug/kg	1.0					
Xylenes (TOTAL)	U	0.00	1.00	4.00	ug/kg	1.0					
Naphthalene	U	0.00	1.00	2.00	ug/kg	1.0					

Surrogate Recovery	Test	Percent%	Acceptable Limits
Bromofluorobenzene	BTEX-8260	111.	(53.5 - 154.)
Dibromofluoromethane	BTEX-8260	74.0	(63.4 - 136.)
Toluene-d8	BTEX-8260	98.8	(72.1 - 137.)
Bromofluorobenzene	NAP-8260	111.	(53.5 - 154.)
Dibromofluoromethane	NAP-8260	74.0	(63.4 - 136.)
Toluene-d8	NAP-8260	98.8	(72.1 - 137.)

M = Method	Method-Description
M 1	EPA 8260

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NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: January 29, 1997

Sample ID : SPORT0310-3

M = Method	Method-Description

Notes:
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NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: January 31, 1997

Sample ID	: SPORT0315-1
Lab ID	: 9701418-01
Matrix	: Soil
Date Collected	: 01/22/97
Date Received	: 01/22/97
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
BTEX - 4 items											
Benzene	U	0.00	25.0	50.0	ug/kg	25.	JAC	01/30/97	1201	97025	1
Ethylbenzene	U	0.00	25.0	50.0	ug/kg	25.					
Toluene	U	0.00	25.0	50.0	ug/kg	25.					
Xylenes (TOTAL)	U	0.00	25.0	50.0	ug/kg	25.					
Naphthalene		490	25.0	50.0	ug/kg	25.					
Extractable Organics											
Polynuclear Aromatic Hydrocarbons - 16 items											
Acenaphthene		3560	662	1320	ug/kg	4.0	JCB	01/26/97	0017	96986	2
Acenaphthylene	U	0.00	662	1320	ug/kg	4.0					
Anthracene		3310	662	1320	ug/kg	4.0					
Benzo(a)anthracene		3670	662	1320	ug/kg	4.0					
Benzo(a)pyrene		2860	662	1320	ug/kg	4.0					
Benzo(b)fluoranthene		3570	662	1320	ug/kg	4.0					
Benzo(ghi)perylene	J	1230	662	1320	ug/kg	4.0					
Benzo(k)fluoranthene		1990	662	1320	ug/kg	4.0					
Chrysene		3570	662	1320	ug/kg	4.0					
Dibenzo(a,h)anthracene	U	0.00	662	1320	ug/kg	4.0					
Fluoranthene		9820	662	1320	ug/kg	4.0					
Fluorene		3320	662	1320	ug/kg	4.0					
Indeno(1,2,3-c,d)pyrene		1540	662	1320	ug/kg	4.0					
Naphthalene		2770	662	1320	ug/kg	4.0					
Phenanthrene		10800	662	1320	ug/kg	4.0					
Pyrene		10100	662	1320	ug/kg	4.0					
Metals Analysis											
Mercury	J	0.146	0.00234	0.200	mg/kg	1.0	RMJ	01/27/97	1623	96893	N
Silver	U	19.8	41.6	980	ug/kg	2.0	NRM	01/28/97	1757	96883	3
Arsenic		10200	270	980	ug/kg	2.0					

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STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: January 31, 1997

Sample ID : SPORT0315-1

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Barium		19500	24.2	980	ug/kg	2.0					
Cadmium	J	28.4	20.5	490	ug/kg	2.0	NRM	01/28/97	1757	96883	3
Chromium		25400	60.9	980	ug/kg	2.0					
Lead		22200	134	490	ug/kg	2.0					
Selenium	U	205	223	490	ug/kg	2.0					
General Chemistry											
Total Rec. Petro. Hydrocarbons	J	30.0	10.0	50.0	mg/kg	1.0	SLR	01/28/97	1100	96992	4

The following prep procedures were performed:

GC/MS Base/Neutral Compounds	MS	01/28/97	1530	96986	5
Mercury	CRB	01/24/97	1630	96893	6
TRACE	FGD	01/27/97	1800	96883	7

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610	102.	(30.0 - 115.)
Nitrobenzene-d5	M610	71.8	(23.0 - 120.)
p-Terphenyl-d14	M610	101.	(37.3 - 128.)
Bromofluorobenzene	BTEX-8260	99.2	(53.5 - 154.)
Dibromofluoromethane	BTEX-8260	108.	(63.4 - 136.)
Toluene-d8	BTEX-8260	113.	(72.1 - 137.)
Bromofluorobenzene	NAP-8260	99.2	(53.5 - 154.)
Dibromofluoromethane	NAP-8260	108.	(63.4 - 136.)
Toluene-d8	NAP-8260	113.	(72.1 - 137.)

M = Method	Method-Description
M 1	EPA 8260
M 2	EPA 8270
M 3	EPA 6010A
M 4	EPA 9071
15	EPA 3550

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: January 31, 1997

Sample ID : SPORT0315-1

M = Method	Method-Description
M 6	EPA 7471
M 7	EPA 3050

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
- ndicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
ndicates that the analyte was not detected at a concentration greater than the detection limit.
ndicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Karen Blakeney
Reviewed By

PO Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407

(803) 556-8171 • Fax (803) 766-1178

9701418-01

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SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: January 31, 1997

Sample ID	: SPORT0315-2
Lab ID	: 9701418-02
Matrix	: Soil
Date Collected	: 01/22/97
Date Received	: 01/22/97
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
BTEX - 4 items											
enzene	U	0.00	1.00	2.00	ug/kg	1.0	JAC	01/28/97	1730	97025	1
Ethylbenzene	U	0.00	1.00	2.00	ug/kg	1.0					
Toluene	U	0.00	1.00	2.00	ug/kg	1.0					
Xylenes (TOTAL)	U	0.00	1.00	4.00	ug/kg	1.0					
Naphthalene	J	1.06	1.00	2.00	ug/kg	1.0					

Surrogate Recovery	Test	Percent%	Acceptable Limits
Bromofluorobenzene	BTEX-8260	116.	(53.5 - 154.)
Dibromofluoromethane	BTEX-8260	73.0	(63.4 - 136.)
Toluene-d8	BTEX-8260	103.	(72.1 - 137.)
Bromofluorobenzene	NAP-8260	116.	(53.5 - 154.)
Dibromofluoromethane	NAP-8260	73.0	(63.4 - 136.)
Toluene-d8	NAP-8260	103.	(72.1 - 137.)

M = Method	Method-Description
M 1	EPA 8260

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Karen Blakeney
Reviewed By

PO Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407

(803) 556-8171 • Fax (803) 766-1178

9701418-02

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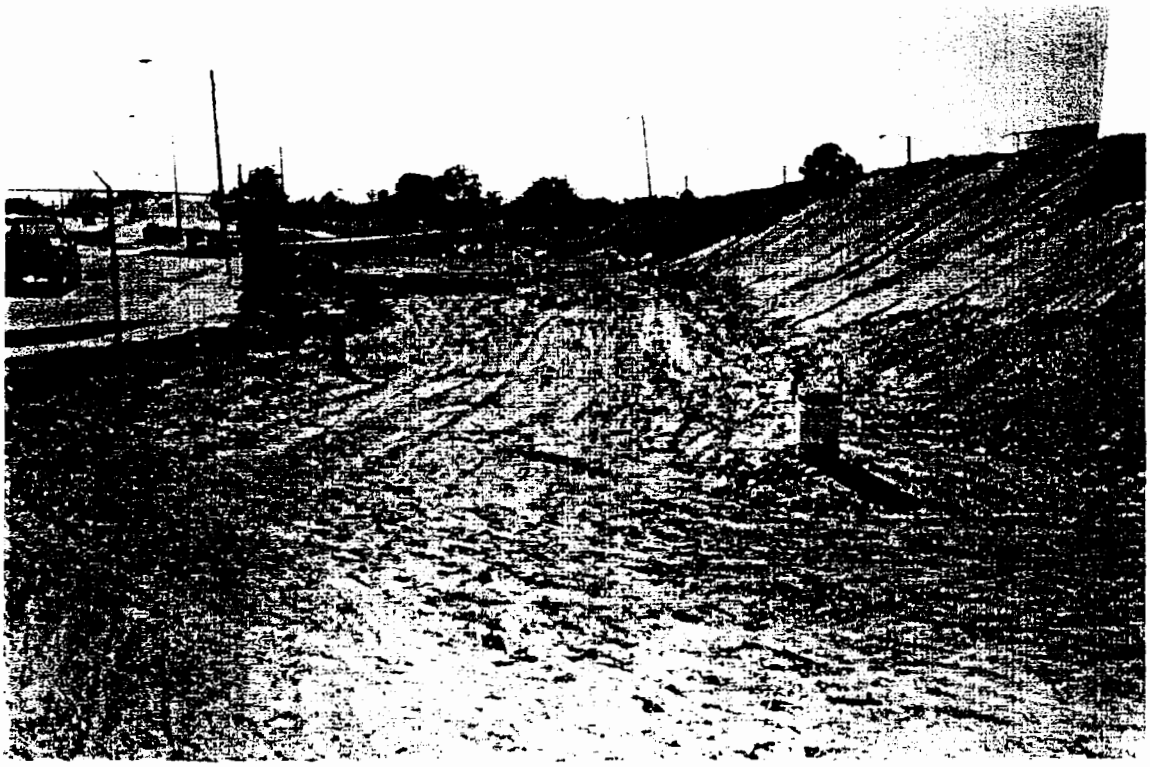
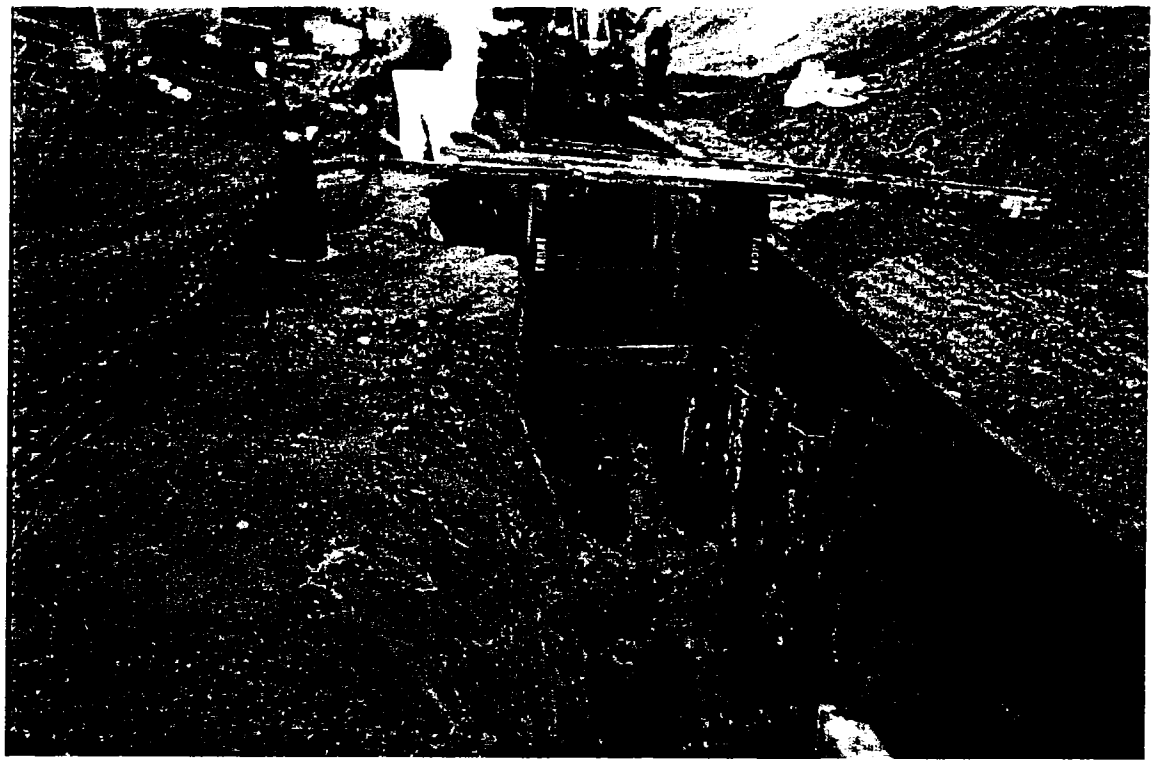
APPENDIX C

PHOTOGRAPHS

Southwest view of site prior to excavation. Stressed vegetation in foreground, four existing product recovery wells in background.



Southwest view of site after excavation of 18" f.o. pipeline. The five product recovery wells are in the background.



Workers in the process of removing a section of 18" f.o. pipeline. Sheet piling is visible inside the lower right trench wall.

Typical hole identified throughout the length of the 18" f.o. pipeline.

Installation of product recovery system, 12" PVC horizontal and vertical pipe, inside trenchbox.

APPENDIX D

DRAWINGS

Appendix G

Fuel Distribution System
Site Characterization Report AOC 626 (SCAPS)

NAVAL FACILITIES ENGINEERING SERVICE CENTER
Port Hueneme, California 93043-4328

Site Specific Repor
SSR-2185-EN\

SITE CHARACTERIZATION AND ANALYSIS PENETROMETER SYSTEM

SITE CHARACTERIZATION AT
NAVAL BASE CHARLESTON
CHARLESTON, SOUTH CAROLINA

AOC 626
CHARLESTON NAVAL SUPPLY CENTER
FUEL FARM

by
Jed Costanza

April 1996

Distribution authorized to U.S. Government agencies and their contractors; Administrative/Operational Use; April 1996. Other requests shall be referred to Naval Facilities Engineering Service Center.

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FINAL REPORT

SITE CHARACTERIZATION AND ANALYSIS PENETROMETER SYSTEM

SITE CHARACTERIZATION
AT NAVAL BASE CHARLESTON
CHARLESTON, SOUTH CAROLINA

AOC 626
CHARLESTON NAVAL SUPPLY CENTER
FUEL FARM

Document Identification: NFESC-SCAPS Documentation Number FINAL95-011

Prepared by:

Jed Costanza
Environmental Engineer

Approved by:

Thomas H. Flor
Head, Consultation and Information Management Branch Code 413

EXECUTIVE SUMMARY

An investigation was conducted from 10 to 16 July 1995 at Naval Supply Center Fuel Farm, Naval Base Charleston, AOC 626. Thirty Three SCAPS pushes were completed and eight soil samples were collected for analysis.

The near surface geology, as interpreted through soil boring logs and the SCAPS investigation data consists of silty clay to clay, organic material, sands, silty sands, and clay. Figure 3 provides a visual representation of the lithology as determined by SCAPS for the Fuel Farm.

All indication is that the SCAPS system worked. The confirmation sample analysis reveals a lack of significant quantities of fuel. The conclusion is that fuel was found in low concentrations (below 16 ppm by EPA Method 8015 Modified) in the SCAPS push locations at the Fuel Farm. High fluorescent responses are related to the organic content of the soil. Variability in the distribution of the soil types results in patterns that look like fuel contamination.

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This report documents the Site Characterization and Analysis Penetrometer System (SCAPS) investigation of AOC 626, at the Naval Supply Center Fuel Farm, Naval Base Charleston. The investigation consisted of pushing a penetrometer probe (known as a "push") into the subsurface at locations in and around the site to determine soil lithology and the vertical and lateral extent of hydrocarbon contamination. The investigation was conducted from 10 to 16 July 1995. Thirty Three SCAPS pushes were completed and eight soil samples were collected for analysis.

1. INTRODUCTION

1.1 Objectives

The objective of the SCAPS investigation was to define the extent of polynuclear aromatic hydrocarbon (PAH) contamination in the area outside of the Fuel Farm.

1.2 Site Location

Naval Base Charleston is located in Charleston, South Carolina. As shown in Figure 1, Naval Base Charleston is located north of Charleston. The Fuel Farm is located in the central portion of the Naval Base as shown in Figure 2. (NEESA, 1983)

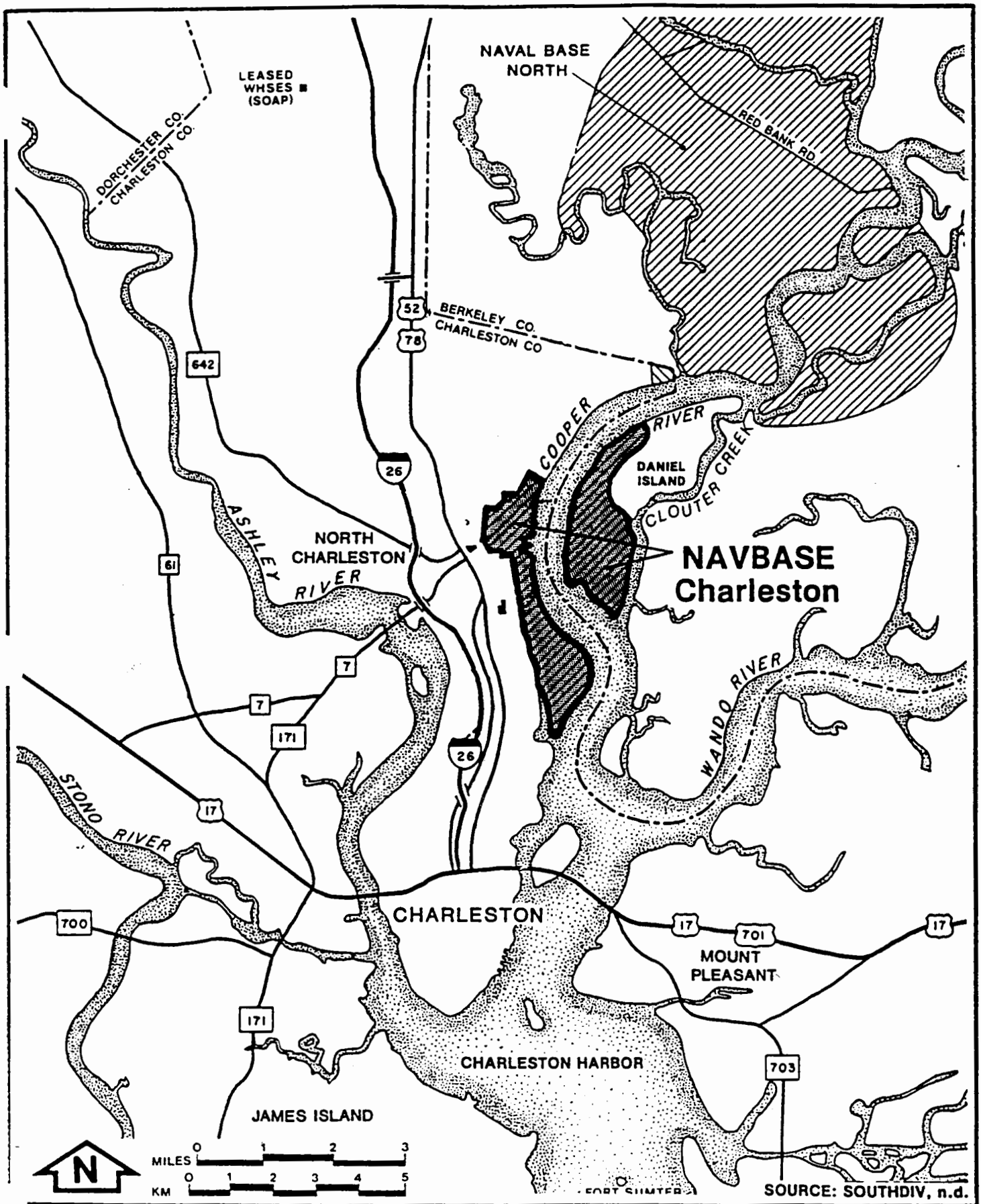
1.3 Site History

Bulk quantities of diesel oil, Navy Special Fuel Oil, and waste oil have been stored in the tanks at the Fuel Farm from the late 1930s through today. (NEESA, 1983)

There is an existing fuel recovery system in place near the intersection of Hobson Avenue and Viaduct Road. There are reports of fuel in the utility backfill material.

1.4 Site Geology

The geology of the Charleston area is typical of the southern part of the Atlantic Coastal Plain. A seaward-thickening wedge of Cretaceous and younger sediments is underlain by older igneous and metamorphic basement rock. At Naval Base Charleston, Recent and/or Pleistocene sands, silts, and clays of high organic content are exposed at the surface. These materials are underlain by a plastic calcareous clay known as the Cooper Marl. (NEESA, 1983)



igure 1
LOCATION MAP OF NAVBASE CHARLESTON

NAVAL BASE CHARLESTON

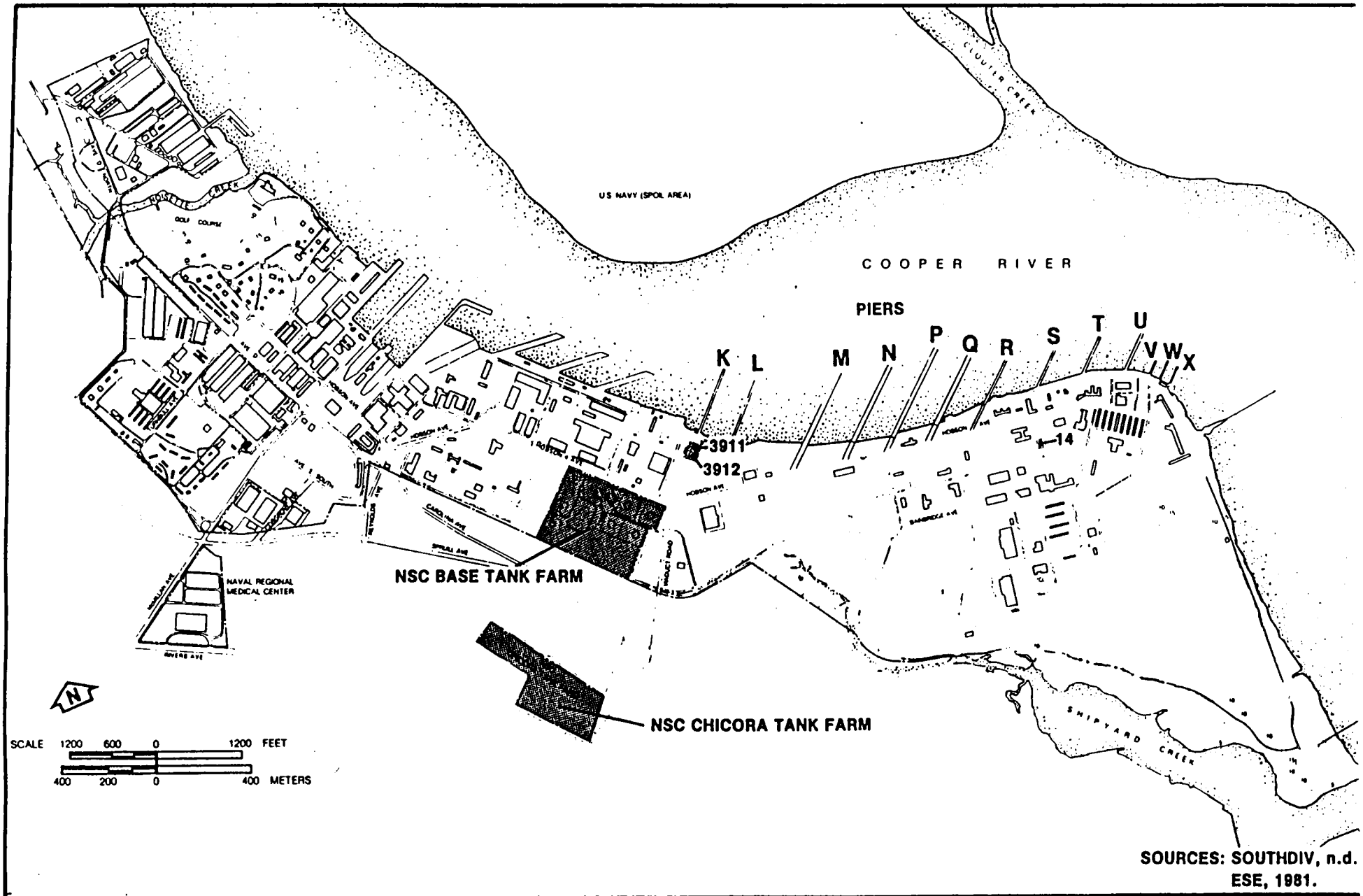


Figure 2
LOCATIONS OF NSC POL STORAGE AREAS

NAVAL BASE CHARLESTON

The surface soils at Naval Base Charleston have been extensively disturbed by a long history of intensive use. The natural surface soils were probably fine-grained materials typical of tidal marsh environments. Most of the southern portion of the base has been covered with dredged spoil. This spoil is an unsorted mixture of sands, silts, and clays. Most areas of the base have been either filled or reworked. The permeability of the surface soils is rather low, as evidenced by the repeated history of poor drainage. (NEESA, 1983)

In the shallow aquifer underneath the Naval Base, water flows toward the Cooper River or Shipyard. The water table is within 3 to 7 feet of the ground surface. The shallow ground water continually discharges to the Cooper River and Shipyard Creek. (NEESA, 1983)

1.5 Investigation Procedure

The investigation began by asking Naval Facilities Engineering Command, Southern Division to provide locations for approximately 30 potential pushes. The first push was performed to the northwest of Tank 3900-E. The first six pushes were completed to verify that no fuel was migrating to the southeast of the Fuel Farm. The next twenty seven pushes were completed to define the extent of fuel contamination.

Appendix A contains the methods used during the investigation.

2. INTERPRETATIONS

2.1 Interpreting Laser Induced Fluorescence Data.

SCAPS is a field screening technique that detects petroleum hydrocarbons using the technique of laser induced fluorescence (LIF). SCAPS measures the presence of petroleum hydrocarbons by detecting polynuclear aromatic hydrocarbons (PAHs). PAHs are virtually found in all petroleum fuel mixtures. The PAHs fluorescence under ultra violet excitation, so that the amount of fluorescence is related to the amount of PAHs. A detailed system description is included in Appendix B.

The sensitivity of SCAPS varies with the portion of PAHs in the petroleum fuel. The present SCAPS system is most sensitive to PAHs with three or more rings like those found in heavy fuels such as diesel fuel and heating oils. The system has a reduced sensitivity to lighter fuels such as avgas, JP-5, and JP-4 which contain a smaller portion of three or more ringed PAHs.

The Laser Induced Fluorescence (LIF) system is quantitative in a known soil matrix with a known contaminant. However, when operated in the field the LIF system is semi-quantitative due to typical variations in the local soil matrix contaminant type.

SCAPS results are intended to be used to gain a better understanding of contaminant distribution while reducing the number of investigation iterations at a site. Experience has shown that the measured fluorescence intensity is a good gross indicator of the location and amount of petroleum in the soil at a site, and that the SCAPS measurements are most effective when used in conjunction with a reduced number of soil samples that provide a quantitative measurement of the amount of contamination. The SCAPS results are not intended to define the extent of contamination for regulatory purposes.

Interpretation of the LIF response is completed by performing statistical analysis of the data collected to determine the Fluorescence Threshold (FT). The statistical analysis is included in Appendix C. A responding fluorescent intensity below the FT represents the normal population of responses that is expected from a complex soil system. A responding fluorescent intensity above the FT represents a different population of responses that can be shown to represent petroleum hydrocarbon contamination. This is shown during each investigation by collecting soil samples from ten percent of the push locations and sending the samples to contracted laboratories for total petroleum hydrocarbon analysis.

2.2 LIF System Output

A push profile is generated after the LIF system collects the data. All the profiles are included in Appendix D. A profile consists of six columns of information. The first three columns are cone penetrometer data that is discussed in section 2.3. The last two columns of information are LIF system results. The first of the last two columns represents the Peak Wavelength in nanometers of the responding signal. This is used real time to indicate:

- consistency with previous results
- consistency of the response with depth
- consistency with known contaminant responses from previous investigations

The second of the last two columns represents the peak Raw Fluorescent intensity of the responding signal. This is used real time to indicate:

- the magnitude of the responding signal with respect to the calibration samples
- the depth and thickness of the positive response

Responses at or near the ground surface are considered false positives since they could represent plant materials.

2.3 Cone Penetrometer Data

As mentioned in the previous section, the push profile consists of six columns of information. The first three columns are cone penetrometer data results. The first of the three columns

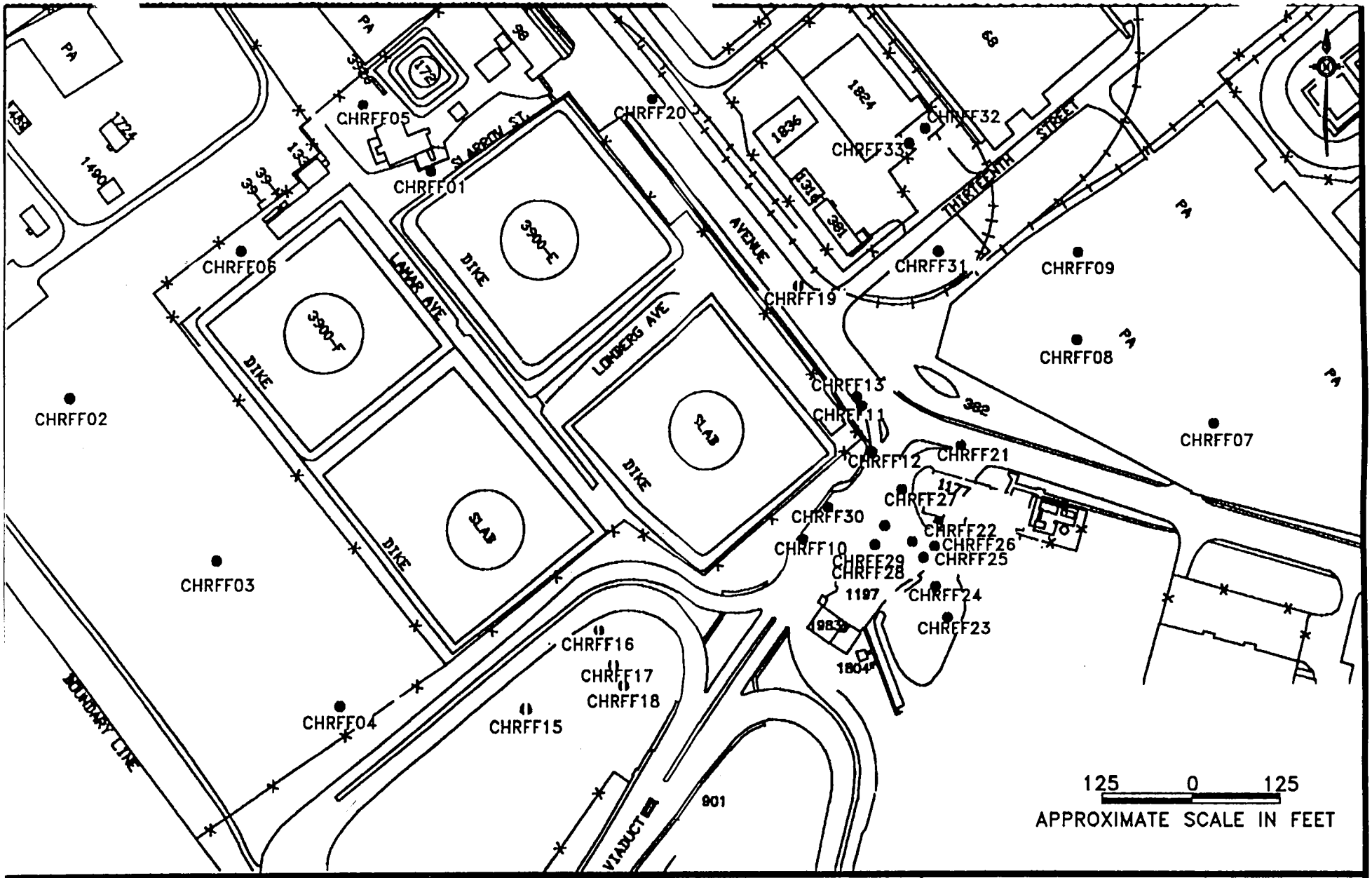
represents the cone pressure in tons per square foot (tsf). The cone pressure measurement, q_c, is recorded with a Wheatstone bridge strain gauge in terms of the voltage and converted to bearing pressure expressed as tons/ft^2 (tsf). Results may be used in geotechnical design or along with sleeve friction to determine soil classification. The cone resistance is a measure of the grain-to-grain skeleton strength for sands and silts. Further advancement of the probe is stopped if this measurement exceeds 1000 tsf at any time during the push.

The second of the first three columns represents the sleeve friction in tons per square foot (tsf). The sleeve friction resistance, f_s, is the resistance of the soil as it slides past the friction sleeve. Further advancement of the probe is stopped if this measurement exceeds 8 tsf at any time during the push.

The third column represents the soil classification as a number between 1 and 12. This is determined from the ratio of cone pressure and sleeve friction. Appendix E contains the chart that is used to convert the number to a soil classification type.

Techniques for using the soil strength measurements (cone pressure and sleeve friction) made with the cone penetrometer to determine soil type have been well-documented (Olsen and Farr, 1986). The classification scheme used by the SCAPS was devised by Robertson and Campanella (1989) to identify the types of soils encountered by cone penetrometer probes. For a detailed description of the output interpretation see Roberston and Campanella (1989), "Guidelines for Geothechnical Design Using the Cone Penetrometer Test and CPT with Pore Pressure Measurement." Hogentogler & Co., Inc., Columbia, MD.

SCAPS standard electrical cone penetrometer instrumentation consists of strain gauges measuring cone pressure and sleeve friction in accordance with American Society of Testing and Materials (ASTM) Standard D3441. The probe does not fully conform to ASTM standard because the diameter changes less than one foot above the friction sleeve.



SCAPS INVESTIGATION OF AOC 626 CHARLESTON NAVAL SUPPLY CENTER FUEL FARM	FIGURE 3 - SCAPS PUSH LOCATIONS	NAVAL BASE CHARLESTON CHARLESTON, SOUTH CAROLINA

3. RESULTS

Figure 3 shows the locations of SCAPS pushes completed at the Fuel Farm. The raw SCAPS results along with the confirmation sample results are in Appendix F.

Most of the Fluorescent Intensity results were below the Fluorescent Threshold (7157 counts). The following Push holes have Fluorescent Intensity responses that are greater than the Fluorescent Threshold and were suspected of being contaminated:

- CHRFF04
- CHRFF11
- CHRFF13
- CHRFF16
- CHRFF18
- CHRFF22
- CHRFF32

Confirmatory soil samples were collected from the depth below ground surface to coincide with the suspected contaminated areas. The soil samples were analyzed by the Ensafe laboratory and by the PWC Jacksonville contract laboratory (results are in Appendix A). The PWC Jacksonville laboratory used EPA Method 418.1 for analysis and did not detect any petroleum hydrocarbons. The Ensafe laboratory used EPA Method 8015 modified and found 16.9 ppm TPH in the sample from CHRFF22. (Information found in Appendix F)

The control standard that is used before and after each push is described in Appendix B.2. The results of the control standard checks are included in Appendix F as Pre Quinine Sulfate and Post Quinine Sulfate. These control standard results show that the Laser Induced Fluorescence systems was working during each push.

The soil results are given in Figure 4, 5, 6, and 7. These figures present cross-sections of the soil type as determined by the cone penetrometer. One interesting feature are the logs from Push holes CHRFF 11, 13, 19, and 21. These pushes were completed in Hobson Avenue near underground utilities. From approximately 9 to 12 feet below ground surface the soil type is silty sand to sandy silt. This region and soil type was thought likely to be contaminated because of the greater permeability as compared with the other soil types.

4. CONCLUSION

There are values of Fluorescent Intensity that indicate the presence of PAHs. However, the confirmation samples that were collected and analyzed reveal that no PAHs are present at significant concentrations. Both the SCAPS and conventional fixed laboratory analysis methods showed a lack of contamination at the Fuel Farm.

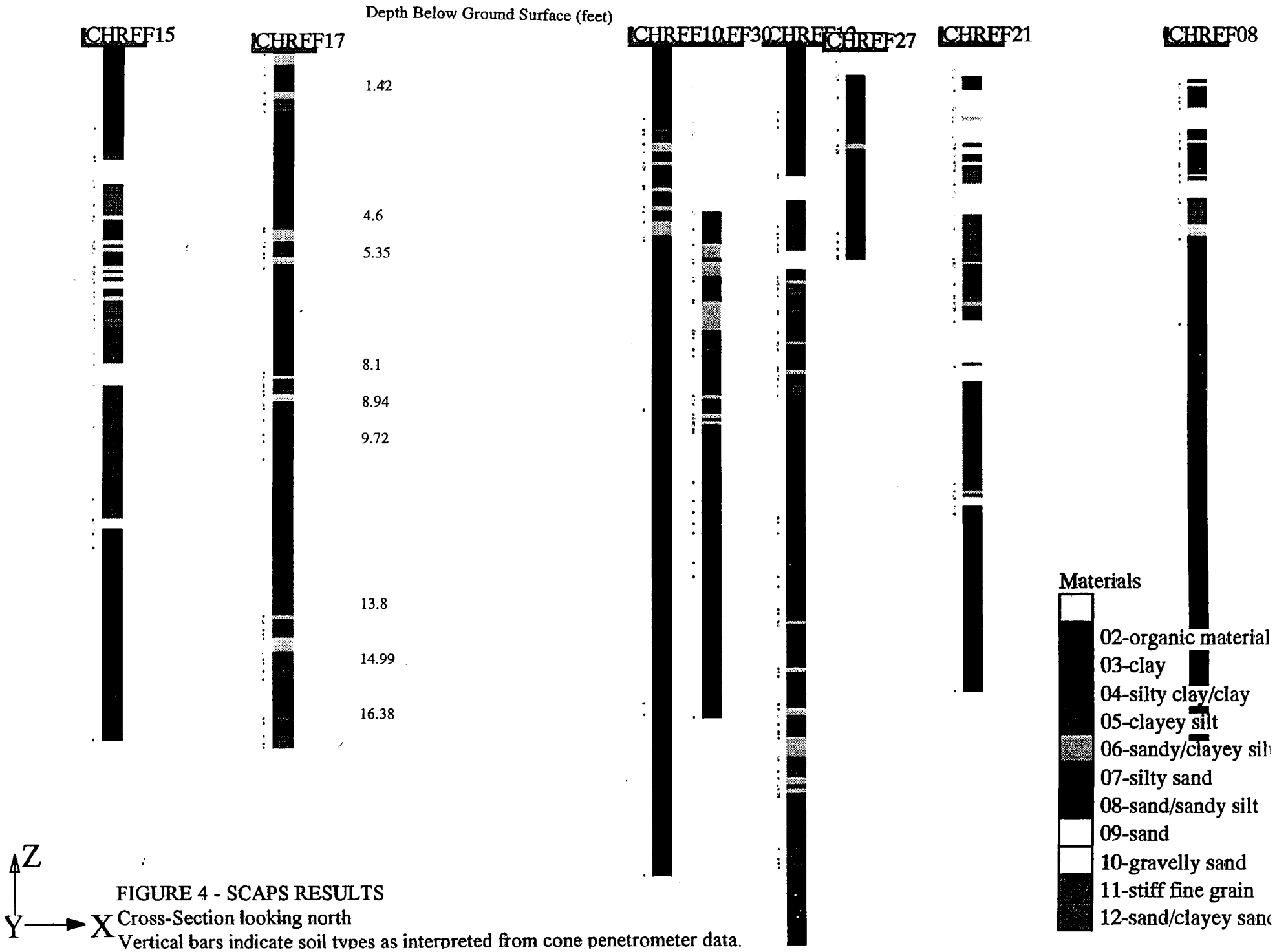


FIGURE 4 - SCAPS RESULTS
Cross-Section looking north
Vertical bars indicate soil types as interpreted from cone penetrometer data.

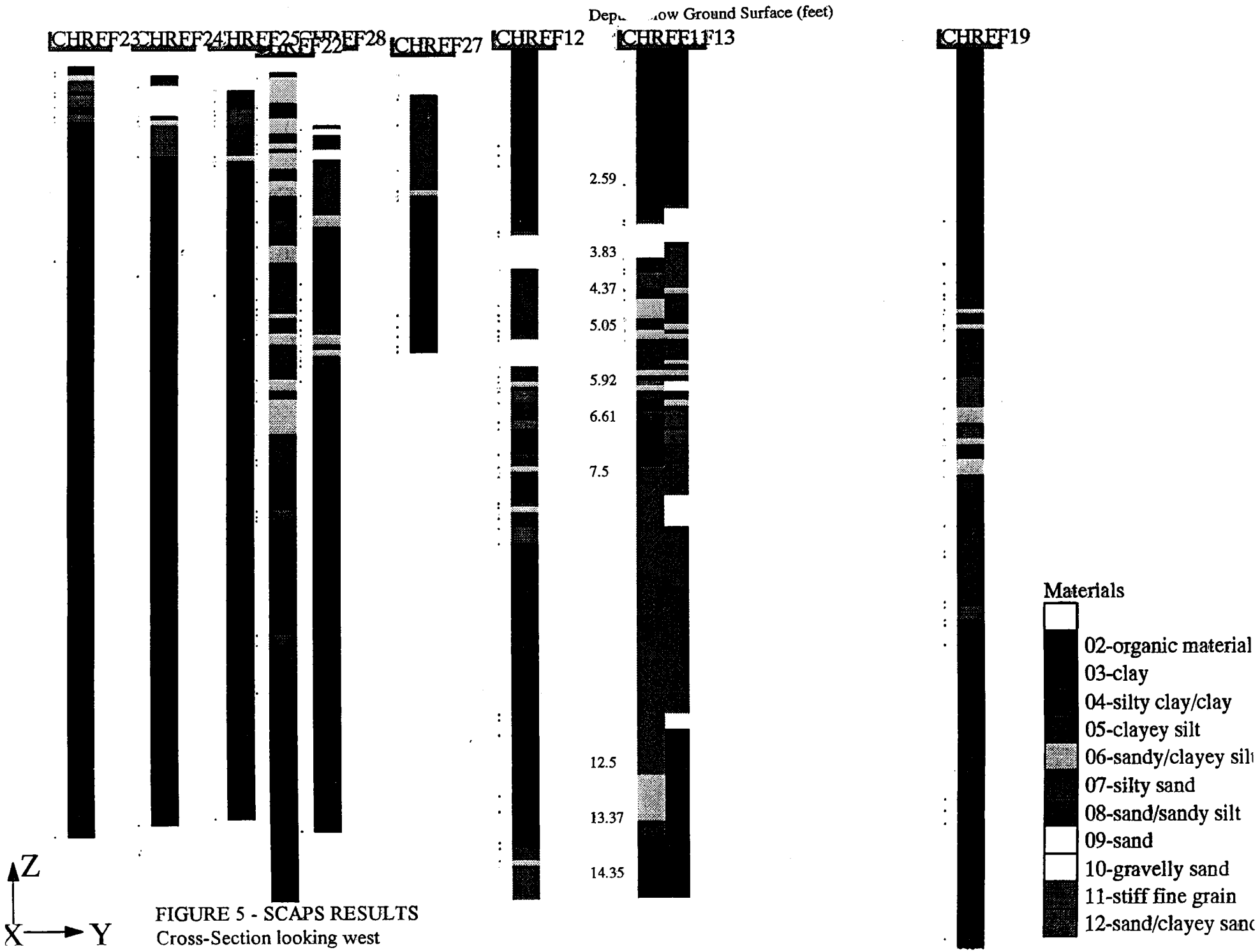


FIGURE 5 - SCAPS RESULTS
Cross-Section looking west

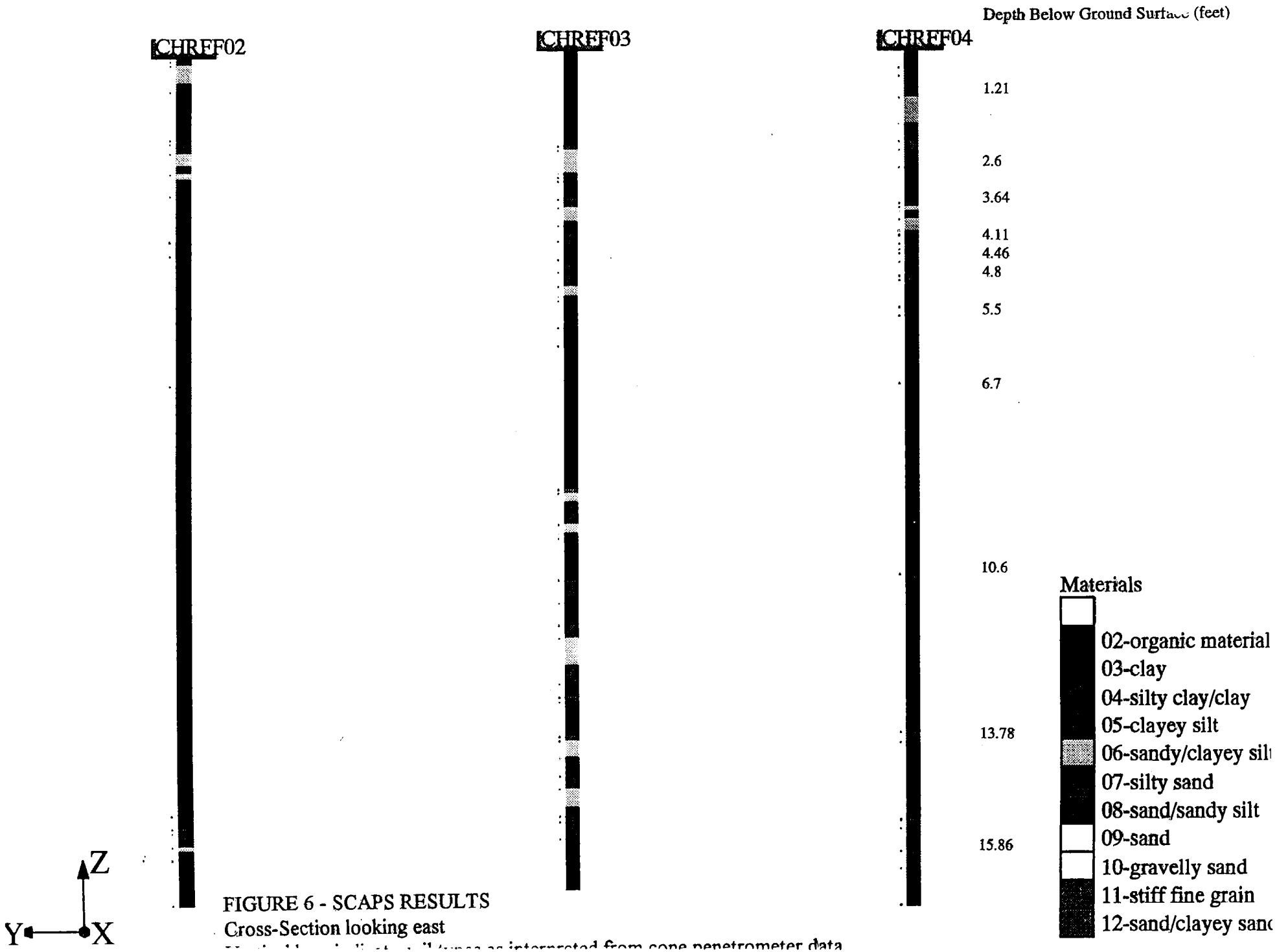


FIGURE 6 - SCAPS RESULTS
Cross-Section looking east
Vertical bars indicate soil types as interpreted from cone penetrometer data

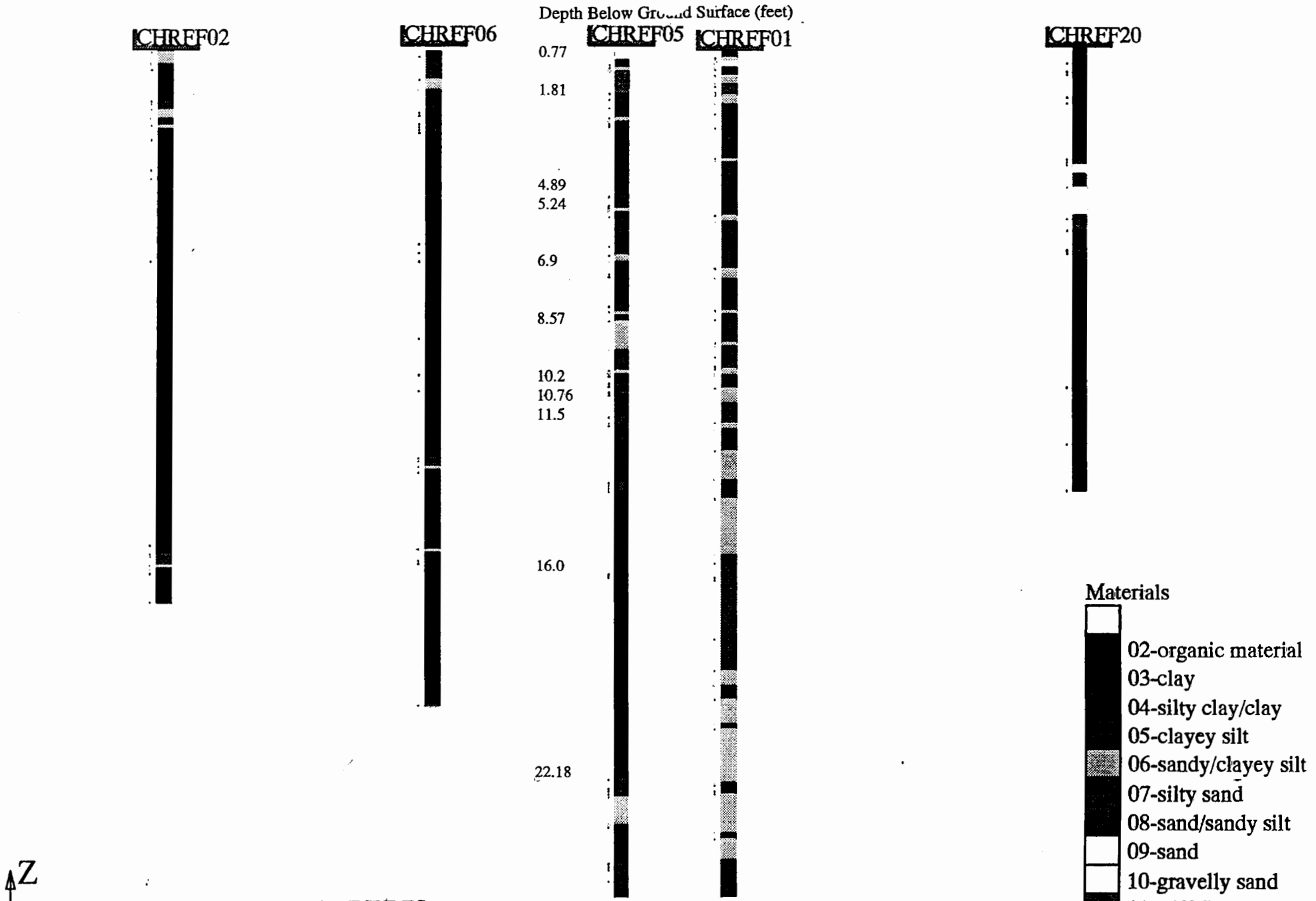


FIGURE 7 - SCAPS RESULTS
Cross-Section looking north
Vertical bars indicate soil types as interpreted from cone penetrometer data.

The SCAPS system responds well to NSFO and diesel fuel. The SCAPS system was in working order as evidenced by the Quinine Sulfate control standard checks performed before and after each push. The only probable explanation for the high fluorescent responses and the absence of PAHs in the confirmation samples, is that the organic and mineral compounds in the soil fluoresced.

The investigation process that includes SCAPS combined with confirmation soil samples worked and no contamination was identified.

5. RECOMMENDATION

Since there was no widespread contamination identified at the Fuel Farm, those areas which have been observed to be contaminated should be investigated. This includes the area near the intersection of Hobson Avenue and Viaduct Road and areas were reports of fuel in the utility backfill material have been identified.

APPENDIX A - METHODS
Naval Base Charleston - Fuel Farm

A.1 Permits.

Permits were required for non-standard monitoring well installation from the South Carolina Department of Health and Environmental Control (SCDHEC). These permits were completed by Mr. Chuck E. Stutts of Naval Base Charleston Code 106.24. Any future work will require the same permitting.

A.2 Push Hole Clearance.

Ground Penetrating Radar (GSSI Sir System 2) and a magnetic induction pipeline locator were used to check each push location for the presence of buried objects or utilities. The hole clearance records are included at the end of this Appendix.

A.3 Surveying.

Surveying was performed by Ensafe Corporation. The push-holes locations are given at the end of this Appendix.

A.4 Grouting.

A grout tube is attached to the tip of the SCAPS probe. Following the data collection activities for each push, the attached grout pump is used to force grout to fill the hole as the probe is withdrawn. The grouting process consists of initially pumping approximately one gallon of water down the grout tube to force a sacrificial tip off the end of the SCAPS probe. Once the tip is removed a grout mixture of 15 lbs of Portland Cement, 1 lb Bentonite and 4 gallons of water per 10 feet of push hole is pumped at a rate equal to the SCAPS probe withdrawal rate. A constant pressure is maintained on the grout tube as the probe is withdrawn. Grout flow is monitored to identify any blockage of the tubing.

A.5 Decontamination.

All sampling and data collection devices coming in contact with potentially contaminated materials were decontaminated in accordance with ASTM 5088, Practice for Decontamination of Field Equipment Used at Non-radioactive Waste Sites.

Upon completion of push operations for penetration and fluoroscopic tests, the push rod and probe are cleaned as they are withdrawn using pressurized hot water. The hot water

(140 degree Fahrenheit) is flushed through a cleaning collar at 150 psi (connected to a hot water storage system which contains all wash fluids) located beneath the truck.

A.6 Investigative Derived Waste.

All decontamination water was collected into a 55-gallon drum for analysis and proper disposal. Three 55-gallon drums of Investigative derived waste (IDW) water were generated during the investigation. The drums were left on a pallet within a the Fuel Farm compound near push-hole #5 to the northwest of tank 3900-E.. Southern Division, Naval Facilities Engineering Command has the responsibility for the analysis and disposal of the three IDW drums.

IDW was generated during operation of the CPT system. Types of waste produced include: 1) wash water from rod decontamination operations, 2) solidified grout, and 3) wash water from grouting equipment cleanup. IDW was placed in 55-gallon drums, labeled, and stored on pallets at the site.

The decontamination wastewater was expected to contain traces of petroleum hydrocarbons and suspended solids. Although the wash water is not expected to meet hazardous classification as defined in RCRA, the material was containerized, labeled, and stored at the SCAPS staging area.

The solidified grout consists of hydrated cement with a small amount of non-hazardous admixture (bentonite and Sikament). Grouting cleanup wash water consists of potable water with small amounts of cement particles and cement sludge.

A.7 Collection and Analysis of Samples.

Eight soil samples were collected during the investigation. The soil samples were collected from holes within twelve inches of the SCAPS push holes. A MOSTAP soil sampler was used to collect the soil sample.

The soil samples were split for analysis; one set of samples were analyzed by the PWC Jacksonville contracted laboratory, the other set analyzed by the Ensafe contracted laboratory. The chain-of-custody records and analysis are given at the end of this Appendix. The sample depths and corresponding SCAPS results are given in Appendix F.

Push Hole Clearance Records

SCAPS GPR SURVEY

SITE GPR SURVEY INFORMATION:

JAMES BURKE (UTILITIES) 743-6563 6444 FOR RADIO DISP.

SCAPS file Hole #	GPR File #'s	GPR Pull (N-S/E-W)	Remarks
CHRFF #1	N/A	N-S/E-W	* CLEARED VIA PIPE LOCATOR
CHRFF #2	N/A	NW-SE	* CROSSED FIELD WITH PIPE LOCATOR I.D. KNOWN PIPES FROM UTILITY DRAWINGS
CHRFF #3	" "	" "	" " "
CHRFF #4	" "	" "	
CHRFF #5	" "	" "	* PULLED NW-SE TO LOCATE EXTENT OF ELECTRAMETER LINES. PLACED HOLES 5 & 6 ACCORDING TO PIPE LOCATOR
CHRFF #6	" "	" "	
CHRFF #7	" "	" "	LOT of SIGNALS IN AREA, PLACED PUSH
CHRFF #8	" "	" "	IN CLEAREST AREA
CHRFF #9	" "	" "	" " "
CHRFF #10			* CLEARED VIA "FISHER PIPE LOCATOR"/UTILITY DRW
~~CHRFF #11~~	~~245 246~~	~~N-S S-N~~ N-S	~~Cleared VIA Fisher & Utility drawings, G.S.~~
CHRFF #11	249	N-S	CLEARED VIA GPR & PIPE LOCATOR
#11	250	E-W	" " " " "
#12	251	N-S	CLEAR
#12	252	E-W	OBSTRUCTION OF ~~FOSSIL~~ OBSERVED
#12	254	E-W (REPEAT)	
#12	255	E-W	LARGE OBSTRUCTION
#12	256	E-W	RELOCATED #12 FURTHER SOUTH CLEAR
#14	257	N-S	
	258	E-W	
	259	W-E	

SCAPS GPR SURVEY

SITE GPR SURVEY INFORMATION:

SCAPS file Hole #	GPR File #'s	GPR Pull (N-S/E-W)	Remarks
OFF · 5	260	N-S	
13	261	S-N	
13	262	W-E	
14	263	W-E	UNCERTAIN POSSIBLE DISTURBANCE
14	264	W-E	REPEAT PULL
14	265	N-S	GOOD
14	266		(BAD FILE)
14	267	N-S	
14	268	E-W	possible shadow moved hole 3' East
*			
#17	270	W-E	DIEL Δt 6.0, DEPTH - 6M. NO SHADOW
*	271-275		VARIOUS ATTEMPTS TO ADJUST SYSTEM GAINS FOR BETTER READINGS
#17	276	N-S/SOUTH	ID. POSSIBLE EXISTING AND ABANDONED PIPES (FUEL) WILL PUSH OFF SHADOWS.
#18			CLEARED OFF #276 (FILE)
#5	278	W-E 6.5 S-N	SHADOWED EDGES OF ROAD
	279	N-S	CLICK ON CONE AS TO PUSH SHADOWS OF KNOWN PIPES AWAY FROM PIPE WERE VISIBLE
	280	E-W	
#6	28A	W-E	SHADOW ARE
	285	S-N	
	287	E-W	SITED HOLE BASED ON SHADOW CLEAR HOLE

& FILES 281 & 282 WERE RUN TO CONFIRM KNOWN PIPE

SCAPS GPR SURVEY

SITE GPR SURVEY INFORMATION:

SCAPS file Hole #	GPR File #'s	GPR Pull (N-S/E-W)	Remarks
#19	287	W-E	LOCATING STORMWATER LINES,
	288	E-W	CLEARING FOR PUSH
	289	W-E	CLEARED
	290		
	291	N-S	I.D. SHADOW
	292	S-N	" "
	293		SHADOWS NEAR HOLE
	294	N-S	MOVED TOWARDS CENTER OF ROAD TO CLEAR SHADOW.
#20	295 W-E	W-E	POTENTIAL SHADOWS
	296 E-W	E-W	DISTINCTIVE SHADOWS, 3RD HOLES. MARKER COLOR WAS LIGHT
	297 N-S	N-S	SHADOW NEAR GUTTER. WILL POLL AGAIN
CS #21	298	N-S	
#21	299	E-W	SHADOWS PRESENT. #2 MARKER CLEAR.
#22	301	W-E	SHADOWS FROM UTILITIES, NONE ON PROPOSED HOLE
	302	S-N	MOVED MARK OF SUSPECT SHADOW
	303/304		RAN OVER POTENTIAL MARK
	305	W-E	CLEAR
	306	S-N	CLEAR SHADOW TO NORTH
#23	307	N-S	LONG POLL TO ID. MOST ADVANTAGEOUS LOCATION FOR PUSH
		E-W	CLEARED PUSH LOCATION

SCAPS GPR SURVEY

SITE GPR SURVEY INFORMATION:

SCAPS file Hole #	GPR File #'s	GPR Pull (N-S/E-W)	Remarks
	326	N-S	LONG PULL TO CLEAR of MARKS
A	327	E-W	CLEAR
B	328	E-W	SHADOW (WEST SIDE) RELOCATE 2' EAST
C	329	E-W	SHADOW APPROX ON MARK
D	330	E-W	CLEAR
	331		RE DID # 329 (C), NOT CLEAR
	332		FOIL PUSH. RE DID (D) APPEARS CLEAR
	335	WLE	APPEARS CLEAR
#30	336	N-S	CLEAR
	337	W-E	CLEAR
#	338	W-E	LONG PULL TO LOCATE 7 MARKS
	339	S-N	LONG PULL
#31	340	NW-SE ~~NE-SW~~	
	341 ~~342~~	NE-SW	
#32	343	NE-SW	SHADOWS ON MARK
	344		SAME HOLE, MOVED MARK
	345	NW-SE ~~SE-NW~~	SHADOWS
	346	SE-NW	REDO
	347		REDO (GOOD)

SCAPS GPR SURVEY

SITE GPR SURVEY INFORMATION:

SCAPS file Hole #	GPR File #'s	GPR Pull (N-S/E-W)	Remarks
#23	309	N-S	LONG RUN TO LOCATE POTENTIAL PUSH LOCA
			I.D. 3 GOOD LOCATIONS FOR PUSHES
	310	E-W	LONG PULL TO I.D. POTENTIAL PUSH LOCATIO
			I.D. SHADOWS ALONG PULL, ADJUSTED CONES
	311	W-E	PULL SAME LINE.
#A #24 ABANDONED HOLE	312	E-W	CLEARING HOLE FOR FUTURE PUSH
	313	N-E	RELOCATED MARK DUE TO SHADOW ON 312
#B #25	314	V-E E-W	CLEAR
#C	315	N-S	CLEAR
#D	316	N-S	RE-DO #D
	317	S-N	CLEAR. SURFACE INTERFERENCE, MINOR
#E ONS			LONG PULL TO LOCATE TWO FUTURE PUSHES FROM #22 (EAST)
#25	319	S-N	CLEAR
	321	E-W	ADJ 320 WAS BAD FILE. CLEAR HOLE.
#E	322		CLEAR
#F	323		SHADOW ON PROSPECTIVE HOLE
	324		SHADOWS PRESENT
	325		SHADOWS PRESENT. CANNOT CLEAR HOLE

SCAPS GPR SURVEY

SITE GPR SURVEY INFORMATION:

SCAPS file Hole #	GPR File #'s	GPR Pull (N-S/E-W)	Remarks
[illegible]	348 ~~NE~~	NE SW	Clean
[illegible]	349	NW SE	CLEAR
[illegible]	350		

Surveying Records

Leica
LEICA AG, CH-9435 Heerbrugg

SKI Software

Bldg

8/21/95 7:51 AM

Coordinate set: SCAPS95
Coordinate type: Grid
Reference ellipsoid: WGS 1984
Projection set: South Carolina
Unit: fts

Point id	Easting	Northing	Ell. height	N
NBCHASFF0001	2319360.5984	372920.7774	10.5606	
NBCHASFF0002	2318853.0430	372606.6982	11.3269	
NBCHASFF0003	2319060.9976	372377.7527	12.9122	
NBCHASFF0004	2319234.8959	372176.3971	14.0105	
NBCHASFF0005	2319263.5588	373013.7970	11.1981	
NBCHASFF0006	2320285.7854	372806.8035	7.2370	
NBCHASFF0007	2320478.6442	372569.6371	7.0206	
NBCHASFF0008	2320283.9703	372686.3514	8.0784	
NBCHASFF0009	2319093.7462	372808.5255	10.8318	
NBCHASFF0010	2319895.3411	372406.6550	6.6798	
NBCHASFF0011	2319971.4811	372607.0424	6.1386	
NBCHASFF0012	2319992.9292	372529.3179	6.0784	
NBCHASFF0013	2319978.6599	372594.3180	6.0474	
NBCHASFF0014	2319497.2363	372171.1954	14.6869	
NBCHASFF0015	2319497.5250	372172.0406	14.5649	
NBCHASFF0016	2319600.9716	372281.0792	13.6308	
NBCHASFF0017	2319621.4764	372232.2977	13.6394	
NBCHASFF0018	2319635.7396	372203.7122	13.4058	
NBCHASFF0019	2319887.4670	372759.2586	7.7328	
NBCHASFF0020	2319676.3274	373020.3300	9.8620	
NBCHASFF0021	2320120.0180	372537.7409	6.0926	
NBCHASFF0022	2320050.9323	372404.0669	5.5384	
NBCHASFF0023	2320101.9137	372299.7893	5.4288	
NBCHASFF0024	2320084.6343	372342.9010	5.6563	
NBCHASFF0025	2320067.1481	372382.2888	5.2641	
NBCHASFF0026	2320083.0266	372397.8202	5.5037	
NBCHASFF0027	2320036.0809	372476.7988	6.0387	
NBCHASFF0028	2320011.8407	372426.5291	5.8565	
NBCHASFF0029	2319997.7886	372399.9324	5.3998	
NBCHASFF0030	2319931.0386	372451.9944	6.4686	
NBCHASFF0031	2320087.5995	372808.2454	6.8380	
NBCHASFF0032	2320069.2298	372979.7988	6.9229	
NBCHASFF0033	2320045.4024	372963.6313	9.0220	

CHAIN OF CUSTODY RECORD

NAVY PUBLIC WORKS CENTER JACKSONVILLE
ATTN: CODE 330 (ENVIRONMENTAL LABORATORY)
JACKSONVILLE, FL 32212-0030

PROJECT # 50458 CONTRACT #: N68931-95-A-E348

D.O.# CALL# 0067 COLLECTED BY JW/SAPS

LABORATORY: FIRST COAST ENVIRONMENTAL LABORATORY PHONE: 904/725-4847
ADDRESS: 8318 ARLINGTON EXPRESSWAY JACKSONVILLE, FL 32211 FAX: 904/725-2215

SAMPLE ID #	DATE	TIME	COMP	GRAB	WELL	SAMPLE LOCATION	SAMP. COMP	PH	TEMP	# CONT	REMARKS / TESTS REQUIRED	CONTAINER TYPE / PRESERVATION: 250 ML GLASS JAR - 4°C	
507-0055	7-13-95	1653		X		CNRFF-16A	SOLID	—	—	1	TPH / 8015	1	9508-109
507-0056	7-13-95	1913		X		CNRFF-18A	"			1	TPH / 8015	1	2
507-0057	7-14-95	1300		X		CNRFF-5A	"			1	TPH / 8015	1	3
507-0058	7-14-95	2055		X		CNRFF-4C	"			1	TPH - 8015	1	4
507-0059	7-16-95	1715		X		CNRFF-11A	"			1	TPH - 8015	1	5
507-0060	7-16-95	1445		X		CNRFF-32A	"			1	TPH - 8015	1	6
507-0061	7-16-95	1745		X		CNRFF-22A	"			1	TPH - 8015	1	7
507-0062	7-16-95	1815		X		CNRFF-22B	"			1	TPH - 8015	1	8

COPY

RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:
[illegible]	8-4-95	1343	[illegible]
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:
RELINQUISHED BY	DATE	TIME:	RECEIVED BY:
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY LAB BY:

REMARKS

PWCENMLAB FORM-12 DTD 11-22-94

FIRST COAST ENVIRONMENTAL LABORATORY, INC.

September 6, 1995

Client: Navy Public Works — Lab #: 9508-109 (1-8)

Sample I.D: See Below — Date Received: 8-9-95

Sample Matrix: Solid — Date Completed: 8-31-95

Project # 50458 — Call # 0067 — Sample Collection: 7-13 / 7-16-95

Analytical Summary

	Sample I D #	Parameter		Method	Results
1)	507-0055	TRPH	mg/Kg	EPA 418.1	< 0.075
2)	507-0056	TRPH	mg/Kg	EPA 418.1	< 0.075
3)	507-0057	TRPH	mg/Kg	FPA 418.1	< 0.075
4)	507-0058	TRPH	mg/Kg	EPA 418.1	< 0.075
5)	507-0059	TRPH	mg/Kg	EPA 418.1	< 0.075
6)	507-0060	TRPH	mg/Kg	EPA 418.1	< 0.075
7)	507-0061	TRPH	mg/Kg	EPA 418.1	< 0.075
8)	507-0062	TRPH	mg/Kg	EPA 418.1	< 0.075

Respectfully submitted,

Barry C. Byrd, Jr., MS
Laboratory Director
DEP Comp QAPP # 870222G

BCB/tb

8818 Arlington Expressway • Jacksonville, Florida 32211
(904) 725-4847 • Fax (904) 725-2215

950'.49 RAB

NAVY CLEAN
ENSAFE/ALLEN & HOSHALL
(901) 383-9115

CHAIN OF CUSTODY RECORD

CLIENT AGREES TO RAB 7-24-95 CALIFORNIA METHOD

PAGE 1 OF 1

CLIENT Naval Base Charleston
ADDRESS Foul Farm Zone G
PROJECT NAME/NUMBER 2900-04210
MEDIA STATUS: (A, B, OR C) _____

PROJECT MANAGER Charlie Vernoy
TELEPHONE NO. 803-884-0029
FAX. NO. (803) 856 0107
SAMPLERS: (SIGNATURE) [signature]

	FIELD SAMPLE NUMBER	DATE	TIME	SAMPLE TYPE	TYPE/SIZE OF CONTAINER	PRESERVATION TEMP.	PRESERVATION CHEMICAL	NO. OF CONTAINERS	TPH/8015							REMARKS
-01	CHRFF 11A	7/16/95	17:15	Soil	clear Glass	4°C	None	1	X							
-02	CHRFF 4C	7/14/95	2053	↓	↓	↓	↓	1	X							
-03	CHRFF 22B	7/16/95	1515	↓	↓	↓	↓	1	X							
-04	CHRFF 22A	7/16/95	1745	↓	↓	↓	↓	1	X							
-05	CHRFF 5A	7/14/95	1300	↓	↓	↓	↓	1	X							
-06	CHRFF 32A	7/16/95	1445	↓	↓	↓	↓	1	X							

RELINQUISHED BY:	DATE	RECEIVED BY:	DATE	RELINQUISHED BY:	DATE	RELINQUISHED BY:	DATE
SIGNATURE [signature]	7/24/95	SIGNATURE [signature]	7/24/95	SIGNATURE		SIGNATURE	
PRINTED Todd B. Temple		PRINTED Donna Ward		PRINTED		PRINTED	
COMPANY ENSAFE	TIME	COMPANY GEL	TIME	COMPANY	TIME	COMPANY	TIME
REASON Ship to Lab	1000	REASON Testing	11:40 am	REASON		REASON	

METHOD OF SHIPMENT: _____
SHIPMENT NO. _____
SPECIAL INSTRUCTION: _____

COMMENTS: DQO-2
Lab is GEL

AFTER ANALYSIS, SAMPLES ARE TO BE:
- [x] DISPOSED OF (ADDITIONAL FEE)
- [ ] STORED (90 DAYS MAX)
- [ ] STORED OVER 90 DAYS (ADDITIONAL FEE)
- [ ] RETURNED TO CUSTOMER

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	999885779	

CERTIFICATE OF ANALYSIS

Client: EnSafe/Allen & Hoshall
P.O. Box 341315
Memphis, Tennessee 38184
Contact: Mr. Paul Stoddard

cc: ENSA00295 Report Date: August 02, 1995 Page 1 of 1

Sample ID	: CHRFF22A
Lab ID	: 9507449-04
Matrix	: Soil
Date Collected	: 07/16/95
Date Received	: 07/24/95
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	Units	Method	Analyst	Date	Time	Batch
Volatile Organics								
TPH - Nonvolatile Fraction	<	3320	ug/kg	CA Method	SHL	07/30/95	2059	69954

Comments:
Surrogate diluted out. Sample contains Hydracarbons heavier than diesel, preventing lower dilution.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Rob Byrd at (803) 556-8171.

Analytical Report Specialist

GENERAL ENGINEERING LABORATORIES

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	999885779	

CERTIFICATE OF ANALYSIS

Client: EnSafe/Allen & Hoshall
P.O. Box 341315
Memphis, Tennessee 38184
Contact: Mr. Paul Stoddard

cc: ENSA00295 Report Date: August 02, 1995

Sample ID	: CHRFF22B
Lab ID	: 9507449-03
Matrix	: Soil
Date Collected	: 07/16/95
Date Received	: 07/24/95
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	Units	Method	Analyst	Date	Time	Batch
Volatile Organics								
Nonvolatile Fraction		16900	ug/kg	CA Method	SHL	07/30/95	2014	69954

Comments:
Surrogate diluted out. Hydracarbons heavier than diesel prevented lower dilution.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Rob Byrd at (803) 556-8171.

Analytical Report Specialist

GENERAL ENGINEERING LABORATORIES

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	999887791	

CERTIFICATE OF ANALYSIS

Client: EnSafe/Allen & Hoshall
P.O. Box 341315
Memphis, Tennessee 38184
Contact: Mr. Paul Stoddard

oc: ENSA00295 Report Date: August 02, 1995 Page 1 of 1

Sample ID	: CHRFF32A
Lab ID	: 9507449-06
Matrix	: Soil
Date Collected	: 07/16/95
Date Received	: 07/24/95
Priority	: Routine
Collector	: Client

arameter	Qualifier	Result	Units	Method	Analyst	Date	Time	Batch
latile Organics								
P** Nonvolatile Fraction		1030	ug/kg	CA Method	SHL	07/30/95	0648	69954

is data report has been prepared and reviewed
accordance with General Engineering Laboratories
ndard operating procedures. Please direct
y questions to your Project Manager, Rob Byrd at (803) 556-8171.

nalytical Report Specialist

GENERAL ENGINEERING LABORATORIES

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: EnSafe/Allen & Hoshall
P.O. Box 341315
Memphis, Tennessee 38184
Contact: Mr. Paul Stoddard

:: ENSA00295 Report Date: August 02, 1995 Page 1 of 1

Sample ID	: CHRFF4C
Lab ID	: 9507449-02
Matrix	: Soil
Date Collected	: 07/14/95
Date Received	: 07/24/95
Priority	: Routine
Collector	: Client

ırameter	Qualifier	Result	Units	Method	Analyst	Date	Time	Batch
ıatile Organics								
Nonvolatile Fraction		1020	ug/kg	CA Method	SHL	07/30/95	0303	69954

..ents:
nple contains Hydracarbons heavier than Diesel.

is data report has been prepared and reviewed
accordance with General Engineering Laboratories
ndard operating procedures. Please direct
y questions to your Project Manager, Rob Byrd at (803) 556-8171.

ıalytical Report Specialist

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: EnSafe/Allen & Hoshall
P.O. Box 341315
Memphis, Tennessee 38184
Contact: Mr. Paul Stoddard

cc: ENSA00295 Report Date: August 02, 1995

Sample ID	: CHRFF5A
Lab ID	: 9507449-05
Matrix	: Soil
Date Collected	: 07/14/95
Date Received	: 07/24/95
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	Units	Method	Analyst	Date	Time	Batch
olatile Organics								
---- - Nonvolatile Fraction	<	666	ug/kg	CA Method	SHL	07/30/95	0518	69954

omments:
mple contains Hydracarbons heavier than Diesel.

his data report has been prepared and reviewed
i accordance with General Engineering Laboratories
andard operating procedures. Please direct
ny questions to your Project Manager, Rob Byrd at (803) 556-8171.

nalytical Report Specialist

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	999887791	

CERTIFICATE OF ANALYSIS

RECEIVED
AUG 8 1995

Client: EnSafe/Allen & Hoshall
P.O. Box 341315
Memphis, Tennessee 38184
Contact: Mr. Paul Stoddard

cc: ENSA00295

Report Date: August 02, 1995

Sample ID	: CHRFF11A
Lab ID	: 9507449-01
Matrix	: Soil
Date Collected	: 07/16/95
Date Received	: 07/24/95
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	Units	Method	Analyst	Date	Time	Batch
Volatile Organics								
TPH - Nonvolatile Fraction		865	ug/kg	CA Method	SHL	07/30/95	0218	69954

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Rob Byrd at (803) 556-8171.

Analytical Report Specialist

APPENDIX B - SYSTEM DESCRIPTION

B.1. LIF System Description.

The LIF system is capable of measuring the occurrence of polynuclear aromatic hydrocarbons of 3 or more rings.

A schematic diagram of the fiber optic fluorometer system is shown in Figure B-1. The system was adapted from a design originally developed for in-situ fluorescence measurements in sea water (Lieberman, 1991; Inmand, 1990; Lieberman, 1989). The penetrometer sensor system uses two 365 micron diameter UV/visible transmitting (high OH silica clad silica) optical fibers. One fiber is used to carry excitation radiation down through the penetrometer rod and a second fiber collects the fluorescence generated in the soil sample and carries it back to the detector system at the surface. The standard fiber length is 100 meters which permits collection of fluorescence data to the maximum push depth (50 meters) using a standard 20 ton penetrometer rig. Excitation and emission fibers are isolated from the soil at the probe tip by a 6.35 millimeter diameter sapphire window mounted flush with the outside of the probe approximately 60 centimeters from the tip.

Excitation radiation is provided by a pulsed nitrogen laser (Model PL2300, Photon Technology, Inc.) that operates at 337 nanometers with a pulse width of 0.8 nanoseconds and a pulse energy of 1.4 millijoules. The beam is coupled into the excitation fiber using a 2 inch focal length quartz lens. The primary output of the laser is at 337 nanometers; however, there are secondary fluorescence lines in the region from 380 to 459 nanometers. In order to minimize the contribution of these lines to the measured fluorescence backgrounds, a mirror which selectively reflects only 337 nanometers is used to redirect the laser line before coupling it into the excitation fiber. Optical triggering of the detector eliminates problems associated with laser jitter.

A photodiode array detector system is used to quantify the fluorescence emission spectrum brought back to the surface over the receiving fiber. The detector system consists of a Model 1420 Intensified Photodiode Array Detector (EG&G PARC) coupled to a quarter-meter spectrograph which houses a 300 line/millimeter diffraction grating. The 1024 element array (700 elements are intensified) consists of 25 micron wide diodes centered at 25 micron increments. For the 300 line/millimeter grating, the dispersion of the spectrograph translates to a spectral resolution of 0.45 nanometers per pixel at the array surface when a 25 micron input slit is used. Readout of an emission spectra requires approximately 16 milliseconds. Because the detector can be readout quickly it is possible to add spectra from multiple laser shots in order to improve the signal to noise ration of the measurement. At present, 20 laser shots are used per sample interval.

APPENDIX B - SYSTEM DESCRIPTION

Figure B-1: System Layout

Control and readout of the detector is performed by a Model 1460 optical multichannel analyzer (OMA) (EG&G PARC). Measurements are initiated by an electronic signal from the OMA that fires the laser. The laser pulse then triggers an optical detector which sends an electronic signal to a fast pulsed (Model 1304, EG&G PARC). The pulsed implements an appropriate delay (approximately 350 nanoseconds for a 50 meter fiber and 750 nanoseconds for a 100 meter fiber), and gates the detectors "on" for a period of 100 nanoseconds. Time-gating of the detector is set so that the detector is gated "on" to coincide with the arrival of the fluorescence signal at the detector. Because most fluorophores of interest have fluorescent lifetimes in the range of 5 to 100 nanoseconds, time-gating the detector maximizes signal-to-noise by minimizing contributions to the signal from background light and detector noise.

The resulting fluorescent intensity is a measure of the response to the input energy. The greater the number, the greater the amount of responding energy. The relationship is linear in that with increasing amounts of PAHs, the responding energy increases. The response is relative to the type of PAH so that the relationship is can't be exactly determined. This makes SCAPS a semi-quantitative analysis technique. If the relationship could be determined it would be quantitative.

A 486-based microprocessor host computer is used to automate the overall measurement process. The host computer controls the OMA system and stores fluorescence emission data received from the OMA, collects data from strain gauges, estimates soil type from strain gauge data and monitors depths from transducers on the hydraulic ram. A typical fluorescence emission spectrum from the LIF-POL sensor is shown in Figure 3. As the probe is pushed into the soil the data acquisition software generates real-time depth plots of maximum fluorescence intensity, wavelength of maximum intensity, point resistance, sleeve friction and soil characteristics as interpreted from the strain gauge data. Under normal operating conditions, a fluorescence emission spectrum is collected approximately every 2 seconds. For the standard push rate of 2 centimeters/sec this corresponds to a vertical resolution between measurements of 2-4 centimeters. The entire fluorescence emission spectrum is stored on a fixed disk to facilitate post-processing of the data.

B.2. Quality Control & Calibration Standards.

Two different types of standards are used during field operations. A quality control standard based on a solution of quinine sulfate is used to ensure the system is functioning correctly. This standard also allows the data to be normalized if the probe is changed in the middle of field operations. A set of calibration standards is prepared to evaluate the sensitivity of the sensor to the soil type at the site and the fuel type expected to be encountered. This set of standards is used to establish the noise in the measurement as well as the sensitivity of the sensor to the soil/fuel combination.

APPENDIX B - SYSTEM DESCRIPTION

The quality control standard, designed to evaluate the system performance and internal noise, consists of dilute sulfuric acid mixed with 10 parts per million (ppm), by weight, quinine sulfate. Quinine sulfate has a high quantum efficiency so that it fluoresces quite strongly, is chemically stable, easily reproducible, and exhibits minimal photodegradation.

A single measurement of the quinine sulfate standard averages 20 fluorescence spectra (analogous to the in-situ push averaging), and the measurement is repeated three times directly before and after a push. The short term system stability is defined as the standard deviation of the three measurements. Typical results show an average standard deviation of 1-2 percent of the fluorescent intensity.

The quinine sulfate data is also used to normalize data taken using different probes. Figure B-2 shows the quinine sulfate data collected pre push during the investigation. The quinine sulfate data was used to normalize the data for all of the pushes for a consistent data set throughout the site.

In addition to the quinine sulfate quality control standard, series of spiked soil standards are prepared using soil gathered from the site. The sensitivity of the sensor will depend on the type of hydrocarbons encountered. For instance, diesel fuel (which is composed mostly of heavy polynuclear aromatic hydrocarbons (PAHs)) tends to fluoresce strongly when excited by a nitrogen laser, so that a small amount of fuel can give a large fluorescence signal. On the other hand, some jet fuels (e.g. JP-5) are composed of a greater fraction of lighter PAHs, which are not efficiently excited by the nitrogen laser, so that a larger amount of jet fuel is needed to give the same fluorescence signal as diesel fuel. Hence the sensor is less sensitive to this type of fuel.

The fuel chosen as the standard for the investigation was diesel fuel marine (DFM). One of the difficulties in establishing the target fuel is that often many different fuels were used during the history of the site. In addition, the contaminant has aged and weathered from long term exposure at the site. This is the same problem that many other quantifying analytical methods also encounter, and for this reason, SCAPS LIF-POL sensor is intended to be a screening tool to establish the presence of contamination, rather than a quantitative method for measuring the amount of contamination.

To prepare the standards, a sample of soil was collected from the site. The soil was gathered from near surface, at a depth of 6-12 inches, to reduce hydrocarbon contamination from aerosols and other airborne particulant, and was grossly sifted to remove sticks and other large debris. A series of soil samples were prepared by spiking the soil with known DFM concentrations. The spiked samples were placed on a shaker table for 24 hours to uniformly distribute the fuel.

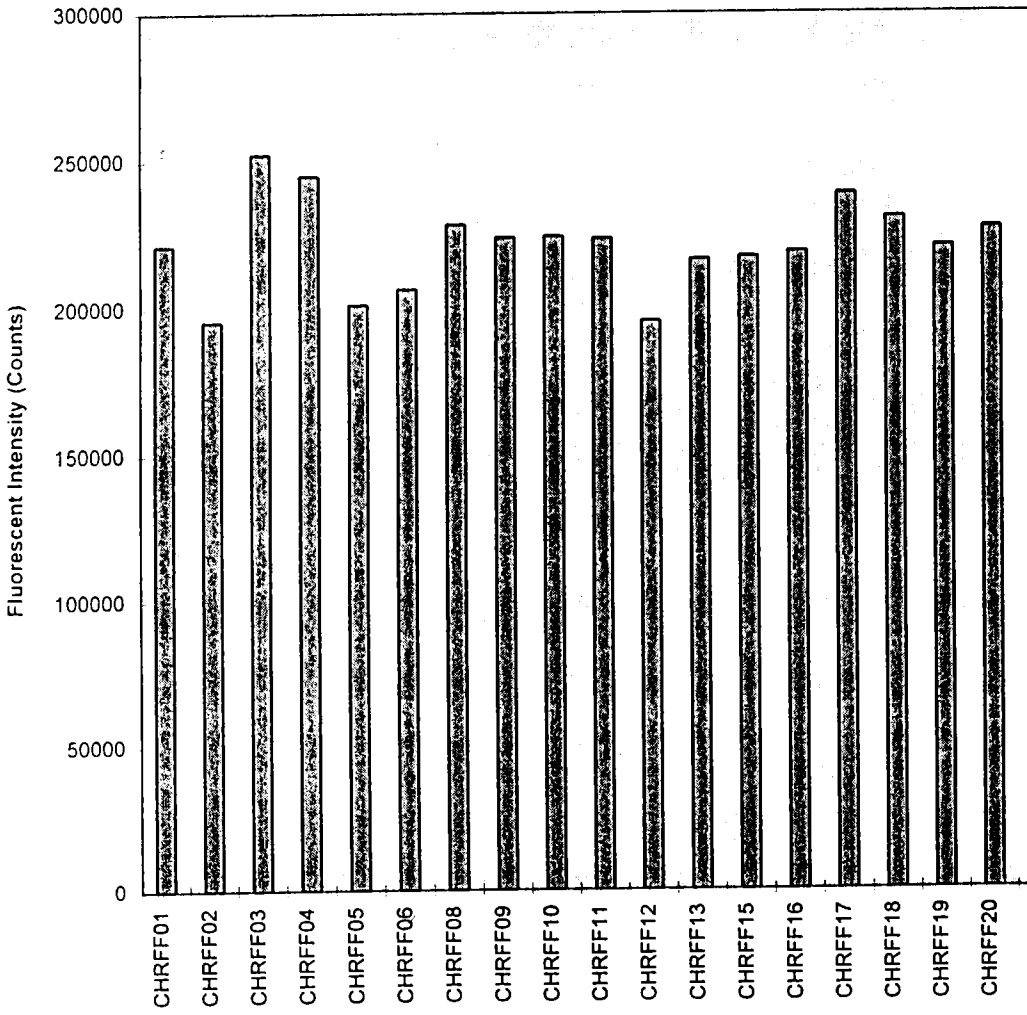
The fluorescence spectra from the spiked samples were measured at the start of each day of field operations. As with the quinine sulfate, 20 shots are averaged to provide a single

measurement. The standard deviation of the calibration standards reflects both the internal noise as well as the variations due to non-homogeneous in the soil, and can be compared to that of the internal standard (quinine sulfate) to assess the non-homogeneous of the soil at the site. The calibration data is included in Appendix D. This data is used to calculate the sensitivity of response of the fuel to the local soil, as well as the baseline and standard deviations that are needed to determine the detection threshold at the site.

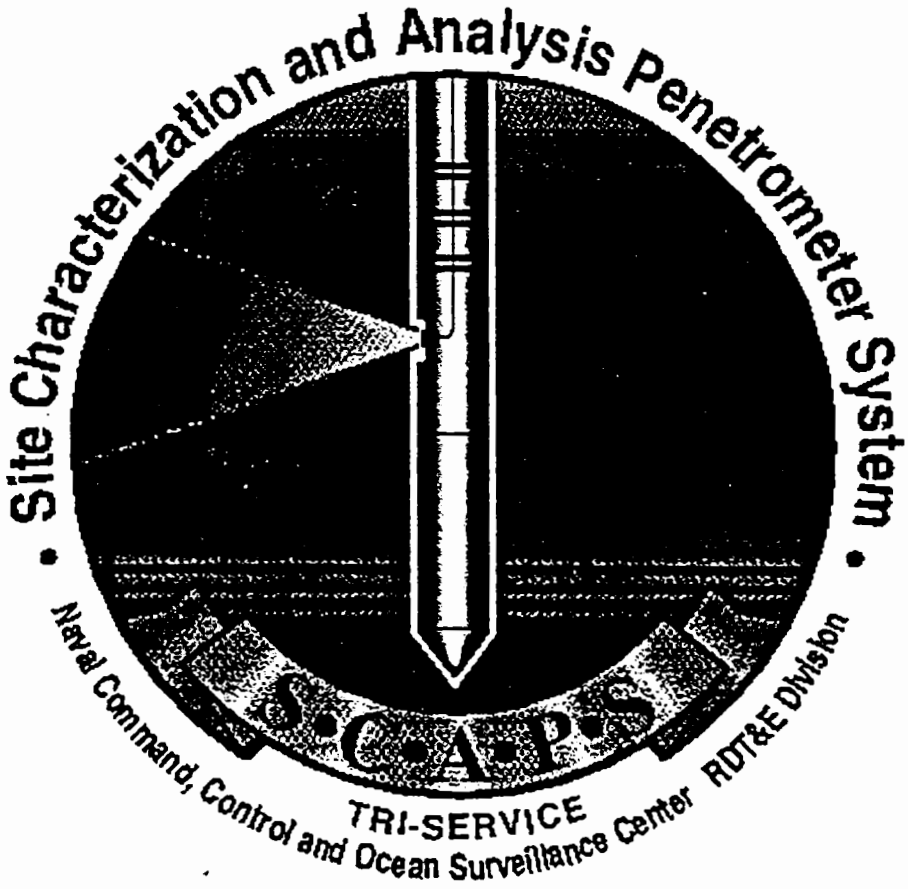
B.3. SCAPS Validation Data

The following excerpt of an NRaD report is included to help provide background information regarding SCAPS.

Naval Base Charleston - Quinine



Site Characterization and Analysis Penetrometer System (SCAPS) Laser Induced Fluorescence (LIF) Sensor for Rapid Field Screening of Petroleum, Oil and Lubricants (POL)



A report to
State of California-Environmental Protection Agency
Department of Toxic Substances Control
Certification Program (AB 2060) for
Hazardous Waste Environmental Technologies

Prepared by: Naval Command, Control, and Ocean Surveillance Center, Research Development Test and Evaluation Division (NRaD), Code 521, San Diego, CA, 92152

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1. Introduction

A new technique has been developed for real-time in situ subsurface field screening of petroleum, oil and lubricants (POLs). The method is based on a cone penetrometer deployed fiber optic-based laser-induced fluorescence (LIF) sensor system.* The chemical sensing scheme utilizes a fluorescence technique in which an optical response is stimulated in the aromatic components present in hydrocarbon contaminants in the soil. The fluorescence is excited by UV light from a pulsed nitrogen laser. The excitation pulse is transmitted down to the probe over an optical fiber that can be up to 100 m in length, and through a sapphire window incorporated into the side of the cone penetrometer tip. The induced fluorescence signal from the soil adjacent to the sapphire window is returned to the surface over a second fiber where it is dispersed with a spectrograph, and quantified with an intensified photodiode array. The spectral signature of the sensor output provides information about fuel product type and the intensity of the fluorescence signal is proportional to contaminant concentration.

The system is one example of a planned family of sensors collectively called the Site Characterization and Cone Penetrometer Systems, or SCAPS, that will combine remote sensors with the cone penetrometer platform to provide rapid, in-situ, subsurface measurements of many different contaminants. The present sensor, based on Laser Induced Fluorescence of POLs (the SCAPS LIF-POL sensor) provides rapid, qualitative to semi-quantitative information about the distribution of subsurface petroleum contamination. The sensor is not intended as a replacement for traditional soil borings and monitoring wells; but rather as a method to gain detailed information about the probable distribution of subsurface contamination prior to installing monitoring wells or collecting soil samples via conventional borings. The present approach to site characterization, which depends on collection of discrete soil and water samples followed by laboratory analyses, is usually a slow, iterative and costly process because the samples are collected with little prior knowledge as to the extent or exact location of the contaminant plume.

Use of the LIF-POL sensor to screen the site will provide several advantages over traditional characterization methods: the sensor provides a means of eliminating many unnecessary or poorly placed borings; because the LIF-POL sensor provides vertical spatial resolution on scale of 2-4 cm, small scale features can be delineated that would be missed by conventional

* This technology was developed through a collaborative effort of the Army, Navy and Air Force under the auspices of the Tri-Service SCAPS (Site Characterization and Analysis Penetrometer System) Program.

be readout quickly it is possible to add spectra from multiple laser shots in order to improve the signal to noise ratio of the measurement. At present, 20 laser shots are used per sample interval.

Control and readout of the detector is performed by a Model 1460 optical multichannel analyzer (OMA) (EG&G PARC). Measurements are initiated by an electronic signal from the OMA that fires the laser. The laser pulse then triggers an optical detector which sends an electronic signal to a fast pulser (Model 1304, EG&G PARC). The pulser implements an appropriate delay (approximately 350 nsec for a 50 meter fiber and 750 nsec for a 100 meter fiber), and gates the detector "on" for a period of 100 nanoseconds. Time-gating of the detector is set so that the detector is gated "on" to coincide with the arrival of the fluorescence signal at the detector. Because most fluorophores of interest have fluorescent lifetimes in the range of 5 to 100 nsec, time-gating the detector maximizes signal-to-noise by minimizing contributions to the signal from background light and detector noise.

By incrementing a delay of the detector gate for successive laser pulses it is possible to determine fluorescence decay times. Studies have shown that differences in fluorescence decay times are useful for discriminating compounds of environmental interest (eg., polycyclic aromatic hydrocarbons) that cannot be resolved based on differences in their fluorescence emission spectra [Theriault, 1992]. At present, fluorescence lifetime measurements are not performed routinely with the penetrometer system because additional measurement and processing time would be required. In the future, however, fluorescence decay measurements could easily be implemented via software control to take advantage of "dead time" that is currently not utilized when the push is halted every meter in order to install the next section of penetrometer rod .

A 486-based microprocessor host computer is used to automate the overall measurement process. The host computer controls the OMA system and stores fluorescence emission data received from the OMA, collects data from strain gauges, estimates soil type from strain gauge data and monitors depths from transducers on the hydraulic ram. A typical fluorescence emission spectrum from the LIF-POL sensor is shown in figure 2. As the probe is pushed into the soil the data acquisition software generates real-time depth plots of maximum fluorescence intensity, wavelength of maximum intensity, point resistance, sleeve friction and soil characteristics as interpreted from the strain gauge data. Under normal operating conditions, a fluorescence emission spectrum is collected approximately every 2 seconds. For the standard push rate of 2 cm/sec this corresponds to a vertical resolution between measurements of 4 cm. A typical data plot is shown in figure 3. The entire

Following the site visit, a field report is prepared for the Remediation Program Manager (RPM) and applicable permitting/regulatory agencies that includes the raw data from the SCAPS pushes, the field borelogs, the analytical data, and a short summary describing the results of operations. This is a very preliminary analysis of the site, and is provided so that the RPM has immediate feedback on the results of the site characterization and the permit conditions are met. (Examples of the field reports are included in Appendices C and D for field operations at two different sites in California). This is intended to be followed by a more thorough analysis, with in-depth discussion of the site detection limits, the plume boundaries, possible presence of multiple contaminants.

matrix.

- The described configuration makes use of a detector system comprised of a spectrograph coupled to a linear photodiode array detector to collect the spectral signature of the induced fluorescence emission response.
  - Qualitative use of spectral data provides a means of distinguishing different POL products associated with fluorescence events at different depths
  - Feasibility of using spectral differences as a means of minimizing potential false positives from non-POL fluorophores has been demonstrated

- Measurements can be made to depths up to 150 feet, when the sensor is used in conjunction with a industry-standard 20 ton penetrometer push vehicle, . Standard data collection rates (a sample every 2 seconds) provide a vertical spatial resolution of better than 4 cm for a standard push rate of 1 m/min. Commercially available geotechnical sensors can be integrated with the LIF sensor to facilitate hydrogeological and stratigraphic analyses of detected POLs.

the fourth harmonic of a Nd:YAG laser. Referring to figure 5 it can be seen that for a 100m length of fiber, the attenuation curve shown in figure 4 predicts that transmission losses in the fiber will reduce the output energy to less than 0.01% of the input energy at 266nm, compared to more than 15% transmission at 337nm.

One approach to get the required excitation energy out of a long length of fiber at wavelengths less that 300nm is to couple a higher power laser source into the fiber. However, studies have shown that for high energy pulsed UV laser sources non-linear absorption process, specifically two photon absorption, result in additional fiber transmission losses and ultimately catastrophic fiber failure [Theriault, 1992]. Use of the 337nm excitation source also eliminates or minimizes problems related to fiber solarization (transmission loss in the fiber induced by high energy UV radiation) and fluorescence of impurities in the fiber [Nevis, 1985]. Another advantage of the nitrogen laser excitation source is that these systems are readily available commercially, relatively inexpensive and easy to use and maintain in the field.

PAH Fluorescent Response

In order to define which compounds contribute to the measured fluorescence signal when the sample is excited with the 337nm laser source, laboratory studies were conducted in which solutions of the pure compounds dissolved in cyclohexane were measured with the fiber optic fluorometer system. Compounds tested are listed in Table 1 along with the respective identifier and chemical formula. In addition to benzene and substituted single ring aromatic compounds (toluene, ethylbenzene and xylene), 18 different PAHs were measured. The relative fluorescence for BTEX and the PAHs tested are summarized in figure 6. Data for the lighter weight compounds is replotted using an expanded fluorescence scale in figure 7.

Results show that 337 nm laser excitation does not effectively induce fluoresce in the BTEX components. Fig. 6 shows that for the PAHs investigated, benzo(k)fluoranthene was by far the strongest fluorophore, followed by benzo(a)pyrene, benzo(b)fluoranthene, Dibenzo(a,h)anthracene, and benzo(g,h,i)perylene. This is consistent with the physics of the transitions involved in the different molecules [Birks, 1970], with the trend showing increased fluorescence with increasing number of rings.

The fact that the strongest fluorescence is observed in 4 and 5 ringed compounds does not mean that the fluorescence measured in-situ is dominated by the heaviest PAHs. The

chrysene and anthracene. This effect is shown quantitatively in fig. 13 which shows a plot of fluorescence intensity vs. concentration for acenapthene in the presence of different concentrations of chrysene. Increasing amounts of chrysene result in increasing suppression of fluorescence from acenapthene.

The important point from the preceeding discussion is that the observed sensor response resulting from a fluorescence measurement of a POL contaminated sample at a specified excitation wavelength represents the non-linear combination of individual fluorescence emissions from the mixture of PAHs that are present in the sample. Because individual emissions add in a complex and non-linear fashion, it is not possible to predict the net fluorescence response even with a detailed knowledge of the PAH composition of the sample. Therefore, as the sensor is used at this time it is important to understand that the observed sensor response provides information on the bulk PAH composition and not information about specific compounds in the sample.

The utility of the fluorescence technique for field screening of petroleum hydrocarbons resides in the fact that fluorescence response for various fuel products (with their associated variable PAH compositions) varies predictably over useful ranges as a function of fuel product concentration. This is illustrated in Fig 14 which shows a plot of florescence intensity vs concentration for a soil sample that has been inoculated with variable quantities of a fuel product. In general at lower concentrations (in the range of 10's of parts-per-million to a few percent by weight for most fuel products) fluorescence response increases with increasing concentration. Eventually, at concentrations in excess of a few weight percent, sensor response will saturate due to self absorption and related processes. This provides a useful sensor response range for in situ measurements in soils which extends from concentrations approximating "action limit" concentrations to levels that correspond to "free product" or saturated conditions for many fuel products of interest. Again it is important to note that although it is not possible (at present) to deconvolve the observed fluorescence emission signal into the contributions from individual components, the signal does vary predictably as the concentration of the mixture (ie., concentration of the fuel product) changes.

Spectral signature of contaminants

In addition to providing in situ information on subsurface fuel product contaminant "concentration" the sensor also provides information about fuel product type. The spectral

3. System Response

Response to different POLs

The relative response of the SCAPS LIF sensor is dependent upon the specific analyte being measured. The instrument's sensitivity to different POL materials can vary by as much as two orders of magnitude [Lieberman, 1992; Davey 1994a; Apitz 1992a, Apitz 1992b]. These variations in sensitivity are primarily a reflection of the variations in the PAH distribution found within POL products. Other contributing factors such as optical density, self-absorption, and quenching are less important.

As mentioned previously, the SCAPS LIF sensor responds only to PAHs which fluoresce when excited at 337 nm. This includes multiring aromatics with three or more rings as well as some two-ring compounds [Lieberman 1993]. Aliphatic species, single-ring aromatics, and most two-ring PAHs do not contribute to the LIF signal. The total observable fluorescence produced by any given POL sample is dependent upon the mole fraction of fluorescing PAHs along with the relative quantum efficiency of each of the fluorescing species.

It is important to note that the fluorescence properties of POL contaminant in soil may also change after long term exposure and interaction with the environment. A POL contaminant which has been in the ground for any period of time will undergo chemical changes due to weathering, biodegradation, and volatilization. In terms of degradation and transport, the lighter PAHs tend to volatilize and biodegrade first, leaving only the heavier PAHs as time progresses. These are the PAHs that are preferentially excited by the 337 nm laser source used in the SCAPS sensor.

Matrix effects

The in situ fluorescence response of the LIF sensor to POL material is sensitive to variations in the soil matrix. This effect is demonstrated in figure 21 which shows the fluorescent response of jet fuel JP5 in four different soil matrices. Matrix properties which affect LIF sensitivity include grain size, mineralogy, moisture content, and surface area. Each of these factors influences the relative amount of analyte that is adsorbed or absorbed into the soil. Only the relative fraction of analyte that is optically accessible at the window of the probe can contribute to the fluorescence signal.

.e subsurface environment as a result having been introduced through human activity. De-icing agents, antifreeze additives, and many detergent products are all known to fluoresce very strongly.

The potential presence of fluorescence emission from non-target (non-POL) analytes within the soil matrix must be considered when assessing SCAPS field screening data. In some instances, the inability to discriminate between POL fluorescence and non- POL fluorescence would lead to false positives for the presence of POL. Non-POL fluorescence could possibly mask the presence of POL fluorescence, leading to reduced sensitivity or erroneous estimation of the relative amount of POL present. In a worst case, spectral interference could lead to a false positive or false negative report of findings.

Because the SCAPS POL sensor collects full spectral information, it is almost always possible to discriminate between POL and non-POL fluorescence by analyzing the spectral features associated with the data. The LIF sensor system utilizes a multichannel detection scheme in order to capture a complete fluorescence emission spectrum at each point along the push. The advantage of this approach over methods which rely on single channel measurements of fluorescence intensity is that spectral features are obtained which can be ''sed to associate the signal with a specific petroleum class, mineral substance, or other .aterial. The spectral patterns collected in situ provide the means to uniquely distinguish POL fluorescence from potential interferents.

SCAPS ability to recognize non-POL fluorescence has been tested in several laboratory experiments. In one study [Andrews 1994b], the spectra of eight fluorescent minerals and five fluorescent chemicals were obtained with the LIF sensor. These spectra were compared with the LIF spectra obtained from multiple samples of jet fuel, gasoline, diesel fuel, and lube oil. In all cases, the POL spectra could easily be recognized (by both computer algorithm and human analyst) as different from the non- POL spectra. The specific substances used in the experiment were chosen because they fluoresced in the same spectral region as the fuel products. Many other fluorescent chemicals and minerals fluoresce in a spectral region far removed from the POL spectra. The materials used included:

Calcite	Resinous coal	Tide Surfactant
Norbergite	Aragonite	Prestone antifreeze
Fluorite	Fossil Algae	Simple Green detergent
Scapolite	Turritella agate	Quinine sulfate

4. Quality Control & Calibration Standards

Two different types of standards are used during field operations. A quality control standard based on a solution of quinine sulfate is used to insure the system is functioning correctly. This standard also allows the data to be normalized if the probe is changed in the middle of the field operations. A set of calibration standards is prepared to evaluate the sensitivity of the sensor to the soil type at the site and the fuel type expected to be encountered. This set of standards is used to establish the noise in the measurements as well as the sensitivity of the sensor to the soil/fuel combination.

Quality control standard: Quinine Sulphate

The quality control standard, designed to evaluate the system performance and internal noise, consists of dilute sulfuric acid mixed with 10 ppm (by weight) quinine sulphate. Quinine sulphate has a high quantum efficiency so that it fluoresces quite strongly, is chemically stable, easily reproducible, and exhibits minimal photodegredation.

A single measurement of the quinine sulphate standard averages 20 fluorescence spectra (analogous to the in-situ push averaging), and the measurement is repeated three times directly before and after a push. The short term system stability is defined as the standard deviation of the three measurements. Typical results show an average standard deviation of 1- 2% of the fluorescence intensity.

The quinine sulphate data is also used to normalize data taken using different probes. Figure 26 shows the quinine sulphate signal was much stronger for the first 4 pushes at a recent site. This is due to the fact that a new probe was substituted after the fourth push. The new probe had a much longer fiber optic cable than the old probe (100 m and 50 m respectively), causing more attenuation of the laser light due to absorption in the fiber, and the realignment of the optics changed the collection efficiency of the detection system. The quinine sulphate data was used to normalize the data from the first 4 pushes for a consistent data set throughout the site.

The calibration data for the diesel fuel marine standards from field operations at the Naval Station, San Diego: Fire Fighter Training Center (FFTF) and the Naval Air Station: Alameda, which will be discussed in more detail below, are shown in figures 27 and 28. The different symbols represent the measurements obtained on different days. This data will be used to calculate the sensitivity or response of the fuel to the local soil, as well as the baseline and standard deviations that are needed to determine the detection limit at each site.

Noise, Background & Sensitivity

Three quantities are needed to determine the fluorescence threshold and the detection limit: **noise, background** and **sensitivity**. These are determined using the calibration samples prepared prior to the site visit using standard analytical techniques.

The fluorescence intensity for each calibration sample is measured daily at the start of operations. The data is regressed to establish a slope and intercept. For each regression, a record of the goodness of the fit (r^2) and the uncertainty in the slope and intercept values are calculated:

$$I = \alpha C + I_0$$

where I is the measured fluorescence intensity in counts, C is the concentration of the target fuel in mg/kg, I_0 is the intercept in count, α is the slope, and

ΔI_0 = uncertainty in intercept
$\Delta \alpha$ = uncertainty in slope

determined from the goodness of the fit.

This procedure is carried out using only the lower concentration calibration standards, typically those with concentrations less than 1000 mg/kg. This is done for several reasons. Experiments have shown that for the full range of calibration standards, the calibration data is not well fit by a linear regression (see figure 29). This is not surprising because of the complicated interaction between the fuel and soil type [Apitz, 1992a]. Because of the large range of standards, a log-log plot has been adopted for analysis of the complete set. Surprisingly, it has been found at some sites that the entire data set is well fit by a single exponential function

$$I = \alpha C^{\beta} + I_0.$$

where C, I and I_0 are defined as above. The complete calibration data from field operations at NAS:Alameda are shown in figure 30, and it can be seen that the exponential fit is quite satisfactory. This exponential dependence is not found at all sites, and in particular, many sites show a saturation of the fluorescence at high concentrations of contamination. This behavior is still under investigation, and it is hoped that this can be used in the future to

detection limit = **noise / sensitivity**
= $\Delta I_0 / \alpha$.

These limits are also shown in table 2. One can see that the detection limit will vary somewhat from site to site.

Discussion

This method for setting the fluorescence threshold and detection limit has been chosen for several reasons. It is based on a standard analytical chemical approach for quantifying the response of a detector. It is also easily reproducible, and the results follow directly from applying a well defined series of data reduction techniques that can be documented and repeated at any site.

This approach does have limitations. The background level is determined by a single soil sample, chosen near the surface at one location from the site. It is possible that the soil sample is contaminated, so that the background represents not only the natural fluorescence but a contribution from the contaminant. This is not usually a problem as the soil is collected in consultation with local site officials who have a good knowledge of the site and can identify areas that are not expected to be impacted. To avoid contamination from the aerosols and other airborne sources, and surface affects such as asphalt and surface oil the soil is collected below the surface.

Even if it is not contaminated, the background from this single sample may not be representative of the whole site. At a typical site, it has been found that the background will vary with depth generally becoming smaller with increasing depth. It is not clear how to determine the in-situ background in a systematic manner. Techniques for extracting the background and noise quantitatively from the push data using a histogram of the push data are presently under development. This work (described in more detail in Appendix B), is not part of the present claim, but is included as an indication of future capabilities. While this approach is not yet mature enough to be incorporated into the calibration procedure, we believe it has a great deal of promise.

In summary,while we feel that although the present approach utilizing the calibration samples to set the fluorescence threshold and detection limits has some drawbacks, it is currently the

6. Introduction to Field Data

This section will describe the field data collected with the SCAPS LIF-POL sensor, and will detail some of the information that can be extracted from this data. This is intended to be an introduction to the types of analysis that can be conducted with the sensor. As part of our site field screening procedure, a series of soil samples have been collected at each site and analyzed using established analytical methods. The full procedure for this work, along with a discussion of the efficacy of the LIF-POL approach, is discussed in detail in the next section.

The following will describe field data from two sites. The first site is a naval fire fighting training facility in San Diego that has been in use for almost 50 years. The site is known to be impacted with petroleum contamination, although the age and composition of the contaminant is not clear. The second site is within the Naval Air Station:Alameda at the location of a turn of the century oil refinery. This site was known to contain refinery wastes, a jet fuel (JP-5) spill near a jet engine test cell, and a gasoline release near the former Naval Exchange service station.

At both sites, the SCAPS truck was deployed for a period of several weeks. Operations were divided into two phases. The first phase of the site assessment involved advancing a large number of pushes (22 at FFTF, 37 at NAS:Alameda) to characterize the spatial extent of the contamination. This is the "plume chasing" phase of the operations in which the pushes are initially made in accordance with a grid pattern of the site, and the locations of the later pushes are determined as the size of the contaminated region becomes clear. During the second phase, several locations in the site are pushed again, after which a hollow stem auger drill rig is used to collect soil samples directly adjacent to the pushes. These samples are then sent to a state of California certified laboratory (Analytical Technologies, Inc. was used for all of the data shown in this report) for analytical measurement of the petroleum content using methods 418.1(TRPH) and 8015 (TPH).

The fluorescent data from each site will be discussed, and interpreted to provide a picture of the depth and spatial extent of the contamination at each site. An example of the use of the spectral information to differentiate between different contaminants is also shown. The validation data, used to confirm the efficacy of the sensor, is discussed in the next section. In addition to the validation data from the two sites discussed here, data from an additional four sites will be presented.

1994. Problems with the SCAPS onboard generator necessitated the split deployment. A total of twenty-two SCAPS pushes and three hollow stem auger borings were completed with twelve soil samples collected by split spoon sampler. Figure 31 displays the push locations. At most push locations, the site was covered with an asphalt black top so a non-instrumented "dummy probe" was used to penetrate the asphalt and near surface soil to a depth of approximately 2 feet below ground surface.

Push data

The fluoresecence and geotechnical data from a represenetative push is shown in figure 32. (Note that the raw data from all pushes at FFTF are shown in Appendix C). The cone pressure and sleeve friction are measured over 2 inch intervals, and are used to determine the soil classification over a range from 1 to 12. The different classifications correspond to different types of soil as shown in figure 33. The cone pressure and sleeve friction values are input into an artificial neural network implemented in the present SCAPS software to provide a real time display of the soil classification. In addition to the geotechnical data, the sensor also measures the fluorescence at 2 inch intervals. At each depth, the entire spectrum is saved, and the software extracts the intensity at the peak of the spectrum and displays this value in real time. In most cases, the wavelength of the spectral peak is also displayed in real time.

The fluorescence is present at a background level from the surface down to a depth of 8.5 feet. At this depth, which corresponds to the capillary fringe at this site, the fluorescence sharply increases by two orders of magnitude. This is due to the strong fluorescence of the poly-cyclic aromatic hydrocarbons (PAHs) found in the LNAPL. The fluorescence drops back to background levels at 10 feet, the top of the saturated zone, and negligable fluorescence is observed below this region. This is consistent with the low solubility of PAHs in water, and supports the conclusion that the contamination is in the form of LNAPL present in the capillary fringe region.

In the data shown in figure 32, only the intensity of the fluorescence at the peak of the spectrum is plotted. A more powerful technique for viewing the data from a single push is the "spectrum–depth matrix" shown in figure 34. In this figure, the depth is plotted on the y-axis and the wavelength is plotted across the x-axis, and the intensity at a given depth and wavelength is given by the color at that point. Purple indicates the weak fluorescence at the background level, while green and red indicate strong fluorescence. The spectrum can be

pushes were made in this area, so the data is not conclusive.

A more complete picture of the spatial extent of the contamination can be made by incorporating the fluorescence data from all of the pushes into a single figure. Figure 37 shows the extent of the contamination plume relative to the landmarks and push locations at the site. This figure was generated by first integrating the fluorescence intensity (above the background level) at each push location, which is indicative of the total amount of contamination at that location. This data is tabulated for each push, and a color assigned according to the total fluorescence at that location. The data is then interpolated (using a standard technique called kriging) between push locations using a weighted calculation that minimizes the statistical variance. Note that the region in the middle of the site shows rather fine detail in the shape of the plume, while near the quay wall, where few pushes were advanced, the plume has much less structure. Because there are fewer data points near the quay wall, the plume size is not as known as accurately as in the center of the site.

This figure illustrates one of the advantages of a SCAPS site analysis. In those regions where fine spatial detail is desired, such as shown here near the center of the site, a greater number of pushes can be advanced. In regions where less detail is required, fewer pushes are needed. The goal of the site operations at FFTF was to show the spatial extent of the contamination near the center of the site, away from the quay wall, so more pushes were advanced in the middle of the site. It is important to note that the location of the pushes and hence the fine scale horizontal resolution of the contamination can be adjusted in real time while at the site, using the data from those pushes already advanced.

Naval Air Station Alameda - Site 13: Old Refinery Site

Site history

Naval Air Station Alameda is located at the western end of Alameda Island, in Alameda and San Francisco counties, California. Alameda Island lies along the eastern side of San Francisco Bay, adjacent to the city of Oakland. The air station occupies 2,643 acres and is approximately 2 miles long and 1 mile wide. Most of the eastern portion of the air station is developed with offices and industrial facilities; runways and support facilities occupy the western portion of the station. Further details are found in Appendix A.

accomplished.

A powerful technique for interpreting the site contamination is to display the push data using a 3 dimensional visualization software package. (In this case, the software used was EarthVision by Dynamic Graphics, Inc.) The software uses the data from the push locations and a minimum tension algorithm to interpolate between the push locations, providing a visualization of the contamination. Obviously the picture will be more accurate as the number of pushes increases, and care must be exercised in interpreting the data in this format as the resolution is only as good as the distance between the pushes. However, this approach does allow the full three dimensional nature of the LIF-POL data to be displayed.

Figure 39 shows a three dimensional view of the NAS:Alameda data, where the software has been configured to display the volume where the fluorescence exceeds the background level. This allows one to visualize the contaminant plume spatially. The figure also includes a cutaway to display the interior of the plume, where the highest levels of fluorescence were observed. This coresponds to the region of greatest contamination. The acutal push locations are shown in purple as verticle lines throught the plume.

It is interesting to take a cross-section through this 3 dimensional figure to produce a transect showing the variation in the fluorescence. Figure 40 shows an east-west transect along the line A-A' shown in figure 38 and represents the data from pushes #21, 29, 17, 40, 12, 41, 7, 42, 2, 42, 24 and 44. The pushes performed during the validation stage of operations (#39, 40, 41, 42, 43, 44, 45) are shown from left to right in the figure. This figure plots depth along the y axis, push location along the x-axis with the maximum fluorescence intensity represented by the color. Two hot spots with very high fluorescence can be seen, along with some surface fluorescence throught to be due to asphaltic contaminants at ground level. Also shown on the figure are the pushes from which soil samples were collected, and the TRPH values measured for the soil samples. Good qualitative agreement between the two methods can be observed.

Spectral signature of contamination

Most of the fluorescence observed at the site occured beneath the water table, and so most likely represents signal from the heavy tar-like refinery waste that was buried at the site during the operation of the refinery prior to 1903. From the soil samples collected with the split spoon sampler, it was found that this contaminant is very viscous, with low mobility

than the upper plume, and is probably from a different source than that of the upper plume.

[The validation samples collected at this site have been analyzed by EPA method 8270–modified to determine the concentrations for 40 different PAHs. Initial analysis of the analytical results confirms the spectral identification of the different contaminants. This will be more fully discussed in the final draft of this document.]

This is interesting not because it is important to know there are two types of viscous tarry contamination at the NAS:Alameda site, but to illustrate the use of the spectral data captured at every measurement. At some sites, there are several potential sources for contamination, such as storage tanks at a neighboring gas station and diesel storage facility. The spectral data can provide a method to differentiate the contaminants, and indicate which type of storage tank might be leaking.

The data is also important in that it shows that the spectral shape is consistant as the probe is pushed through a large depth of a single contaminant. While this was expected, it was not clear how much spectral variation one would expect due to soil inhomogeneities, stratigraphic effects, or small scale variations in the amount and composition of contaminant exhibited to the probe window. The evidence from this site indicates that once the background fluorescence has been subtracted from the data, the spectral shape is very consistant. We note, however, that this data was collected in a fairly uniform soil matrix, and it is not presently known how much the spectra will shift if the matrix were to change substantially during the push.

Fine Scale Depth Resolution

Finally, it is important to note that the LIF-POL sensor provides much finer scale depth resolution of the contamination than traditional split spoon sampling. This is shown in figure 40 using the fluorescence data from the site. Compare this to figure 44 and figure 45, which are the same cross-section prepared using only the TPH and TRPH data, respectively, from 35 soil samples collected along the same transect.

The gross features are similar for all three methods, but clearly the TPH and TRPH resolution is limited by the number of data points. Because of the difficulty and expense of retrieving soil samples, any analysis based on analytics will generally have lower resolution.

7. Validation data

As part of the site assessment, soil samples have been collected in order to explicitly validate the fluorescence readings from the LIF-POL sensor. The samples are analyzed using traditional EPA certified methods to determine the amount of petroleum in the soil from a given depth, and this in turn is compared with the fluorescence reading from the same depth to verify that the fluorescence correlates with the contamination. Validation data is presented for the two sites discussed in detail in the previous section (FFTF and NAS Alameda) as well as four additional sites (NABC, Yuma, Pendleton, Guadalupe).

It is important to note that the six sites had many different characteristics. FFTF had contamination in the form of LNAPL, and the site was very uniform sandy soil directly next to the bay. Alameda had much older, heavier contamination. Yuma was a very dry site, with fairly strong interference from calcium carbonate encountered during the pushes. In contrast to the other sites, Pendleton turned out to a clean site both from the LIF-POL sensor readings and the analytic measurements on the soil samples. Guadalupe, on the other hand, was completely saturated with diluent, a combination of diesel and kerosine pumped into the ground by an oil company to increase the extraction efficiency for oil wells at the site.

Validation is important for several reasons. On the most basic level, SCAPS is intended to be a rapid field screening tool for quick site assessment and better placement of a reduced number of traditional borings/wells. It is important to confirm that a strong fluorescence signal corresponds to large amounts of POL contamination in the soil, while weak fluorescence reflects a lack of POL contamination. Once the correlation between the observed fluorescence and level of POL contamination is established, then the extent of a contaminant plume can be determined from the fluorescence data without analytical soil measurements throughout the site.

In order to establish this correlation we have implemented a comprehensive sampling plan that directly compares LIF POL sensor data with several conventional analytical methods. We have selected two methods (EPA Methods 418.1 and 8015) that represent two of the most frequently used methods that are employed at present for delineating non-volatile POL contamination. It is important to note that these methods were selected because they represent the current technology , the technology that is presently being used on a day-to-day basis by environmental professionals and regulators to make decisions about the distribution

418.1 (total recoverable petroleum hydrocarbons - TRPH) and EPA method 8015 (total petroleum hydrocarbons - TPH). The EPA certification documents for the laboratory are included in Appendix E.

Method 418.1 uses a solvent such as fluorocarbon-113 to extract the hydrocarbons from the soil, and then measures the strength of the infrared absorption at 2930 cm-1 corresponding to a CH2 stretch vibration. The absorption is compared to that measured on a standard mixture of hydrocarbons. This method has the advantage that it is quick and relatively easy to perform, even in the field, and is generally not very expensive. However, it has several drawbacks [Douglas, et. al., 1992], including the fact that volatile compounds are usually lost in the extraction procedure, extraction efficiency for high-molecular-weight hydrocarbons is poor, and all soluble materials within the soil, including contaminants and other benign materials, are extracted, possibly affecting the measurement. This method relies on a hydrocarbon mixture such as isooctane, n-hexadecane and chlorobenzene as the standard for comparison, which is generally not the same as the petroleum product found at the site. Since all hydrocarbons do not respond equally to infrared absorption, the difference between the in-situ product and the standards may result in artificially high or low readings. Note that the same probelm is encountered in choosing a standard fuel with which to calibrate the LIF-POL measurements.

Method 8015 (TPH) utilizes a gas chromatograph coupled with a flame ionization detector (GC/FID) to separate the components of the contaminant by molecular weight. The hydrocarbon extract is mixed with a surrogate internal standard (SIS) for quality control, and a quantitative internal standard (QIS) for quantification. The chromatogram produced by this analysis covers the carbon range from C7 through C36, and can help to identify the product type ("fingerprint") [Douglas, et. al., 1992] using the n - alkane pattern distribution, pristane and phytane rations, and the width of the unresolved complex mixture.

Collected Validation Data

The validation data from 6 sites (FFTF, Alameda, NABC, Yuma, Pendleton and Guadalupe) are shown individually in Appendix F. For each site, there are three plots: the Total Petroleum Hydrocarbons (TPH) data vs. the integrated fluorescence from the 6 inch depth corresponding to the sample; the Total Recoverable Petroleum Hydrocarbons (TRPH) data vs. the integrated fluorescence from the 6 inch depth corresponding to the sample; and the TPH data plotted vs the TRPH data. Use of a logarithmic plot allows the broad range of

FFTF.) Similar examples can result in false negative readings.

To help correlate the depth of the soil samples with the in-situ fluorescence data, the fluorescence response is measured using small aliquots scraped from the top and bottom of each soil sample directly after the sample is removed from the split spoon sampler. The variation in top/bottom fluorescence can be used to determine the depth of the sample. This fluorescence generally compares fairly well with the in-situ fluorescence, although at some sites, inhomogeneities in the distribution of the contaminant through the soil can make it difficult to correlate these measurements with the in-situ data.

All attempts have been made to insure the integrity of the depth associated with the sample, but there are clear indications at some sites that the sample depth is not accurate. However, the validation data represents all samples, including those of questionable depth, because there is no clear systematic method for confirming inaccurate depths for suspect samples.

The validation data from the individual sites shown in Appendix F shows excellent agreement between the LIF-POL detect/no-detect and the analytical methods. To pull all of the validation data together and display the data on a single plot, the data from each site has been normalized, so that the fluorescence data is divided by the fluorescence threshold, while the TPH and TRPH data are divided by the site detection limit. Those samples with normalized intensity and normalized TRH or TRPH greater than one indicate a detect.

The normalized TPH vs. fluorescence data for 120 samples from the 6 sites is shown in figure 47. The total agreement between the two methods is 89%, with 62% of the samples representing non-detects and 27% showing detects. 7% of the samples showed false positive, while 4% showed false negative. This is very similar to the normalized TRPH vs. fluorescence data shown in figure 48. In this case, 90% of the samples agree for both methods, with 62% showing non-detect and 28% showing detect. 5% of the samples showed false positive and 5% showed false negative. These statistics are collected in table 3.

It is important to note that those samples that do show false positive or false positive are generally near the cutoff. Considering the difficulty encountered in determining the depth of the sample and the associated difficulties with false positives and negatives for such samples, the data strongly confirms the efficacy of the sensor. To further confirm this, compare the results of the two analytic methods. Figure 49 shows the normalized TRPH vs TPH data, and the results are comparable with the statistics of the LIF-POL sensor. 93% of the samples agree, with 65% showing non-detect and 28 % showing detect. 3% showed false

Safety

Laser eye safety

The primary laser hazard is potential exposure to unprotected eyes. The beam divergence is sufficiently large however that the potential to inflict ocular damage is limited to persons working within a several feet of the optical window located on the probe.

Grouting

The SCAPS probe design allows for grouting of the penetrometer borings through the instrumented probe. A grouting mixture of cement/bentonite/sikament is pumped from the surface, down through the sounding rods to back-fill the hole from the bottom up (tremie method). This significantly reduces the potential for the push hole to act as a conduit for hazardous contaminants.

Investigation derived waste

A high pressure steam cleaner is used to automatically wash the sounding rods as they are retracted from the ground. This procedure serves two purposes. It minimizes the crew's exposure to any hazardous material that may cling to the rods. It also eliminates the possibility of cross contamination form one push hole to the next. A vacuum system is used to collect the spent wash water into 55 gallon steel barrels during the cleaning process. Typically, 1/4 to 1/2 gallon of water is collected for each foot of rod. This investigation derived waste must be tested for hazardous material prior to proper disposal.

Hazards to structures and utilities

The mass of the SCAPS vehicle as well as the process of boring into the ground can be potentially hazardous to underground structures and utilities. To reduce the risk of damage or injury, predeployment planning involves a review of existing as built site plans along with a geophysical survey to identify underground utilities.

1992 Douglas, G. S. , K. J. McCarthy, D. T. Dahlen, J. A. Seavey , W. G. Steinhauer, R. C. Prince and D. L. Elmendorf, "The Use of Hydrocarbon Analyses for Enviornmental Assessment and Remediation", J. Soil Contamination, **1**, (1992), 197-216

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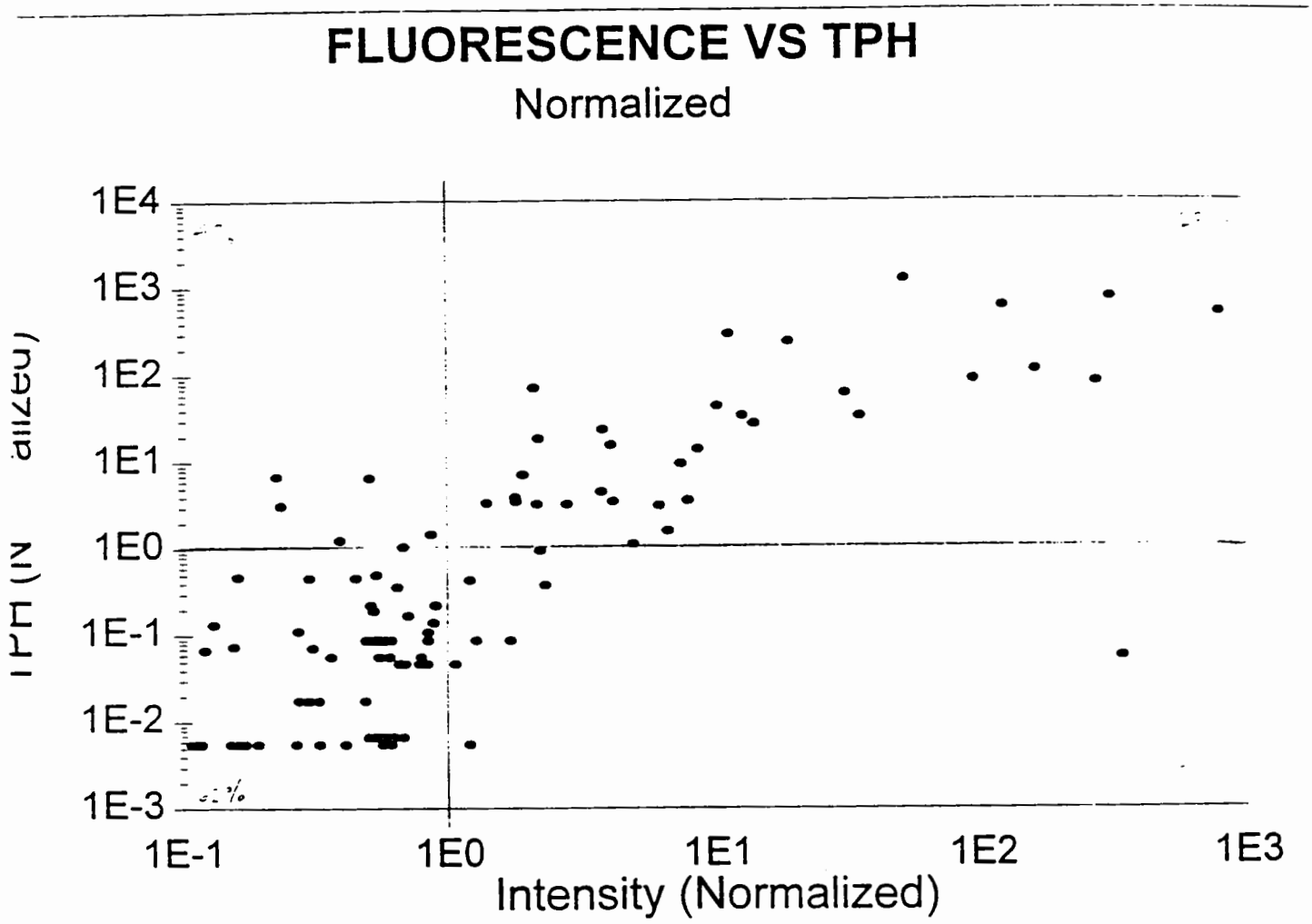
Table 3
Contingency table from collected data
(120 samples)

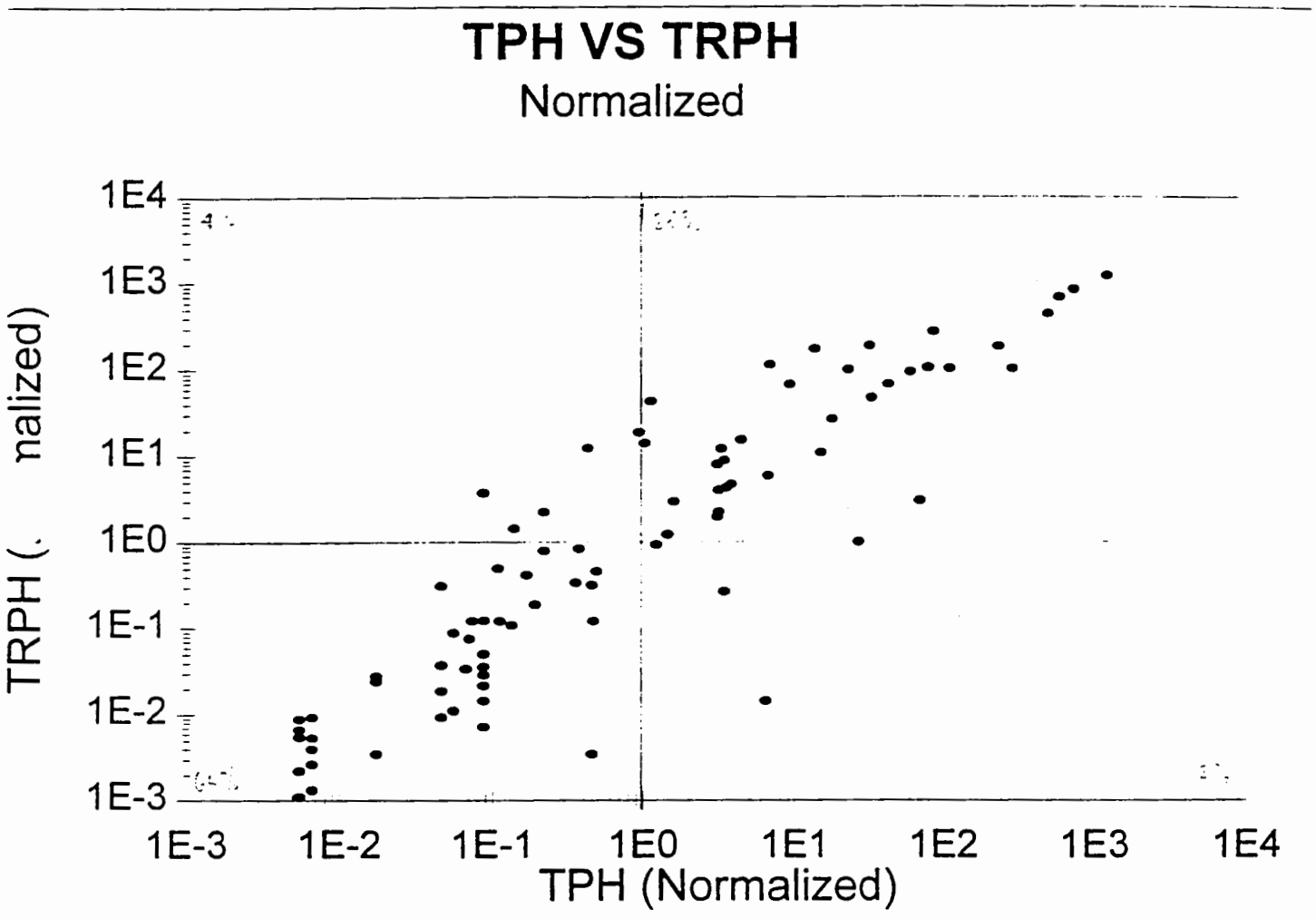
	Agreement	False positives	False negatives
TPH vs. Fluorescence	89 %	7%	4%
TRPH vs. Fluorescence	90%	5%	5%
TPH vs TRPH	93%	3%	4%



LIDAT.WB1:NormFvTPH

NRAD

Normalized Fluorescence vs Normalized TPH data on log-log plot. Using 120 samples from 6 site, the



\LIDAT.WB1:NormTPHvTRPH NRAD

: 49. Normalized TPH vs TRPH. For 120 samples, agreement is 93%, roughly the same as the SCAPS

APPENDIX C - DETECTION THRESHOLD DETERMINATION

C.1. Detection Threshold

The ability of the LIF sensor to measure small amounts of contaminant will be limited by:

- Its variable sensitivity to the hydrocarbons present in the soil
- The ambient fluorescence of the soil
- Fluctuations in the output energy of the nitrogen laser
- Variations in the detector temperature
- Changes in optical alignment

In practice, setting the detection threshold is a two part process. The first part consists of establishing a fluorescence threshold. This is the value of fluorescent intensity that must be exceeded to indicate the presence of contamination. The second part is to relate this fluorescence threshold to a correlation of petroleum concentrations to establish the detection threshold in milligrams/kilograms (ppm).

The correlation of petroleum concentrations is determined by preparing standards consisting of soil with known concentrations of contaminant. This procedure is carried out using only the lower concentration calibration standards. For the Naval Base Charleston the following values were used in calculating the detection threshold: 0 ppm, 732 ppm, 1,040 ppm, 1,740 ppm, 3,777 ppm, 6,462 ppm, 8,524 ppm, and 24,749 ppm. Experiments have shown that for the full range of calibration standards (up to 25,000 ppm), the calibration data is not well fit by a linear regression. This is not surprising because of the complicated interaction between the fuel and soil type. By restricting the data set to the low concentration samples, the data is well fit using the linear regression and this approach gives much more confidence in the sensitivity near the detection threshold.

The fluorescence intensity for each calibration sample is measured in triplicate daily at the start of operations. The three measurements are averaged to provide a single measured intensity for each concentration. The data is regressed to establish a slope and intercept. The intercept is given by the intensity of the unspiked calibration standard (0 ppm). The slope is found from the least squares fit using this intercept.

Intercept: $b = y_0$ = intensity measured on 0 ppm calibration sample

Slope: $M = \Sigma(y_i - y_0)x_i / \Sigma(x_i^2)$

The variance in the regression is given by:

APPENDIX C - DETECTION THRESHOLD DETERMINATION

$V = \Sigma(mx_i + b - y_i)^2 / (n-1)$

where V is the biased estimator of the residual mean square of the fit and the data, and the standard deviation of the fit is:

$\sigma = \text{Sqrt}(V)$

For the calibration soils, x is given by the concentration (C) of the target fuel, while y is the measured fluorescence intensity (I) of the sample. The sensitivity and background are defined as follows:

sensitivity = slope of fitted data = m

background = intercept of fitted data = b

The noise is defined as:

noise = standard deviation of the fit = σ

The noise is defined as 1.00 times the standard deviation in order to establish a conservative fluorescence threshold. (The fluorescence threshold is given as the sum of the background and the noise values). Using the standard assumption of a normal "student's T" distribution statistics, and the number of points used in these fits (typically 8), this corresponds to an 80% confidence limit. This was chosen because the sensor is used as a field screening tool, and it was considered important to reduce the possibility for false negatives.

The quantities needed to calculate the fluorescence threshold and the detection threshold are now known. These are determined from:

Fluorescence threshold = background + noise = $b + \sigma$

Detection threshold = noise / sensitivity = σ / m

The fluorescence threshold is the quantitative limit that the fluorescence intensity must exceed in order to qualify as a "detect". If the fluorescence intensity is less that the fluorescence threshold, the sensor indicates "none-detected".

The detection threshold is the amount of contaminant that corresponds to the fluorescence threshold. This is the practical detection level in ppm, as determine from the calibration standards for a given site, and is found by taking the fluorescence threshold and working back to the concentration needed to produce this intensity. The detection threshold is used to compare the ppm of petroleum present in the sample as determined by Total

APPENDIX C - DETECTION THRESHOLD DETERMINATION

Recoverable Petroleum Hydrocarbon (TRPH, EPA Method 8015-Modified) and Total Petroleum Hydrocarbon (TPH, EPA Method 418.1) with the fluorescence measurements for the validation phase of the site characterization. TPH and TRPH values above the detection threshold value are considered "detects", while those less than the detection threshold are not detectable by the SCAPS sensor.

This method for setting the fluorescence threshold and detection threshold is based on a standard analytical chemical approach for quantifying the response of a detector. It is also easily reproducible, and the results follow directly from applying a well defined series of data reduction techniques that can be documented and repeated at any site.

This approach does have limitations. The background level is determined by a single soil sample, chosen near the surface at one location from the site. It is possible that the soil sample is contaminated, so that the background represents not only the natural fluorescence but a contribution from the contaminant. Even if it is not contaminated, the background from this single sample may not be representative of the whole site. The following additional interpretation approaches have been developed because of this single soil sample limitation.

C.2. Fluorescent Threshold

C.2.1 Histogram

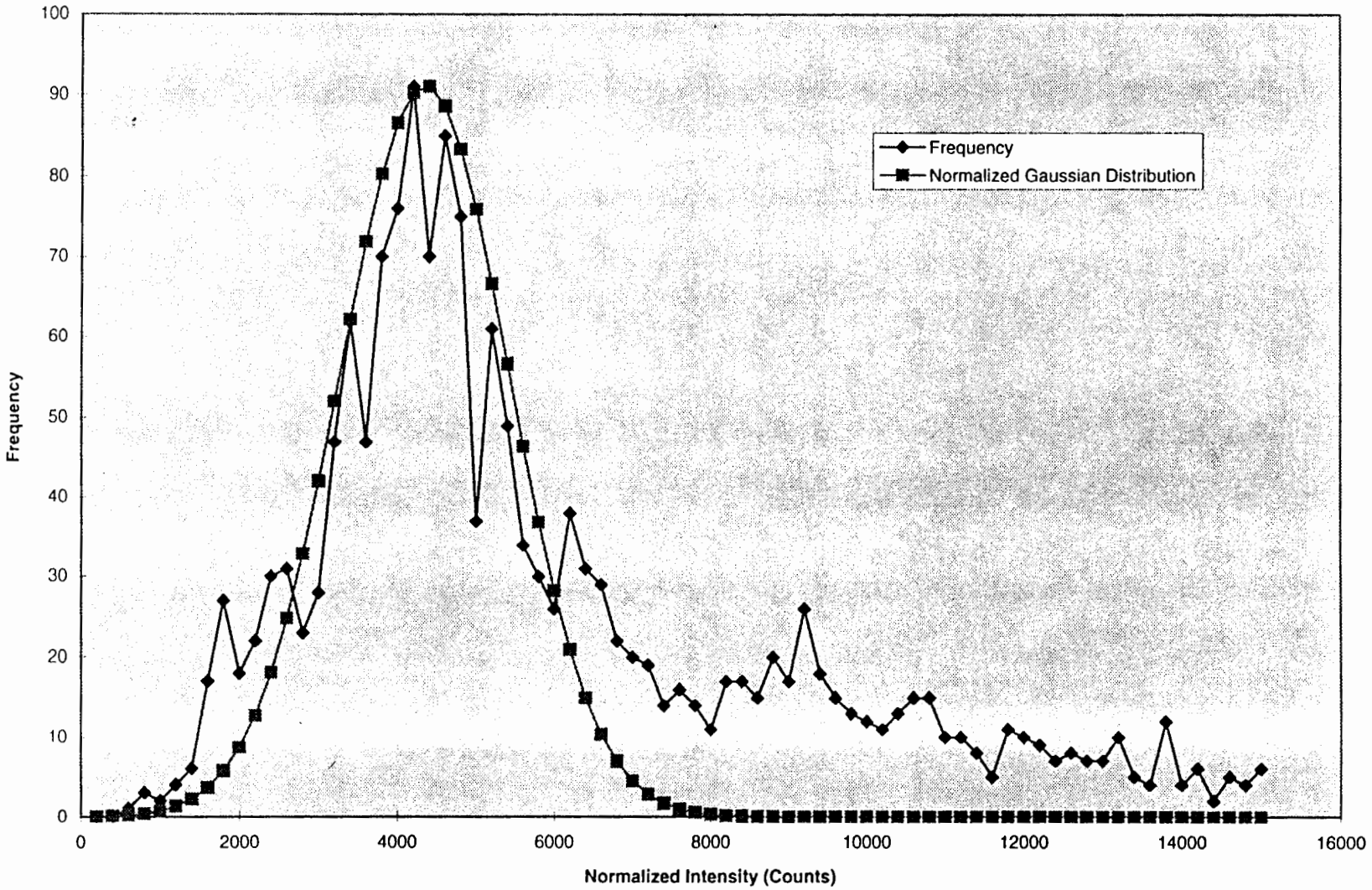
It can be shown that LIF responses from the uncontaminated soil system are normally (Gaussian) distributed. It can be shown that LIF responses from the contaminated soil system are not normally distributed. This may be due to a variety of reasons including but not limited to:

- the limited vertical duration of the contaminant when compared to the uncontaminated soil system
- the relatively recent release of contamination on the geologic time scale

The underlying principle is that these are two different populations. The value of Fluorescence that marks the separation of the two populations is referred to as the Fluorescent Threshold (FT). Once the FT is determined, the LIF results can be interpreted to define the contaminated population.

The procedure consists of Ranking all the Fluorescent Intensity results generated during an investigation from least to highest without regard to depth or push location. Next, determine the frequency of occurrence within each 200 count range. With this frequency of occurrence information, construct a histogram as shown in Chart 1.

Naval Station Charelston - Fuel Farm



Fluorescent Threshold = 7,157
Correlation = 0.935
Fit Polulation = 15,000

On this histogram plot a normal distribution using the formula:

$f(x) = 1/\text{sqrt}(2\sigma^2\pi)*(\exp(-(x-\mu)^2/2*\sigma^2)$

Determine the best fit of the normal distribution to the histogram to obtain the mean and standard deviation which represent the background and noise as described in the first section.

The Fluorescent Threshold is then equal to:

Fluorescent Threshold = $\mu + 2.6*\sigma$

The value 2.6 is chosen so that there is a 99.5% probability that all values below the Fluorescent Threshold are from the uncontaminated population.

C.2.2 Quantile

Another method to determine the underlying distribution of data is the Quantile approach. This breaks the data set up by percentage of population so that 50% of the population lies below and above the mean value. Through the quantile method the FT can be determined by inspection.

The procedure involves ranking the data from every push without regard to depth or location from lowest to highest. For each value calculate the quantile:

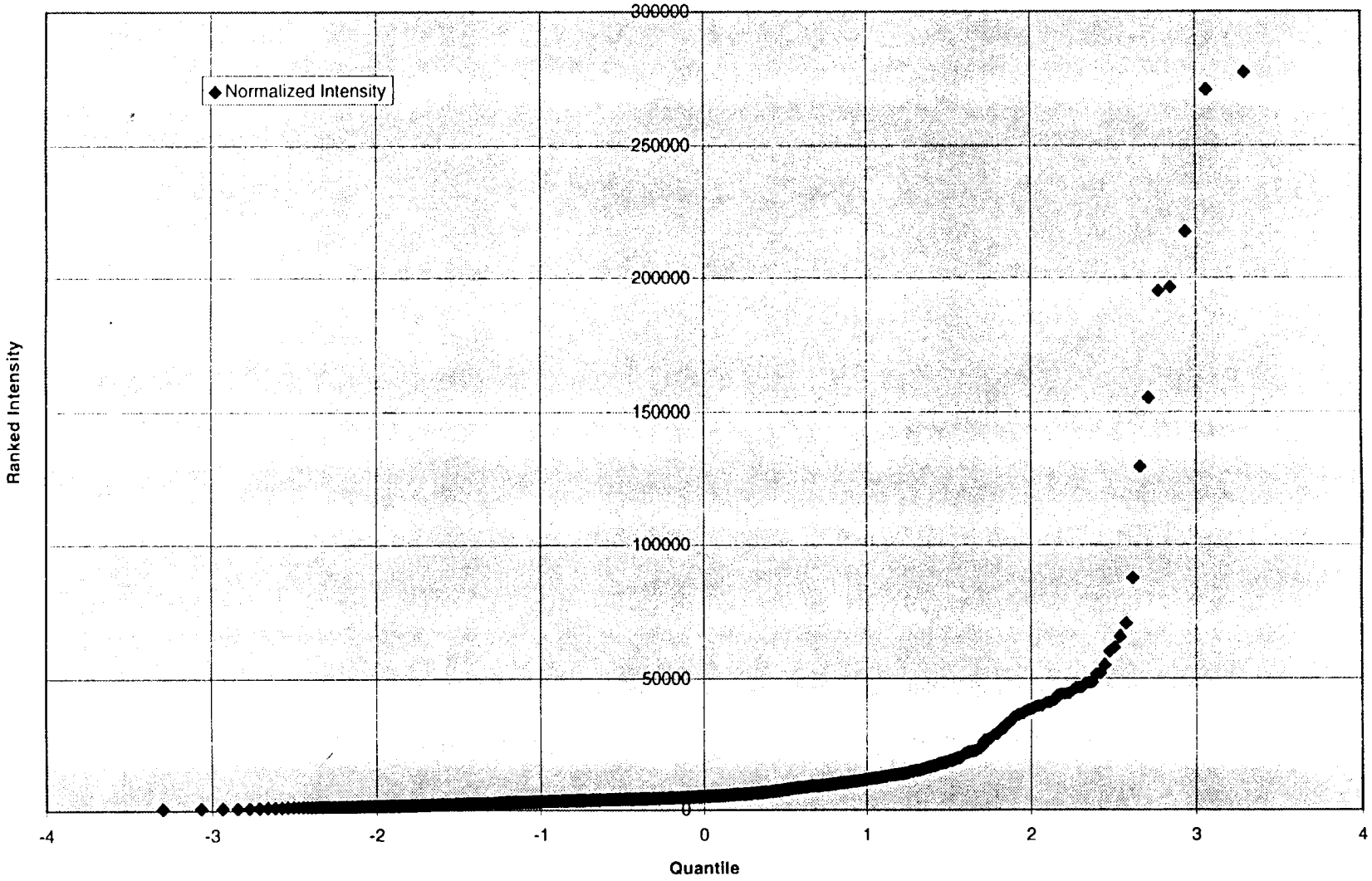
use: $f_i = (i-3/8)/(n+1/4)$

to calculate: $Q(f_i) = 4.91\ [f_i^{0.14} - (1 - f_i)^{0.14}]$

Plot $Q(f_i)$ verses the intensity for each corresponding rank as shown in Chart 2. Linearity indicates that the sample data are consistent with a normal reference distribution. Different linear regions of differing slopes known as clusters will be obvious. Each cluster represents a different population. There is one population of relatively low intensity values that represents one cluster and a population of high intensity values that represents the contaminated population.

This method is a powerful interpretation tool that is best used in conjunction with the following reference: "Statistical Design and Analysis of Experiments, With Applications to Engineering and Science" by Mason, Robert., et all., John Wiley and Sons, Inc., 1989.

Normal Quantile plot for Fuel Farm



APPENDIX D - STRIP CHARTS WITH DETECTION THRESHOLD

SCAPS STANDARDS WORKSHEET

PROJECT NO.(LAB):
PROJECT NO.(SCAPS):
SOIL SOURCE: CHARLESTON, S.C.

DATE: 7/7/95
PREP. BY: C. BOEHNKE

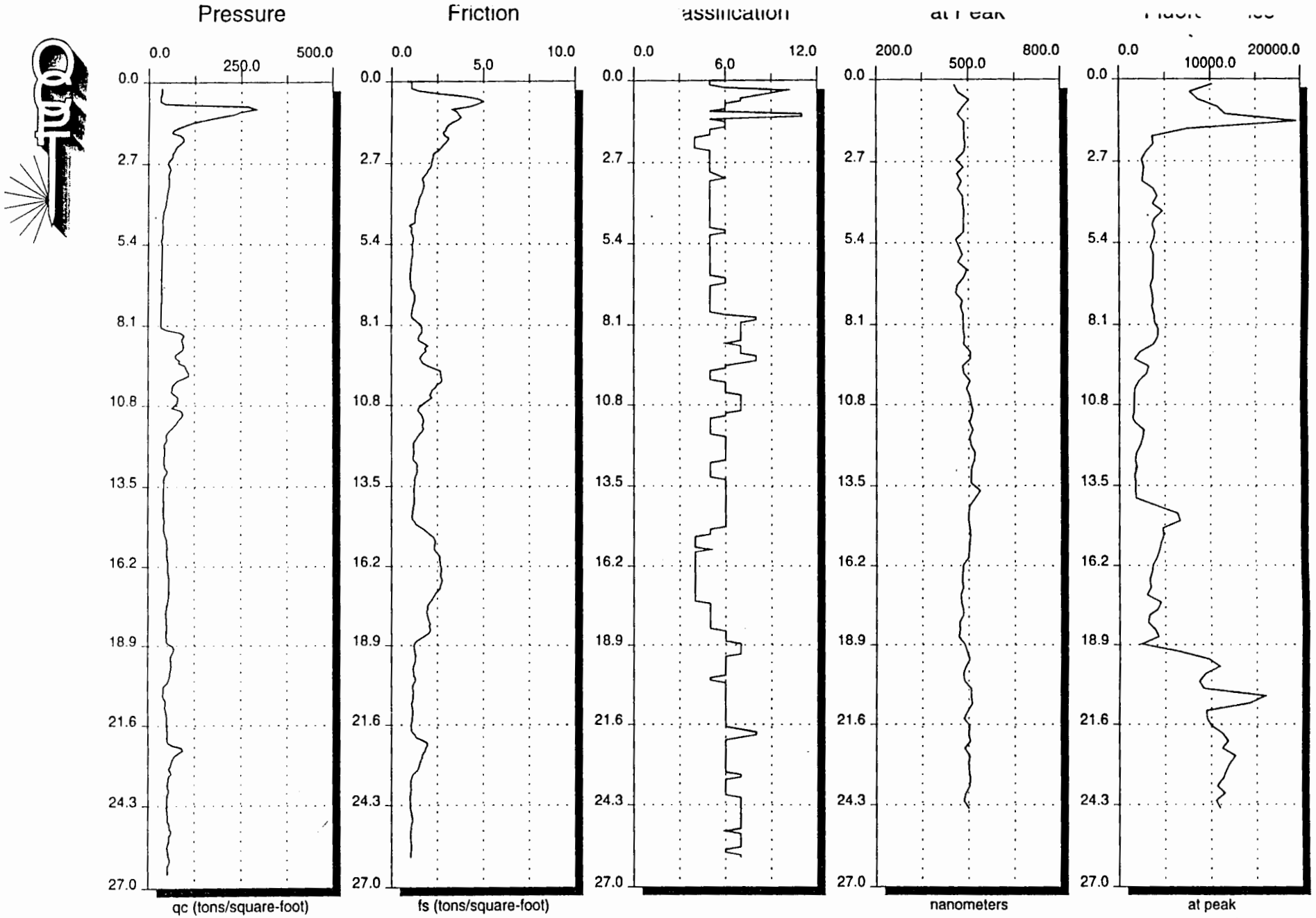
TARGET				ACTUAL			
STANDARD AMT. (g)	OIL (ppm)	OIL (g)	SOIL (g)	STANDARD AMT. (g)	OIL (ppm)	OIL (g)	SOIL (g)
15.0000	0	0.0000	15.0000	15.2039	0	0.0000	15.2039
15.0000	500	0.0075	14.9925	15.0348	732	0.0110	15.0238
15.0000	1000	0.0150	14.9850	15.0004	1040	0.0156	14.9848
15.0000	2500	0.0375	14.9625	15.0035	1740	0.0261	14.9774
15.0000	4000	0.0600	14.9400	15.0108	3777	0.0567	14.9541
15.0000	5000	0.0750	14.9250	15.0115	6462	0.0970	14.9145
15.0000	10000	0.1500	14.8500	14.9930	8524	0.1278	14.8652
15.0000	20000	0.3000	14.7000	15.0106	24749	0.3715	14.6391

INSTRUCTIONS

1. ENTER TARGET STANDARD WEIGHT IN GRAMS.
2. ENTER TARGET PPM OF OIL. IF NO ENTRY DEFAULT VALUES WILL BE USED.
3. SPREADSHEET WILL CALCULATE THE TARGET WEIGHTS IN GRAMS FOR OIL AND SOIL.
4. WEIGH SOIL FIRST TO 0.0001 G, THEN ADD OIL TO TARGET STANDARD WEIGHT.
5. ENTER ACTUAL WEIGHT OF SOIL AND TOTAL STANDARD WEIGHT.
6. SPREADSHEET WILL CALCULATE THE ACTUAL WEIGHT OF OIL AND PPM OIL.

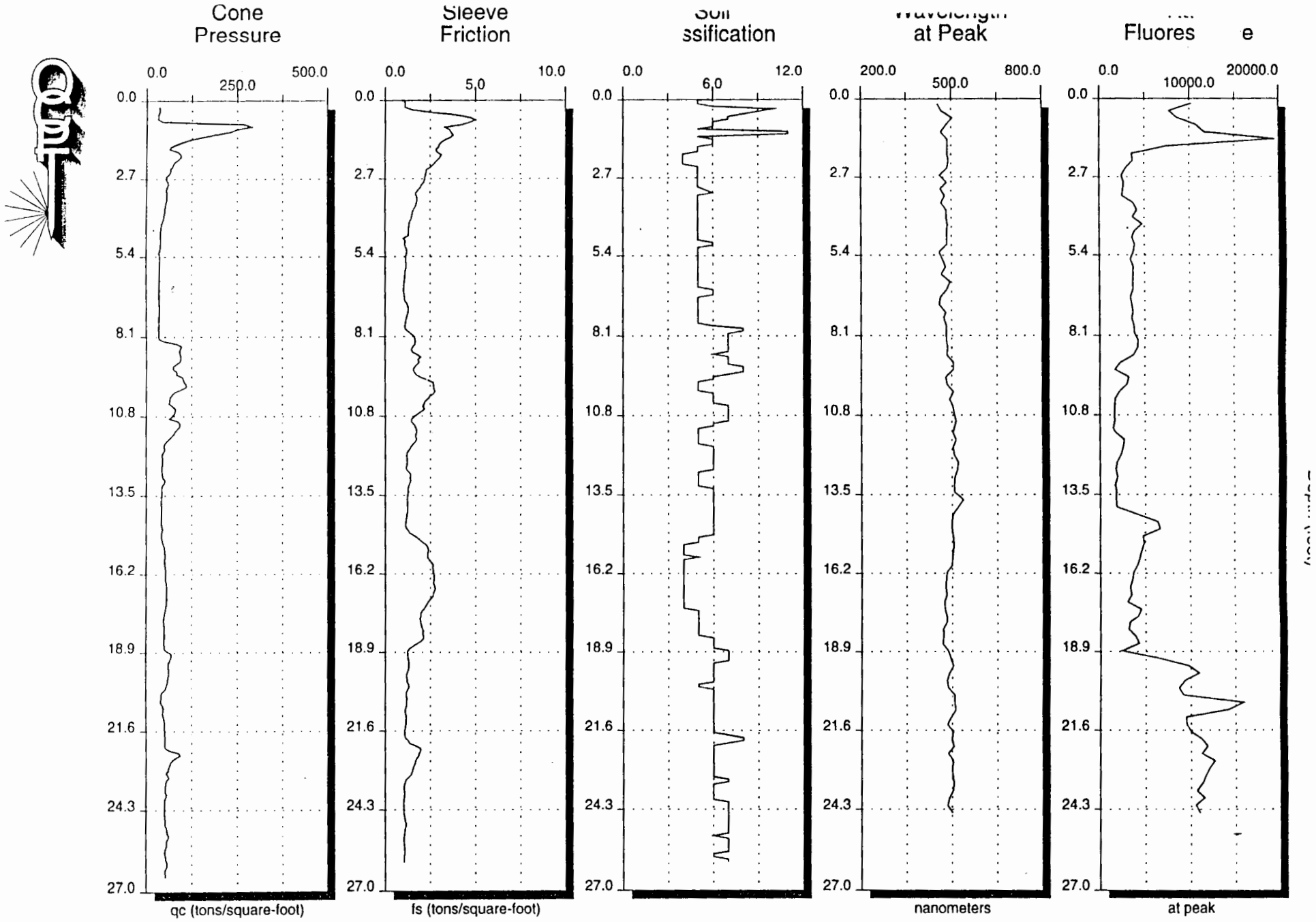
COMMENTS:

SAMPLE VERY CLAY-LIKE, HEAVY, AND LUMPY. VERY DIFFICULT TO MAKE UNIFORM.



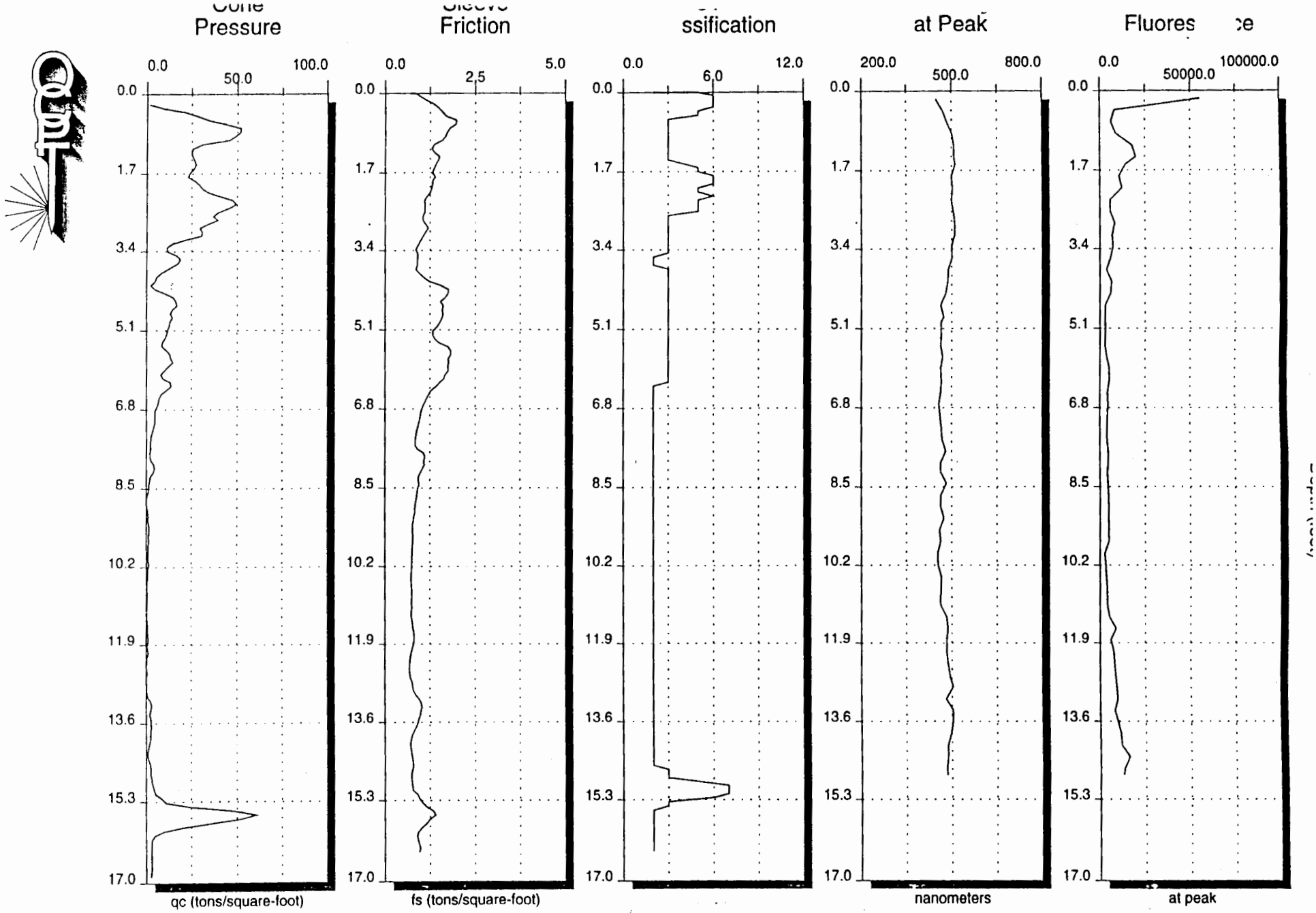
Time: 10:05:58
Date: 07-12-1995
Version: 1.0

Push: C:\BASIC71\DATA\CHRFF1.PSH
Probe: C:\BASIC71\DATA\PROBE02A.PF
Calibration: C:\BASIC71\DATA\JUL12DFM.CA



Time: 10:05:58
Date: 07-12-1995
Version: 1.0

Push: C:\BASIC71\DATA\CHRFF1.PSH
Probe: C:\BASIC71\DATA\PROBE02A.PRI
Calibration: C:\BASIC71\DATA\JUL12DFM.CAL



Time: 13:02:37
Date: 07-12-1995
Version: 1.0

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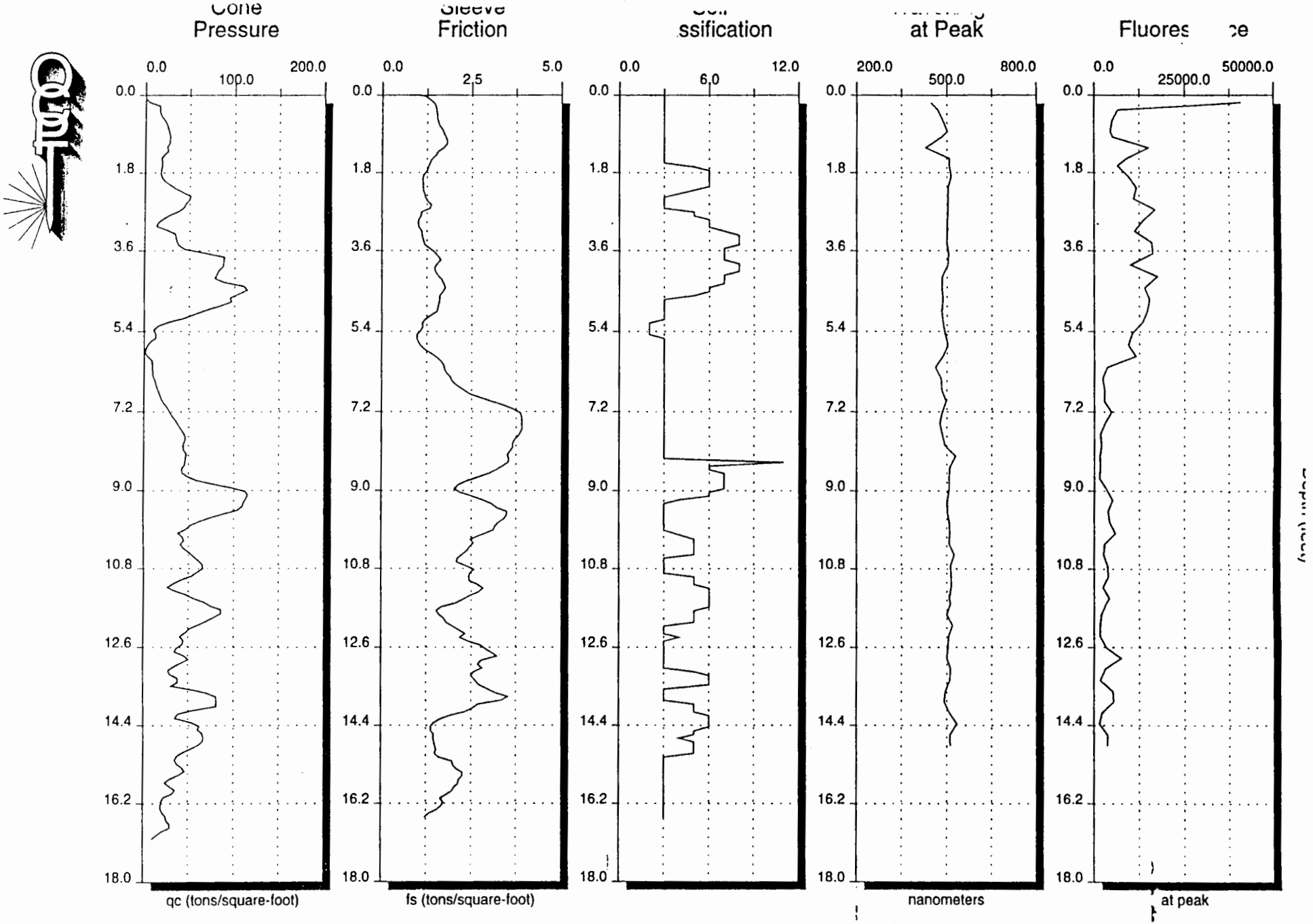
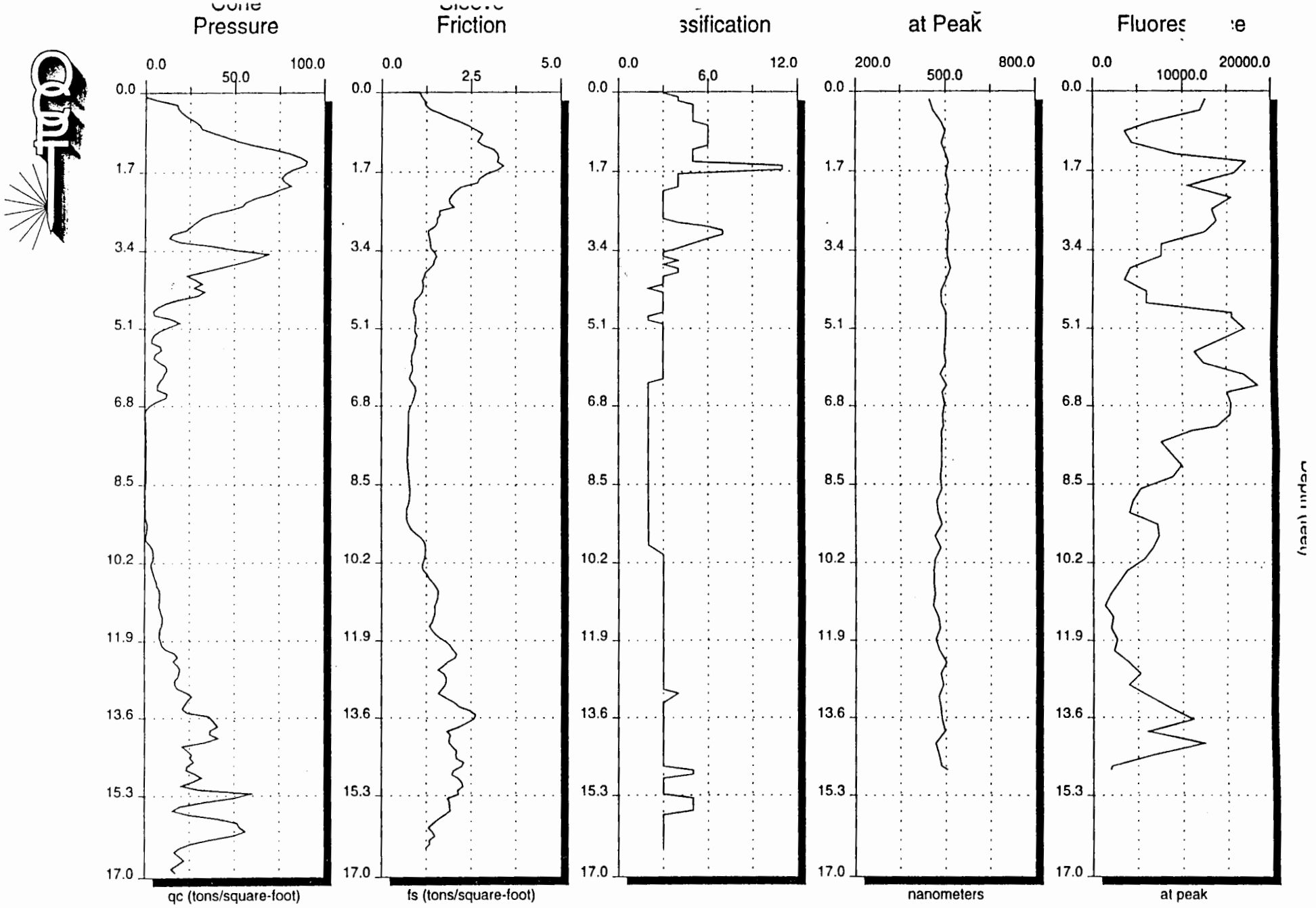
Probe: C:\BASIC71\DATA\PROBE02B.PRI
Calibration: C:\BASIC71\DATA\JUL12DFM.CAL



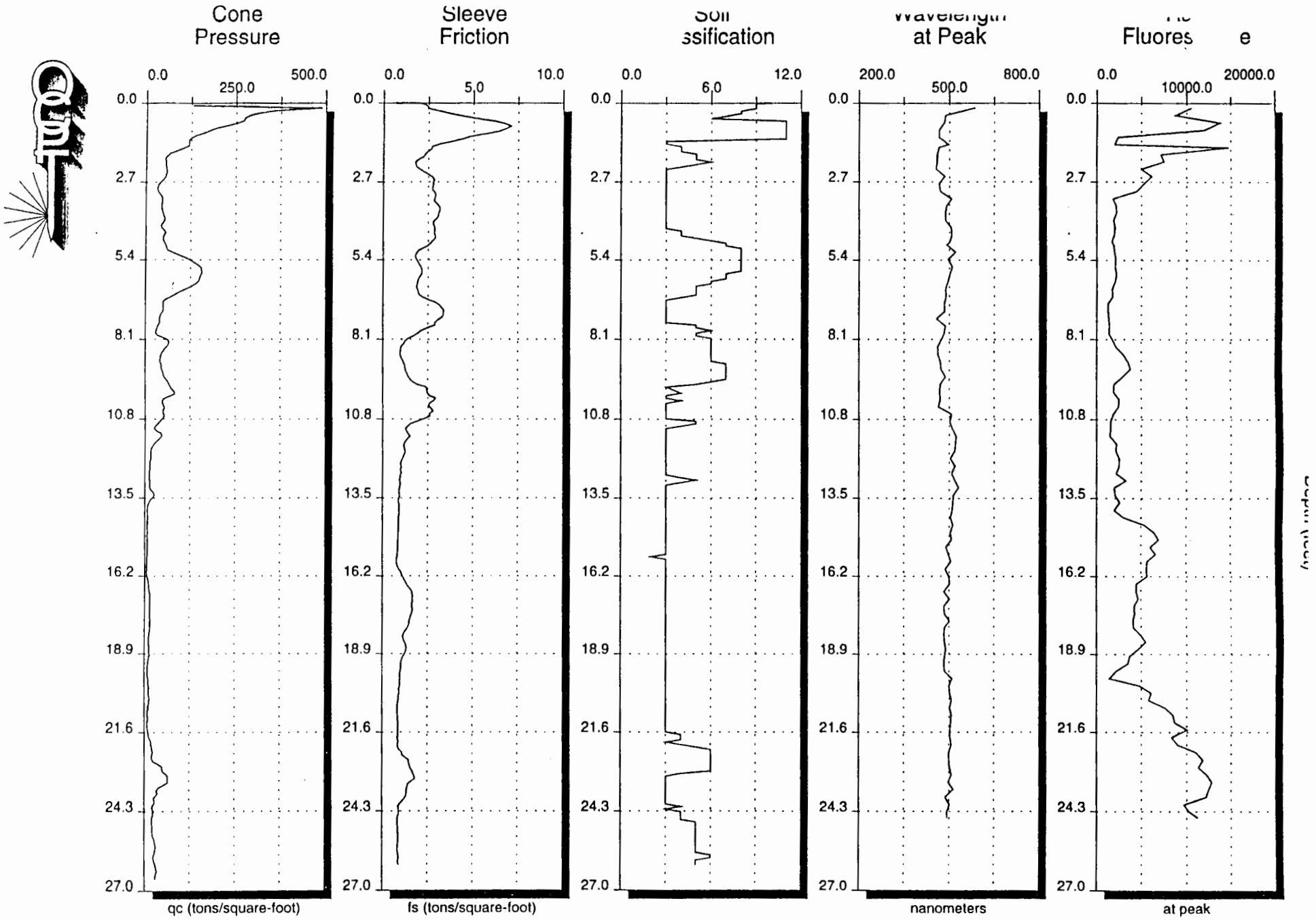
Time: 13:44:58
Date: 07-12-1995
Version: 1.0

Push: C:\BASIC71\DATA\CHRFF3.PSH
Probe: C:\BASIC71\DATA\PROBE02B.PRE
Calibration: C:\BASIC71\DATA\JUL12DFM.CAL



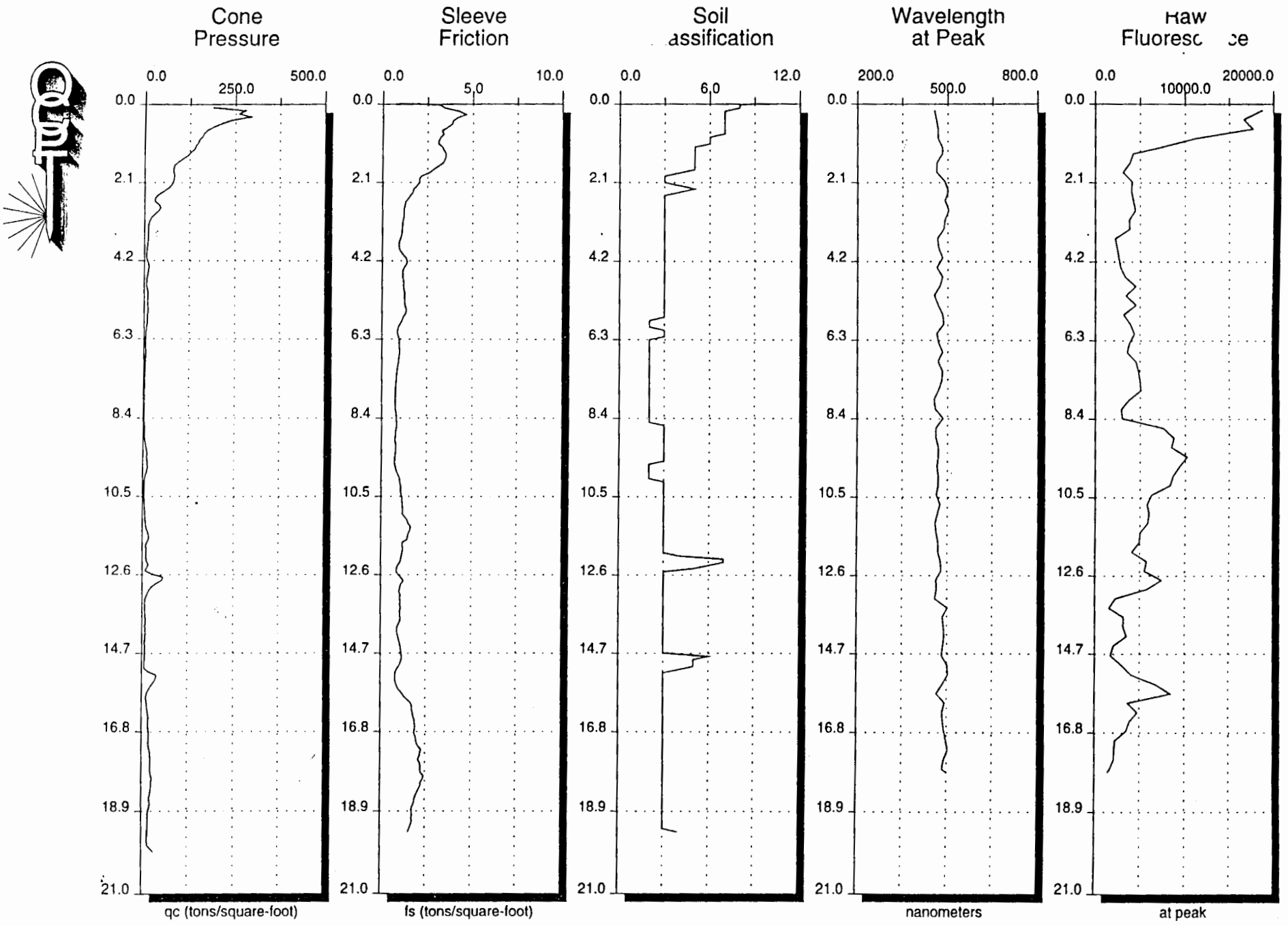
Time: 14:29:32
Date: 07-12-1995
Version: 1.0

Push: C:\BASIC71\DATA\CHRFF4.PSH
Probe: C:\BASIC71\DATA\PROBE02B.PRE
Calibration: C:\BASIC71\DATA\JUL12DFM.CAL



Time: 09:32:20
Date: 07-14-1995
Version: 1.0

Push: C:\BASIC71\DATA\CHRFF5.PSH
Probe: C:\BASIC71\DATA\PROBE02B.PRE
Calibration: C:\BASIC71\DATA\JUL14DFM.CAL



Time: 16:35:37

Push: C:\BASIC71\DATA\CHRFF06.PSH

SCAPS Detailed Data

Push Id CHRFF01.CSV
Date Started: Wednesday, July 1
Time Started 10:05 AM

North Coordinate (Feet): 372920.78
East Coordinate (Feet): 2319360.6
Elevation (feet): 10.5606
Fluorescent Threshold (counts): 7157
Pre Quinine Sulfate (Counts): 221379
Post Quinine Sulfate (Counts): 235985

Depth (feet)	Normalized Intensity	Peak Wavelength (nm)	Soil Classification based on CPT Data	Confirmation sample result
108.0625	2242	506	silty sand to sandy silt	
111.0001	1626	506		
114.0313	3150	481		
117.0938	2918	485	sand to silty sand	
120.0625	2112	506	sandy silt to silty clay	
123.0625	1650	493		
125.8751	1628	504	clayey silt to silty clay	
128.8438	1562	508	sandy silt to silty clay	
131.8125	1621	514	silty sand to sandy silt	
134.8751	1431	508		
136.5938	1677	504		
139.6562	2644	514	sandy silt to silty clay	
142.75	2506	504		
145.8125	2285	508	clayey silt to silty clay	
148.8125	1860	521	sandy silt to silty clay	
151.8125	1715	519		
154.7812	1915	510		
157.8438	1636	508		
160.875	1775	508	clayey silt to silty clay	
163.9375	1724	538		
166.9688	1791	521	sandy silt to silty clay	
169.9375	3960	504		
173	6246	500		
175.9375	6533	500		
178.9375	4673	504		
181.9375	4766	506	sandy silt to silty clay	
184.9999	4489	504		
188.0312	4307	502	silty clay to clay	
191.0312	4026	500		
193.9999	3620	483	clayey silt to silty clay	
197.1249	3485	481	silty clay to clay	
200.0312	3233	479		
203.1875	3381	483		
206.2187	2931	474	silty clay to clay	
209.2187	4438	476		
212.2499	4065	483		

Data based on information collected by SCAPS on the dates and times specified. Data is intrepreted using methods described in the to project report.

SCAPS Detailed Data

Push Id	**CHRFF02.CSV**
Date Started:	Wednesday, July 1
Time Started	1:02 PM

North Coordinate (Feet):	372606.7
East Coordinate (Feet):	2318853.0
Elevation (feet):	11.3269
Fluorescent Threshold (counts):	7157
Pre Quinine Sulfate (Counts):	195649
Post Quinine Sulfate (Counts):	249900

Depth (feet)	Normalized Intensity	Peak Wavelength (nm)	Soil Classification based on CPT Data	Confirmation sample result
1.9688	61549	449		
4.9063	9024	470	silty clay to clay	
7.9063	6860	485	sandy silt to silty clay	
10.9376	9832	502	clayey silt to silty clay	
13.9688	19821	508	clay	
17.0313	22079	508		
18.875	15743	512		
21.9376	11765	500		
24.875	13617	504	silty clay to clay	
28	6203	500	sandy silt to silty clay	
31.0938	6401	506	clayey silt to silty clay	
34.0938	9121	510		
37.1563	7511	510	clay	
40.125	7996	500		
43.125	6548	502		
46.125	4062	489	clay	
49.1876	7158	487	organic material	
52.2188	6631	481	clay	
55.2188	3360	464		
58.25	3220	474		
59.4688	3275	466		
62.4376	3254	466	clay	
65.4063	3059	464		
68.4688	4143	470		
71.4688	5722	464		
74.5626	5746	466		
77.5626	4699	464		
80.6563	4941	457		
83.625	4746	462	organic material	
86.625	4445	466		
89.6876	4387	468	organic material	
92.7188	5030	481		
95.7813	5030	464		
98.125	4526	464		
101.0938	4750	483		
104.1876	5171	464		

SCAPS Detailed Data

Push Id CHRFF03.CSV
Date Started: Wednesday, July 1
Time Started 1:44 PM

North Coordinate (Feet): 372377.75
East Coordinate (Feet): 2319061
Elevation (feet): 12.9122
Fluorescent Threshold (counts): 7157
Pre Quinine Sulfate (Counts): 252512
Post Quinine Sulfate (Counts): 222685

Depth (feet)	Normalized Intensity	Peak Wavelength (nm)	Soil Classification based on CPT Data	Confirmation sample result
2.0313	35059	447	organic material	
4.125	5631	470	clay	
7.1563	4316	487		
10.1875	3917	502		
11.75	4482	483		
14.7187	13047	430		
17.75	7782	508		
19.7187	5595	508		
22.6561	8106	514		
25.7499	10076	504		
28.8124	9373	504	sandy silt to silty clay	
31.8749	14550	504		
34.8437	11747	502	clay	
37.8749	9640	502		
40.9374	13758	500	sandy silt to silty clay	
43.9374	14006	506	silty sand to sandy silt	
46.9999	8662	504		
50.1249	15106	485	silty sand to sandy silt	
53.1249	11978	483	sand to silty sand	
56.1561	13181	487	silty sand to sandy silt	
59.2811	12641	483	sandy silt to silty clay	
62.2811	11478	487	clay	
65.2498	9010	493		
68.3435	8059	504	organic material	
71.3748	9895	487		
74.4061	3064	462	clay	
77.3748	1960	481		
80.4998	2450	483		
83.5311	2389	498		
86.4685	4073	485		
89.5623	2504	476	clay	
92.5623	1428	485		
95.5623	1717	493		
98.5311	1338	529		
101.531	1428	510		
104.531	1200	508		

SCAPS Detailed Data

Push Id	CHRFF04.CSV
Date Started:	Wednesday, July 1
Time Started	2:29 PM

North Coordinate (Feet):	372176.4
East Coordinate (Feet):	2319234.9
Elevation (feet):	14.0105
Fluorescent Threshold (counts):	7157
Pre Quinine Sulfate (Counts):	245188
Post Quinine Sulfate (Counts):	198036

Depth (feet)	Normalized Intensity	Peak Wavelength (nm)	Soil Classification based on CPT Data	Confirmation sample result
1.9687	11159	447	organic material	
4.9374	10653	460	clay	
7.9687	5819	487	silty clay to clay	
10.3124	3181	500	clayey silt to silty clay	
13.25	3881	487		
16.2187	8174	502	sandy silt to silty clay	
18.0624	15200	510		
21.0312	14028	502	clayey silt to silty clay	
24.1562	9446	510	very stiff fine grained	
27.125	13684	504	silty clay to clay	
30.1875	11780	514		
33.2812	12231	504	clay	
36.2188	11084	510		
39.3125	6822	506	silty clay to clay	
42.3438	6794	506	silty sand to sandy silt	
45.375	3748	517		
48.4062	3170	502	clay	
51.4375	5378	485	silty clay to clay	
54.4375	5344	487	clay	
56.9688	13788	502	organic material	False Positive by TPH 418.1 and 1.02 ppm by 8015
58.1562	13777	502	clay	False Positive by TPH 418.1 and 1.02 ppm by 8015
61.1562	15069	502		False Positive by TPH 418.1 and 1.02 ppm by 8015
64.2499	12607	500	organic material	False Positive by TPH 418.1 and 1.02 ppm by 8015
67.3124	10077	495	clay	False Positive by TPH 418.1 and 1.02 ppm by 8015
70.3436	11006	502		False Positive by TPH 418.1 and 1.02 ppm by 8015
73.3124	15034	483		
76.1562	16389	504		
78.0312	13306	489		
80.9999	13722	498		
83.9374	13605	491	organic material	
87.0624	12236	493		
88.0936	9780	487		
91.0312	6740	487		
94.0624	7731	487		
97.0936	8765	487		
100.1249	7870	483		

Data based on information collected by SCAPS on the dates and times specified. Data is intrepreted using methods described in the to project report.

SCAPS Detailed Data

Push Id CHRFF05.CSV
Date Started: Friday, July 14, 199
Time Started 9:32 AM

North Coordinate (Feet): 373013.8
East Coordinate (Feet): 2319263.6
Elevation (feet): 11.1981
Fluorescent Threshold (counts): 7157
Pre Quinine Sulfate (Counts): 201348
Post Quinine Sulfate (Counts): 207848

Depth (feet)	Normalized Intensity	Peak Wavelength (nm)	Soil Classification based on CPT Data	Confirmation sample result
1.9375	11367	586	sand	
5	9427	487	gravely sand to sand	
8	14877	483	sand	
11	12939	466	silty sand to sandy silt	
13.9375	2580	466	very stiff fine grained	
16.9375	2173	498		
18.125	15897	466		
21.0312	7705	460	clay	
23.9688	8104	460	silty clay to clay	
27.0312	5382	455		
30.0625	6628	485	sandy silt to silty clay	
33.0938	5710	466	clay	
36.1875	4829	470		
39.1875	1948	508		
42.1875	2352	491		
45.125	2410	487		
48.1562	2024	487	clay	
51.0938	2212	506		
54.1875	2112	508		
57.2188	1824	502		
58.4687	2047	491	silty clay to clay	
61.4687	2150	521	clayey silt to silty clay	
64.4375	2320	495	silty sand to sandy silt	
67.5	2216	510	sand to silty sand	
70.5	2400	502		
73.5625	2230	495		
76.5937	1863	487	silty sand to sandy silt	
79.6875	1935	489	sandy silt to silty clay	
82.6563	1340	483	clayey silt to silty clay	
85.6563	1362	485		
88.7813	1437	457	clay	
91.75	1533	487		
94.875	1473	483		
97.0625	1865	474	clayey silt to silty clay	
100.0313	2312	462		
103.0625	3189	462	sandy silt to silty clay	

Data based on information collected by SCAPS on the dates and times specified. Data is intrepreted using methods described in the to project report.

SCAPS Detailed Data

Push Id CHRFF05.CSV
Date Started: Friday, July 14, 199
Time Started 9:32 AM

North Coordinate (Feet): 373013.8
East Coordinate (Feet): 2319263.6
Elevation (feet): 11.1981
Fluorescent Threshold (counts): 7157
Pre Quinine Sulfate (Counts): 201348
Post Quinine Sulfate (Counts): 207848

Depth (feet)	Normalized Intensity	Peak Wavelength (nm)	Soil Classification based on CPT Data	Confirmation sample result
215.6562	4488	485	clay	
218.6249	5313	483		
221.6249	5883	485		
224.6249	5063	489	clay	
227.7186	3975	485		
230.8124	3789	483		Not-Detected by TPH 418.1 and by 8015
233.8749	2384	485		Not-Detected by TPH 418.1 and by 8015
236.9062	1553	510		Not-Detected by TPH 418.1 and by 8015
239.9062	5162	500		Not-Detected by TPH 418.1 and by 8015
242.9374	6542	502		Not-Detected by TPH 418.1 and by 8015
245.9374	6225	508	clay	Not-Detected by TPH 418.1 and by 8015
249.0312	8139	502		False Positive by TPH 418.1 and by 8015
252.0312	9113	508		
255.0624	9337	506		
258.1248	10861	504		
261.1561	8968	504		
264.1874	9726	508		
267.2498	11882	500	silty clay to clay	
270.3124	12743	500		
273.4061	12199	502	sandy silt to silty clay	
276.4061	13179	508		
279.4374	13825	498		
282.4998	13460	514	silty clay to clay	
285.5936	13130	487	clay	
288.5936	10423	502		
291.6561	11093	493		
294.0624	12124	493		

SCAPS Detailed Data

Push Id CHRFF06.CSV
Date Started: Friday, July 14, 199
Time Started 4:35 PM

North Coordinate (Feet): 372808.53
East Coordinate (Feet): 2319093.7
Elevation (feet): 10.8318
Fluorescent Threshold (counts): 7157
Pre Quinine Sulfate (Counts): 206571
Post Quinine Sulfate (Counts): 236558

Depth (feet)	Normalized Intensity	Peak Wavelength (nm)	Soil Classification based on CPT Data	Confirmation sample result
109.75	8889	470	clay	
112.875	10710	470		
115.9062	9874	466		
119.0624	9083	470		
122.0937	8755	470		
125.1562	6584	464	organic material	
128.1874	6075	476	clay	
131.2812	6322	468		
134.3124	6140	460		
137.2499	5272	464		
140.2812	5173	470		
143.4375	4291	470		
146.4687	6035	479		
149.5312	5769	481		
152.5312	7788	464	silty sand to sandy silt	
155.5312	6100	466	clayey silt to silty clay	
158.5625	2405	460	clay	
161.6249	1655	502		
164.6562	3353	485	clay	
167.7187	3300	489		
170.7499	3714	491		
173.8125	2169	487		
176.8749	1834	483	clay	
179.9374	3133	502		
182.9062	4258	504		
185.9999	7088	487	clayey silt to silty clay	
189.0312	8897	466	clay	
192.0312	3882	493		
195.0312	5005	485		
197.9999	4117	487		
201.0312	3721	491		
204.0312	2410	498	clay	
207.0312	2297	504		
210.1249	2261	491		
213.1562	1794	485		
214.1874	1510	500		

Data based on information collected by SCAPS on the dates and times specified. Data is intrepreted using methods described in the to project report.

SCAPS Detailed Data

Push Id CHRFF08.CSV
Date Started: Wednesday, July 1
Time Started 6:35 PM

North Coordinate (Feet): 372686.35
East Coordinate (Feet): 2320284
Elevation (feet): 8.0784
Fluorescent Threshold (counts): 7157
Pre Quinine Sulfate (Counts): 228508
Post Quinine Sulfate (Counts): 220296

Depth (feet)	Normalized Intensity	Peak Wavelength (nm)	Soil Classification based on CPT Data	Confirmation sample result
98.5313	4205	464	organic material	
101.5	2981	455		
104.5625	3079	466		
107.6563	4005	468		
110.6875	4560	466		
113.7813	4005	466		
116.7813	5663	464		
118.0937	4720	483		
119.6875	3814	474		
122.7187	3348	464	organic material	
125.5	3221	472		
128.4687	3506	472	organic material	
131.5625	3956	485		
134.5313	3782	476		
137.5937	3544	464		
140.5625	3931	466		
143.7187	3853	474		
146.7813	4565	466		
149.8125	4520	466		
152.8437	5429	481		
155.9375	7662	487		
158.9687	8641	485		
162	9310	483		
165.0625	10429	487		
168.125	10299	483	organic material	
171.1875	10609	483		
174.1875	10539	489		
175.6875	10204	483	organic material	
178	10419	487		

SCAPS Detailed Data

Push Id	**CHRFF10.CSV**
Date Started:	Wednesday, July 1
Time Started	7:36 PM

North Coordinate (Feet):	372406.66
East Coordinate (Feet):	2319895.3
Elevation (feet):	6.6798
Fluorescent Threshold (counts):	7157
Pre Quinine Sulfate (Counts):	224567
Post Quinine Sulfate (Counts):	219699

Depth (feet)	Normalized Intensity	Peak Wavelength (nm)	Soil Classification based on CPT Data	Confirmation sample result
1.9687	3675	531	organic material	
5	5429	519		
7.9687	18183	464		
10.9063	13894	466		
13.9063	13371	462		
16.125	8566	462		
19.125	9368	464		
22.0937	10387	462		
25.1562	9165	455	clay	
28.0937	10661	466	clayey silt to silty clay	
31.0937	11853	460		
34.0937	8580	466	silty sand to sandy silt	
37.1562	6035	462	sandy silt to silty clay	
40.1562	6123	460	clay	
43.125	4450	455	silty clay to clay	
46.1874	5614	466	silty sand to sandy silt	
49.1874	5406	466		
52.125	3683	457		
55.1562	5604	466	sandy silt to silty clay	
57.9687	5197	460		
60.9062	5381	466	clay	
63.9062	7116	466		
66.9999	6506	462		
70.0624	5719	464		
71.9999	5590	466		
75.0312	5913	464		
78.1249	5883	464		
81.1562	4348	483	clay	
84.1874	3908	487		
87.2812	3942	498	clay	
90.3749	3834	483		
93.4062	3834	466		
96.4374	3793	483		
97.4686	3819	504		
100.4062	3782	485		
103.5312	3777	483		

SCAPS Detailed Data

Push Id CHRFF10.CSV
Date Started: Wednesday, July 1
Time Started 7:36 PM

North Coordinate (Feet): 372406.66
East Coordinate (Feet): 2319895.3
Elevation (feet): 6.6798
Fluorescent Threshold (counts): 7157
Pre Quinine Sulfate (Counts): 224567
Post Quinine Sulfate (Counts): 219699

Depth (feet)	Normalized Intensity	Peak Wavelength (nm)	Soil Classification based on CPT Data	Confirmation sample result
212.4686	9558	491	organic material	
215.2811	9030	502		

SCAPS Detailed Data

Push Id CHRFF11.CSV
Date Started: Thursday, July 13,
Time Started 8:42 AM

North Coordinate (Feet): 372594.32
East Coordinate (Feet): 2319978.7
Elevation (feet): 6.0474
Fluorescent Threshold (counts): 7157
Pre Quinine Sulfate (Counts): 223828
Post Quinine Sulfate (Counts): 209008

Depth (feet)	Normalized Intensity	Peak Wavelength (nm)	Soil Classification based on CPT Data	Confirmation sample result
106.4687	9021	481	sand to silty sand	
109.4687	9352	491		
112.3437	8022	485	sand to silty sand	
115.4062	5226	481		
118.3749	9197	489		
121.3749	26698	508		False Positive by TPH 418.1 and 0.86 ppm by 8015
124.4062	39685	504		False Positive by TPH 418.1 and 0.86 ppm by 8015
127.4375	45771	504	sand to silty sand	False Positive by TPH 418.1 and 0.86 ppm by 8015
130.5937	33236	498		False Positive by TPH 418.1 and 0.86 ppm by 8015
133.2499	17865	491		False Positive by TPH 418.1 and 0.86 ppm by 8015
136.1875	25873	500		False Positive by TPH 418.1 and 0.86 ppm by 8015
137.7812	26933	500		False Positive by TPH 418.1 and 0.86 ppm by 8015
140.7499	13060	487	silty sand to sandy silt	False Positive by TPH 418.1 and 0.86 ppm by 8015
143.7499	14914	504		
146.7186	14853	508		
149.6874	11194	500		
152.6562	15241	502		
155.6562	12525	502	sandy silt to silty clay	
158.6874	10701	504		
161.6249	13182	495	silty sand to sandy silt	
164.5936	15438	466		
167.5936	8268	491	clay	
170.4999	5032	468		
173.4374	3241	468	organic material	
176.4999	3250	462		
178.8749	4351	466		
181.8749	3290	483		
184.9062	3696	483		
187.9062	2967	468		
190.9686	3694	489		
193.9686	2548	466		
196.9999	3143	487	organic material	
198.9062	3089	487		
201.8749	2893	464		
204.9374	4489	466		
207.9374	5389	483		

SCAPS Detailed Data

Push Id	CHRFF12.CSV
Date Started:	Thursday, July 13,
Time Started	10:15 AM

North Coordinate (Feet):	372529.32
East Coordinate (Feet):	2319992.9
Elevation (feet):	6.0784
Fluorescent Threshold (counts):	7157
Pre Quinine Sulfate (Counts):	195728
Post Quinine Sulfate (Counts):	205873

Depth (feet)	Normalized Intensity	Peak Wavelength (nm)	Soil Classification based on CPT Data	Confirmation sample result
1.9688	10140	578	organic material	
4.625	6187	489		
6.9376	6427	472		
9.875	5717	470		
12.7813	10433	487		
14.4063	13770	485		
16	11402	481		
18.7813	8009	487		
20.25	7838	504		
22.5313	8627	504	clay	
25.4376	10147	510	organic material	
28.4376	10497	508	clay	
31.4376	18093	519		
34.375	14689	512		
37.3438	10241	512		
39.6876	11441	512		
42.625	14383	514	sand	
45.5626	12397	514		
48.5938	16184	462	silty sand to sandy silt	
51.5	13429	489		
54.4063	6216	538		
57.3438	5566	531	silty clay to clay	
60.375	9780	483		
63.2187	18795	483	sand	
66.1874	10686	487		
69.1874	11713	508	sand to silty sand	
72.1562	10134	510	clayey silt to silty clay	
75.25	8551	512		
77.375	8193	504		
80.375	6219	514	clay	
83.3437	5073	472		
86.25	4617	464		
89.25	5570	470	clayey silt to silty clay	
92.25	5195	468	clay	
95.1874	3868	483	clayey silt to silty clay	
98.2187	3698	504	silty clay to clay	

Data based on information collected by SCAPS on the dates and times specified. Data is intrepreted using methods described in the to project report.

SCAPS Detailed Data

Push Id	CHRFF12.CSV
Date Started:	Thursday, July 13,
Time Started	10:15 AM

North Coordinate (Feet):	372529.32
East Coordinate (Feet):	2319992.9
Elevation (feet):	6.0784
Fluorescent Threshold (counts):	7157
Pre Quinine Sulfate (Counts):	195728
Post Quinine Sulfate (Counts):	205873

Depth (feet)	Normalized Intensity	Peak Wavelength (nm)	Soil Classification based on CPT Data	Confirmation sample result
205.9064	2917	460		
208.9064	2118	453	silty clay to clay	
212.0002	2736	462	clayey silt to silty clay	
215.0314	3311	481	silty sand to sandy silt	
218.0314	4363	460	clay	
221.0627	4263	462		
224.0002	6414	466		
226.969	5358	455		
229.9377	5127	464		
232.969	4698	474		
235.969	9911	483	clayey silt to silty clay	
239.0627	9273	483	clay	
242.0314	5358	472		
245.0627	3913	457		
248.094	5118	460	clay	
251.1564	4780	466		
254.1877	3686	460		
257.219	3699	449		

SCAPS Detailed Data

Push Id CHRFF13.CSV
Date Started: Thursday, July 13,
Time Started 11:05 AM

North Coordinate (Feet): 372607.04
East Coordinate (Feet): 2319971.5
Elevation (feet): 6.1386
Fluorescent Threshold (counts): 7157
Pre Quinine Sulfate (Counts): 216458
Post Quinine Sulfate (Counts): 244806

Depth (feet)	Normalized Intensity	Peak Wavelength (nm)	Soil Classification based on CPT Data	Confirmation sample result
104.9063	4556	470	sand to silty sand	
107.9063	3846	479		
110.9063	4036	483		
113.9376	7532	483		
116.2501	12003	487	silty sand to sandy silt	
119.1876	16669	502		
122.0313	17689	502		
124.9689	39396	502	silty sand to sandy silt	
127.9376	48675	487		
130.8439	52017	483		
133.8439	44269	500	sand to silty sand	
135.5313	44588	504		
138.5001	46922	504	sand	
141.4689	18492	464	clay	
144.4377	5398	464	organic material	
147.4377	4138	464	clay	
150.4689	3719	464		
153.5939	4120	483		
156.7189	4358	470		
159.7189	5251	466		
162.6877	3938	464		
165.6564	3307	483	clay	
168.6564	4153	464		
171.6251	3001	464		
174.6251	4121	460		
176.1877	4606	464		

SCAPS Detailed Data

Push Id CHRFF15.CSV
Date Started: Thursday, July 13,
Time Started 11:05 AM

North Coordinate (Feet): 372172.04
East Coordinate (Feet): 2319497.5
Elevation (feet): 14.5649
Fluorescent Threshold (counts): 7157
Pre Quinine Sulfate (Counts): 217443
Post Quinine Sulfate (Counts): 207390

Depth (feet)	Normalized Intensity	Peak Wavelength (nm)	Soil Classification based on CPT Data	Confirmation sample result
101.9376	6623	483	sand to silty sand	
104.9063	4535	470		
107.9063	3829	479		
110.9063	4017	483		
113.9376	7498	483		
116.2501	11948	487	silty sand to sandy silt	
119.1876	16593	502		
122.0313	17609	502		
124.9689	39218	502	silty sand to sandy silt	
127.9376	48455	487		
130.8439	51782	483		
133.8439	44068	500	sand to silty sand	
135.5313	44386	504		
138.5001	46709	504	sand	
141.4689	18408	464	clay	
144.4377	5374	464	organic material	
147.4377	4119	464	clay	
150.4689	3702	464		
153.5939	4101	483		
156.7189	4339	470		
159.7189	5227	466		
162.6877	3921	464		
165.6564	3292	483	clay	
168.6564	4134	464		
171.6251	2987	464		
174.6251	4102	460		
176.1877	4585	464		

SCAPS Detailed Data

Push Id	**CHRFF17.CSV**
Date Started:	Thursday, July 13,
Time Started	5:19 PM

North Coordinate (Feet):	372232.3
East Coordinate (Feet):	2319621.5
Elevation (feet):	13.6394
Fluorescent Threshold (counts):	7157
Pre Quinine Sulfate (Counts):	238899
Post Quinine Sulfate (Counts):	225085

Depth (feet)	Normalized Intensity	Peak Wavelength (nm)	Soil Classification based on CPT Data	Confirmation sample result
2	41764	455	clay	
5	4240	483	sandy silt to silty clay	
7.9375	7072	510		
10.375	6473	481	sand to silty sand	
13.3125	6571	508	silty sand to sandy silt	
16.3437	5509	525		
18.5937	3826	500	sandy silt to silty clay	
21.6561	3259	508	very stiff fine grained	
24.6561	1310	495	clay	
27.6874	1376	514		
30.7187	1626	500		
33.6874	1487	495		
36.7499	6140	487		
39.7811	5043	483		
42.8124	7044	485		
45.7187	5404	487		
48.7499	7222	483	clay	
51.8124	5267	472		
54.8437	3230	476		
57.8437	6220	487	sandy silt to silty clay	
59.3124	9062	485		
62.3124	7272	483	clay	
65.2811	7703	489	sandy silt to silty clay	
68.3124	9024	485	clay	
71.3749	6466	466		
74.4374	5967	481		
77.4374	10565	487		
80.4999	11004	485		
83.5624	10176	483		
86.5937	8925	487		
89.6249	8154	487	clay	
92.5937	4864	487		
95.6561	8208	487		
98.6874	9866	487	clayey silt to silty clay	
101.6874	10766	489		
104.6249	12081	487	sandy silt to silty clay	

Data based on information collected by SCAPS on the dates and times specified. Data is intrepreted using methods described in the to project report.

SCAPS Detailed Data

Push Id	CHRFF18.CSV
Date Started:	Thursday, July 13,
Time Started	6:02 PM

North Coordinate (Feet):	372203.71
East Coordinate (Feet):	2319635.7
Elevation (feet):	13.4058
Fluorescent Threshold (counts):	7157
Pre Quinine Sulfate (Counts):	230695
Post Quinine Sulfate (Counts):	202774

Depth (feet)	Normalized Intensity	Peak Wavelength (nm)	Soil Classification based on CPT Data	Confirmation sample result
2.0312	17826	443	organic material	
5.0625	6067	470	silty clay to clay	
8.125	6267	493	clay	
10.5	3908	502	sandy silt to silty clay	
13.5	5049	504	sand to silty sand	
16.5	3555	508	silty sand to sandy silt	
19.5	3328	506	clayey silt to silty clay	
22.4687	4145	508	very stiff fine grained	
25.4374	7609	508	clay	
28.4062	8379	502		
31.4062	6888	504		
34.0937	4015	506	silty sand to sandy silt	
37.0312	5636	510		
40.0624	4240	504	sandy silt to silty clay	
43.0937	3010	485	silty sand to sandy silt	
46.125	3137	502	clayey silt to silty clay	
49.2812	6454	500	clay	
52.375	12798	493	silty sand to sandy silt	
55.375	8262	483	clay	
58.4062	6977	483		
59.75	5967	487		
62.7499	6731	487	organic material	
65.6874	10339	487		
68.7499	12313	502		
71.8749	12134	487		
74.8437	12158	487	clay	
77.8124	5193	479	organic material	
80.8749	5327	479	clay	
83.8749	3346	468	silty clay to clay	
86.9374	3580	483		
89.9999	3477	483	sandy silt to silty clay	
92.9999	5120	470		
95.9999	6366	474	silty sand to sandy silt	
98.7187	5118	479	sandy silt to silty clay	
100.8124	6603	483	clayey silt to silty clay	
103.75	7558	483	clay	

Data based on information collected by SCAPS on the dates and times specified. Data is intrepreted using methods described in the to project report.

SCAPS Detailed Data

Push Id	CHRFF19.CSV
Date Started:	Saturday, July 15,
Time Started	10:38 AM

North Coordinate (Feet):	372759.26
East Coordinate (Feet):	2319887.5
Elevation (feet):	7.7328
Fluorescent Threshold (counts):	7157
Pre Quinine Sulfate (Counts):	221050
Post Quinine Sulfate (Counts):	224137

Depth (feet)	Normalized Intensity	Peak Wavelength (nm)	Soil Classification based on CPT Data	Confirmation sample result
1.9374	60080	592	organic material	
4.9061	8815	582		
7.8437	10215	491		
10.8124	21543	580		
13.3437	4772	485		
16.2812	5994	476		
19.2187	4029	500		
22.1562	4097	504	organic material	
25.0937	4415	487		
27.9375	2858	466		
30.9062	2491	470		
33.9062	3411	453		
36.8437	2132	468		
39.7187	3157	487		
42.1562	3724	474	clay	
44.3125	4591	523		
47.2187	5960	538	organic material	
50.1562	7590	525		
53.1562	5227	525	clayey silt to silty clay	
56.1562	5200	514	sandy silt to silty clay	
59.1562	5366	538		
62.1562	6169	538	sand to silty sand	
65.0937	5556	510		
68.0625	10802	483		
71.0312	13119	487	very stiff fine grained	
73.9687	18636	487		
76.7812	22320	485	sandy silt to silty clay	
79.7499	23140	487	very stiff fine grained	
82.6562	18246	485	sandy silt to silty clay	
85.5625	9292	485	clayey silt to silty clay	
88.4375	14715	483	sandy silt to silty clay	
91.0625	24067	504	silty sand to sandy silt	
93.5	23749	491		
96.4375	21949	504		
99.4063	26519	504		
102.4063	26810	504	sand to silty sand	

Data based on information collected by SCAPS on the dates and times specified. Data is intrepreted using methods described in the to project report.

SCAPS Detailed Data

Push Id CHRFF20.CSV
Date Started: Saturday, July 15,
Time Started 11:51 AM

North Coordinate (Feet): 373020.88
East Coordinate (Feet): 2319676.3
Elevation (feet): 9.862
Fluorescent Threshold (counts): 7157
Pre Quinine Sulfate (Counts): 227220
Post Quinine Sulfate (Counts): 229836

Depth (feet)	Normalized Intensity	Peak Wavelength (nm)	Soil Classification based on CPT Data	Confirmation sample result
1.9374	6349	586	organic material	
4.9062	7059	485		
7.875	5339	485		
10.8124	4561	476	clay	
13.75	5555	487	organic material	
16.375	4987	504	clay	
19.3438	5145	510		
22.2813	5138	508	organic material	
25.2188	4680	487	clay	
27.625	6185	504		
30.5938	8216	491		
31.7188	7631	508	clay	
34.4688	7644	493		
35.8751	7800	495		
37.4377	1424	487		
38.9689	9635	502		
41.4065	11295	487		
44.3439	8477	500	silty sand to sandy silt	
46.1565	6734	504	sand	
49.0627	5545	498		
52.0315	6744	485	sand to silty sand	
55.0939	7818	481	sand	
57.6877	10832	504		
60.6877	20890	508	gravely sand to sand	
63.6877	19284	506		
66.7814	14376	485	very stiff fine grained	
69.7502	8534	464		
72.7814	7195	466	clay	
75.7814	6437	464		
78.7502	4621	460		
81.6564	6146	481		
84.7814	6819	464		
87.8127	3929	462	clay	
90.8127	3964	464		
93.7814	4870	462		
96.6564	4151	466		

Data based on information collected by SCAPS on the dates and times specified. Data is intrepreted using methods described in the to project report.

SCAPS Detailed Data

Push Id CHRFF21.CSV
Date Started: Sunday, July 16, 1
Time Started 9:53 AM

North Coordinate (Feet): 372537.74
East Coordinate (Feet): 2320120.0
Elevation (feet): 6.0926
Fluorescent Threshold (counts): 7157
Pre Quinine Sulfate (Counts): 224475
Post Quinine Sulfate (Counts): 199893

Depth (feet)	Normalized Intensity	Peak Wavelength (nm)	Soil Classification based on CPT Data	Confirmation sample result
0.3437	1067	586		
1.7187	3690	590	gravely sand to sand	
3.1874	12493	462		
6.1874	6076	485		
9.125	5321	500		
12.1562	9077	504	sand to silty sand	
15.0937	5525	502		
17.9374	5912	508	sand	
19.2186	9808	504		
20.7498	10381	504		
23.4061	10399	510		
25.7186	12443	502	gravely sand to sand	
28.6561	10250	502		
31.6248	10532	512		
34.5936	9505	504	sand	
37.5936	8983	489		
40.5311	9416	487	sand to clayey sand	
43.5311	9046	504	sand	
46.4998	7942	508		
49.4686	7003	512	sand	
52.4998	6223	519	sand to clayey sand	
55.4374	4538	538		
58.4374	6195	529	very stiff fine grained	
60.1249	5795	502		
63.0624	5238	504		
66.0311	4138	498	silty sand to sandy silt	
68.9374	3610	491		
71.9374	3615	476	sand to silty sand	
75.0624	1674	460	silty sand to sandy silt	
78.0937	3113	510		
81.1561	4352	487	sand to silty sand	
84.1561	3376	485	sand	
87.1874	3589	498		
90.2499	4763	472		
93.3124	5558	483		
96.4999	13048	500		

Data based on information collected by SCAPS on the dates and times specified. Data is intrepreted using methods described in the to project report.

SCAPS Detailed Data

Push Id CHRFF22.CSV
Date Started: Saturday, July 15,
Time Started 12:39 PM

North Coordinate (Feet): 372404.07
East Coordinate (Feet): 2320050.9
Elevation (feet): 505384
Fluorescent Threshold (counts): 7157
Pre Quinine Sulfate (Counts): 220291
Post Quinine Sulfate (Counts): 235178

Depth (feet)	Normalized Intensity	Peak Wavelength (nm)	Soil Classification based on CPT Data	Confirmation sample result
1.5	8112	525		
4.5313	9543	460	gravely sand to sand	
7.5313	15831	455	sand to silty sand	
10.5938	12882	462	sandy silt to silty clay	
13.625	19673	462		
16.6563	10405	472	silty clay to clay	
19.625	7308	487	sandy silt to silty clay	Not Detected by 418.1 and 8015
22.6563	41612	460		False Positive by 418.1 and 8015
25.7813	9635	483		False Positive by 418.1 and 8015
28.8126	9461	468		False Positive by 418.1 and 8015
31.8438	14642	487	sandy silt to silty clay	False Positive by 418.1 and 8015
34.875	11601	466	clay	False Positive by 418.1 and 8015
37.875	5308	476		Not Detected by 418.1 and 8015
40.9376	11317	466	clayey silt to silty clay	
44	12103	481	sandy silt to silty clay	
46.9688	15073	483	clayey silt to silty clay	
50.0626	12949	483	silty clay to clay	
52.1876	11279	483		
55.2501	21687	483	clay	
58.2189	22153	483	clayey silt to silty clay	
61.2813	20582	483	sandy silt to silty clay	False Positive by 418.1 and 16.9 ppm by 8015
64.3439	40302	487	clayey silt to silty clay	False Positive by 418.1 and 16.9 ppm by 8015
67.3126	40954	483		False Positive by 418.1 and 16.9 ppm by 8015
70.3751	28489	481	sandy silt to silty clay	False Positive by 418.1 and 16.9 ppm by 8015
72.9376	18706	487	silty sand to sandy silt	False Positive by 418.1 and 16.9 ppm by 8015
75.9063	21948	481	sandy silt to silty clay	False Positive by 418.1 and 16.9 ppm by 8015
78.9063	13613	470		
81.9376	40876	485	clayey silt to silty clay	
85.0001	36600	487		
88.0313	8076	487	clay	
91.0626	13374	483		
92.9689	11837	483		
95.9377	6913	466		
98.9689	5673	487	clayey silt to silty clay	
102.0315	13355	466	clay	
105.0939	16608	472		

Data based on information collected by SCAPS on the dates and times specified. Data is intrepreted using methods described in the to project report.

SCAPS Detailed Data

Push Id CHRFF23.CSV
Date Started: Saturday, July 15,
Time Started 2:58 PM

North Coordinate (Feet): 372299.79
East Coordinate (Feet): 2320101.9
Elevation (feet): 5.4288
Fluorescent Threshold (counts): 7157
Pre Quinine Sulfate (Counts): 200246
Post Quinine Sulfate (Counts): 210632

Depth (feet)	Normalized Intensity	Peak Wavelength (nm)	Soil Classification based on CPT Data	Confirmation sample result
2	15566	462	gravely sand to sand	
5.0312	17200	500	sand	
8.125	11759	457	sandy silt to silty clay	
11.125	3020	489	clay	
14.1562	2569	512	clayey silt to silty clay	
17.1874	5929	485	clay	
18.2812	23640	449		
21.3438	5078	470		
24.3438	4840	468		
27.375	4851	474		
30.4375	3373	466	clay	
33.5	3169	481		
36.5625	3524	470		
39.6875	4911	464		
42.75	4634	464		
45.8125	3545	464		
48.875	4458	470	organic material	
52	4204	466		
55.0625	3855	485		
58.0625	4263	472		
61.0938	4018	462		
64.1564	4238	464		
67.1564	4057	466		
70.2188	4178	487		
73.2188	4274	462		
76.2501	4564	462		
79.3438	5400	464		
82.3751	4063	483		
85.4688	4642	485		
88.5626	4204	468	organic material	
91.5938	4176	466		
94.5938	4892	470		
97.6564	4402	468		
100.6251	4505	470		
103.6251	4677	466		
106.8125	4887	460	organic material	

SCAPS Detailed Data

Push Id CHRFF24.CSV
Date Started: Saturday, July 15,
Time Started 4:28 PM

North Coordinate (Feet): 372342.90
East Coordinate (Feet): 2320084.6
Elevation (feet): 5.6563
Fluorescent Threshold (counts): 7157
Pre Quinine Sulfate (Counts): 214913
Post Quinine Sulfate (Counts): 231056

Depth (feet)	Normalized Intensity	Peak Wavelength (nm)	Soil Classification based on CPT Data	Confirmation sample result
1.8437	21719	455	sand to silty sand	
4.875	11826	466	gravely sand to sand	
7.9063	11622	462	sand	
10.9063	5881	460		
13.9687	3996	483		
16.5	8579	502	silty sand to sandy silt	
19.5	9517	466	very stiff fine grained	
22.4687	4347	472		
25.5	3588	470	clay	
28.5312	3324	483		
31.5937	4561	464		
34.6562	3961	483		
37.6874	4530	476		
40.7187	3999	472		
43.7812	4438	485		
46.8437	4089	483	clay	
49.875	3917	487	organic material	
52.9062	4130	466		
56	3991	464		
59	4066	472		
62.0313	4066	464		
65.0313	4036	483		
68.125	3290	468		
71.1563	3085	468		
74.25	2726	466		
75.4375	2908	468		
78.4687	3655	464		
81.375	3610	464		
84.4375	4141	466		
87.5313	4414	470	organic material	
90.625	4053	468		
93	3647	472		
96.0313	4665	468		
99.1563	4592	485		
102.2187	4004	470		
105.25	4051	481		

Data based on information collected by SCAPS on the dates and times specified. Data is intrepreted using methods described in the to project report.

SCAPS Detailed Data

Push Id CHRFF25.CSV
Date Started: Saturday, July 15,
Time Started 5:02 PM

North Coordinate (Feet): 372382.29
East Coordinate (Feet): 2320067.1
Elevation (feet): 5.2641
Fluorescent Threshold (counts): 7157
Pre Quinine Sulfate (Counts): 229773
Post Quinine Sulfate (Counts): 213168

Depth (feet)	Normalized Intensity	Peak Wavelength (nm)	Soil Classification based on CPT Data	Confirmation sample result
2	4646	483	gravely sand to sand	
5	5368	525		
8.0312	8893	504	sand	
11	22871	462	sand to silty sand	
14.0312	8460	487	silty sand to sandy silt	
17.0625	10544	460	sand to clayey sand	
20.0313	2444	464	silty sand to sandy silt	
23	2858	457		
26.0937	2271	453	clay	
29.1875	3006	445		
32.2187	4467	468	clay	
35.3125	4384	468		
38.3125	4488	472		
41.3437	5194	483		
44.4063	4923	470		
47.4375	3891	479	clay	
50.4375	4713	472		
53.5	3233	464	organic material	
56.5	4751	483		
59.4688	3506	466		
62.4375	4542	464		
65.5	4467	470		
68.5312	3168	462		
71.5312	3268	487		
74.5625	5017	466		
77.7188	4018	468		
80.7812	3516	462		
83.8438	3551	466		
86.9375	4129	466	organic material	
89.9375	3863	481		
93.0312	4735	483		
95.1875	3204	466		
96.3125	3358	472		
99.5312	3620	485		
102.6562	4849	468		
105.6874	3336	483		

Data based on information collected by SCAPS on the dates and times specified. Data is intrepreted using methods described in the to project report.

SCAPS Detailed Data

Push Id CHRFF26.CSV
Date Started: Saturday, July 15,
Time Started 5:40 PM

North Coordinate (Feet): 372397.82
East Coordinate (Feet): 2320083.0
Elevation (feet): 5.5037
Fluorescent Threshold (counts): 7157
Pre Quinine Sulfate (Counts): 223291
Post Quinine Sulfate (Counts): 224003

Depth (feet)	Normalized Intensity	Peak Wavelength (nm)	Soil Classification based on CPT Data	Confirmation sample result
2	5022	504	gravely sand to sand	
5.0625	5065	487		
8.125	8276	510		
11.0938	21186	487	sand	
14.125	21984	460		
17.1875	10640	466	silty sand to sandy silt	
20.1562	18000	462	sandy silt to silty clay	
23.2188	13478	483	sand to silty sand	
26.1875	21244	483		
29.25	21493	483	silty sand to sandy silt	
32.3125	18616	483		
35.3125	19024	470	sandy silt to silty clay	
38.4062	14499	485	silty sand to sandy silt	
41.4375	37491	502		
44.4688	30921	491		
47.4688	17755	485	silty sand to sandy silt	
50.5	28700	483	sandy silt to silty clay	
53.4688	10247	483		
56.4688	13065	464	clayey silt to silty clay	
57.5625	5899	466	silty clay to clay	
60.5001	3916	491	sandy silt to silty clay	
63.5001	3324	455		
66.5625	2525	462	silty sand to sandy silt	
69.5938	2178	447	sand to silty sand	
72.5313	2402	455		
75.5938	2521	449	sand to silty sand	
78.6875	2606	453		
81.7188	3180	447		
84.7501	2484	455		
87.8438	4188	455	silty sand to sandy silt	
90.8751	6459	449	clay	
93.9063	5684	462		
96.7813	4818	476		
99.75	4161	483		
102.7187	4147	470		
105.75	3788	483		

Data based on information collected by SCAPS on the dates and times specified. Data is intrepreted using methods described in the to project report.

SCAPS Detailed Data

Push Id CHRFF28.CSV
Date Started: Saturday, July 15,
Time Started 6:46 PM

North Coordinate (Feet): 372426.53
East Coordinate (Feet): 2320011.8
Elevation (feet): 5.8565
Fluorescent Threshold (counts): 7157
Pre Quinine Sulfate (Counts): 216380
Post Quinine Sulfate (Counts): 223863

Depth (feet)	Normalized Intensity	Peak Wavelength (nm)	Soil Classification based on CPT Data	Confirmation sample result
1.9375	2456	464	sand	
4.9063	7012	540	gravely sand to sand	
7.9687	8064	510		
11	17392	466		
13.9687	29623	466	gravely sand to sand	
16.9063	43753	455	sand	
18.8125	36430	460	sand to silty sand	
21.7813	32235	470		
24.7813	8678	460	sand	
27.7813	6198	464	sand to silty sand	
30.8437	6058	464		
33.8125	13980	462	silty sand to sandy silt	
36.9063	19349	460		
40	27457	464	clay	
43	7429	466		
46.0937	6456	464		
49.1563	5168	474	clay	
52.1875	3322	483	organic material	
55.3125	4317	462	clay	
58.4063	10613	466		
61.3751	9682	462	sandy silt to silty clay	
64.4063	22433	462		
67.4063	26440	462	clay	
70.4063	9221	462	organic material	
73.3751	4704	462		
76.4063	4289	462		
79.4688	4181	462		
82.5938	3848	464		
85.6563	3976	453		
88.7188	4635	464	organic material	
91.8751	4776	457		
94.9063	4148	466		
97.8751	4303	457	organic material	
100.9377	4092	466		
103.9377	4677	460		
107.0001	499	470		

Data based on information collected by SCAPS on the dates and times specified. Data is intrepreted using methods described in the to project report.

SCAPS Detailed Data

Push Id	CHRFF31.CSV
Date Started:	Sunday, July 16, 1
Time Started	11:15 AM

North Coordinate (Feet):	372808.25
East Coordinate (Feet):	2320087.6
Elevation (feet):	6.838
Fluorescent Threshold (counts):	7157
Pre Quinine Sulfate (Counts):	196459
Post Quinine Sulfate (Counts):	196634

Depth (feet)	Normalized Intensity	Peak Wavelength (nm)	Soil Classification based on CPT Data	Confirmation sample result
1.4687	34244	455	gravely sand to sand	
4.125	41082	464		
6.9375	36049	455		
9.9375	37608	460	sand	
12.875	33257	455		
15.8125	32893	466	silty sand to sandy silt	
16.9063	32801	460		
18.875	30193	455		
21.2813	28217	460	clayey silt to silty clay	
23.9063	9993	470	sandy silt to silty clay	
26.6563	8032	466	clayey silt to silty clay	
29.4375	8359	487	clay	
32.1563	4533	485		
34.9687	4104	470		
37.875	4800	483	silty clay to clay	
40.8125	4627	462		
42.75	4535	466		
46.1563	5851	466	clay	
55.3125	6970	462	organic material	
57.5	5467	464	clay	
59.8437	5167	483		
68.0312	4757	468	clay	
70.3437	4724	462		
72.625	5015	464		
92.25	5361	487	organic material	
93.6874	3472	472		
96.25	2434	470		
125.2188	5655	479		
127.75	4755	472		
130.2188	4097	468		
132.5626	4213	462		
134.875	4234	468		

Data based on information collected by SCAPS on the dates and times specified. Data is intrepreted using methods described in the to project report.

DEPARTMENT OF THE NAVY
SOUTHERN DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
P.O. BOX 190010
2155 EAGLE DRIVE
NORTH CHARLESTON, S.C. 29419-9010

5090/11
Code 1877
1 October 1997

Mr. John Litton, P.E.
Director, Division of Hazardous and Infectious Waste Management
Bureau of Land and Waste Management
South Carolina Department of Health and Environmental Control
2600 Bull Street, Columbia, SC 29201

Subj: FINAL ZONE H RFI REPORT ADDENDUM

Dear Mr. Litton:

The purpose of this letter is to submit the Final Zone H RFI Report Addendum. This document supplements the information in the approved Final Zone H RFI Report which was approved by the Department letter, Tapia to Rose, dated 28 August 1997. Specifically, the addendum provides additional data on four sites which required further delineation. Additionally the addendum provides the data for four quarters of groundwater sampling that has occurred since the original Zone H RFI report submittal.

The information contained in the addendum is intended to supplement the RFI report. The information contained in the previously approved RFI report and this addendum are submitted with the intent of satisfying the requirements of condition IV.C.6 of the RCRA Part B permit. Based on the additional information collected, recommendations are included in the addendum for further action on the four sites included. These results and recommendations have been discussed with representatives of the Department (Johnny Tapia).

We request that the Department review and approve the addendum. If you should have any questions, please contact me at (803) 820-5525.

Sincerely,

M. A. Hunt

M.A. HUNT
Environmental Engineer
Installation Restoration III

Encl (1) Zone H RFI Report Addendum

Copy to:
SCDHEC (Paul Bergstrand, Johnny Tapia), USEPA (Jay Bassett, Dan Spariosu)
SOUTHDIV (Reece Batten), CSO Naval Base Charleston (Billy Drawdy, Daryle Fontenot)
SPORTENVDETCHASN (Bobby Dearhart)
ENSAFE (Todd Haverkost)

FINAL RCRA FACILITY INVESTIGATION REPORT FOR ZONE H ADDENDUM NAVAL BASE CHARLESTON

CONTRACT N62467-D0318

Prepared for:

Department of the Navy
Southern Division
Naval Facilities Engineering Command
Charleston, South Carolina

Prepared by:

EnSafe/Allen & Hoshall
5720 Summer Trees Drive, Suite 8
Memphis, Tennessee 38134
(901) 383-9115

The Contractor, EnSafe/Allen & Hoshall, hereby certifies that, to the best of its knowledge and belief, the technical data delivered herewith under Contract No. N62467-89-D-0318 is complete, accurate, and complies with all requirements of the contract.

Date 10/1/97

Signature

Name: Todd Haverkost, P.G.

Title: Task Order Manager

September 30, 1997

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Acronym List

µg	Micrograms per Gram
AOC	Area of Concern
AST	Above Ground Storage Tank
BEQs	Benzo(a)pyrene Equivalents
bgs	Below Ground Surface
CMS	Corrective Measures Study
COPCs	Contaminants of Potential Concern
DET	Environmental Detachment
DPT	Direct Push Technology
ILCR	Incremental Lifetime Excess Cancer Risk
MCLs	Maximum Contaminant Levels
NAVBASE	Naval Base Charleston
NFA	No Further Action
QA/QC	Quality Assurance/Quality Control
RBC	Risk-Based Concentration
RCRA	Resource Conservation and Recovery Information System
RFA	RCRA Facilities Assessment
RFI	RCRA Facilities Investigation
SAA	Satellite Accumulation Area
SCDHEC	South Carolina Department of Health and Environmental Control
SWMU	Solid Waste Management Unit
USEPA	United States Environmental Protection Agency
UXO	Unexploded Ordnance
VOC	Volatile Organic Compounds

Addendum

to the

Final RCRA Facility Investigation Report

for Zone H

Naval Base Charleston

The *Draft Zone H RFI Report*, originally submitted in October 1994, was conditionally approved by the South Carolina Department of Health and Environmental Control (SCDHEC) on August 28, 1997. The process of resolving regulatory comments pertaining to the draft report involved revisions to the document and the collection of additional samples at four sites identified as AOC 659, Diesel Storage at Building 14; AOC 661, Explosives Storage; AOC 665, Pyrotechnic Storage, Building 159; and, AOC 667 and SWMU 138, Vehicle Maintenance Area and Satellite Accumulation Area (SAA). The supplemental sampling event could have further delayed the submittal of the entire Zone H report; however, the Naval Base Charleston (NAVBASE) project team agreed by consensus to proceed with submittal of the report and prepare an addendum when the data for the four sites became available. A summary of the results of all four quarters of groundwater data for the Zone H monitoring wells was also required to be submitted with the addendum as a condition of approval of the report.

The site specific discussions included in this addendum are not intended to replace the information provided in the RFI report, but rather to supplement the report. In combination, the information contained in the report and the addendum are intended to satisfy the requirements of permit condition IV.C.6 of the RCRA permit. Some information presented in the report is duplicated in this addendum to provide the reader with historical information essential to understanding the chain of events to date. Each site specific section provides information regarding the site's description and history, reason for data collection, type and location of sample collection, results of sample analysis, and conclusions with recommendation for no further action (NFA) or inclusion in the corrective measures study (CMS).

1.0 AOC 659, DIESEL STORAGE, BUILDING 14

1.1 Site Description and RFI History

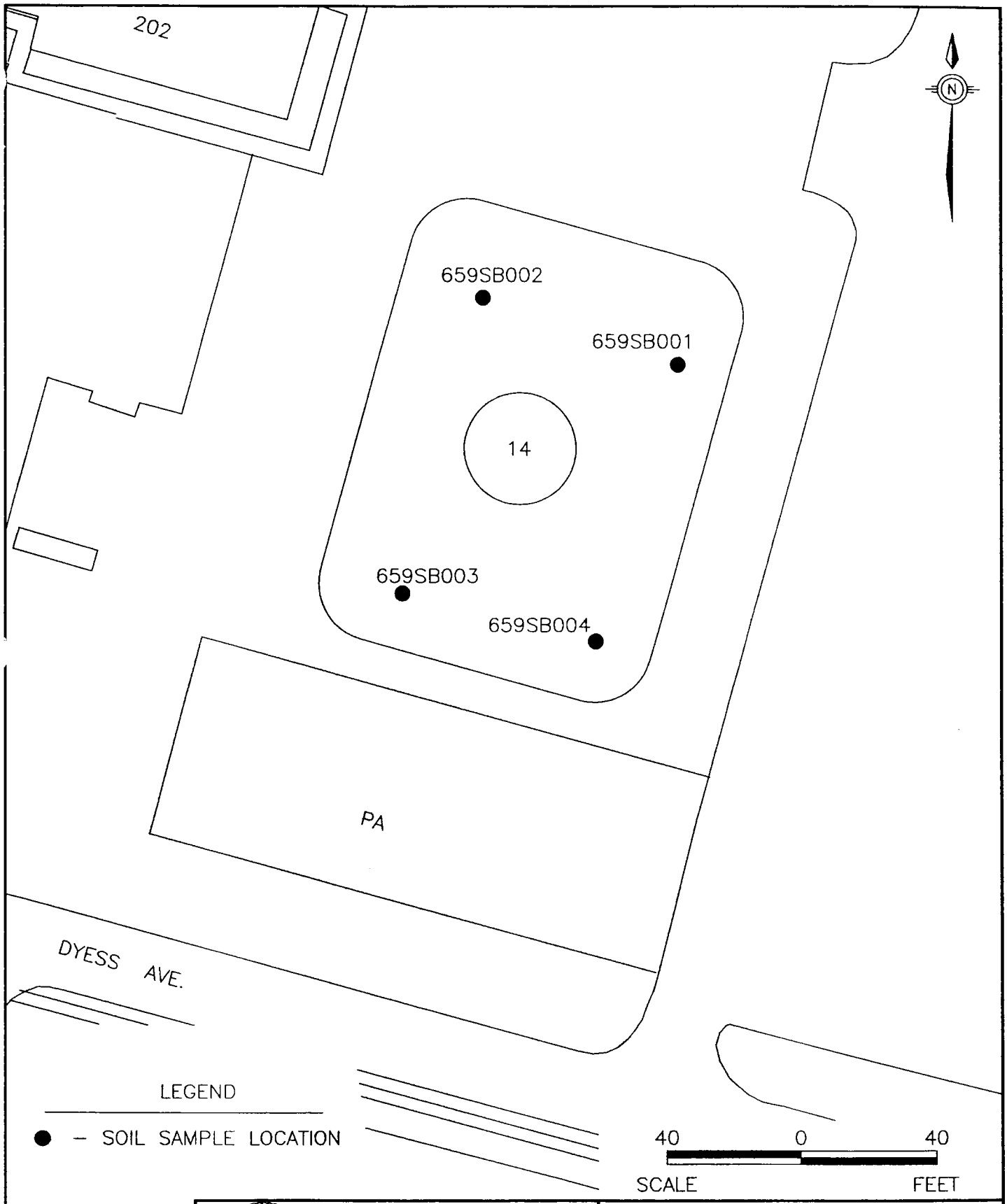
AOC 659 is the former site of a 30,000-gallon steel above ground storage tank (AST) used to store diesel fuel from 1958 to 1990. The tank location, between Hobson and Dyess Avenues, was surrounded by a 5-foot-high earthen berm. The tank was removed by the Charleston Environmental Detachment (DET) in February 1997; the closure will be described in a report prepared by the DET.

Section 4.14 of the Zone H RFI Report describes the initial RFI activities during which 4 soil borings were installed around the AST with the intent of determining whether a release from the tank had occurred. The complete set of analytical data from the initial AOC 659 sampling event is provided in Appendix A. Figure A.1.1 identifies the sample locations from the initial sampling event. A formal baseline risk assessment was not performed at the site because no contaminants of potential concern (COPCs) were identified during the risk screening process. This information is summarized in Section 6.2.10 of the *Zone H RFI Report*.

As per the *Final Zone H RFI Work Plan*, the initial scope of work did not include groundwater sampling. However, following review of the July 5, 1996, draft of the RFI report, concerns were raised by members of the project team that two methylene chloride detections (264 μg/kg and 328 μg/kg) were reported in subsurface soil at concentrations exceeding the generic soil-to-groundwater screening concentration for methylene chloride (10 μg/kg). The presence of methylene chloride was suspected to be an artifact of the laboratory analysis process; however, a review of the quality assurance/quality control (QA/QC) samples associated with the soil samples was unable to verify that suspicion.

1.2 Investigative Action

The project team agreed by consensus to collect two groundwater screening samples by direct push



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CHARLESTON, S.C.

FIGURE A.1.1
AOC 659
SOIL SAMPLE LOCATION MAP

DWG DATE: 09/25/97 | DWG NAME: 2908FA11

technology (DPT) within the bermed area. Samples were to be analyzed for volatile organic compounds (VOCs) only. Figure A.1.2 identifies the DPT locations. Samples were collected from a depth of approximately 15 feet below ground surface (bgs) which generally corresponds with the top of a marsh clay layer considered to be a confining unit in areas where it is continuous. Samples were submitted to a SCDHEC certified laboratory for volatile organic compound analysis.

1.3 Investigative Results

Analytical results for the samples (659-G-P001-15 and 650-G-P002-15) are included in Appendix A. Upon receipt, the data was subjected to a usability assessment which included a review of holding times, associated blank results, detection limits, etc. The review of the data showed both the trip blank and the method blank to have a detection of acetone at a concentration of 2μg/l. There were no other compounds detected in the blank analyses for the AOC 659 area samples and acetone was not detected in either of the two temporary well samples. No other problems were noted.

No other VOCs, including methylene chloride, were detected in either sample. Benzene was detected in sample 659-G-P001-15 at a concentration of 4 μg/L which is below it's maximum contaminant level of 5 μg/L. Benzene was not detected in soil at any of the four locations where soil was sampled during the initial RFI.

1.4 Conclusions

The concentrations of methylene chloride reported in soil appear to be protective of groundwater since none was detected in either of the groundwater samples. The presence of benzene suggests that a minor petroleum release from the AST or associated piping has occurred. Since corrective action in the form of a tank removal has already been conducted under the petroleum program, further assessment of the benzene contamination appears to be more appropriately handled under that regulatory program as well. This site is recommended for transfer to the UST program.

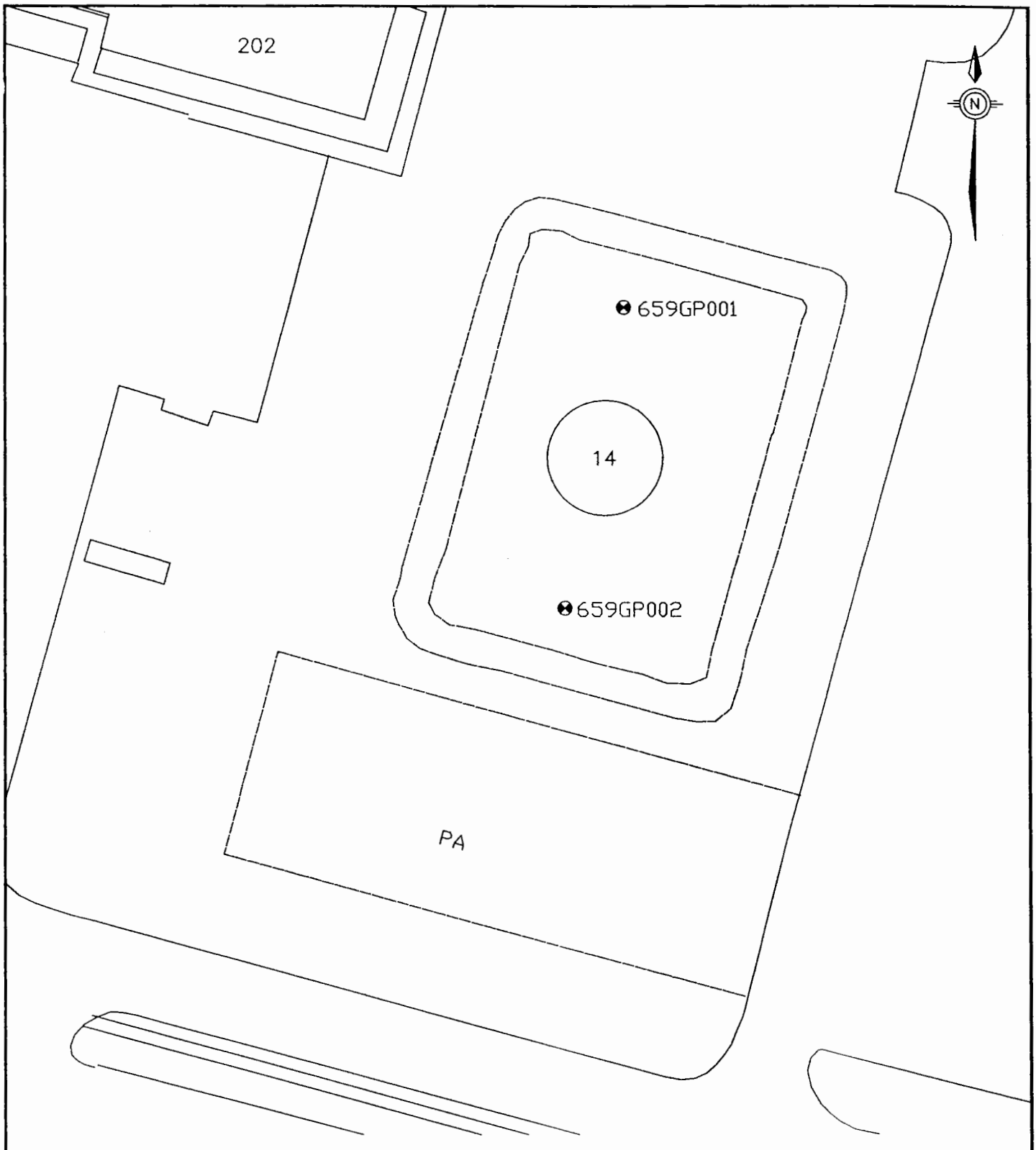

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FIGURE A.1.2
AOC 659
DPT LOCATION MAP

DWG DATE: 09/25/97 | DWG NAME: 2908AOC2

2.0 AOC 661, EXPLOSIVES STORAGE

2.1 Site Description and RFI History

AOC 661 is the site of a former shed reportedly used for the storage of explosives during the 1950s; it was located at the southeast corner of the former sea plane runway. Currently, the former site of AOC 661 is a grassy area south of Building 601 and north of Building 675 (Figure A-2). Little information exists regarding the historical operation of the site and no information was located suggesting a release or disposal had ever occurred at the site. The shed was identified as an area of concern during the RCRA Facility Assessment (RFA) process solely on the basis of the facility name as it appeared on the legend of a historic base map.

Initially, sampling at the site was deferred pending completion of an unexploded ordnance (UXO) survey by the DET. The DET's review of historical maps and aerial photographs of the AOC 661 area revealed the following:

The explosive storage area was not shown on the Charleston Shipyard Map dated June 30, 1951.

An October 1952 aerial photograph does not show the explosive storage area on the asphalt-paved seaplane runway.

A June 30, 1953, Charleston Shipyard Map shows the explosive storage area at the southeast corner of the seaplane runway.

In April of 1956, a site demolition map was produced for removal of the seaplane runway.

A June 30, 1957, Charleston Shipyard Map indicates that the explosive storage shed was no longer on the southeast corner of the seaplane runway.

Aerial photographs from 1958 indicate the demolition of the seaplane runway in progress.

Upon further consideration of the site history (shed was formerly on pavement that has since been removed), the project team agreed by consensus that UXO clearance was not considered necessary and sample collection could proceed.

2.2 Investigative Action

Based on the apparent size of the building in which the explosives were stored, three soil borings were considered sufficient to determine whether a release occurred at the site. These samples were analyzed for explosives by U.S. EPA Method 8330. Figure A.2.1 identifies the former building and the soil sample locations.

2.3 Investigative Results

Analytical results for the samples (661-S-B001-01, 661-S-B002-01, and 661-S-B003-01) are included in Appendix B. The data was subjected to a general usability assessment as described in Section 1.3 above and no problems were identified. No explosive compounds were detected at any of the sample locations.

2.4 Conclusions

No further action is recommended for AOC 661.

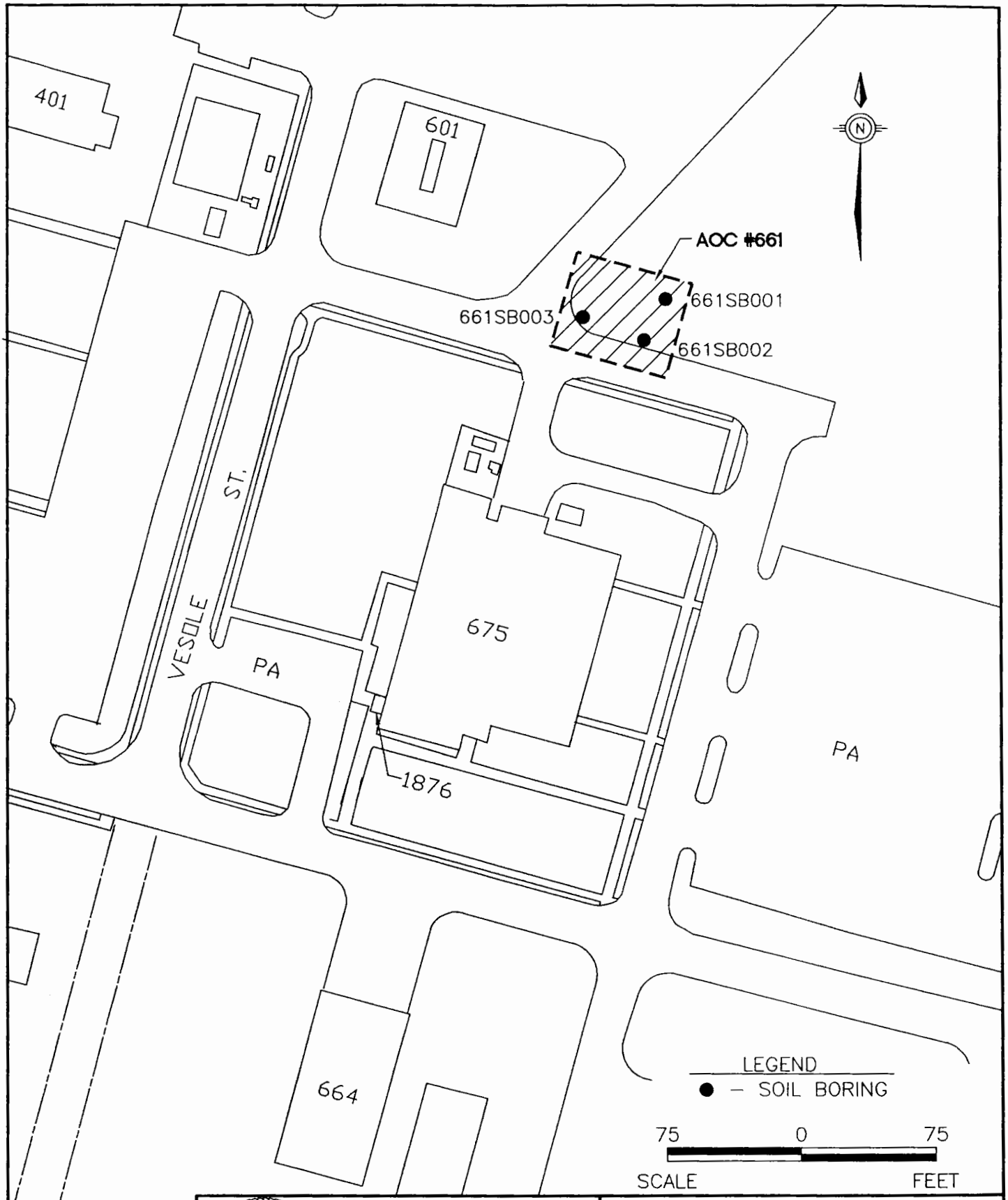

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FIGURE A.2.1
AOC #661
SOIL SAMPLE LOCATION MAP

DWG DATE: 09/25/97 | DWG NAME: 2908SSLM

3.0 AOC 665, PYROTECHNIC STORAGE, BUILDING 159

3.1 Site Description and RFI History

AOC 665 is the site of a former shed reportedly used to store unknown pyrotechnic explosives from 1943 until its demolition at an unknown date. Similar to AOC 661, very little information exists regarding the historical operation of the site and no information was located suggesting a release or disposal had ever occurred at the site. The shed was identified as an area of concern during the RFA process solely on the basis of the facility name as it appeared on the legend of a historic base map. Currently, an asphalt parking lot in the vicinity of Buildings 1889 and NS-46 exists where the pyrotechnic shed was located.

Section 4.18 of the *Final Zone H RFI Report* describes the initial RFI activities when soil samples were collected from 4 borings. The initial borings, 665SB001 through 665SB004, are depicted on Figure A.3.1. The analytical data for these samples is included in Appendix C. As indicated in the human health risk assessment for AOC 665, Section 6.2.14 of the Zone H RFI Report, multiple compounds were detected at the site but only benzo(a)pyrene equivalents (BEQs) were identified as a COPC for formal evaluation. The human health risk assessment projected an ingestion related incremental lifetime excess cancer risk (ILCR) from surface soil was 1.7E-6, and the dermal pathway risk was 7.7E-7. BEQs were the only contributors with the maximum detection of 0.151 mg/kg detected at boring 665SB002. It should also be noted that this sample was collected just below an asphalt surface.

Upon review of the July 5, 1996, draft of the RFI report and historical maps, it became apparent that the former location of the shed was approximately 80 feet west of the location sampled during the initial phase of the RFI. Additional sampling necessary to complete the RFI is described below.

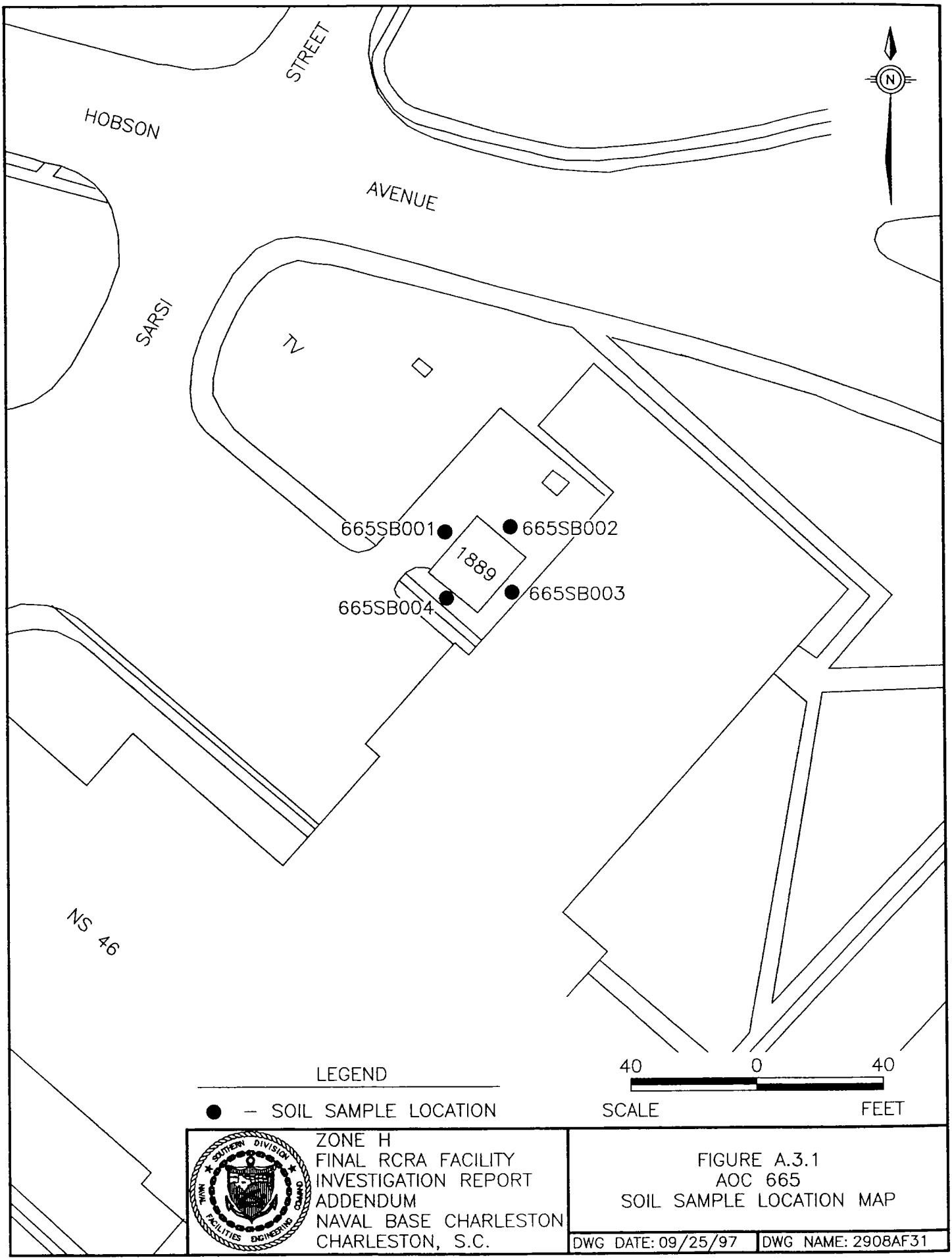

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FIGURE A.3.1
AOC 665
SOIL SAMPLE LOCATION MAP

DWG DATE: 09/25/97 | DWG NAME: 2908AF31

3.2 Investigative Action

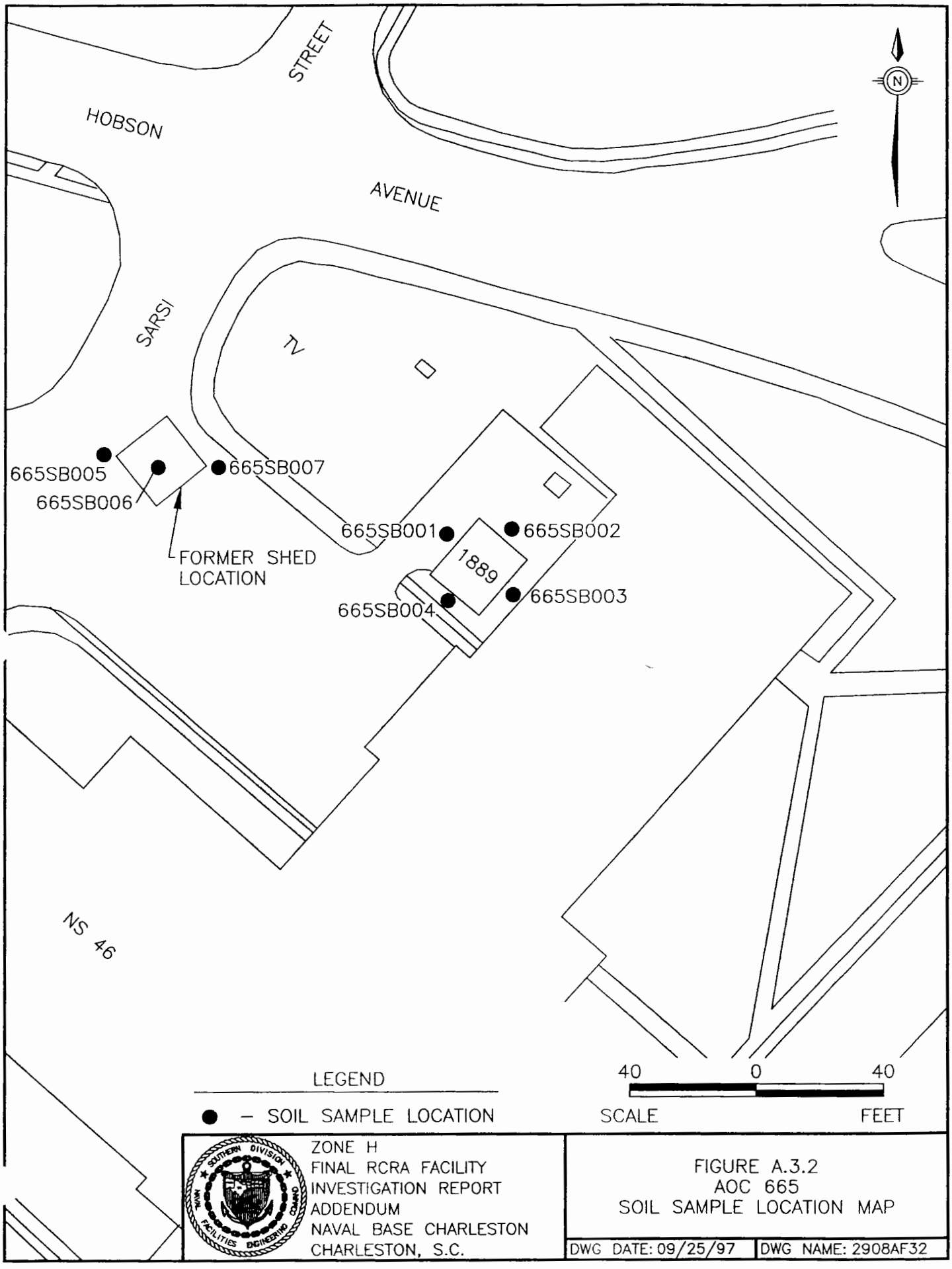
The project team agreed by consensus to have 3 additional soil borings installed at the new location. Soil samples were collected from the 0-1' below ground surface (bgs) and 3-5' bgs intervals and analyzed for explosives and pyrotechnics by EPA Method 8330. The supplemental boring locations 665SB005 through 665SB007 are depicted on Figure A.3.2. Due to the shallow depth to groundwater, the subsurface soil sample was not collected at the 665SB006 location.

3.3 Investigative Results

No explosive or pyrotechnic compounds were detected at any of the sample locations. Analytical results for the samples are included in Appendix C. The data was subjected to a general usability assessment as described in Section 1.3 above and no problems were identified.

3.4 Conclusions

The risk associated with BEQs at the locations initially sampled only minimally exceeds the 1E-06 residential threshold and is at the lower extremity of the 1E-04 to 1E-06 risk range generally deemed acceptable by SCDHEC and the USEPA. Analysis of the supplemental samples was only performed for pyrotechnics and explosives since these compounds, if detected, would have been more indicative of a release associated with site activities. As mentioned above, no pyrotechnics or explosives were detected. No further investigation is planned for the AOC 665 area. The site is recommended for no further action.



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CHARLESTON, S.C.

FIGURE A.3.2
AOC 665
SOIL SAMPLE LOCATION MAP

DWG DATE: 09/25/97 | DWG NAME: 2908AF32

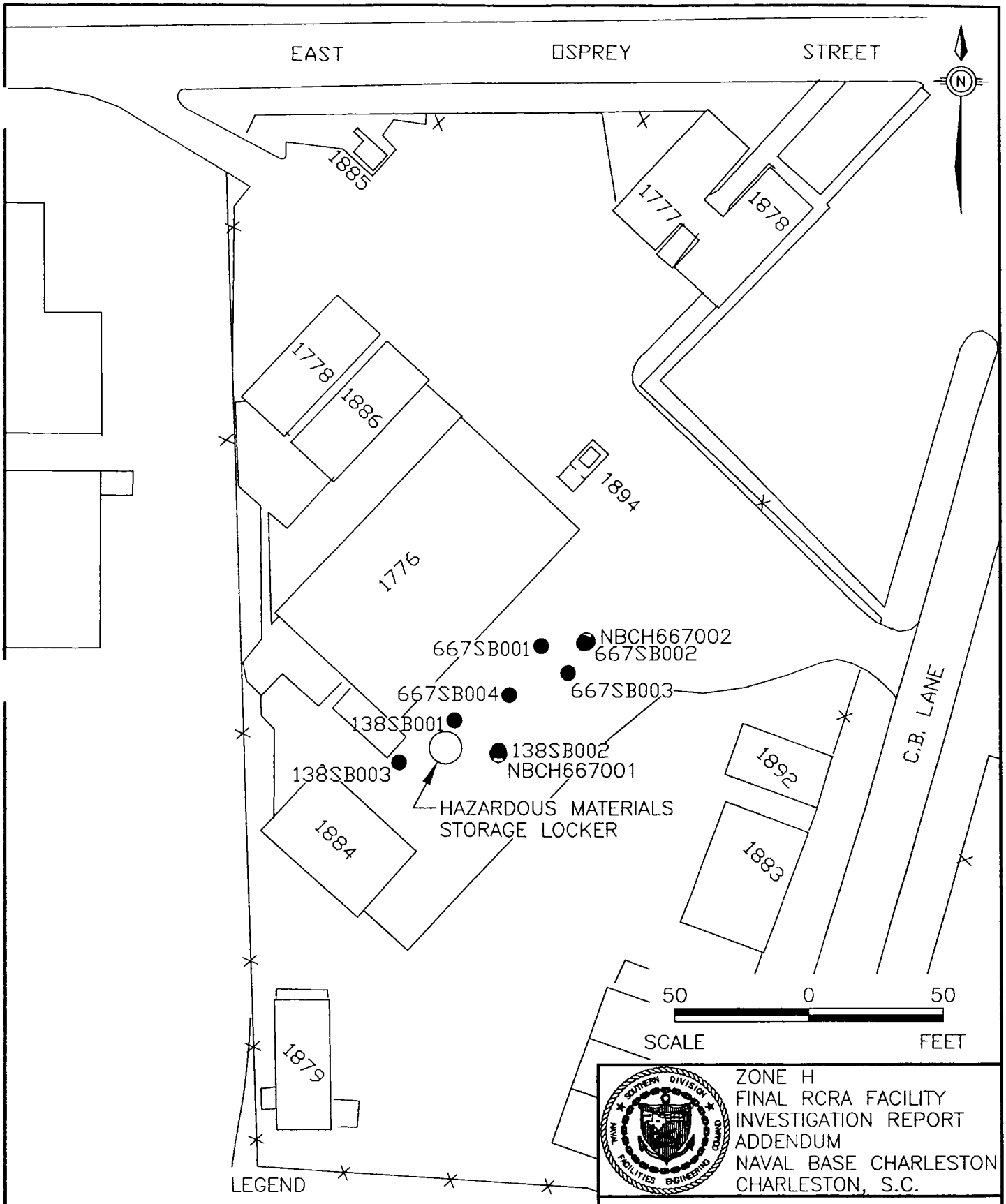
4.0 AOC 667 AND SWMU 138, VEHICLE MAINTENANCE AREA AND SATELLITE ACCUMULATION AREA

4.1 Site Description and RFI History

AOC 667 and SWMU 138, because of their proximity, were investigated together. AOC 667, the vehicle maintenance area, is a two-story brick structure (Building 1776) with an oil-water separator. The site was used for the routine maintenance of automobiles and heavy equipment, including oil changes and repairing hydraulic parts from the equipment. A 550-gallon portable waste oil storage tank was also commonly present at the site. SWMU 138, an SAA related to Building 1776, stored hazardous waste in 55-gallon drums which were then transferred to a permitted hazardous waste storage facility.

Soil and groundwater were sampled during the initial RFI activities at AOC 667 and SWMU 138 to determine if contamination if releases associated with petroleum product storage, via dispensing at the storage tank or through exfiltration around the oil-water separator, had occurred. Sample locations associated with the initial sampling effort are depicted in Figure A.4.1. The analytical data is provided in Appendix D. Section 4.19 of the *Final Zone H RFI Report* describes the initial RFI activities.

The human health risk assessment for AOC 667 and SWMU 138, Section 6.2.16 of the *Final Zone H RFI Report*, indicates multiple compounds were detected in soil at the site, but only BEQs were identified as a COPC for formal evaluation. The projected ingestion related ILCR from surface soil was 4E-7, and the dermal pathway risk was 2E-7. The primary interest at the site were detections of 1,1 dichloroethane, chloroethane, 1,2 dichloroethene (total), and carbon disulfide in site wells NBCH-667-001 and NBCH-667-002. Appendix E contains a site specific summary of compounds detected during the 4 quarters of sampling conducted for each monitoring well in Zone H. The results for AOC 667 can be found on pages 87 and 88 of the appendix.


EAST
OSPREY
STREET
1885
1777
1878
1778
1886
1894
1776
667SB001
NBCH667002
667SB002
667SB004
667SB003
138SB001
138SB002
NBCH667001
138SB003
HAZARDOUS MATERIALS
STORAGE LOCKER
1884
1892
1883
C.B. LANE
1879
50
0
50
SCALE
FEET
LEGEND
● – SOIL SAMPLE LOCATION
⊗ – GROUNDWATER SAMPLE LOCATION
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CHARLESTON, S.C.
FIGURE A.4.1
AOC 667 & SWMU 138
SOIL & GROUNDWATER SAMPLE
LOCATION MAP
DWG DATE: 09/25/97
DWG NAME: 2908AF41

None of the detections exceeded USEPA Region III tap water risk based screening concentrations or MCLs. The detections were most frequent in well NBCH-667-002 which was located within 10 feet of the oil-water separator.

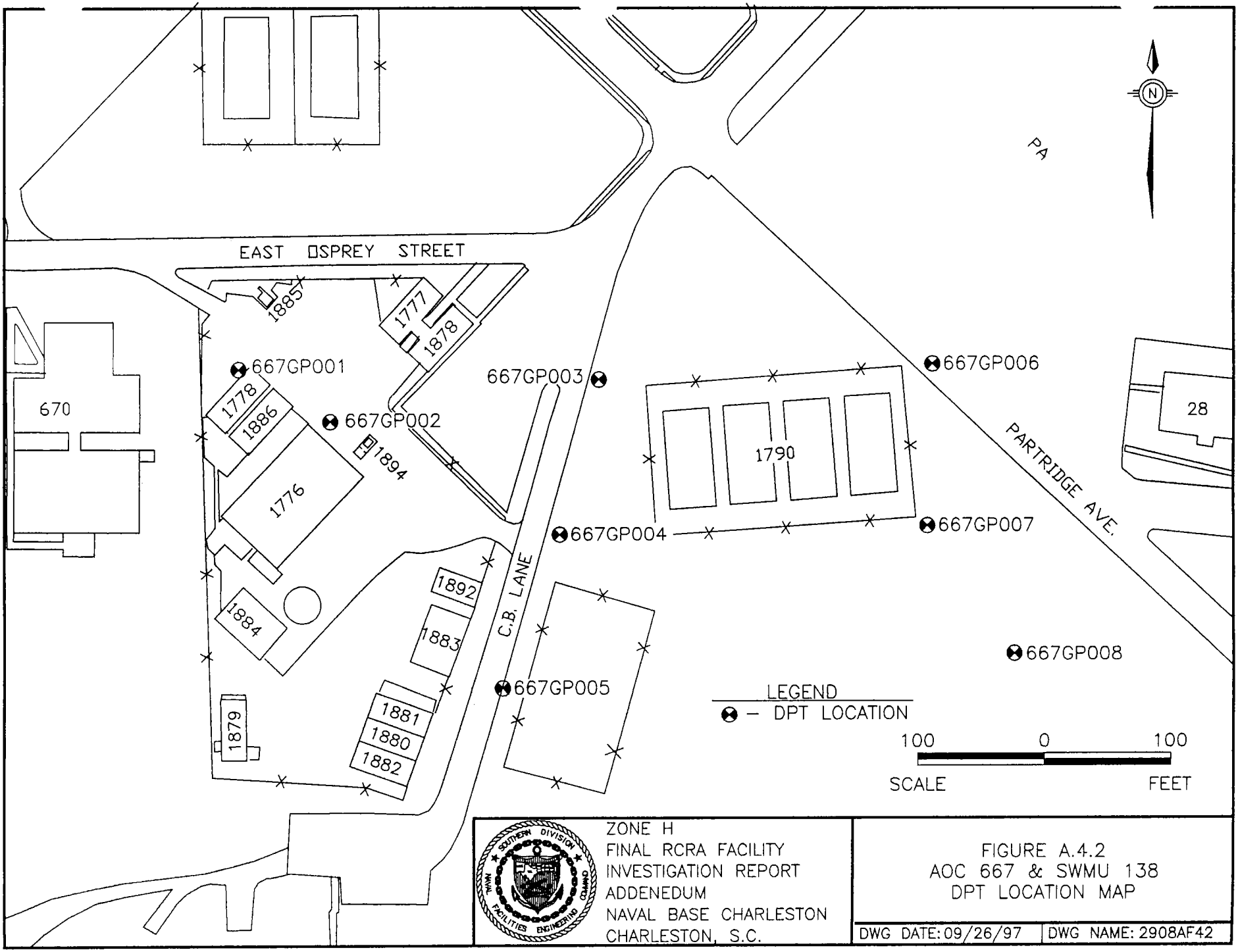
Following review of the July 5, 1996, draft of the RFI report, concerns remained that 2 wells were insufficient to determine whether the contaminant levels detected were representative of worst case or if a larger problem existed. A broad perspective review of all VOC groundwater data was performed on both Zones H and I to determine if a correlation between contaminants at AOC 667 and other sites existed. The review indicated a shallow grid well in Zone I, approximately 900 feet down gradient of AOC 667, which contained similar types of chlorinated VOCs.

4.2 Investigative Action

It was unknown whether a connection existed between AOC 667 and the Zone I grid well, so the project team agreed by consensus to collect groundwater screening samples from 8 additional locations using DPT. These locations are depicted on Figure A.4.2. Two locations, 667GP001 and 667GP002, are upgradient of the site (groundwater flow is due east toward the Cooper River), while the remaining 6 locations are downgradient of the site. Each sample was collected from a depth of approximately 15 feet bgs which roughly corresponds to the top of a marsh clay which acts as a confining unit within the surficial aquifer. Samples were submitted for volatile organic compound analysis.

4.3 Investigative Results

Analytical results are provided in Appendix D. A usability assessment of the data showed both the trip blank and the method blank to have a detection of acetone at a concentration of 2μg/l. Due to the concentrations of acetone in both the trip and method blanks at a level of 2μg/l, all sample analytical results below 20μg/l were corrected to the detection limit because of the EPA 10 times highest blank concentration rule. Of the VOC detections reported during the 4 quarters of



ZONE H
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ADDENEDUM
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CHARLESTON, S.C.

FIGURE A.4.2
AOC 667 & SWMU 138
DPT LOCATION MAP

DWG DATE: 09/26/97 | DWG NAME: 2908AF42

groundwater sampling at AOC 667, carbon disulfide was the only compound also reported in the screening data. Carbon disulfide was detected in samples from 667GP003, 667GP004, 667GP007, and 667GP008 at concentrations of (2-3 μg/L) which is well below the tap water RBC of 100 μg/L. A detection of 2 μg/L of 2-butanone was reported in the sample from 667GP005. This concentration is several orders of magnitude below the tap water RBC of 1900 μg/L. No other volatile compounds were detected.

4.4 Conclusions

The groundwater pathway was not included in the human health risk assessment for AOC 667 and SWMU 138 since no COPCs were identified in the screening process. The supplemental sampling event confirmed that the contamination detected in the two site wells is very localized, is not related to the contaminants detected in the Zone I grid well, and does not exceed either RBCs or MCLs (for those compounds which MCLs even exist), and does not warrant formal evaluations in the risk assessment. These sites are recommended for no further action.

APPENDIX A

AOC 659 SOIL AND GROUNDWATER DATA

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 659 Soil Analytical Data

APX9-DIOXI

SAMPLE ID ------->	659-C-B001-01
ORIGINAL ID ----->	659CB00101
LAB SAMPLE ID --->	IK1158-4
ID FROM REPORT -->	090107
SAMPLE DATE ----->	08/31/94
DATE EXTRACTED -->	09/06/94
DATE ANALYZED --->	09/27/94
MATRIX ---------->	Soil
UNITS ----------->	PG/G

CAS #	Parameter	APX02	VAL
1746-01-6	2378-TCDD		
19408-74-3	123789-HxCDD	0.5901	EMPC
3268-87-9	OCDD	135.36	EMPC
35822-46-9	1234678-HpCDD	10.244	EMPC
39001-02-0	OCDF	7.9254	EMPC
39227-28-6	123478-HxCDD	0.2617	EMPC
40321-76-4	12378-PeCDD	0.2906	EMPC
51207-31-9	2378-TCDF		
55673-89-7	1234789-HpCDF	0.3504	EMPC
57117-31-4	23478-PeCDF	0.1809	EMPC
57117-41-6	12378-PeCDF	0.1717	EMPC
57117-44-9	123678-HxCDF	0.2053	EMPC
57653-85-7	123678-HxCDD	0.5884	EMPC
60851-34-5	234678-HxCDF		
67562-39-4	1234678-HpCDF	2.2955	EMPC
70648-26-9	123478-HxCDF	0.3925	EMPC
72918-21-9	123789-HxCDF	0.1776	EMPC
41903-57-5	Total Tetra-Dioxins	0.305	EMPC
36088-22-9	Total Penta-Dioxins	0.4631	EMPC
34465-46-8	Total Hexa-Dioxins	4.7379	EMPC
37871-00-4	Total Hepta-Dioxins	19.112	J
55722-27-5	Total Tetra-Furans	0.4692	EMPC
30602-15-4	Total Penta-Furans	1.2399	EMPC
55684-94-1	Total Hexa-Furans	3.6907	EMPC
38998-75-3	Total Hepta-Furans	9.7343	EMPC

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 659 Soil Analytical Data

APX9-HERB	SAMPLE ID ------->	659-C-B001-01					
	ORIGINAL ID ----->	659CB00101					
	LAB SAMPLE ID --->	TLB-007					
	ID FROM REPORT -->	090107					
	SAMPLE DATE ----->	08/31/94					
	DATE EXTRACTED -->	09/07/94					
	DATE ANALYZED --->	09/16/94					
	MATRIX ---------->	Soil					
	UNITS ----------->	UG/KG					
CAS #	Parameter	APX02	VAL				
93-72-1	2,4,5-TP (Silvex)	9.1	J				
93-76-5	2,4,5-T	9.	J				
94-75-7	2,4-D						

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 659 Soil Analytical Data

APX9-METAL		
	SAMPLE ID ------->	659-C-B001-01
	ORIGINAL ID ----->	659CB00101
	LAB SAMPLE ID --->	41382-005
	ID FROM REPORT -->	090107
	SAMPLE DATE ----->	08/31/94
	DATE EXTRACTED -->	09/02/94
	DATE ANALYZED --->	09/06/94
	MATRIX ---------->	Soil
	UNITS ----------->	MG/KG

CAS #	Parameter	APX02	VAL
7439-92-1	Lead (Pb)		
7439-97-6	Mercury (Hg)		
7440-02-0	Nickel (Ni)	0.77	J
7440-22-4	Silver (Ag)		
7440-31-5	Tin (Sn)	1.5	J
7440-36-0	Antimony (Sb)		
7440-38-2	Arsenic (As)	0.62	J
7440-39-3	Barium (Ba)		
7440-41-7	Beryllium (Be)		
7440-43-9	Cadmium (Cd)		
7440-47-3	Chromium (Cr)		
7440-48-4	Cobalt (Co)		
7440-50-8	Copper (Cu)		
7440-62-2	Vanadium (V)	4.7	J
7440-66-6	Zinc (Zn)		
7782-49-2	Selenium (Se)		
7440-28-0	Thallium (Tl)		

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 659 Soil Analytical Data

APX9-OP PE

SAMPLE ID ------->	659-C-B001-01
ORIGINAL ID ----->	659CB00101
LAB SAMPLE ID --->	TLB-007
ID FROM REPORT -->	090107
SAMPLE DATE ----->	08/31/94
DATE EXTRACTED -->	09/06/94
DATE ANALYZED --->	09/07/94
MATRIX ---------->	Soil
UNITS ----------->	UG/KG

CAS #	Parameter	APX02 VAL
126-68-1	O,O,O-Triethylphosphorothioate	
297-97-2	Thionazin	
298-00-0	Methyl parathion	
298-02-2	Phorate	
298-04-4	Disulfoton	
3689-24-5	Sulfotep	
52-85-7	Famphur	
56-38-2	Parathion	
60-51-5	Dimethoate	

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 659 Soil Analytical Data

APX9-PEST

SAMPLE ID ------->	659-C-B001-01
ORIGINAL ID ----->	659CB00101
LAB SAMPLE ID --->	TLB-007
ID FROM REPORT -->	090107
SAMPLE DATE ----->	08/31/94
DATE EXTRACTED -->	09/06/94
DATE ANALYZED --->	09/07/94
MATRIX ---------->	Soil
UNITS ----------->	UG/KG

CAS #	Parameter	APX02	VAL
309-00-2	Aldrin		
319-84-6	alpha-BHC		
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
5103-71-9	alpha-Chlordane	1.3	J
5103-74-2	gamma-Chlordane	3.8	
510-15-6	Chlorobenzilate		
72-54-8	4,4'-DDD		
72-55-9	4,4'-DDE		
50-29-3	4,4'-DDT	3.6	J
2303-16-4	Diallate		
60-57-1	Dieldrin	2.7	J
959-98-8	Endosulfan I		
33213-65-9	Endosulfan II		
1031-07-8	Endosulfan sulfate	2.4	J
72-20-8	Endrin		
7421-93-4	Endrin aldehyde		
76-44-8	Heptachlor		
1024-57-3	Heptachlor epoxide		
465-73-6	Isodrin		
143-50-0	Kepone		
72-43-5	Methoxychlor		
8001-35-2	Toxaphene		
12674-11-2	Aroclor-1016		
11104-28-2	Aroclor-1221		
11141-16-5	Aroclor-1232		
53469-21-9	Aroclor-1242		
12672-29-6	Aroclor-1248		
11097-69-1	Aroclor-1254		
11096-82-5	Aroclor-1260		

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 659 Soil Analytical Data

APX9-SVOA	SAMPLE ID ------->	659-C-B001-01					
	ORIGINAL ID ----->	659CB00101					
	LAB SAMPLE ID --->	TLB-007					
	ID FROM REPORT -->	090107					
	SAMPLE DATE ----->	08/31/94					
	DATE EXTRACTED -->	09/07/94					
	DATE ANALYZED --->	09/13/94					
	MATRIX ---------->	Soil					
	UNITS ----------->	UG/KG					
CAS #	Parameter	APX02 VAL					
83-32-9	Acenaphthene						
208-96-8	Acenaphthylene						
98-86-2	Acetophenone						
53-96-3	Acetamidofluorene						
92-67-1	4-Aminobiphenyl						
62-53-3	Aniline						
120-12-7	Anthracene						
140-57-8	Aramite						
56-55-3	Benzo(a)anthracene						
205-99-2	Benzo(b)fluoranthene						
207-08-9	Benzo(k)fluoranthene						
191-24-2	Benzo(g,h,i)perylene						
50-32-8	Benzo(a)pyrene						
100-51-6	Benzyl alcohol						
111-91-1	bis(2-Chloroethoxy)methane						
111-44-4	bis(2-Chloroethyl)ether						
108-60-1	2,2'-oxybis(1-Chloropropane)						
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)						
101-55-3	4-Bromophenyl-phenylether						
85-68-7	Butylbenzylphthalate						
106-47-8	4-Chloroaniline						
59-50-7	4-Chloro-3-methylphenol						
91-58-7	2-Chloronaphthalene						
95-57-8	2-Chlorophenol						
7005-72-3	4-Chlorophenylphenylether						
218-01-9	Chrysene						
95-48-7	2-Methylphenol (o-Cresol)						
108-39-4	3-Methylphenol (m-Cresol)						
106-44-5	4-Methylphenol (p-Cresol)						
53-70-3	Dibenz(a,h)anthracene						
132-64-9	Dibenzofuran						
95-50-1	1,2-Dichlorobenzene						
541-73-1	1,3-Dichlorobenzene						
106-46-7	1,4-Dichlorobenzene						
91-94-1	3,3'-Dichlorobenzidine						
120-83-2	2,4-Dichlorophenol						

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 659 Soil Analytical Data

APX9-SVOA	SAMPLE ID ------->	659-C-8001-01					
	ORIGINAL ID ----->	659C80101					
	LAB SAMPLE ID --->	TLB-007					
	ID FROM REPORT -->	090107					
	SAMPLE DATE ----->	08/31/94					
	DATE EXTRACTED -->	09/07/94					
	DATE ANALYZED --->	09/13/94					
	MATRIX ---------->	Soil					
	UNITS ----------->	UG/KG					
CAS #	Parameter	APX02 VAL					
87-65-0	2,6-Dichlorophenol						
84-66-2	Diethylphthalate						
60-11-7	p-(Dimethylamino)azobenzene						
57-97-6	7,12-Dimethylbenz(a)anthracene						
119-93-7	3,3-Dimethylbenzidine						
122-09-8	a,a-Dimethylphenethylamine						
131-11-3	Dimethyl phthalate						
105-67-9	2,4-Dimethylphenol						
84-74-2	Di-n-butylphthalate						
99-65-0	1,3-Dinitrobenzene						
534-52-1	2-Methyl-4,6-Dinitrophenol						
51-28-5	2,4-Dinitrophenol						
88-85-7	Dinoseb						
121-14-2	2,4-Dinitrotoluene						
606-20-2	2,6-Dinitrotoluene						
117-84-0	Di-n-octyl phthalate						
122-39-4	Diphenylamine						
97-63-2	Ethyl methacrylate						
62-50-0	Ethyl methanesulfonate						
206-44-0	Fluoranthene						
86-73-7	Fluorene						
118-74-1	Hexachlorobenzene						
87-68-3	Hexachlorobutadiene						
77-47-4	Hexachlorocyclopentadiene						
67-72-1	Hexachloroethane						
70-30-4	Hexachlorophene						
1888-71-7	Hexachloropropene						
193-39-5	Indeno(1,2,3-cd)pyrene						
78-59-1	Isophorone						
120-58-1	Isosafrole						
91-80-5	Methapyrilene						
56-49-5	3-Methyl cholanthrene						
80-62-6	Methyl methacrylate						
66-27-3	Methyl methanesulfonate						
91-57-6	2-Methylnaphthalene						
91-20-3	Naphthalene						

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 659 Soil Analytical Data

APX9-SVOA	SAMPLE ID ------->	659-C-B001-01					
	ORIGINAL ID ----->	659CB00101					
	LAB SAMPLE ID --->	TLB-007					
	ID FROM REPORT -->	090107					
	SAMPLE DATE ----->	08/31/94					
	DATE EXTRACTED -->	09/07/94					
	DATE ANALYZED --->	09/13/94					
	MATRIX ---------->	Soil					
	UNITS ----------->	UG/KG					
CAS #	Parameter	APX02 VAL					
130-15-4	1,4-Naphthoquinone						
134-32-7	1-Naphthylamine						
91-59-8	2-Naphthylamine						
88-74-4	2-Nitroaniline						
99-09-2	3-Nitroaniline						
100-01-6	4-Nitroaniline						
98-95-3	Nitrobenzene						
88-75-5	2-Nitrophenol						
100-02-7	4-Nitrophenol						
56-57-5	4-Nitroquinoline 1-oxide						
924-16-3	N-Nitroso-di-n-butylamine						
55-18-5	N-Nitrosodiethylamine						
62-75-9	N-Nitrosodimethylamine						
86-30-6	N-Nitrosodiphenylamine						
621-64-7	N-Nitroso-di-n-propylamine						
10595-95-6	N-Nitrosomethylethylamine						
59-89-2	N-Nitrosomorpholine						
100-75-4	N-Nitrosopiperidine						
930-55-2	N-Nitrosopyrrolidine						
99-55-8	5-Nitro-o-toluidine						
608-93-5	Pentachlorobenzene						
76-01-7	Pentachloroethane						
82-68-8	Pentachloronitrobenzene						
87-86-5	Pentachlorophenol						
62-44-2	Phenacetin						
85-01-8	Phenanthrene						
108-95-2	Phenol						
106-50-3	p-Phenylenediamine						
109-06-8	2-Picoline						
23950-58-5	Pronamide						
129-00-0	Pyrene						
110-86-1	Pyridine						
94-59-7	Safrole						
95-94-3	1,2,4,5-Tetrachlorobenzene						
58-90-2	2,3,4,6-Tetrachlorophenol						
95-53-4	o-Toluidine						

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 659 Soil Analytical Data

APX9-SVOA	SAMPLE ID ------->	659-C-B001-01					
	ORIGINAL ID ----->	659CB00101					
	LAB SAMPLE ID --->	TLB-007					
	ID FROM REPORT -->	090107					
	SAMPLE DATE ----->	08/31/94					
	DATE EXTRACTED -->	09/07/94					
	DATE ANALYZED --->	09/13/94					
	MATRIX ---------->	Soil					
	UNITS ---------->	UG/KG					
CAS #	Parameter	APX02 VAL					
120-82-1	1,2,4-Trichlorobenzene						
95-95-4	2,4,5-Trichlorophenol						
88-06-2	2,4,6-Trichlorophenol						
99-35-4	1,3,5-Trinitrobenzene						

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 659 Soil Analytical Data

APX9-VOA							
	SAMPLE ID ------->	659-C-B001-01					
	ORIGINAL ID ----->	659CB00101					
	LAB SAMPLE ID --->	TLB-007					
	ID FROM REPORT -->	090107					
	SAMPLE DATE ----->	08/31/94					
	DATE EXTRACTED -->	09/07/94					
	DATE ANALYZED --->	09/07/94					
	MATRIX ---------->	Soil					
	UNITS ----------->	UG/KG					
CAS #	Parameter	APX02 VAL					
67-64-1	Acetone						
75-05-8	Acetonitrile						
107-02-8	Acrolein						
107-13-1	Acrylonitrile						
107-05-1	3-Chloropropene						
71-43-2	Benzene						
75-27-4	Bromodichloromethane						
75-25-2	Bromoform						
75-15-0	Carbon disulfide						
56-23-5	Carbon tetrachloride						
108-90-7	Chlorobenzene						
75-00-3	Chloroethane						
67-66-3	Chloroform						
126-99-8	Chloroprene						
124-48-1	Dibromochloromethane						
96-12-8	1,2-Dibromo-3-Chloropropane						
106-93-4	1, 2-Dibromoethane						
110-57-6	trans-1,4-Dichloro-2-butene						
75-71-8	Dichlorodifluoromethane						
75-34-3	1,1-Dichloroethane						
107-06-2	1,2-Dichloroethane						
75-35-4	1,1-Dichloroethene						
156-60-5	trans-1,2-Dichloroethene						
78-87-5	1,2-Dichloropropane						
10061-01-5	cis-1,3-Dichloropropene						
10061-02-6	trans-1,3-Dichloropropene						
123-91-1	1,4-Dioxane						
100-41-4	Ethylbenzene						
591-78-6	2-Hexanone						
78-83-1	Isobutyl alcohol						
126-98-7	Methacrylonitrile						
74-83-9	Bromomethane						
74-87-3	Chloromethane						
74-95-3	Methylene bromide						
75-09-2	Methylene chloride						
78-93-3	2-Butanone (MEK)						

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 659 Soil Analytical Data

APX9-VOA							
	SAMPLE ID ------->	659-C-B001-01					
	ORIGINAL ID ----->	659CB00101					
	LAB SAMPLE ID --->	TLB-007					
	ID FROM REPORT -->	090107					
	SAMPLE DATE ----->	08/31/94					
	DATE EXTRACTED -->	09/07/94					
	DATE ANALYZED --->	09/07/94					
	MATRIX ---------->	Soil					
	UNITS ----------->	UG/KG					

CAS #	Parameter	APX02	VAL				
74-88-4	Methyl iodide						
108-10-1	4-Methyl-2-Pentanone (MIBK)						
107-12-0	Propionitrile						
100-42-5	Styrene						
630-20-6	1,1,1,2-Tetrachloroethane						
79-34-5	1,1,2,2-Tetrachloroethane						
127-18-4	Tetrachloroethene						
108-88-3	Toluene	1.5	J				
71-55-6	1,1,1-Trichloroethane						
79-00-5	1,1,2-Trichloroethane						
79-01-6	Trichloroethene						
75-69-4	Trichlorofluoromethane						
96-18-4	1,2,3-Trichloropropane						
108-05-4	Vinyl acetate						
75-01-4	Vinyl chloride						
1330-20-7	Xylene (Total)						

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 659 Soil Analytical Data

CYANIDE							
	SAMPLE ID ------->	659-S-B001-01	659-C-B001-01	659-S-B001-02	659-S-B002-01	659-S-B002-02	659-S-B003-01
	ORIGINAL ID ----->	659SB00101	659CB00101	659SB00102	659SB00201	659SB00202	659SB00301
	LAB SAMPLE ID --->	41381-038	41382-005	41381-039	41381-040	41381-041	41381-042
	ID FROM REPORT -->	090116	090107	090117	090118	090119	090120
	SAMPLE DATE ----->	08/31/94	08/31/94	08/31/94	08/31/94	08/31/94	08/31/94
	DATE EXTRACTED -->	09/02/94	09/02/94	09/02/94	09/02/94	09/02/94	09/02/94
	DATE ANALYZED --->	09/06/94	09/06/94	09/06/94	09/06/94	09/06/94	09/06/94
	MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
	UNITS ---------->	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG

CAS #	Parameter	CHS09	VAL	APX02	VAL	CHS09	VAL	CHS09	VAL	CHS09	VAL	CHS09	VAL
57-12-5	Cyanide (CN)												

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 659 Soil Analytical Data

CYANIDE								
	SAMPLE ID ------->	659-S-B003-02		659-S-B004-01		659-S-B004-02			
	ORIGINAL ID ----->	659SB00302		659SB00401		659SB00402			
	LAB SAMPLE ID --->	41381-043		41381-044		41381-045			
	ID FROM REPORT -->	090121		090122		090123			
	SAMPLE DATE ----->	08/31/94		08/31/94		08/31/94			
	DATE EXTRACTED -->	09/02/94		09/02/94		09/02/94			
	DATE ANALYZED --->	09/06/94		09/06/94		09/06/94			
	MATRIX ---------->	Soil		Soil		Soil			
	UNITS ----------->	MG/KG		MG/KG		MG/KG			
CAS #	Parameter	CHS09	VAL	CHS09	VAL	CHS09	VAL		
57-12-5	Cyanide (CN)								

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 659 Soil Analytical Data

HEXACHROME							
	SAMPLE ID ------->	659-C-B001-01					
	ORIGINAL ID ----->	659CB00101					
	LAB SAMPLE ID --->	41382-005					
	ID FROM REPORT -->	090107					
	SAMPLE DATE ----->	08/31/94					
	DATE ANALYZED --->	09/02/94					
	MATRIX ---------->	Soil					
	UNITS ---------->	MG/KG					
CAS #	Parameter	APX02 VAL					
9999900-00-5	Hexavalent Chromium						

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 659 Soil Analytical Data

SW846-META													
	SAMPLE ID ------->	659-S-B001-01		659-S-B001-02		659-S-B002-01		659-S-B002-02		659-S-B003-01		659-S-B003-02	
	ORIGINAL ID ----->	659SB00101		659SB00102		659SB00201		659SB00202		659SB00301		659SB00302	
	LAB SAMPLE ID --->	41381-038		41381-039		41381-040		41381-041		41381-042		41381-043	
	ID FROM REPORT -->	090116		090117		090118		090119		090120		090121	
	SAMPLE DATE ----->	08/31/94		08/31/94		08/31/94		08/31/94		08/31/94		08/31/94	
	DATE EXTRACTED -->	09/02/94		09/02/94		09/02/94		09/02/94		09/02/94		09/02/94	
	DATE ANALYZED --->	09/06/94		09/06/94		09/06/94		09/06/94		09/06/94		09/06/94	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	MG/KG		MG/KG		MG/KG		MG/KG		MG/KG		MG/KG	
CAS #	Parameter	CHS09	VAL	CHS09	VAL	CHS09	VAL	CHS09	VAL	CHS09	VAL	CHS09	VAL
7429-90-5	Aluminum (Al)	2310.		1540.		4290.		2540.		6870.		2110.	
7439-89-6	Iron (Fe)	1610.		3390.		2710.		4030.		4290.		2510.	
7439-92-1	Lead (Pb)	2.4		2.8		4.3		2.6		6.9		2.2	
7440-02-0	Nickel (Ni)												
7440-09-7	Potassium (K)												
7440-22-4	Silver (Ag)												
7440-23-5	Sodium (Na)			40.	J	16.4	J	63.1	J	39.8	J	56.1	J
7440-28-0	Thallium (Tl)												
7440-36-0	Antimony (Sb)												
7440-38-2	Arsenic (As)	0.6	J	1.2		1.3		1.9		2.1		1.2	
7440-39-3	Barium (Ba)	6.4	J			8.6	J					4.5	J
7440-41-7	Beryllium (Be)			0.15	J			0.2	J	0.16	J	0.14	J
7440-43-9	Cadmium (Cd)												
7440-48-4	Cobalt (Co)			0.7	J			1.3	J	1.	J	0.64	J
7440-50-8	Copper (Cu)												
7440-62-2	Vanadium (V)	3.6	J	6.2		6.5		8.3		12.2		5.1	J
7440-66-6	Zinc (Zn)									15.2			
7782-49-2	Selenium (Se)												
7439-97-6	Mercury (Hg)									0.08			
7439-95-4	Magnesium (Mg)	36.9	J	356.	J	106.	J	582.		404.	J	303.	J
7439-96-5	Manganese (Mn)	4.5	J	18.6	J	8.1	J	34.4	J	38.7	J	22.9	J
7440-70-2	Calcium (Ca)	550.		1950.		728.		2750.		2220.		2640.	
7440-47-3	Chromium (Cr)			4.3		4.2		6.6		9.5		5.	
7440-31-5	Tin (Sn)	NR		NR		NR		NR		NR		NR	

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 659 Soil Analytical Data

SW846-META							
	SAMPLE ID ------>	659-S-B004-01	659-S-B004-02				
	ORIGINAL ID ----->	659SB00401	659SB00402				
	LAB SAMPLE ID --->	41381-044	41381-045				
	ID FROM REPORT -->	090122	090123				
	SAMPLE DATE ----->	08/31/94	08/31/94				
	DATE EXTRACTED -->	09/02/94	09/02/94				
	DATE ANALYZED --->	09/06/94	09/06/94				
	MATRIX ---------->	Soil	Soil				
	UNITS ---------->	MG/KG	MG/KG				

CAS #	Parameter	CHS09	VAL	CHS09	VAL				
7429-90-5	Aluminum (Al)	5400.		3560.					
7439-89-6	Iron (Fe)	3840.		3160.					
7439-92-1	Lead (Pb)	12.1		3.5					
7440-02-0	Nickel (Ni)								
7440-09-7	Potassium (K)								
7440-22-4	Silver (Ag)								
7440-23-5	Sodium (Na)	271.	J	22.7	J				
7440-28-0	Thallium (Tl)								
7440-36-0	Antimony (Sb)								
7440-38-2	Arsenic (As)	2.3		1.9					
7440-39-3	Barium (Ba)			11.1	J				
7440-41-7	Beryllium (Be)	0.21	J	0.05	J				
7440-43-9	Cadmium (Cd)	0.22	J						
7440-48-4	Cobalt (Co)	1.	J						
7440-50-8	Copper (Cu)								
7440-62-2	Vanadium (V)	16.6		6.3					
7440-66-6	Zinc (Zn)	30.7							
7782-49-2	Selenium (Se)								
7439-97-6	Mercury (Hg)								
7439-95-4	Magnesium (Mg)	1820.		128.	J				
7439-96-5	Manganese (Mn)	35.7	J	9.3	J				
7440-70-2	Calcium (Ca)	58600.		1130.					
7440-47-3	Chromium (Cr)	18.4		4.4					
7440-31-5	Tin (Sn)	NR		NR					

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 659 Soil Analytical Data

SW846-PEST	SAMPLE ID ------>	659-S-B001-01	659-S-B001-02	659-S-B002-01	659-S-B002-02	659-S-B003-01	659-S-B003-01
	ORIGINAL ID ----->	659SB00101	659SB00102	659SB00201	659SB00202	659SB00301	659SB00301
	LAB SAMPLE ID --->	BDB655	BDB656	BDB657	BDB658	BDB659	BDB660
	ID FROM REPORT -->	090116	090117	090118	090119	090120	090120
	SAMPLE DATE ----->	08/31/94	08/31/94	08/31/94	08/31/94	08/31/94	08/31/94
	DATE EXTRACTED -->	09/09/94	09/09/94	09/09/94	09/09/94	09/09/94	
	DATE ANALYZED --->	09/17/94	09/18/94	09/18/94	09/18/94	09/18/94	
	MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
	UNITS ---------->	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG

CAS #	Parameter	CHS09	VAL	CHS09	VAL	CHS09	VAL	CHS09	VAL	CHS09	VAL	CHS09	VAL
11097-69-1	Aroclor-1254												
11104-28-2	Aroclor-1221												
11141-16-5	Aroclor-1232												
12672-29-6	Aroclor-1248												
11096-82-5	Aroclor-1260												
12674-11-2	Aroclor-1016												
53469-21-9	Aroclor-1242												
1024-57-3	Heptachlor epoxide												
1031-07-8	Endosulfan sulfate												
309-00-2	Aldrin												
319-84-6	alpha-BHC												
319-85-7	beta-BHC												
319-86-8	delta-BHC												
33213-65-9	Endosulfan II												
50-29-3	4,4'-DDT												
5103-71-9	alpha-Chlordane												
5103-74-2	gamma-Chlordane											10.	
53494-70-5	Endrin ketone												
58-89-9	gamma-BHC (Lindane)												
60-57-1	Dieldrin												
72-20-8	Endrin												
72-43-5	Methoxychlor												
72-54-8	4,4'-DDD			28.4									47.1
72-55-9	4,4'-DDE			18.3									10.8
7421-93-4	Endrin aldehyde												
76-44-8	Heptachlor												
8001-35-2	Toxaphene												
959-98-8	Endosulfan I												

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 659 Soil Analytical Data

SW846-PEST							
	SAMPLE ID ------->	659-S-B004-01	659-S-B004-02				
	ORIGINAL ID ----->	659SB00401	659SB00402				
	LAB SAMPLE ID --->	BDB661	BDB662				
	ID FROM REPORT -->	090122	090123				
	SAMPLE DATE ----->	08/31/94	08/31/94				
	DATE EXTRACTED -->	09/09/94	09/09/94				
	DATE ANALYZED --->	09/18/94	09/18/94				
	MATRIX ---------->	Soil	Soil				
	UNITS ----------->	UG/KG	UG/KG				

CAS #	Parameter	CHS09 VAL	CHS09 VAL				
11097-69-1	Aroclor-1254						
11104-28-2	Aroclor-1221						
11141-16-5	Aroclor-1232						
12672-29-6	Aroclor-1248						
11096-82-5	Aroclor-1260						
12674-11-2	Aroclor-1016						
53469-21-9	Aroclor-1242						
1024-57-3	Heptachlor epoxide						
1031-07-8	Endosulfan sulfate						
309-00-2	Aldrin						
319-84-6	alpha-BHC						
319-85-7	beta-BHC						
319-86-8	delta-BHC						
33213-65-9	Endosulfan II						
50-29-3	4,4'-DDT						
5103-71-9	alpha-Chlordane						
5103-74-2	gamma-Chlordane						
53494-70-5	Endrin ketone						
58-89-9	gamma-BHC (Lindane)						
60-57-1	Dieldrin						
72-20-8	Endrin						
72-43-5	Methoxychlor						
72-54-8	4,4'-DDD		50.2				
72-55-9	4,4'-DDE		103.				
7421-93-4	Endrin aldehyde						
76-44-8	Heptachlor						
8001-35-2	Toxaphene						
959-98-8	Endosulfan I						

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 659 Soil Analytical Data

SW846-SVOA						
SAMPLE ID ------->	659-S-B001-01	659-S-B001-02	659-S-B002-01	659-S-B002-02	659-S-B003-01	659-S-B003-02
ORIGINAL ID ----->	659SB00101	659SB00102	659SB00201	659SB00202	659SB00301	659SB00302
LAB SAMPLE ID --->	BDB655	BDB656	BDB657	BDB658	BDB659	BDB660
ID FROM REPORT -->	090116	090117	090118	090119	090120	090121
SAMPLE DATE ----->	08/31/94	08/31/94	08/31/94	08/31/94	08/31/94	08/31/94
DATE EXTRACTED -->	09/08/94	09/08/94	09/08/94	09/08/94	09/08/94	09/08/94
DATE ANALYZED --->	09/22/94	09/21/94	09/21/94	09/21/94	09/22/94	09/22/94
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
UNITS ---------->	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG

CAS #	Parameter	CHS09	VAL	CHS09	VAL	CHS09	VAL	CHS09	VAL	CHS09	VAL	CHS09	VAL
62-75-9	N-Nitrosodimethylamine												
606-20-2	2,6-Dinitrotoluene												
108-95-2	Phenol												
99-09-2	3-Nitroaniline												
62-53-3	Aniline												
83-32-9	Acenaphthene							49.4	J				
111-44-4	bis(2-Chloroethyl)ether												
51-28-5	2,4-Dinitrophenol												
95-57-8	2-Chlorophenol												
100-02-7	4-Nitrophenol												
541-73-1	1,3-Dichlorobenzene												
132-64-9	Dibenzofuran			1810.	J			44.9	J			3510.	
106-46-7	1,4-Dichlorobenzene												
121-14-2	2,4-Dinitrotoluene												
100-51-6	Benzyl alcohol												
84-66-2	Diethylphthalate												
95-50-1	1,2-Dichlorobenzene												
7005-72-3	4-Chlorophenylphenylether												
95-48-7	2-Methylphenol (o-Cresol)												
86-73-7	Fluorene												
108-60-1	2,2'-oxybis(1-Chloropropane)												
100-01-6	4-Nitroaniline												
106-44-5	4-Methylphenol (p-Cresol)												
534-52-1	2-Methyl-4,6-Dinitrophenol												
621-64-7	N-Nitroso-di-n-propylamine												
86-30-6	N-Nitrosodiphenylamine												
67-72-1	Hexachloroethane												
101-55-3	4-Bromophenyl-phenylether												
98-95-3	Nitrobenzene												
118-74-1	Hexachlorobenzene												
78-59-1	Isophorone												
87-86-5	Pentachlorophenol												
88-75-5	2-Nitrophenol												
85-01-8	Phenanthrene			2470.				58.8	J			3210.	
105-67-9	2,4-Dimethylphenol												
120-12-7	Anthracene												

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 659 Soil Analytical Data

SW846-SVOA	SAMPLE ID ------>	659-S-B001-01	659-S-B001-02	659-S-B002-01	659-S-B002-02	659-S-B003-01	659-S-B003-02
	ORIGINAL ID ----->	659SB00101	659SB00102	659SB00201	659SB00202	659SB00301	659SB00302
	LAB SAMPLE ID --->	BDB655	BDB656	BDB657	BDB658	BDB659	BDB660
	ID FROM REPORT -->	090116	090117	090118	090119	090120	090121
	SAMPLE DATE ----->	08/31/94	08/31/94	08/31/94	08/31/94	08/31/94	08/31/94
	DATE EXTRACTED -->	09/08/94	09/08/94	09/08/94	09/08/94	09/08/94	09/08/94
	DATE ANALYZED --->	09/22/94	09/21/94	09/21/94	09/21/94	09/22/94	09/22/94
	MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
	UNITS ----------->	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG

CAS #	Parameter	CHS09	VAL	CHS09	VAL	CHS09	VAL	CHS09	VAL	CHS09	VAL	CHS09	VAL
65-85-0	Benzoic acid												
84-74-2	Di-n-butylphthalate	52.	J										
111-91-1	bis(2-Chloroethoxy)methane												
206-44-0	Fluoranthene			345.	J							94.5	J
120-83-2	2,4-Dichlorophenol												
92-87-5	Benzidine												
120-82-1	1,2,4-Trichlorobenzene												
129-00-0	Pyrene			428.								375.	J
91-20-3	Naphthalene			5150.	J							3960.	
85-68-7	Butylbenzylphthalate												
106-47-8	4-Chloroaniline												
91-94-1	3,3'-Dichlorobenzidine												
87-68-3	Hexachlorobutadiene												
56-55-3	Benzo(a)anthracene			70.5	J								
59-50-7	4-Chloro-3-methylphenol												
218-01-9	Chrysene											82.	J
91-57-6	2-Methylnaphthalene			9650.	J							11100.	
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	106.	J										
77-47-4	Hexachlorocyclopentadiene												
117-84-0	Di-n-octyl phthalate												
88-06-2	2,4,6-Trichlorophenol												
205-99-2	Benzo(b)fluoranthene			73.6	J								
95-95-4	2,4,5-Trichlorophenol												
207-08-9	Benzo(k)fluoranthene												
91-58-7	2-Chloronaphthalene												
50-32-8	Benzo(a)pyrene												
88-74-4	2-Nitroaniline												
193-39-5	Indeno(1,2,3-cd)pyrene												
131-11-3	Dimethyl phthalate												
53-70-3	Dibenz(a,h)anthracene												
208-96-8	Acenaphthylene												
191-24-2	Benzo(g,h,i)perylene												
110-86-1	Pyridine	NR		NR		NR		NR		NR		NR	
103-33-3	Azobenzene	NR		NR		NR		NR		NR		NR	
86-74-8	Carbazole	NR		NR		NR		NR		NR		NR	

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 659 Soil Analytical Data

SW846-SVOA							
SAMPLE ID ------>	659-S-B004-01		659-S-B004-02				
ORIGINAL ID ----->	659SB00401		659SB00402				
LAB SAMPLE ID --->	BDB661		BDB662				
ID FROM REPORT -->	090122		090123				
SAMPLE DATE ----->	08/31/94		08/31/94				
DATE EXTRACTED -->	09/08/94		09/08/94				
DATE ANALYZED --->	09/22/94		09/22/94				
MATRIX ---------->	Soil		Soil				
UNITS ---------->	UG/KG		UG/KG				
CAS #	Parameter	CHS09 VAL	CHS09 VAL				
62-75-9	N-Nitrosodimethylamine						
606-20-2	2,6-Dinitrotoluene						
108-95-2	Phenol						
99-09-2	3-Nitroaniline						
62-53-3	Aniline						
83-32-9	Acenaphthene						
111-44-4	bis(2-Chloroethyl)ether						
51-28-5	2,4-Dinitrophenol						
95-57-8	2-Chlorophenol						
100-02-7	4-Nitrophenol						
541-73-1	1,3-Dichlorobenzene						
132-64-9	Dibenzofuran		152. J				
106-46-7	1,4-Dichlorobenzene						
121-14-2	2,4-Dinitrotoluene						
100-51-6	Benzyl alcohol						
84-66-2	Diethylphthalate						
95-50-1	1,2-Dichlorobenzene						
7005-72-3	4-Chlorophenylphenylether						
95-48-7	2-Methylphenol (o-Cresol)						
86-73-7	Fluorene						
108-60-1	2,2'-oxybis(1-Chloropropane)						
100-01-6	4-Nitroaniline						
106-44-5	4-Methylphenol (p-Cresol)						
534-52-1	2-Methyl-4,6-Dinitrophenol						
621-64-7	N-Nitroso-di-n-propylamine						
86-30-6	N-Nitrosodiphenylamine						
67-72-1	Hexachloroethane						
101-55-3	4-Bromophenyl-phenylether						
98-95-3	Nitrobenzene						
118-74-1	Hexachlorobenzene						
78-59-1	Isophorone						
87-86-5	Pentachlorophenol						
88-75-5	2-Nitrophenol						
85-01-8	Phenanthrene		517.				
105-67-9	2,4-Dimethylphenol						
120-12-7	Anthracene						

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 659 Soil Analytical Data

SW846-SVOA							
SAMPLE ID ------->	659-S-B004-01	659-S-B004-02					
ORIGINAL ID ----->	659SB00401	659SB00402					
LAB SAMPLE ID --->	BDB661	BDB662					
ID FROM REPORT -->	090122	090123					
SAMPLE DATE ----->	08/31/94	08/31/94					
DATE EXTRACTED -->	09/08/94	09/08/94					
DATE ANALYZED --->	09/22/94	09/22/94					
MATRIX ---------->	Soil	Soil					
UNITS ---------->	UG/KG	UG/KG					

CAS #	Parameter	CHS09 VAL	CHS09 VAL				
65-85-0	Benzoic acid						
84-74-2	Di-n-butylphthalate						
111-91-1	bis(2-Chloroethoxy)methane						
206-44-0	Fluoranthene						
120-83-2	2,4-Dichlorophenol						
92-87-5	Benzidine						
120-82-1	1,2,4-Trichlorobenzene						
129-00-0	Pyrene						
91-20-3	Naphthalene		490.				
85-68-7	Butylbenzylphthalate						
106-47-8	4-Chloroaniline						
91-94-1	3,3'-Dichlorobenzidine						
87-68-3	Hexachlorobutadiene						
56-55-3	Benzo(a)anthracene						
59-50-7	4-Chloro-3-methylphenol						
218-01-9	Chrysene						
91-57-6	2-Methylnaphthalene		1740.				
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	423.					
77-47-4	Hexachlorocyclopentadiene						
117-84-0	Di-n-octyl phthalate						
88-06-2	2,4,6-Trichlorophenol						
205-99-2	Benzo(b)fluoranthene						
95-95-4	2,4,5-Trichlorophenol						
207-08-9	Benzo(k)fluoranthene						
91-58-7	2-Chloronaphthalene						
50-32-8	Benzo(a)pyrene						
88-74-4	2-Nitroaniline						
193-39-5	Indeno(1,2,3-cd)pyrene						
131-11-3	Dimethyl phthalate						
53-70-3	Dibenz(a,h)anthracene						
208-96-8	Acenaphthylene						
191-24-2	Benzo(g,h,i)perylene						
110-86-1	Pyridine	NR	NR				
103-33-3	Azobenzene	NR	NR				
86-74-8	Carbazole	NR	NR				

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 659 Soil Analytical Data

SW846-VOA	SAMPLE ID ------>	659-S-B001-01	659-S-B001-02	659-S-B002-01	659-S-B002-02	659-S-B003-01	659-S-B003-02
	ORIGINAL ID ----->	659SB00101	659SB00102	659SB00201	659SB00202	659SB00301	659SB00302
	LAB SAMPLE ID --->	BDB655	BDB656	BDB657	BDB658	BDB659	BDB660
	ID FROM REPORT -->	090116	090117	090118	090119	090120	090121
	SAMPLE DATE ----->	08/31/94	08/31/94	08/31/94	08/31/94	08/31/94	08/31/94
	DATE ANALYZED --->	09/09/94	09/12/94	09/09/94	09/08/94	09/09/94	09/08/94
	MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
	UNITS ---------->	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG

CAS #	Parameter	CHS09	VAL	CHS09	VAL	CHS09	VAL	CHS09	VAL	CHS09	VAL	CHS09	VAL
100-41-4	Ethylbenzene											2660.	
100-42-5	Styrene												
10061-01-5	cis-1,3-Dichloropropene												
10061-02-6	trans-1,3-Dichloropropene												
107-06-2	1,2-Dichloroethane												
108-05-4	Vinyl acetate												
108-10-1	4-Methyl-2-Pentanone (MIBK)												
108-88-3	Toluene											395.	J
108-90-7	Chlorobenzene												
109-99-9	Tetrahydrofuran												
124-48-1	Dibromochloromethane												
127-18-4	Tetrachloroethene												
1330-20-7	Xylene (Total)												
540-59-0	1,2-Dichloroethene (total)												
56-23-5	Carbon tetrachloride												
591-78-6	2-Hexanone												
67-64-1	Acetone							71.1	J				
67-66-3	Chloroform												
71-43-2	Benzene												
71-55-6	1,1,1-Trichloroethane												
74-83-9	Bromomethane												
74-87-3	Chloromethane												
75-00-3	Chloroethane												
75-01-4	Vinyl chloride												
75-09-2	Methylene chloride			264.	J							328.	J
75-15-0	Carbon disulfide												
75-25-2	Bromoform												
75-27-4	Bromodichloromethane												
75-34-3	1,1-Dichloroethane												
75-35-4	1,1-Dichloroethene												
75-69-4	Trichlorofluoromethane												
78-87-5	1,2-Dichloropropane												
78-93-3	2-Butanone (MEK)												
79-00-5	1,1,2-Trichloroethane												
79-01-6	Trichloroethene												
79-34-5	1,1,2,2-Tetrachloroethane												

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 659 Soil Analytical Data

SW846-VOA							
	SAMPLE ID ------->	659-S-B004-01	659-S-B004-02				
	ORIGINAL ID ----->	659SB00401	659SB00402				
	LAB SAMPLE ID --->	BDB661	BDB662				
	ID FROM REPORT -->	090122	090123				
	SAMPLE DATE ----->	08/31/94	08/31/94				
	DATE ANALYZED --->	09/08/94	09/08/94				
	MATRIX ---------->	Soil	Soil				
	UNITS ----------->	UG/KG	UG/KG				

CAS #	Parameter	CHS09	VAL	CHS09	VAL				
100-41-4	Ethylbenzene			3.59					
100-42-5	Styrene								
10061-01-5	cis-1,3-Dichloropropene								
10061-02-6	trans-1,3-Dichloropropene								
107-06-2	1,2-Dichloroethane								
108-05-4	Vinyl acetate								
108-10-1	4-Methyl-2-Pentanone (MIBK)								
108-88-3	Toluene								
108-90-7	Chlorobenzene								
109-99-9	Tetrahydrofuran								
124-48-1	Dibromochloromethane								
127-18-4	Tetrachloroethene								
1330-20-7	Xylene (Total)								
540-59-0	1,2-Dichloroethene (total)								
56-23-5	Carbon tetrachloride								
591-78-6	2-Hexanone								
67-64-1	Acetone	8.75	J	45.6	J				
67-66-3	Chloroform								
71-43-2	Benzene								
71-55-6	1,1,1-Trichloroethane								
74-83-9	Bromomethane								
74-87-3	Chloromethane								
75-00-3	Chloroethane								
75-01-4	Vinyl chloride								
75-09-2	Methylene chloride								
75-15-0	Carbon disulfide								
75-25-2	Bromoform								
75-27-4	Bromodichloromethane								
75-34-3	1,1-Dichloroethane								
75-35-4	1,1-Dichloroethene								
75-69-4	Trichlorofluoromethane								
78-87-5	1,2-Dichloropropane								
78-93-3	2-Butanone (MEK)								
79-00-5	1,1,2-Trichloroethane								
79-01-6	Trichloroethene								
79-34-5	1,1,2,2-Tetrachloroethane								

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 659 Soil Analytical Data

TPH-IR						
SAMPLE ID ------->	659-S-B001-01	659-C-B001-01	659-S-B001-02	659-S-B002-01	659-S-B002-02	659-S-B003-01
ORIGINAL ID ----->	659SB00101	659CB00101	659SB00102	659SB00201	659SB00202	659SB00301
LAB SAMPLE ID --->	41381-053	41382-005	41381-054	41381-055	41381-056	41381-057
ID FROM REPORT -->	090116	090107	090117	090118	090119	090120
SAMPLE DATE ----->	08/31/94	08/31/94	08/31/94	08/31/94	08/31/94	08/31/94
DATE EXTRACTED -->	09/07/94	09/08/94	09/07/94	09/07/94	09/07/94	09/07/94
DATE ANALYZED --->	09/08/94	09/09/94	09/08/94	09/08/94	09/08/94	09/08/94
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
UNITS ---------->	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG

CAS #	Parameter	CHS09	VAL	APX02	VAL	CHS09	VAL	CHS09	VAL	CHS09	VAL	CHS09	VAL
9999900-02-4	Petroleum Hydrocarbons, TPH	170.		190.		6100.		160.					

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 659 Soil Analytical Data

TPH-IR						
SAMPLE ID ------->	659-S-B003-02	659-S-B004-01	659-S-B004-02			
ORIGINAL ID ----->	659SB00302	659SB00401	659SB00402			
LAB SAMPLE ID --->	41381-058	41381-059	41381-060			
ID FROM REPORT -->	090121	090122	090123			
SAMPLE DATE ----->	08/31/94	08/31/94	08/31/94			
DATE EXTRACTED -->	09/07/94	09/07/94	09/07/94			
DATE ANALYZED --->	09/08/94	09/08/94	09/08/94			
MATRIX ---------->	Soil	Soil	Soil			
UNITS ---------->	MG/KG	MG/KG	MG/KG			

CAS #	Parameter	CHS09	VAL	CHS09	VAL	CHS09	VAL			
9999900-02-4	Petroleum Hydrocarbons, TPH	15000.		77.		2200.				

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Groundwater Screening Data for AOC 659

SW-VOA									
	SAMPLE ID ------->	659-G-P001-15		659-G-P002-15					
	ORIGINAL ID ----->	659GP00115		659GP00215					
	LAB SAMPLE ID --->	7834-10		7834-09					
	ID FROM REPORT -->	659GP00115		659GP00215					
	SAMPLE DATE ----->	06/25/97		06/25/97					
	DATE ANALYZED --->	06/26/97		06/26/97					
	MATRIX ---------->	Water		Water					
	UNITS ---------->	UG/L		UG/L					
CAS #	Parameter	7834	VAL	7834	VAL				
74-87-3	Chloromethane	5.	U	5.	U				
74-83-9	Bromomethane	5.	U	5.	U				
75-01-4	Vinyl chloride	5.	U	5.	U				
75-00-3	Chloroethane	5.	U	5.	U				
75-09-2	Methylene chloride	5.	U	5.	U				
67-64-1	Acetone	10.	U	10.	U				
75-15-0	Carbon disulfide	5.	U	5.	U				
75-35-4	1,1-Dichloroethene	5.	U	5.	U				
75-34-3	1,1-Dichloroethane	5.	U	5.	U				
108-05-4	Vinyl acetate	10.	U	10.	U				
156-60-5	trans-1,2-Dichloroethene	5.	U	5.	U				
67-66-3	Chloroform	5.	U	5.	U				
107-06-2	1,2-Dichloroethane	5.	U	5.	U				
71-55-6	1,1,1-Trichloroethane	5.	U	5.	U				
78-93-3	2-Butanone (MEK)	10.	U	10.	U				
56-23-5	Carbon tetrachloride	5.	U	5.	U				
75-27-4	Bromodichloromethane	5.	U	5.	U				
78-87-5	1,2-Dichloropropane	5.	U	5.	U				
10061-01-5	cis-1,3-Dichloropropene	5.	U	5.	U				
79-01-6	Trichloroethene	5.	U	5.	U				
124-48-1	Dibromochloromethane	5.	U	5.	U				
79-00-5	1,1,2-Trichloroethane	5.	U	5.	U				
71-43-2	Benzene	4.	J	5.	U				
10061-02-6	trans-1,3-Dichloropropene	5.	U	5.	U				
75-25-2	Bromoform	5.	U	5.	U				
127-18-4	Tetrachloroethene	5.	U	5.	U				
79-34-5	1,1,2,2-Tetrachloroethane	5.	U	5.	U				
108-10-1	4-Methyl-2-Pentanone (MIBK)	10.	U	10.	U				
108-88-3	Toluene	5.	U	5.	U				
591-78-6	2-Hexanone	10.	UJ	10.	UJ				
108-90-7	Chlorobenzene	5.	U	5.	U				
100-41-4	Ethylbenzene	5.	U	5.	U				
100-42-5	Styrene	5.	U	5.	U				
110-75-8	2-Chloroethyl vinyl ether	5.	U	5.	U				
9999900-02-9	Xylenes (Total)	5.	U	5.	U				

*** Validation Complete ***

06/25/97 16:44 TEL 7477306 ENSAFE ALLEN HOS →→→ CHARSAFE 001

NAVY CLEAN
ENSAFE/ALLEN&HOSHALL
(901) 383-9115

CHAIN OF CUSTODY RECORD

PAGE 1 OF 2

CTO-TASK: 2908-08420
COC #:
BPA/SO: PO3 REL 18 CEMIC

CLIENT Naval Base Charleston
ADDRESS Zone H
PROJECT NAME/NUMBER 2908-08420
SAMPLERS: (SIGNATURE) C Davis

PROJECT MANAGER Charlie Vernon
TELEPHONE NO. (803) 884-0029
FAX. NO. (803) 856-0107

FIELD SAMPLE NUMBER	DATE	TIME	SAMPLE TYPE	TYPE/SIZE OF CONTAINER	PRESERVATION TEMP.	PRESERVATION CHEMICAL	NO. OF CONTAINERS	VOA	REMARKS
NBCH667GP003-15	6/25/97	0850	Water	40 mL	4C	HCL	2	X	DQO Level III *
NBCH667GP004-15	"	0910	"	"	"	"	2	X	*
NBCH667GP005-15	"	0925	"	"	"	"	2	X	*
NBCH667GP008-15	"	0945	"	"	"	"	2	X	*
NBCH667GP007-15	"	1000	"	"	"	"	2	X	*
NBCH667GP006-15	"	1010	"	"	"	"	2	X	*
NBCH667GP002-15	"	1100	"	"	"	"	2	X	*
NBCH667GP001-15	"	1115	"	"	"	"	2	X	*
NBCH659GP002-15	"	1325	"	"	"	"	2	X	*
NBCH659GP001-15	"	1330	"	"	"	"	2	X	*

ANALYSIS REQUIRED

RELINQUISHED BY:	DATE	RECEIVED BY:	DATE	RELINQUISHED BY:	DATE	RECEIVED BY:	DATE
SIGNATURE C Davis	6/25/97	SIGNATURE		SIGNATURE		SIGNATURE	
PRINTED C Davis	TIME	PRINTED	TIME	PRINTED	TIME	PRINTED	TIME
COMPANY EnSafe	1700	COMPANY		COMPANY		COMPANY	
REASON Lab		REASON		REASON		REASON	

METHOD OF SHIPMENT: FedEx
SHIPMENT NO. 566364527 1
SPECIAL INSTRUCTION:

COMMENTS: *Preservative in Samples
All Samples DQO Lvl 2

AFTER ANALYSIS, SAMPLES ARE TO BE:
- [X] DISPOSED OF
- [ ] STORED (90 DAYS MAX)
- [ ] STORED OVER 90 DAYS
- [ ] RETURNED TO CUSTOMER

ANALYTICAL DATA RECEIVED BY (INITIALS/DATE)

CLNCOCR1

PAGE 2 OF 3

NAVY CLEAN
ENSAFE/ALLEN&HOSHALL
(901) 383-9115

CHAIN OF CUSTODY RECORD

CTO-TASK: 2908-08420
COC #:
BPA/SO: PO 3 REL 15 CEMIC

CLIENT Naval Base Charleston
ADDRESS Zone H
PROJECT NAME/NUMBER 2908-08420
SAMPLERS: (SIGNATURE)

PROJECT MANAGER Charlie Vernoy
TELEPHONE NO. (803)884-0029
FAX. NO. (803)856-0107

FIELD SAMPLE NUMBER	DATE	TIME	SAMPLE TYPE	TYPE/SIZE OF CONTAINER	PRESERVATION TEMP.	PRESERVATION CHEMICAL	NO. OF CONTAINERS	ANALYSIS REQUIRED: VOA	REMARKS
NBCHC59TP001-01	6-25-97	1330	Water	40mL	4°C	HCl	1	X	DQO Level II

6-25-97

RELINQUISHED BY:	DATE	RECEIVED BY:	DATE	RELINQUISHED BY:	DATE	RECEIVED BY:	DATE
SIGNATURE	6/25/97	SIGNATURE		SIGNATURE		SIGNATURE	
PRINTED C Davis	TIME	PRINTED	TIME	PRINTED	TIME	PRINTED	TIME
COMPANY EnSafe	1700	COMPANY		COMPANY		COMPANY	
REASON Lab		REASON		REASON		REASON	

METHOD OF SHIPMENT: FedEX
SHIPMENT NO. 566636452 71
SPECIAL INSTRUCTION:

COMMENTS:

AFTER ANALYSIS, SAMPLES ARE TO BE:
- [x] DISPOSED OF
- [ ] STORED (90 DAYS MAX)
- [ ] STORED OVER 90 DAYS
- [ ] RETURNED TO CUSTOMER

ANALYTICAL DATA RECEIVED BY (INITIALS/DATE)

CLNCOCR1

APPENDIX B

AOC 661 ANALYTICAL DATA FOR SOIL

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
AOC 661 Analytical Data for Soil

EXPLOSIVE											
	SAMPLE ID ------->	661-S-B001-01		661-S-B002-01		661-S-B003-01					
	ORIGINAL ID ----->	661SB00101		661SB00201		661SB00301					
	LAB SAMPLE ID --->	8017-01		8017-02		8017-03					
	ID FROM REPORT -->	661SB00101		661SB00201		661SB00301					
	SAMPLE DATE ----->	08/01/97		08/01/97		08/01/97					
	DATE EXTRACTED -->	08/03/97		08/03/97		08/03/97					
	DATE ANALYZED --->	08/04/97		08/04/97		08/04/97					
	MATRIX ---------->	Soil		Soil		Soil					
	UNITS ---------->	UG/KG		UG/KG		UG/KG					
CAS #	Parameter	8017		8017		8017					
118-96-7	Trinitrotoluene, 2,4,6- (TNT)	500.	U	500.	U	500.	U				
121-14-2	2,4-Dinitrotoluene	500.	U	500.	U	500.	U				
121-82-4	RDX (Cyclonite)	500.	U	500.	U	500.	U				
92-67-1	4-Aminobiphenyl	500.	U	500.	U	500.	U				
25377-32-6	1,3,5-Trinitrobenzene	500.	U	500.	U	500.	U				
2691-41-0	HMX	500.	U	500.	U	500.	U				
35572-78-2	2-Am-DNT	500.	U	500.	U	500.	U				
479-45-8	Tetryl	500.	U	500.	U	500.	U				
606-20-2	2,6-Dinitrotoluene	500.	U	500.	U	500.	U				
88-72-2	o-Nitrotoluene	500.	U	500.	U	500.	U				
98-95-3	Nitrobenzene	500.	U	500.	U	500.	U				
99-08-1	m-Nitrotoluene	500.	U	500.	U	500.	U				
99-65-0	1,3-Dinitrobenzene	500.	U	500.	U	500.	U				
99-99-0	p-Nitrotoluene	500.	U	500.	U	500.	U				

PAGE 1 OF 1

NAVY CLEAN
ENSAFE/ALLEN&HOSHALL
(901) 383-9115

CHAIN OF CUSTODY RECORD

CTO-TASK:
COC #:
BPA/SO: BO3 REL18
Comic

CLIENT Naval Base Charleston
ADDRESS Zone H
PROJECT NAME/NUMBER 2908-0E420
SAMPLERS: (SIGNATURE)

PROJECT MANAGER Charlie Verney
TELEPHONE NO. 803-884-0029
FAX. NO. 803-856-0107

FIELD SAMPLE NUMBER	DATE	TIME	SAMPLE TYPE	TYPE/SIZE OF CONTAINER	PRESERVATION TEMP.	PRESERVATION CHEMICAL	NO. OF CONTAINERS	ANALYSIS REQUIRED: Explosives	REMARKS
NBCH66ISBC0101	8-1-97	1330	Soil	9oz Glass	4°C	None	1	X	7 Day Turn
NBCH66ISBC0201	8-1-97	1340	↓	↓	↓	↓	1	X	
NBCH66ISBC0301	8-1-97	1335	↓	↓	↓	↓	1	X	

RELINQUISHED BY:	DATE	RECEIVED BY:	DATE	RELINQUISHED BY:	DATE	RECEIVED BY:	DATE
SIGNATURE	8/1/97	SIGNATURE		SIGNATURE		SIGNATURE	
PRINTED Todd B Temple	TIME	PRINTED	TIME	PRINTED	TIME	PRINTED	TIME
COMPANY ENSAFE	1600	COMPANY		COMPANY		COMPANY	
REASON Ship to Lab		REASON		REASON		REASON	

METHOD OF SHIPMENT: FedEx
SHIPMENT NO. 566364640
SPECIAL INSTRUCTION: Store at 4°C

COMMENTS: DO 3 + TCL

AFTER ANALYSIS, SAMPLES ARE TO BE:
- ☒ DISPOSED OF
- ☐ STORED (90 DAYS MAX)
- ☐ STORED OVER 90 DAYS
- ☐ RETURNED TO CUSTOMER

ANALYTICAL DATA RECEIVED BY (INITIALS/DATE)

CLNCOCR1

APPENDIX C

AOC 665 SOIL ANALYTICAL DATA

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 665 Soil Analytical Data

APX9-DIOXI

SAMPLE ID ------->	665-C-B002-02
ORIGINAL ID ----->	665CB00202
LAB SAMPLE ID --->	IK1120-1
ID FROM REPORT -->	082721
SAMPLE DATE ----->	08/26/94
DATE EXTRACTED -->	09/06/94
DATE ANALYZED --->	09/15/94
MATRIX ---------->	Soil
UNITS ----------->	PG/G

CAS #	Parameter	APX02	VAL
1746-01-6	2378-TCDD		
19408-74-3	123789-HxCDD	1.3444	EMPC
3268-87-9	OCDD	177.87	J
35822-46-9	1234678-HpCDD	15.0242	J
39001-02-0	OCDF		
39227-28-6	123478-HxCDD	0.3881	EMPC
40321-76-4	12378-PeCDD		
51207-31-9	2378-TCDF		
55673-89-7	1234789-HpCDF		
57117-31-4	23478-PeCDF		
57117-41-6	12378-PeCDF		
57117-44-9	123678-HxCDF		
57653-85-7	123678-HxCDD	0.6949	EMPC
60851-34-5	234678-HxCDF		
67562-39-4	1234678-HpCDF		
70648-26-9	123478-HxCDF		
72918-21-9	123789-HxCDF		
41903-57-5	Total Tetra-Dioxins	2.7833	EMPC
36088-22-9	Total Penta-Dioxins	2.5838	EMPC
34465-46-8	Total Hexa-Dioxins	30.744	J
37871-00-4	Total Hepta-Dioxins	45.4523	J
55722-27-5	Total Tetra-Furans		
30602-15-4	Total Penta-Furans	0.8955	EMPC
55684-94-1	Total Hexa-Furans		
38998-75-3	Total Hepta-Furans	4.7839	EMPC

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 665 Soil Analytical Data

APX9-HERB	**SAMPLE ID ------->**	665-C-B002-02					
	ORIGINAL ID ----->	665CB00202					
	LAB SAMPLE ID --->	TJ1-001					
	ID FROM REPORT -->	082721					
	SAMPLE DATE ----->	08/26/94					
	DATE EXTRACTED -->	08/31/94					
	DATE ANALYZED --->	09/13/94					
	MATRIX ---------->	Soil					
	UNITS ----------->	UG/KG					
CAS #	Parameter	APX02	VAL				
93-72-1	2,4,5-TP (Silvex)						
93-76-5	2,4,5-T						
94-75-7	2,4-D						

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 665 Soil Analytical Data

APX9-METAL

SAMPLE ID ------->	665-C-B002-02
ORIGINAL ID ----->	665CB00202
LAB SAMPLE ID --->	41334-001
ID FROM REPORT -->	082721
SAMPLE DATE ----->	08/26/94
DATE EXTRACTED -->	08/29/94
DATE ANALYZED --->	08/30/94
MATRIX ---------->	Soil
UNITS ----------->	MG/KG

CAS #	Parameter	APX02	VAL
7439-92-1	Lead (Pb)		
7439-97-6	Mercury (Hg)		
7440-02-0	Nickel (Ni)		
7440-22-4	Silver (Ag)		
7440-31-5	Tin (Sn)	2.2	J
7440-36-0	Antimony (Sb)		
7440-38-2	Arsenic (As)	3.3	J
7440-39-3	Barium (Ba)		
7440-41-7	Beryllium (Be)	0.19	J
7440-43-9	Cadmium (Cd)		
7440-47-3	Chromium (Cr)	5.4	
7440-48-4	Cobalt (Co)		
7440-50-8	Copper (Cu)		
7440-62-2	Vanadium (V)	5.8	
7440-66-6	Zinc (Zn)		
7782-49-2	Selenium (Se)		
7440-28-0	Thallium (Tl)		

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 665 Soil Analytical Data

APX9-OP PE							
	SAMPLE ID ------->	665-C-B002-02					
	ORIGINAL ID ----->	665CB00202					
	LAB SAMPLE ID --->	TJI-001					
	ID FROM REPORT -->	082721					
	SAMPLE DATE ----->	08/26/94					
	DATE EXTRACTED -->	09/08/94					
	DATE ANALYZED --->	09/09/94					
	MATRIX ---------->	Soil					
	UNITS ---------->	UG/KG					
CAS #	Parameter	APX02	VAL				
126-68-1	O,O,O-Triethylphosphorothioate						
297-97-2	Thionazin						
298-00-0	Methyl parathion						
298-02-2	Phorate						
298-04-4	Disulfoton						
3689-24-5	Sulfotep						
52-85-7	Famphur						
56-38-2	Parathion						
60-51-5	Dimethoate						

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 665 Soil Analytical Data

APX9-PEST							
	SAMPLE ID ------->	665-C-B002-02					
	ORIGINAL ID ----->	665CB00202					
	LAB SAMPLE ID --->	TJ1-001					
	ID FROM REPORT -->	082721					
	SAMPLE DATE ----->	08/26/94					
	DATE EXTRACTED -->	09/02/94					
	DATE ANALYZED --->	09/08/94					
	MATRIX ---------->	Soil					
	UNITS ---------->	UG/KG					
CAS #	Parameter	APX02 VAL					
309-00-2	Aldrin						
319-84-6	alpha-BHC						
319-85-7	beta-BHC						
319-86-8	delta-BHC						
58-89-9	gamma-BHC (Lindane)						
5103-71-9	alpha-Chlordane						
5103-74-2	gamma-Chlordane						
510-15-6	Chlorobenzilate						
72-54-8	4,4'-DDD						
72-55-9	4,4'-DDE						
50-29-3	4,4'-DDT						
2303-16-4	Diallate						
60-57-1	Dieldrin						
959-98-8	Endosulfan I						
33213-65-9	Endosulfan II						
1031-07-8	Endosulfan sulfate						
72-20-8	Endrin						
7421-93-4	Endrin aldehyde						
76-44-8	Heptachlor						
1024-57-3	Heptachlor epoxide						
465-73-6	Isodrin						
143-50-0	Kepone						
72-43-5	Methoxychlor						
8001-35-2	Toxaphene						
12674-11-2	Aroclor-1016						
11104-28-2	Aroclor-1221						
11141-16-5	Aroclor-1232						
53469-21-9	Aroclor-1242						
12672-29-6	Aroclor-1248						
11097-69-1	Aroclor-1254						
11096-82-5	Aroclor-1260						

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 665 Soil Analytical Data

APX9-SVOA							
	SAMPLE ID ------->	665-C-B002-02					
	ORIGINAL ID ----->	665CB00202					
	LAB SAMPLE ID --->	TJ1-001					
	ID FROM REPORT -->	082721					
	SAMPLE DATE ----->	08/26/94					
	DATE EXTRACTED -->	09/06/94					
	DATE ANALYZED --->	09/09/94					
	MATRIX ---------->	Soil					
	UNITS ---------->	UG/KG					
CAS #	Parameter	APX02 VAL					
83-32-9	Acenaphthene						
208-96-8	Acenaphthylene						
98-86-2	Acetophenone						
53-96-3	Acetamidofluorene						
92-67-1	4-Aminobiphenyl						
62-53-3	Aniline						
120-12-7	Anthracene						
140-57-8	Aramite						
56-55-3	Benzo(a)anthracene						
205-99-2	Benzo(b)fluoranthene						
207-08-9	Benzo(k)fluoranthene						
191-24-2	Benzo(g,h,i)perylene						
50-32-8	Benzo(a)pyrene						
100-51-6	Benzyl alcohol						
111-91-1	bis(2-Chloroethoxy)methane						
111-44-4	bis(2-Chloroethyl)ether						
108-60-1	2,2'-oxybis(1-Chloropropane)						
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)						
101-55-3	4-Bromophenyl-phenylether						
85-68-7	Butylbenzylphthalate						
106-47-8	4-Chloroaniline						
59-50-7	4-Chloro-3-methylphenol						
91-58-7	2-Chloronaphthalene						
95-57-8	2-Chlorophenol						
7005-72-3	4-Chlorophenylphenylether						
218-01-9	Chrysene						
95-48-7	2-Methylphenol (o-Cresol)						
108-39-4	3-Methylphenol (m-Cresol)						
106-44-5	4-Methylphenol (p-Cresol)						
53-70-3	Dibenz(a,h)anthracene						
132-64-9	Dibenzofuran						
95-50-1	1,2-Dichlorobenzene						
541-73-1	1,3-Dichlorobenzene						
106-46-7	1,4-Dichlorobenzene						
91-94-1	3,3'-Dichlorobenzidine						
120-83-2	2,4-Dichlorophenol						

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 665 Soil Analytical Data

APX9-SVOA		
	SAMPLE ID ------->	665-C-B002-02
	ORIGINAL ID ----->	665CB00202
	LAB SAMPLE ID --->	TJ1-001
	ID FROM REPORT -->	082721
	SAMPLE DATE ----->	08/26/94
	DATE EXTRACTED -->	09/06/94
	DATE ANALYZED --->	09/09/94
	MATRIX ---------->	Soil
	UNITS ----------->	UG/KG

CAS #	Parameter	APX02	VAL
87-65-0	2,6-Dichlorophenol		
84-66-2	Diethylphthalate		
60-11-7	p-(Dimethylamino)azobenzene		
57-97-6	7,12-Dimethylbenz(a)anthracene		
119-93-7	3,3-Dimethylbenzidine		
122-09-8	a,a-Dimethylphenethylamine		
131-11-3	Dimethyl phthalate		
105-67-9	2,4-Dimethylphenol		
84-74-2	Di-n-butylphthalate		
99-65-0	1,3-Dinitrobenzene		
534-52-1	2-Methyl-4,6-Dinitrophenol		
51-28-5	2,4-Dinitrophenol		
88-85-7	Dinoseb		
121-14-2	2,4-Dinitrotoluene		
606-20-2	2,6-Dinitrotoluene		
117-84-0	Di-n-octyl phthalate		
122-39-4	Diphenylamine		
97-63-2	Ethyl methacrylate		
62-50-0	Ethyl methanesulfonate		
206-44-0	Fluoranthene		
86-73-7	Fluorene		
118-74-1	Hexachlorobenzene		
87-68-3	Hexachlorobutadiene		
77-47-4	Hexachlorocyclopentadiene		
67-72-1	Hexachloroethane		
70-30-4	Hexachlorophene		
1888-71-7	Hexachloropropene		
193-39-5	Indeno(1,2,3-cd)pyrene		
78-59-1	Isophorone		
120-58-1	Isosafrole		
91-80-5	Methapyrilene		
56-49-5	3-Methyl cholanthrene		
80-62-6	Methyl methacrylate		
66-27-3	Methyl methanesulfonate		
91-57-6	2-Methylnaphthalene		
91-20-3	Naphthalene		

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 665 Soil Analytical Data

APX9-SVOA		
	SAMPLE ID ------->	665-C-B002-02
	ORIGINAL ID ----->	665CB00202
	LAB SAMPLE ID --->	TJI-001
	ID FROM REPORT -->	082721
	SAMPLE DATE ----->	08/26/94
	DATE EXTRACTED -->	09/06/94
	DATE ANALYZED --->	09/09/94
	MATRIX ---------->	Soil
	UNITS ----------->	UG/KG

CAS #	Parameter	APX02	VAL
130-15-4	1,4-Naphthoquinone		
134-32-7	1-Naphthylamine		
91-59-8	2-Naphthylamine		
88-74-4	2-Nitroaniline		
99-09-2	3-Nitroaniline		
100-01-6	4-Nitroaniline		
98-95-3	Nitrobenzene		
88-75-5	2-Nitrophenol		
100-02-7	4-Nitrophenol		
56-57-5	4-Nitroquinoline 1-oxide		
924-16-3	N-Nitroso-di-n-butylamine		
55-18-5	N-Nitrosodiethylamine		
62-75-9	N-Nitrosodimethylamine		
86-30-6	N-Nitrosodiphenylamine		
621-64-7	N-Nitroso-di-n-propylamine		
10595-95-6	N-Nitrosomethylethylamine		
59-89-2	N-Nitrosomorpholine		
100-75-4	N-Nitrosopiperidine		
930-55-2	N-Nitrosopyrrolidine		
99-55-8	5-Nitro-o-toluidine		
608-93-5	Pentachlorobenzene		
76-01-7	Pentachloroethane		
82-68-8	Pentachloronitrobenzene		
87-86-5	Pentachlorophenol		
62-44-2	Phenacetin		
85-01-8	Phenanthrene		
108-95-2	Phenol		
106-50-3	p-Phenylenediamine		
109-06-8	2-Picoline		
23950-58-5	Pronamide		
129-00-0	Pyrene		
110-86-1	Pyridine		
94-59-7	Safrole		
95-94-3	1,2,4,5-Tetrachlorobenzene		
58-90-2	2,3,4,6-Tetrachlorophenol		
95-53-4	o-Toluidine		

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 665 Soil Analytical Data

APX9-SVOA	SAMPLE ID ------->	665-C-B002-02					
	ORIGINAL ID ----->	665CB00202					
	LAB SAMPLE ID --->	TJI-001					
	ID FROM REPORT -->	082721					
	SAMPLE DATE ----->	08/26/94					
	DATE EXTRACTED -->	09/06/94					
	DATE ANALYZED --->	09/09/94					
	MATRIX ---------->	Soil					
	UNITS ---------->	UG/KG					

CAS #	Parameter	APX02 VAL					
120-82-1	1,2,4-Trichlorobenzene						
95-95-4	2,4,5-Trichlorophenol						
88-06-2	2,4,6-Trichlorophenol						
99-35-4	1,3,5-Trinitrobenzene						

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 665 Soil Analytical Data

APX9-VOA							
	SAMPLE ID ------->	665-C-B002-02					
	ORIGINAL ID ----->	665CB00202					
	LAB SAMPLE ID --->	TJI-001					
	ID FROM REPORT -->	082721					
	SAMPLE DATE ----->	08/26/94					
	DATE EXTRACTED -->	09/03/94					
	DATE ANALYZED --->	09/03/94					
	MATRIX ---------->	Soil					
	UNITS ----------->	UG/KG					
CAS #	Parameter	APX02 VAL					
67-64-1	Acetone						
75-05-8	Acetonitrile						
107-02-8	Acrolein						
107-13-1	Acrylonitrile						
107-05-1	3-Chloropropene						
71-43-2	Benzene						
75-27-4	Bromodichloromethane						
75-25-2	Bromoform						
75-15-0	Carbon disulfide						
56-23-5	Carbon tetrachloride						
108-90-7	Chlorobenzene						
75-00-3	Chloroethane						
67-66-3	Chloroform						
126-99-8	Chloroprene						
124-48-1	Dibromochloromethane						
96-12-8	1,2-Dibromo-3-Chloropropane						
106-93-4	1, 2-Dibromoethane						
110-57-6	trans-1,4-Dichloro-2-butene						
75-71-8	Dichlorodifluoromethane						
75-34-3	1,1-Dichloroethane						
107-06-2	1,2-Dichloroethane						
75-35-4	1,1-Dichloroethene						
156-60-5	trans-1,2-Dichloroethene						
78-87-5	1,2-Dichloropropane						
10061-01-5	cis-1,3-Dichloropropene						
10061-02-6	trans-1,3-Dichloropropene						
123-91-1	1,4-Dioxane						
100-41-4	Ethylbenzene						
591-78-6	2-Hexanone						
78-83-1	Isobutyl alcohol						
126-98-7	Methacrylonitrile						
74-83-9	Bromomethane						
74-87-3	Chloromethane						
74-95-3	Methylene bromide						
75-09-2	Methylene chloride						
78-93-3	2-Butanone (MEK)						

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 665 Soil Analytical Data

APX9-VOA		
	SAMPLE ID ------->	665-C-B002-02
	ORIGINAL ID ----->	665CB00202
	LAB SAMPLE ID --->	TJ1-001
	ID FROM REPORT -->	082721
	SAMPLE DATE ----->	08/26/94
	DATE EXTRACTED -->	09/03/94
	DATE ANALYZED --->	09/03/94
	MATRIX ---------->	Soil
	UNITS ---------->	UG/KG

CAS #	Parameter	APX02	VAL
74-88-4	Methyl iodide		
108-10-1	4-Methyl-2-Pentanone (MIBK)		
107-12-0	Propionitrile		
100-42-5	Styrene		
630-20-6	1,1,1,2-Tetrachloroethane		
79-34-5	1,1,2,2-Tetrachloroethane		
127-18-4	Tetrachloroethene		
108-88-3	Toluene	6.3	
71-55-6	1,1,1-Trichloroethane		
79-00-5	1,1,2-Trichloroethane		
79-01-6	Trichloroethene		
75-69-4	Trichlorofluoromethane		
96-18-4	1,2,3-Trichloropropane		
108-05-4	Vinyl acetate		
75-01-4	Vinyl chloride		
1330-20-7	Xylene (Total)		

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 665 Soil Analytical Data

CYANIDE						
SAMPLE ID ------>	665-S-B001-01	665-S-B001-02	665-S-B002-01	665-S-B002-02	665-C-B002-02	665-S-B003-01
ORIGINAL ID ----->	665SB00101	665SB00102	665SB00201	665SB00202	665CB00202	665SB00301
LAB SAMPLE ID --->	41332-026	41332-027	41332-028	41332-029	41334-001	41332-030
ID FROM REPORT -->	082701	082702	082703	082704	082721	082705
SAMPLE DATE ----->	08/26/94	08/26/94	08/26/94	08/26/94	08/26/94	08/26/94
DATE EXTRACTED -->	08/29/94	08/29/94	08/29/94	08/29/94	08/29/94	08/29/94
DATE ANALYZED --->	08/30/94	08/30/94	08/30/94	08/30/94	08/30/94	08/30/94
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
UNITS ---------->	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG

CAS #	Parameter	CHS07	VAL	CHS07	VAL	CHS07	VAL	CHS07	VAL	APX02	VAL	CHS07	VAL
57-12-5	Cyanide (CN)												

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 665 Soil Analytical Data

CYANIDE							
SAMPLE ID ------->	665-S-B003-02		665-S-B004-01		665-S-B004-02		
ORIGINAL ID ----->	665SB00302		665SB00401		665SB00402		
LAB SAMPLE ID --->	41332-031		41332-032		41332-033		
ID FROM REPORT -->	082706		082707		082708		
SAMPLE DATE ----->	08/26/94		08/26/94		08/26/94		
DATE EXTRACTED -->	08/29/94		08/29/94		08/29/94		
DATE ANALYZED --->	08/30/94		08/30/94		08/30/94		
MATRIX ---------->	Soil		Soil		Soil		
UNITS ----------->	MG/KG		MG/KG		MG/KG		
CAS #	Parameter	CHS07 VAL	CHS07 VAL		CHS07 VAL		
57-12-5	Cyanide (CN)						

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 665 Soil Analytical Data

HEXACHROME							
	SAMPLE ID ------->	665-C-B002-02					
	ORIGINAL ID ----->	665CB00202					
	LAB SAMPLE ID --->	41334-001					
	ID FROM REPORT -->	082721					
	SAMPLE DATE ----->	08/26/94					
	DATE ANALYZED --->	08/29/94					
	MATRIX ---------->	Soil					
	UNITS ----------->	MG/KG					
CAS #	Parameter	APX02	VAL				
9999900-00-5	Hexavalent Chromium						

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 665 Soil Analytical Data

SW846-META	SAMPLE ID ------>	665-S-B001-01	665-S-B001-02	665-S-B002-01	665-S-B002-02	665-S-B003-01	665-S-B003-02
	ORIGINAL ID ----->	665SB00101	665SB00102	665SB00201	665SB00202	665SB00301	665SB00302
	LAB SAMPLE ID --->	41332-026	41332-027	41332-028	41332-029	41332-030	41332-031
	ID FROM REPORT -->	082701	082702	082703	082704	082705	082706
	SAMPLE DATE ----->	08/26/94	08/26/94	08/26/94	08/26/94	08/26/94	08/26/94
	DATE EXTRACTED -->	08/29/94	08/29/94	08/29/94	08/29/94	08/29/94	08/29/94
	DATE ANALYZED --->	08/30/94	08/30/94	08/30/94	08/30/94	08/30/94	08/30/94
	MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
	UNITS ---------->	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG

CAS #	Parameter	CHS07	VAL	CHS07	VAL	CHS07	VAL	CHS07	VAL	CHS07	VAL	CHS07	VAL
7429-90-5	Aluminum (Al)	5670.		830.		8000.		1100.		7090.		2830.	
7439-89-6	Iron (Fe)	2430.		2410.		6370.		2060.		8510.		6250.	
7439-92-1	Lead (Pb)	4.3		2.2		9.5		2.2		11.4		5.3	
7440-02-0	Nickel (Ni)	1.6	J	1.3	J	5.1		1.	J	3.9	J	6.4	
7440-09-7	Potassium (K)												
7440-22-4	Silver (Ag)												
7440-23-5	Sodium (Na)	27.1	J	241.	J	246.	J	133.	J	101.	J	538.	J
7440-28-0	Thallium (Tl)												
7440-36-0	Antimony (Sb)							1.4	J				
7440-38-2	Arsenic (As)	1.3		4.4		4.4		2.4		5.9		9.	
7440-39-3	Barium (Ba)	8.	J	4.1	J	12.5	J	5.1	J	14.1	J		
7440-41-7	Beryllium (Be)	0.04	J	0.21	J	0.21	J	0.14	J	0.24	J	0.31	J
7440-43-9	Cadmium (Cd)												
7440-48-4	Cobalt (Co)	1.1	J	0.76	J	1.2	J	0.38	J	1.6	J	1.	J
7440-50-8	Copper (Cu)	1.6	J	0.64	J	4.		1.1	J	39.1		10.2	
7440-62-2	Vanadium (V)	10.2		3.8	J	15.5		3.5	J	21.6		15.5	
7440-66-6	Zinc (Zn)									23.		34.5	
7782-49-2	Selenium (Se)												
7439-97-6	Mercury (Hg)	0.03	J	0.02	J					0.05		0.05	
7439-95-4	Magnesium (Mg)	161.	J	201.	J	908.		286.	J	794.		2110.	
7439-96-5	Manganese (Mn)	5.9		31.		35.7		22.		63.9		135.	
7440-70-2	Calcium (Ca)	1200.		14800.		23400.		8790.		10100.		126000.	
7440-47-3	Chromium (Cr)	5.9		4.		12.8		3.8		12.3		20.7	
7440-31-5	Tin (Sn)	NR		NR		NR		NR		NR		NR	

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 665 Soil Analytical Data

SW846-META							
	SAMPLE ID ------>	665-S-B004-01		665-S-B004-02			
	ORIGINAL ID ----->	665SB00401		665SB00402			
	LAB SAMPLE ID --->	41332-032		41332-033			
	ID FROM REPORT -->	082707		082708			
	SAMPLE DATE ----->	08/26/94		08/26/94			
	DATE EXTRACTED -->	08/29/94		08/29/94			
	DATE ANALYZED --->	08/30/94		08/30/94			
	MATRIX ---------->	Soil		Soil			
	UNITS ---------->	MG/KG		MG/KG			
CAS #	Parameter	CHS07	VAL	CHS07	VAL		
7429-90-5	Aluminum (Al)	4540.		2150.			
7439-89-6	Iron (Fe)	3920.		3500.			
7439-92-1	Lead (Pb)	51.4					
7440-02-0	Nickel (Ni)	10.1		4.2	J		
7440-09-7	Potassium (K)						
7440-22-4	Silver (Ag)						
7440-23-5	Sodium (Na)	53.7	J	398.	J		
7440-28-0	Thallium (Tl)						
7440-36-0	Antimony (Sb)						
7440-38-2	Arsenic (As)	7.9		7.			
7440-39-3	Barium (Ba)	13.7	J				
7440-41-7	Beryllium (Be)	0.1	J	0.22	J		
7440-43-9	Cadmium (Cd)	0.81		0.19	J		
7440-48-4	Cobalt (Co)	1.5	J	0.6	J		
7440-50-8	Copper (Cu)	30.		3.			
7440-62-2	Vanadium (V)	36.9		10.8			
7440-66-6	Zinc (Zn)	111.		18.			
7782-49-2	Selenium (Se)						
7439-97-6	Mercury (Hg)	0.1					
7439-95-4	Magnesium (Mg)	481.	J	1770.			
7439-96-5	Manganese (Mn)	30.9		41.5			
7440-70-2	Calcium (Ca)	5920.		87100.			
7440-47-3	Chromium (Cr)	17.4		17.5			
7440-31-5	Tin (Sn)	NR		NR			

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 665 Soil Analytical Data

SW846-PEST													
	SAMPLE ID ------->	665-S-B001-01		665-S-B001-02		665-S-B002-01		665-S-B002-02		665-S-B003-01		665-S-B003-02	
	ORIGINAL ID ----->	665SB00101		665SB00102		665SB00201		665SB00202		665SB00301		665SB00302	
	LAB SAMPLE ID --->	41332-014		41332-015		41332-016		41332-017		41332-018		41332-019	
	ID FROM REPORT -->	082701		082702		082703		082704		082705		082706	
	SAMPLE DATE ----->	08/26/94		08/26/94		08/26/94		08/26/94		08/26/94		08/26/94	
	DATE EXTRACTED -->	08/30/94		08/30/94		08/30/94		08/30/94		08/30/94		08/30/94	
	DATE ANALYZED --->	09/10/94		09/10/94		09/10/94		09/10/94		09/17/94		09/20/94	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	CHS07	VAL	CHS07	VAL	CHS07	VAL	CHS07	VAL	CHS07	VAL	CHS07	VAL
11097-69-1	Aroclor-1254												
11104-28-2	Aroclor-1221												
11141-16-5	Aroclor-1232												
12672-29-6	Aroclor-1248												
11096-82-5	Aroclor-1260												
12674-11-2	Aroclor-1016												
53469-21-9	Aroclor-1242												
1024-57-3	Heptachlor epoxide												
1031-07-8	Endosulfan sulfate												
309-00-2	Aldrin												
319-84-6	alpha-BHC												
319-85-7	beta-BHC												
319-86-8	delta-BHC												
33213-65-9	Endosulfan II												
50-29-3	4,4'-DDT					13.				10.	J		
5103-71-9	alpha-Chlordane					3.	J			5.		670.	
5103-74-2	gamma-Chlordane					4.				4.		650.	
53494-70-5	Endrin ketone												
58-89-9	gamma-BHC (Lindane)												
60-57-1	Dieldrin												
72-20-8	Endrin												
72-43-5	Methoxychlor												
72-54-8	4,4'-DDD												
72-55-9	4,4'-DDE			3.	J	8.				4.			
7421-93-4	Endrin aldehyde												
76-44-8	Heptachlor												
8001-35-2	Toxaphene												
959-98-8	Endosulfan I											140.	

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 665 Soil Analytical Data

SW846-PEST							
SAMPLE ID ------->	665-S-B004-01		665-S-B004-02				
ORIGINAL ID ----->	665SB00401		665SB00402				
LAB SAMPLE ID --->	41332-020		41332-021				
ID FROM REPORT -->	082707		082708				
SAMPLE DATE ----->	08/26/94		08/26/94				
DATE EXTRACTED -->	08/30/94		08/30/94				
DATE ANALYZED --->	09/17/94		09/17/94				
MATRIX ---------->	Soil		Soil				
UNITS ---------->	UG/KG		UG/KG				
CAS #	Parameter	CHS07 VAL	CHS07 VAL				
11097-69-1	Aroclor-1254						
11104-28-2	Aroclor-1221						
11141-16-5	Aroclor-1232						
12672-29-6	Aroclor-1248						
11096-82-5	Aroclor-1260						
12674-11-2	Aroclor-1016						
53469-21-9	Aroclor-1242						
1024-57-3	Heptachlor epoxide	8.					
1031-07-8	Endosulfan sulfate						
309-00-2	Aldrin						
319-84-6	alpha-BHC						
319-85-7	beta-BHC						
319-86-8	delta-BHC						
33213-65-9	Endosulfan II	4. J					
50-29-3	4,4'-DDT	13. J					
5103-71-9	alpha-Chlordane	11.					
5103-74-2	gamma-Chlordane	18.					
53494-70-5	Endrin ketone						
58-89-9	gamma-BHC (Lindane)						
60-57-1	Dieldrin						
72-20-8	Endrin						
72-43-5	Methoxychlor						
72-54-8	4,4'-DDD						
72-55-9	4,4'-DDE	6.					
7421-93-4	Endrin aldehyde						
76-44-8	Heptachlor						
8001-35-2	Toxaphene						
959-98-8	Endosulfan I						

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 665 Soil Analytical Data

SW846-SVOA													
	SAMPLE ID ------>	665-S-B001-01		665-S-B001-02		665-S-B002-01		665-S-B002-02		665-S-B003-01		665-S-B003-02	
	ORIGINAL ID ----->	665SB00101		665SB00102		665SB00201		665SB00202		665SB00301		665SB00302	
	LAB SAMPLE ID --->	41332-014		41332-015		41332-016		41332-017		41332-018		41332-019	
	ID FROM REPORT -->	082701		082702		082703		082704		082705		082706	
	SAMPLE DATE ----->	08/26/94		08/26/94		08/26/94		08/26/94		08/26/94		08/26/94	
	DATE EXTRACTED -->	09/09/94		09/09/94		09/09/94		09/09/94		09/09/94		09/09/94	
	DATE ANALYZED --->	09/16/94		09/19/94		09/19/94		09/19/94		09/19/94		09/16/94	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	CHS07	VAL	CHS07	VAL	CHS07	VAL	CHS07	VAL	CHS07	VAL	CHS07	VAL
62-75-9	N-Nitrosodimethylamine												
606-20-2	2,6-Dinitrotoluene												
108-95-2	Phenol												
99-09-2	3-Nitroaniline												
62-53-3	Aniline												
83-32-9	Acenaphthene												
111-44-4	bis(2-Chloroethyl)ether												
51-28-5	2,4-Dinitrophenol												
95-57-8	2-Chlorophenol												
100-02-7	4-Nitrophenol												
541-73-1	1,3-Dichlorobenzene												
132-64-9	Dibenzofuran												
106-46-7	1,4-Dichlorobenzene												
121-14-2	2,4-Dinitrotoluene												
100-51-6	Benzyl alcohol												
84-66-2	Diethylphthalate												
95-50-1	1,2-Dichlorobenzene												
7005-72-3	4-Chlorophenylphenylether												
95-48-7	2-Methylphenol (o-Cresol)												
86-73-7	Fluorene												
108-60-1	2,2'-oxybis(1-Chloropropane)												
100-01-6	4-Nitroaniline												
106-44-5	4-Methylphenol (p-Cresol)												
534-52-1	2-Methyl-4,6-Dinitrophenol												
621-64-7	N-Nitroso-di-n-propylamine												
86-30-6	N-Nitrosodiphenylamine												
67-72-1	Hexachloroethane												
101-55-3	4-Bromophenyl-phenylether												
98-95-3	Nitrobenzene												
118-74-1	Hexachlorobenzene												
78-59-1	Isophorone												
87-86-5	Pentachlorophenol												
88-75-5	2-Nitrophenol												
85-01-8	Phenanthrene					320.	J						
105-67-9	2,4-Dimethylphenol												
120-12-7	Anthracene									150.	J		

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 665 Soil Analytical Data

SW846-SVOA	SAMPLE ID ------->	665-S-B001-01	665-S-B001-02	665-S-B002-01	665-S-B002-02	665-S-B003-01	665-S-B003-02
	ORIGINAL ID ----->	665SB00101	665SB00102	665SB00201	665SB00202	665SB00301	665SB00302
	LAB SAMPLE ID --->	41332-014	41332-015	41332-016	41332-017	41332-018	41332-019
	ID FROM REPORT -->	082701	082702	082703	082704	082705	082706
	SAMPLE DATE ----->	08/26/94	08/26/94	08/26/94	08/26/94	08/26/94	08/26/94
	DATE EXTRACTED -->	09/09/94	09/09/94	09/09/94	09/09/94	09/09/94	09/09/94
	DATE ANALYZED --->	09/16/94	09/19/94	09/19/94	09/19/94	09/19/94	09/16/94
	MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
	UNITS ---------->	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG

CAS #	Parameter	CHS07	VAL	CHS07	VAL	CHS07	VAL	CHS07	VAL	CHS07	VAL	CHS07	VAL
65-85-0	Benzoic acid												
84-74-2	Di-n-butylphthalate												
111-91-1	bis(2-Chloroethoxy)methane												
206-44-0	Fluoranthene					370.	J						
120-83-2	2,4-Dichlorophenol												
92-87-5	Benzidine												
120-82-1	1,2,4-Trichlorobenzene												
129-00-0	Pyrene					280.	J						
91-20-3	Naphthalene												
85-68-7	Butylbenzylphthalate												
106-47-8	4-Chloroaniline												
91-94-1	3,3'-Dichlorobenzidine												
87-68-3	Hexachlorobutadiene												
56-55-3	Benzo(a)anthracene					170.	J						
59-50-7	4-Chloro-3-methylphenol												
218-01-9	Chrysene					170.	J						
91-57-6	2-Methylnaphthalene												
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)											150.	J
77-47-4	Hexachlorocyclopentadiene												
117-84-0	Di-n-octyl phthalate												
88-06-2	2,4,6-Trichlorophenol												
205-99-2	Benzo(b)fluoranthene					120.	J						
95-95-4	2,4,5-Trichlorophenol												
207-08-9	Benzo(k)fluoranthene					150.	J						
91-58-7	2-Chloronaphthalene												
50-32-8	Benzo(a)pyrene					120.	J					77.	J
88-74-4	2-Nitroaniline												
193-39-5	Indeno(1,2,3-cd)pyrene											81.	J
131-11-3	Dimethyl phthalate												
53-70-3	Dibenz(a,h)anthracene												
208-96-8	Acenaphthylene												
191-24-2	Benzo(g,h,i)perylene											100.	J
110-86-1	Pyridine	NR		NR		NR		NR		NR		NR	
103-33-3	Azobenzene	NR		NR		NR		NR		NR		NR	
86-74-8	Carbazole	NR		NR		NR		NR		NR		NR	

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 665 Soil Analytical Data

SW846-SVOA							
	SAMPLE ID ------->	665-S-B004-01	665-S-B004-02				
	ORIGINAL ID ----->	665SB00401	665SB00402				
	LAB SAMPLE ID --->	41332-020	41332-021				
	ID FROM REPORT -->	082707	082708				
	SAMPLE DATE ----->	08/26/94	08/26/94				
	DATE EXTRACTED -->	09/09/94	09/09/94				
	DATE ANALYZED --->	09/19/94	09/16/94				
	MATRIX ---------->	Soil	Soil				
	UNITS ----------->	UG/KG	UG/KG				

CAS #	Parameter	CHS07	VAL	CHS07	VAL				
62-75-9	N-Nitrosodimethylamine								
606-20-2	2,6-Dinitrotoluene								
108-95-2	Phenol								
99-09-2	3-Nitroaniline								
62-53-3	Aniline								
83-32-9	Acenaphthene								
111-44-4	bis(2-Chloroethyl)ether								
51-28-5	2,4-Dinitrophenol								
95-57-8	2-Chlorophenol								
100-02-7	4-Nitrophenol								
541-73-1	1,3-Dichlorobenzene								
132-64-9	Dibenzofuran								
106-46-7	1,4-Dichlorobenzene								
121-14-2	2,4-Dinitrotoluene								
100-51-6	Benzyl alcohol								
84-66-2	Diethylphthalate								
95-50-1	1,2-Dichlorobenzene								
7005-72-3	4-Chlorophenylphenylether								
95-48-7	2-Methylphenol (o-Cresol)								
86-73-7	Fluorene								
108-60-1	2,2'-oxybis(1-Chloropropane)								
100-01-6	4-Nitroaniline								
106-44-5	4-Methylphenol (p-Cresol)								
534-52-1	2-Methyl-4,6-Dinitrophenol								
621-64-7	N-Nitroso-di-n-propylamine								
86-30-6	N-Nitrosodiphenylamine								
67-72-1	Hexachloroethane								
101-55-3	4-Bromophenyl-phenylether								
98-95-3	Nitrobenzene								
118-74-1	Hexachlorobenzene								
78-59-1	Isophorone								
87-86-5	Pentachlorophenol								
88-75-5	2-Nitrophenol								
85-01-8	Phenanthrene								
105-67-9	2,4-Dimethylphenol								
120-12-7	Anthracene								

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 665 Soil Analytical Data

SW846-SVOA	SAMPLE ID ------>	665-S-B004-01	665-S-B004-02
	ORIGINAL ID ----->	665SB00401	665SB00402
	LAB SAMPLE ID --->	41332-020	41332-021
	ID FROM REPORT -->	082707	082708
	SAMPLE DATE ----->	08/26/94	08/26/94
	DATE EXTRACTED -->	09/09/94	09/09/94
	DATE ANALYZED --->	09/19/94	09/16/94
	MATRIX ---------->	Soil	Soil
	UNITS ----------->	UG/KG	UG/KG

CAS #	Parameter	CHS07	VAL	CHS07	VAL
65-85-0	Benzoic acid				
84-74-2	Di-n-butylphthalate				
111-91-1	bis(2-Chloroethoxy)methane				
206-44-0	Fluoranthene				
120-83-2	2,4-Dichlorophenol				
92-87-5	Benzidine				
120-82-1	1,2,4-Trichlorobenzene				
129-00-0	Pyrene				
91-20-3	Naphthalene				
85-68-7	Butylbenzylphthalate				
106-47-8	4-Chloroaniline				
91-94-1	3,3'-Dichlorobenzidine				
87-68-3	Hexachlorobutadiene				
56-55-3	Benzo(a)anthracene				
59-50-7	4-Chloro-3-methylphenol				
218-01-9	Chrysene				
91-57-6	2-Methylnaphthalene				
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	130.	J		
77-47-4	Hexachlorocyclopentadiene				
117-84-0	Di-n-octyl phthalate				
88-06-2	2,4,6-Trichlorophenol				
205-99-2	Benzo(b)fluoranthene				
95-95-4	2,4,5-Trichlorophenol				
207-08-9	Benzo(k)fluoranthene				
91-58-7	2-Chloronaphthalene				
50-32-8	Benzo(a)pyrene				
88-74-4	2-Nitroaniline				
193-39-5	Indeno(1,2,3-cd)pyrene				
131-11-3	Dimethyl phthalate				
53-70-3	Dibenz(a,h)anthracene				
208-96-8	Acenaphthylene				
191-24-2	Benzo(g,h,i)perylene				
110-86-1	Pyridine	NR		NR	
103-33-3	Azobenzene	NR		NR	
86-74-8	Carbazole	NR		NR	

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 665 Soil Analytical Data

SW846-VOA	SAMPLE ID ------>	665-S-B001-01	665-S-B001-02	665-S-B002-01	665-S-B002-02	665-S-B003-01	665-S-B003-02
	ORIGINAL ID ----->	665SB00101	665SB00102	665SB00201	665SB00202	665SB00301	665SB00302
	LAB SAMPLE ID --->	41332-001	41332-002	41332-003	41332-004	41332-005	41332-006
	ID FROM REPORT -->	082701	082702	082703	082704	082705	082706
	SAMPLE DATE ----->	08/26/94	08/26/94	08/26/94	08/26/94	08/26/94	08/26/94
	DATE ANALYZED --->	08/30/94	08/30/94	08/30/94	08/30/94	08/31/94	08/31/94
	MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
	UNITS ---------->	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG

CAS #	Parameter	CHS07	VAL	CHS07	VAL	CHS07	VAL	CHS07	VAL	CHS07	VAL	CHS07	VAL
100-41-4	Ethylbenzene												
100-42-5	Styrene												
10061-01-5	cis-1,3-Dichloropropene												
10061-02-6	trans-1,3-Dichloropropene												
107-06-2	1,2-Dichloroethane												
108-05-4	Vinyl acetate												
108-10-1	4-Methyl-2-Pentanone (MIBK)												
108-88-3	Toluene	4.2	J			3.9	J	3.1	J			10.	
108-90-7	Chlorobenzene												
109-99-9	Tetrahydrofuran												
124-48-1	Dibromochloromethane												
127-18-4	Tetrachloroethene												
1330-20-7	Xylene (Total)												
540-59-0	1,2-Dichloroethene (total)												
56-23-5	Carbon tetrachloride												
591-78-6	2-Hexanone												
67-64-1	Acetone					34.		40.		210.		96.	
67-66-3	Chloroform												
71-43-2	Benzene												
71-55-6	1,1,1-Trichloroethane												
74-83-9	Bromomethane												
74-87-3	Chloromethane												
75-00-3	Chloroethane												
75-01-4	Vinyl chloride												
75-09-2	Methylene chloride												
75-15-0	Carbon disulfide												
75-25-2	Bromoform												
75-27-4	Bromodichloromethane												
75-34-3	1,1-Dichloroethane												
75-35-4	1,1-Dichloroethene												
75-69-4	Trichlorofluoromethane												
78-87-5	1,2-Dichloropropane												
78-93-3	2-Butanone (MEK)												
79-00-5	1,1,2-Trichloroethane												
79-01-6	Trichloroethene												
79-34-5	1,1,2,2-Tetrachloroethane												

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 665 Soil Analytical Data

SW846-VOA	SAMPLE ID ------->	665-S-B004-01	665-S-B004-02
	ORIGINAL ID ----->	665SB00401	665SB00402
	LAB SAMPLE ID --->	41332-007	41332-008
	ID FROM REPORT -->	082707	082708
	SAMPLE DATE ----->	08/26/94	08/26/94
	DATE ANALYZED --->	08/31/94	08/31/94
	MATRIX ---------->	Soil	Soil
	UNITS ----------->	UG/KG	UG/KG

CAS #	Parameter	CHS07	VAL	CHS07	VAL
100-41-4	Ethylbenzene				
100-42-5	Styrene				
10061-01-5	cis-1,3-Dichloropropene				
10061-02-6	trans-1,3-Dichloropropene				
107-06-2	1,2-Dichloroethane				
108-05-4	Vinyl acetate				
108-10-1	4-Methyl-2-Pentanone (MIBK)				
108-88-3	Toluene			7.	
108-90-7	Chlorobenzene				
109-99-9	Tetrahydrofuran				
124-48-1	Dibromochloromethane				
127-18-4	Tetrachloroethene				
1330-20-7	Xylene (Total)				
540-59-0	1,2-Dichloroethene (total)				
56-23-5	Carbon tetrachloride				
591-78-6	2-Hexanone				
67-64-1	Acetone			59.	
67-66-3	Chloroform				
71-43-2	Benzene				
71-55-6	1,1,1-Trichloroethane				
74-83-9	Bromomethane				
74-87-3	Chloromethane				
75-00-3	Chloroethane				
75-01-4	Vinyl chloride				
75-09-2	Methylene chloride				
75-15-0	Carbon disulfide				
75-25-2	Bromoform				
75-27-4	Bromodichloromethane				
75-34-3	1,1-Dichloroethane				
75-35-4	1,1-Dichloroethene				
75-69-4	Trichlorofluoromethane				
78-87-5	1,2-Dichloropropane				
78-93-3	2-Butanone (MEK)				
79-00-5	1,1,2-Trichloroethane				
79-01-6	Trichloroethene				
79-34-5	1,1,2,2-Tetrachloroethane				

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 665 Soil Analytical Data

TPH-IR							
SAMPLE ID ------->	665-S-B001-01	665-S-B001-02	665-S-B002-01	665-S-B002-02	665-C-B002-02	665-S-B003-01
ORIGINAL ID ----->	665SB00101	665SB00102	665SB00201	665SB00202	665CB00202	665SB00301
LAB SAMPLE ID --->	41332-038	41332-039	41332-040	41332-041	41334-001	41332-042
ID FROM REPORT -->	082701	082702	082703	082704	082721	082705
SAMPLE DATE ----->	08/26/94	08/26/94	08/26/94	08/26/94	08/26/94	08/26/94
DATE EXTRACTED -->	09/08/94	09/08/94	09/08/94	09/08/94	09/07/94	09/08/94
DATE ANALYZED --->	09/09/94	09/09/94	09/09/94	09/09/94	09/08/94	09/09/94
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
UNITS ---------->	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG

CAS #	Parameter	CHS07	VAL	CHS07	VAL	CHS07	VAL	CHS07	VAL	APX02	VAL	CHS07	VAL
9999900-02-4	Petroleum Hydrocarbons, TPH					200.						94.	

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 665 Soil Analytical Data

TPH-IR							
	SAMPLE ID ------->	665-S-B003-02	665-S-B004-01	665-S-B004-02			
	ORIGINAL ID ----->	665SB00302	665SB00401	665SB00402			
	LAB SAMPLE ID --->	41332-043	41332-044	41332-045			
	ID FROM REPORT -->	082706	082707	082708			
	SAMPLE DATE ----->	08/26/94	08/26/94	08/26/94			
	DATE EXTRACTED -->	09/08/94	09/08/94	09/08/94			
	DATE ANALYZED --->	09/09/94	09/09/94	09/09/94			
	MATRIX ---------->	Soil	Soil	Soil			
	UNITS ---------->	MG/KG	MG/KG	MG/KG			

CAS #	Parameter	CHS07	VAL	CHS07	VAL	CHS07	VAL			
9999900-02-4	Petroleum Hydrocarbons, TPH									

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
AOC 665 Analytical Data for Soil

EXPLOSIVES						
	SAMPLE ID ------->	665-S-B005-01	665-S-B005-02	665-S-B006-01	665-S-B007-01	665-S-B007-02
	ORIGINAL ID ----->	665SB00501	665SB00502	665SB00601	665SB00701	665SB00702
	LAB SAMPLE ID --->	7920-04	7920-05	7920-03	7920-01	7920-02
	ID FROM REPORT -->	665SB00501	665SB00502	665SB00601	665SB00701	665SB00702
	SAMPLE DATE ----->	07/14/97	07/14/97	07/14/97	07/14/97	07/14/97
	DATE EXTRACTED -->	07/17/97	07/17/97	07/17/97	07/17/97	07/17/97
	DATE ANALYZED --->	07/25/97	07/25/97	07/25/97	07/25/97	07/25/97
	MATRIX ---------->	Soil	Soil	Soil	Soil	Soil
	UNITS ---------->	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG

CAS #	Parameter	7920		7920		7920		7920		7920	
118-96-7	Trinitrotoluene, 2,4,6- (TNT)	495.	U	498.	U	500.	U	500.	U	498.	U
121-14-2	2,4-Dinitrotoluene	495.	U	498.	U	500.	U	500.	U	498.	U
121-82-4	RDX (Cyclonite)	495.	U	498.	U	500.	U	500.	U	498.	U
19406-51-0	4-AM-DNT	495.	U	498.	U	500.	U	500.	U	498.	U
25377-32-6	1,3,5-Trinitrobenzene	495.	U	498.	U	500.	U	500.	U	498.	U
2691-41-0	HMX	495.	U	498.	U	500.	U	500.	U	498.	U
35572-78-2	2-Am-DNT	495.	U	498.	U	500.	U	500.	U	498.	U
479-45-8	Tetryl	495.	U	498.	U	500.	U	500.	U	498.	U
606-20-2	2,6-Dinitrotoluene	495.	U	498.	U	500.	U	500.	U	498.	U
88-72-2	o-Nitrotoluene	495.	U	498.	U	500.	U	500.	U	498.	U
98-95-3	Nitrobenzene	495.	U	498.	U	500.	U	500.	U	498.	U
99-09-2	3-Nitroaniline	495.	U	498.	U	500.	U	500.	U	498.	U
99-65-0	1,3-Dinitrobenzene	495.	U	498.	U	500.	U	500.	U	498.	U
99-99-0	p-Nitrotoluene	495.	U	498.	U	500.	U	500.	U	498.	U

NAVY CLEAN
ENSAFE/ALLEN&HOSHALL
(901) 383-9115

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1

CTO-TASK: PO.3
COC #:
BPA/SO: Release #18

CLIENT: Navy Base Charleston
ADDRESS: Zone H
PROJECT NAME/NUMBER: 290808420
SAMPLERS: (SIGNATURE) Greg Goodman

PROJECT MANAGER: Charlie Verney
TELEPHONE NO.: 803-884-0029
FAX. NO.: 803-856-0107

FIELD SAMPLE NUMBER	DATE	TIME	SAMPLE TYPE	TYPE/SIZE OF CONTAINER	PRESERVATION TEMP.	PRESERVATION CHEMICAL	NO. OF CONTAINERS	ANALYSIS REQUIRED: Explosives						REMARKS
665SB007 01	7/14/97	1445	soil	4oz, glass	4°	None	2	X						
665SB007 02	7/14/97	1510	soil	↓	↓	↓	↓	X						
665SB006 01	7/14/97	1540	soil	↓	↓	↓	↓	X						
665SB005 01	7/14/97	1610	soil	↓	↓	↓	↓	X						
665SB005 02	7/14/97	1620	soil	↓	↓	↓	↓	X						

Greg Goodman

RELINQUISHED BY:	DATE	RECEIVED BY:	DATE	RELINQUISHED BY:	DATE	RECEIVED BY:	DATE
SIGNATURE: Greg Goodman	7/14/97	SIGNATURE:		SIGNATURE:		SIGNATURE:	
PRINTED: Greg Goodman		PRINTED:		PRINTED:		PRINTED:	
COMPANY: Ensafe/A+H	TIME	COMPANY:	TIME	COMPANY:	TIME	COMPANY:	TIME
REASON: Fed ex Shipment	1900	REASON:		REASON:		REASON:	

METHOD OF SHIPMENT: Fed Ex
SHIPMENT NO.: 5606 36 47684
SPECIAL INSTRUCTION:

COMMENTS:

AFTER ANALYSIS, SAMPLES ARE TO BE:
- ☒ DISPOSED OF
- ☐ STORED (90 DAYS MAX)
- ☐ STORED OVER 90 DAYS
- ☐ RETURNED TO CUSTOMER

ANALYTICAL DATA RECEIVED BY (INITIALS/DATE)

CLNCDCR1

APPENDIX D

AOC 667 AND SWMU 138

SOIL AND GROUNDWATER DATA

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 667/SWMU 138 Soil Data

APX9-DIOXI								
	SAMPLE ID ------->	138-C-B002-01		667-C-B002-01				
	ORIGINAL ID ----->	138CB00201		667CB00201				
	LAB SAMPLE ID --->	IK1131-3		IK1131-2				
	ID FROM REPORT -->	083002		083001				
	SAMPLE DATE ----->	08/29/94		08/29/94				
	DATE EXTRACTED -->	09/06/94		09/06/94				
	DATE ANALYZED --->	09/28/94		09/16/94				
	MATRIX ---------->	Soil		Soil				
	UNITS ---------->	PG/G		PG/G				
CAS #	Parameter	APX02	VAL	APX02	VAL			
1746-01-6	2378-TCDD	2.4399	EMPC					
19408-74-3	123789-HxCDD	3.3224	EMPC					
3268-87-9	OCDD	1096.5	J	511.23	J			
35822-46-9	1234678-HpCDD	110.52	J	42.872	J			
39001-02-0	OCDF	48.797	J	18.679	J			
39227-28-6	123478-HxCDD	1.5144	EMPC					
40321-76-4	12378-PeCDD	0.8068	EMPC					
51207-31-9	2378-TCDF							
55673-89-7	1234789-HpCDF	1.53	EMPC					
57117-31-4	23478-PeCDF							
57117-41-6	12378-PeCDF							
57117-44-9	123678-HxCDF	1.1727	EMPC					
57653-85-7	123678-HxCDD	4.0624	EMPC					
60851-34-5	234678-HxCDF	1.6814	EMPC	0.791	EMPC			
67562-39-4	1234678-HpCDF	22.68	J					
70648-26-9	123478-HxCDF	1.778	EMPC					
72918-21-9	123789-HxCDF							
41903-57-5	Total Tetra-Dioxins	5.4225	EMPC	1.1271	EMPC			
36088-22-9	Total Penta-Dioxins	4.7554	EMPC	1.1111	EMPC			
34465-46-8	Total Hexa-Dioxins	53.323	J	20.913	J			
37871-00-4	Total Hepta-Dioxins	368.27	J	140.33	J			
55722-27-5	Total Tetra-Furans	3.348	EMPC	0.7219	EMPC			
30602-15-4	Total Penta-Furans	9.0642	EMPC	4.4143	EMPC			
55684-94-1	Total Hexa-Furans	31.227	J	9.8533	EMPC			
38998-75-3	Total Hepta-Furans	69.451	J	14.833	J			

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 667/SWMU 138 Soil Data

APX9-HERB			
SAMPLE ID ------->	138-C-B002-01	667-C-B002-01	
ORIGINAL ID ----->	138CB00201	667CB00201	
LAB SAMPLE ID --->	TJU-002	TJU-001	
ID FROM REPORT -->	083002	083001	
SAMPLE DATE ----->	08/29/94	08/29/94	
DATE EXTRACTED -->	09/07/94	09/07/94	
DATE ANALYZED --->	09/15/94	09/15/94	
MATRIX ---------->	Soil	Soil	
UNITS ----------->	UG/KG	UG/KG	

CAS #	Parameter	APX02	VAL	APX02	VAL
93-72-1	2,4,5-TP (Silvex)	7.9	J	7.9	J
93-76-5	2,4,5-T			8.5	J
94-75-7	2,4-D				

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 667/SWMU 138 Soil Data

APX9-METAL			
SAMPLE ID ------->	138-C-B002-01	667-C-B002-01	
ORIGINAL ID ----->	138CB00201	667CB00201	
LAB SAMPLE ID --->	41356-002	41356-001	
ID FROM REPORT -->	083002	083001	
SAMPLE DATE ----->	08/29/94	08/29/94	
DATE EXTRACTED -->	09/02/94	09/02/94	
DATE ANALYZED --->	09/06/94	09/07/94	
MATRIX ---------->	Soil	Soil	
UNITS ---------->	MG/KG	MG/KG	

CAS #	Parameter	APX02	VAL	APX02	VAL
7439-92-1	Lead (Pb)				
7439-97-6	Mercury (Hg)			0.02	J
7440-02-0	Nickel (Ni)				
7440-22-4	Silver (Ag)				
7440-31-5	Tin (Sn)				
7440-36-0	Antimony (Sb)				
7440-38-2	Arsenic (As)	9.	J	2.4	J
7440-39-3	Barium (Ba)				
7440-41-7	Beryllium (Be)	0.37	J	0.15	J
7440-43-9	Cadmium (Cd)				
7440-47-3	Chromium (Cr)	13.9		6.8	
7440-48-4	Cobalt (Co)				
7440-50-8	Copper (Cu)	17.6			
7440-62-2	Vanadium (V)	9.7		10.6	J
7440-66-6	Zinc (Zn)	34.5		49.	
7782-49-2	Selenium (Se)				
7440-28-0	Thallium (Tl)				

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 667/SWMU 138 Soil Data

APX9-OP PE							
	SAMPLE ID ------->	138-C-B002-01	667-C-B002-01				
	ORIGINAL ID ----->	138CB00201	667CB00201				
	LAB SAMPLE ID --->	TJU-002	TJU-001				
	ID FROM REPORT -->	083002	083001				
	SAMPLE DATE ----->	08/29/94	08/29/94				
	DATE EXTRACTED -->	09/02/94	09/02/94				
	DATE ANALYZED --->	09/08/94	09/08/94				
	MATRIX ---------->	Soil	Soil				
	UNITS ---------->	UG/KG	UG/KG				

CAS #	Parameter	APX02	VAL	APX02	VAL				
126-68-1	O,O,O-Triethylphosphorothioate								
297-97-2	Thionazin								
298-00-0	Methyl parathion								
298-02-2	Phorate								
298-04-4	Disulfoton								
3689-24-5	Sulfotep								
52-85-7	Famphur								
56-38-2	Parathion								
60-51-5	Dimethoate								

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 667/SWMU 138 Soil Data

APX9-PEST							
SAMPLE ID ------->	138-C-B002-01	667-C-B002-01					
ORIGINAL ID ----->	138CB00201	667CB00201					
LAB SAMPLE ID --->	TJU-002	TJU-001					
ID FROM REPORT -->	083002	083001					
SAMPLE DATE ----->	08/29/94	08/29/94					
DATE EXTRACTED -->	09/02/94	09/02/94					
DATE ANALYZED --->	09/08/94	09/08/94					
MATRIX ---------->	Soil	Soil					
UNITS ---------->	UG/KG	UG/KG					

CAS #	Parameter	APX02	VAL	APX02	VAL				
309-00-2	Aldrin								
319-84-6	alpha-BHC								
319-85-7	beta-BHC								
319-86-8	delta-BHC								
58-89-9	gamma-BHC (Lindane)								
5103-71-9	alpha-Chlordane								
5103-74-2	gamma-Chlordane								
510-15-6	Chlorobenzilate								
72-54-8	4,4'-DDD								
72-55-9	4,4'-DDE								
50-29-3	4,4'-DDT								
2303-16-4	Diallate								
60-57-1	Dieldrin								
959-98-8	Endosulfan I								
33213-65-9	Endosulfan II								
1031-07-8	Endosulfan sulfate								
72-20-8	Endrin								
7421-93-4	Endrin aldehyde								
76-44-8	Heptachlor								
1024-57-3	Heptachlor epoxide								
465-73-6	Isodrin								
143-50-0	Kepone								
72-43-5	Methoxychlor								
8001-35-2	Toxaphene								
12674-11-2	Aroclor-1016								
11104-28-2	Aroclor-1221								
11141-16-5	Aroclor-1232								
53469-21-9	Aroclor-1242								
12672-29-6	Aroclor-1248								
11097-69-1	Aroclor-1254								
11096-82-5	Aroclor-1260								

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 667/SWMU 138 Soil Data

APX9-SVOA							
SAMPLE ID ------->	138-C-B002-01	667-C-B002-01					
ORIGINAL ID ----->	138CB00201	667CB00201					
LAB SAMPLE ID --->	TJU-002	TJU-001					
ID FROM REPORT -->	083002	083001					
SAMPLE DATE ----->	08/29/94	08/29/94					
DATE EXTRACTED -->	09/06/94	09/06/94					
DATE ANALYZED --->	09/14/94	09/09/94					
MATRIX ---------->	Soil	Soil					
UNITS ---------->	UG/KG	UG/KG					

CAS #	Parameter	APX02	VAL	APX02	VAL				
83-32-9	Acenaphthene								
208-96-8	Acenaphthylene								
98-86-2	Acetophenone								
53-96-3	Acetamidofluorene								
92-67-1	4-Aminobiphenyl								
62-53-3	Aniline								
120-12-7	Anthracene								
140-57-8	Aramite								
56-55-3	Benzo(a)anthracene								
205-99-2	Benzo(b)fluoranthene								
207-08-9	Benzo(k)fluoranthene								
191-24-2	Benzo(g,h,i)perylene								
50-32-8	Benzo(a)pyrene								
100-51-6	Benzyl alcohol								
111-91-1	bis(2-Chloroethoxy)methane								
111-44-4	bis(2-Chloroethyl)ether								
108-60-1	2,2'-oxybis(1-Chloropropane)								
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)			500.	J				
101-55-3	4-Bromophenyl-phenylether								
85-68-7	Butylbenzylphthalate								
106-47-8	4-Chloroaniline								
59-50-7	4-Chloro-3-methylphenol								
91-58-7	2-Chloronaphthalene								
95-57-8	2-Chlorophenol								
7005-72-3	4-Chlorophenylphenylether								
218-01-9	Chrysene								
95-48-7	2-Methylphenol (o-Cresol)								
108-39-4	3-Methylphenol (m-Cresol)								
106-44-5	4-Methylphenol (p-Cresol)								
53-70-3	Dibenz(a,h)anthracene								
132-64-9	Dibenzofuran								
95-50-1	1,2-Dichlorobenzene								
541-73-1	1,3-Dichlorobenzene								
106-46-7	1,4-Dichlorobenzene								
91-94-1	3,3'-Dichlorobenzidine								
120-83-2	2,4-Dichlorophenol								

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 667/SWMU 138 Soil Data

APX9-SVOA							
SAMPLE ID ------>	138-C-B002-01		667-C-B002-01				
ORIGINAL ID ----->	138CB00201		667CB00201				
LAB SAMPLE ID --->	TJU-002		TJU-001				
ID FROM REPORT -->	083002		083001				
SAMPLE DATE ----->	08/29/94		08/29/94				
DATE EXTRACTED -->	09/06/94		09/06/94				
DATE ANALYZED --->	09/14/94		09/09/94				
MATRIX ---------->	Soil		Soil				
UNITS ---------->	UG/KG		UG/KG				
CAS #	Parameter	APX02 VAL	APX02 VAL				
87-65-0	2,6-Dichlorophenol						
84-66-2	Diethylphthalate						
60-11-7	p-(Dimethylamino)azobenzene						
57-97-6	7,12-Dimethylbenz(a)anthracene						
119-93-7	3,3-Dimethylbenzidine						
122-09-8	a,a-Dimethylphenethylamine						
131-11-3	Dimethyl phthalate						
105-67-9	2,4-Dimethylphenol						
84-74-2	Di-n-butylphthalate						
99-65-0	1,3-Dinitrobenzene						
534-52-1	2-Methyl-4,6-Dinitrophenol						
51-28-5	2,4-Dinitrophenol						
88-85-7	Dinoseb						
121-14-2	2,4-Dinitrotoluene						
606-20-2	2,6-Dinitrotoluene						
117-84-0	Di-n-octyl phthalate						
122-39-4	Diphenylamine						
97-63-2	Ethyl methacrylate						
62-50-0	Ethyl methanesulfonate						
206-44-0	Fluoranthene						
86-73-7	Fluorene						
118-74-1	Hexachlorobenzene						
87-68-3	Hexachlorobutadiene						
77-47-4	Hexachlorocyclopentadiene						
67-72-1	Hexachloroethane						
70-30-4	Hexachlorophene						
1888-71-7	Hexachloropropene						
193-39-5	Indeno(1,2,3-cd)pyrene						
78-59-1	Isophorone						
120-58-1	Isosafrole						
91-80-5	Methapyrilene						
56-49-5	3-Methyl cholanthrene						
80-62-6	Methyl methacrylate						
66-27-3	Methyl methanesulfonate						
91-57-6	2-Methylnaphthalene						
91-20-3	Naphthalene						

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 667/SWMU 138 Soil Data

APX9-SVOA			
SAMPLE ID ------->	138-C-B002-01	667-C-B002-01	
ORIGINAL ID ----->	138CB00201	667CB00201	
LAB SAMPLE ID --->	TJU-002	TJU-001	
ID FROM REPORT -->	083002	083001	
SAMPLE DATE ----->	08/29/94	08/29/94	
DATE EXTRACTED -->	09/06/94	09/06/94	
DATE ANALYZED --->	09/14/94	09/09/94	
MATRIX ---------->	Soil	Soil	
UNITS ---------->	UG/KG	UG/KG	

CAS #	Parameter	APX02	VAL	APX02	VAL
130-15-4	1,4-Naphthoquinone				
134-32-7	1-Naphthylamine				
91-59-8	2-Naphthylamine				
88-74-4	2-Nitroaniline				
99-09-2	3-Nitroaniline				
100-01-6	4-Nitroaniline				
98-95-3	Nitrobenzene				
88-75-5	2-Nitrophenol				
100-02-7	4-Nitrophenol				
56-57-5	4-Nitroquinoline 1-oxide				
924-16-3	N-Nitroso-di-n-butylamine				
55-18-5	N-Nitrosodiethylamine				
62-75-9	N-Nitrosodimethylamine				
86-30-6	N-Nitrosodiphenylamine				
621-64-7	N-Nitroso-di-n-propylamine				
10595-95-6	N-Nitrosomethylethylamine				
59-89-2	N-Nitrosomorpholine				
100-75-4	N-Nitrosopiperidine				
930-55-2	N-Nitrosopyrrolidine				
99-55-8	5-Nitro-o-toluidine				
608-93-5	Pentachlorobenzene				
76-01-7	Pentachloroethane				
82-68-8	Pentachloronitrobenzene				
87-86-5	Pentachlorophenol				
62-44-2	Phenacetin				
85-01-8	Phenanthrene	50.8	J		
108-95-2	Phenol				
106-50-3	p-Phenylenediamine				
109-06-8	2-Picoline				
23950-58-5	Pronamide				
129-00-0	Pyrene				
110-86-1	Pyridine				
94-59-7	Safrole				
95-94-3	1,2,4,5-Tetrachlorobenzene				
58-90-2	2,3,4,6-Tetrachlorophenol				
95-53-4	o-Toluidine				

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 667/SWMU 138 Soil Data

APX9-SVOA							
	SAMPLE ID ------>	138-C-B002-01	667-C-B002-01				
	ORIGINAL ID ----->	138CB00201	667CB00201				
	LAB SAMPLE ID --->	TJU-002	TJU-001				
	ID FROM REPORT -->	083002	083001				
	SAMPLE DATE ----->	08/29/94	08/29/94				
	DATE EXTRACTED -->	09/06/94	09/06/94				
	DATE ANALYZED --->	09/14/94	09/09/94				
	MATRIX ---------->	Soil	Soil				
	UNITS ----------->	UG/KG	UG/KG				

CAS #	Parameter	APX02	VAL	APX02	VAL				
120-82-1	1,2,4-Trichlorobenzene								
95-95-4	2,4,5-Trichlorophenol								
88-06-2	2,4,6-Trichlorophenol								
99-35-4	1,3,5-Trinitrobenzene								

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 667/SWMU 138 Soil Data

APX9-VOA			
SAMPLE ID ------->	138-C-B002-01	667-C-B002-01	
ORIGINAL ID ----->	138CB00201	667CB00201	
LAB SAMPLE ID --->	TJU-002	TJU-001	
ID FROM REPORT -->	083002	083001	
SAMPLE DATE ----->	08/29/94	08/29/94	
DATE EXTRACTED -->	09/06/94	09/07/94	
DATE ANALYZED --->	09/06/94	09/07/94	
MATRIX ---------->	Soil	Soil	
UNITS ----------->	UG/KG	UG/KG	

CAS #	Parameter	APX02	VAL	APX02	VAL
67-64-1	Acetone				
75-05-8	Acetonitrile				
107-02-8	Acrolein				
107-13-1	Acrylonitrile				
107-05-1	3-Chloropropene				
71-43-2	Benzene				
75-27-4	Bromodichloromethane				
75-25-2	Bromoform				
75-15-0	Carbon disulfide	4.6	J		
56-23-5	Carbon tetrachloride				
108-90-7	Chlorobenzene				
75-00-3	Chloroethane				
67-66-3	Chloroform				
126-99-8	Chloroprene				
124-48-1	Dibromochloromethane				
96-12-8	1,2-Dibromo-3-Chloropropane				
106-93-4	1, 2-Dibromoethane				
110-57-6	trans-1,4-Dichloro-2-butene				
75-71-8	Dichlorodifluoromethane				
75-34-3	1,1-Dichloroethane				
107-06-2	1,2-Dichloroethane				
75-35-4	1,1-Dichloroethene				
156-60-5	trans-1,2-Dichloroethene				
78-87-5	1,2-Dichloropropane				
10061-01-5	cis-1,3-Dichloropropene				
10061-02-6	trans-1,3-Dichloropropene				
123-91-1	1,4-Dioxane				
100-41-4	Ethylbenzene				
591-78-6	2-Hexanone				
78-83-1	Isobutyl alcohol				
126-98-7	Methacrylonitrile				
74-83-9	Bromomethane				
74-87-3	Chloromethane				
74-95-3	Methylene bromide				
75-09-2	Methylene chloride				
78-93-3	2-Butanone (MEK)			6.9	J

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 667/SWMU 138 Soil Data

APX9-VOA							
	SAMPLE ID ------->	138-C-B002-01	667-C-B002-01				
	ORIGINAL ID ----->	138CB00201	667CB00201				
	LAB SAMPLE ID --->	TJU-002	TJU-001				
	ID FROM REPORT -->	083002	083001				
	SAMPLE DATE ----->	08/29/94	08/29/94				
	DATE EXTRACTED -->	09/06/94	09/07/94				
	DATE ANALYZED --->	09/06/94	09/07/94				
	MATRIX ---------->	Soil	Soil				
	UNITS ----------->	UG/KG	UG/KG				

CAS #	Parameter	APX02	VAL	APX02	VAL				
74-88-4	Methyl iodide								
108-10-1	4-Methyl-2-Pentanone (MIBK)								
107-12-0	Propionitrile								
100-42-5	Styrene								
630-20-6	1,1,1,2-Tetrachloroethane								
79-34-5	1,1,2,2-Tetrachloroethane								
127-18-4	Tetrachloroethene								
108-88-3	Toluene	22.6		2.3	J				
71-55-6	1,1,1-Trichloroethane								
79-00-5	1,1,2-Trichloroethane								
79-01-6	Trichloroethene								
75-69-4	Trichlorofluoromethane								
96-18-4	1,2,3-Trichloropropane								
108-05-4	Vinyl acetate								
75-01-4	Vinyl chloride								
1330-20-7	Xylene (Total)	2.4	J						

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 667/SWMU 138 Soil Data

CYANIDE													
	SAMPLE ID ------->	138-S-B001-01		138-S-B001-02		138-S-B002-01		138-S-B002-02		138-S-B003-01		138-S-B003-02	
	ORIGINAL ID ----->	138SB00101		138SB00102		138SB00201		138SB00202		138SB00301		138SB00302	
	LAB SAMPLE ID --->	41354-038		41354-039		41355-010		41355-011		41355-012		41355-013	
	ID FROM REPORT -->	083019		083020		083021		083022		083023		083024	
	SAMPLE DATE ----->	08/29/94		08/29/94		08/29/94		08/29/94		08/29/94		08/29/94	
	DATE EXTRACTED -->	08/31/94		08/31/94		09/02/94		09/02/94		09/02/94		09/02/94	
	DATE ANALYZED --->	09/06/94		09/06/94		09/06/94		09/06/94		09/06/94		09/06/94	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	MG/KG		MG/KG		MG/KG		MG/KG		MG/KG		MG/KG	
CAS #	Parameter	CHS08	VAL	CHS08	VAL	CHS09	VAL	CHS09	VAL	CHS09	VAL	CHS09	VAL
57-12-5	Cyanide (CN)												

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 667/SWMU 138 Soil Data

CYANIDE	SAMPLE ID ------->	667-S-B001-01	667-S-B001-02	667-S-B002-01	667-C-B002-01	667-S-B002-02	667-S-B003-01
	ORIGINAL ID ----->	667SB00101	667SB00102	667SB00201	667CB00201	667SB00202	667SB00301
	LAB SAMPLE ID --->	41354-030	41354-031	41354-032	41356-001	41354-033	41354-034
	ID FROM REPORT -->	083011	083012	083013	083001	083014	083015
	SAMPLE DATE ----->	08/29/94	08/29/94	08/29/94	08/29/94	08/29/94	08/29/94
	DATE EXTRACTED -->	08/31/94	08/31/94	08/31/94	09/02/94	08/31/94	08/31/94
	DATE ANALYZED --->	09/07/94	09/06/94	09/07/94	09/07/94	09/07/94	09/06/94
	MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
	UNITS ----------->	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG

CAS #	Parameter	CHS08	VAL	CHS08	VAL	CHS08	VAL	APX02	VAL	CHS08	VAL	CHS08	VAL
57-12-5	Cyanide (CN)					3.8		1.3					

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 667/SWMU 138 Soil Data

CYANIDE							
	SAMPLE ID ------>	667-S-B003-02	667-S-B004-01	667-S-B004-02			
	ORIGINAL ID ----->	667SB00302	667SB00401	667SB00402			
	LAB SAMPLE ID --->	41354-035	41354-036	41354-037			
	ID FROM REPORT -->	083016	083017	083018			
	SAMPLE DATE ----->	08/29/94	08/29/94	08/29/94			
	DATE EXTRACTED -->	08/31/94	08/31/94	08/31/94			
	DATE ANALYZED --->	09/06/94	09/06/94	09/07/94			
	MATRIX ---------->	Soil	Soil	Soil			
	UNITS ---------->	MG/KG	MG/KG	MG/KG			
CAS #	Parameter	CHS08 VAL	CHS08 VAL	CHS08 VAL			
57-12-5	Cyanide (CN)						

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 667/SWMU 138 Soil Data

HEXACHROME	SAMPLE ID ------>	138-C-B002-01	667-C-B002-01				
	ORIGINAL ID ----->	138CB00201	667CB00201				
	LAB SAMPLE ID --->	41356-002	41356-001				
	ID FROM REPORT -->	083002	083001				
	SAMPLE DATE ----->	08/29/94	08/29/94				
	DATE ANALYZED --->	08/31/94	08/31/94				
	MATRIX ---------->	Soil	Soil				
	UNITS ----------->	MG/KG	MG/KG				

CAS #	Parameter	APX02	VAL	APX02	VAL				
9999900-00-5	Hexavalent Chromium								

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 667/SWMU 138 Soil Data

SW846-META	SAMPLE ID ------>	138-S-B001-01	138-S-B001-02	138-S-B002-01	138-S-B002-02	138-S-B003-01	138-S-B003-02
	ORIGINAL ID ----->	138SB00101	138SB00102	138SB00201	138SB00202	138SB00301	138SB00302
	LAB SAMPLE ID --->	41354-038	41354-039	41355-010	41355-011	41355-012	41355-013
	ID FROM REPORT -->	083019	083020	083021	083022	083023	083024
	SAMPLE DATE ----->	08/29/94	08/29/94	08/29/94	08/29/94	08/29/94	08/29/94
	DATE EXTRACTED -->	08/31/94	08/31/94	09/02/94	09/02/94	09/02/94	09/02/94
	DATE ANALYZED --->	09/06/94	09/06/94	09/06/94	09/06/94	09/06/94	09/06/94
	MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
	UNITS ---------->	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG

CAS #	Parameter	CHS08	VAL	CHS08	VAL	CHS09	VAL	CHS09	VAL	CHS09	VAL	CHS09	VAL
7429-90-5	Aluminum (Al)	3190.		4910.		3350.		3820.		3140.		3640.	
7439-89-6	Iron (Fe)	2690.		5660.		5440.		5210.		5600.		4730.	
7439-92-1	Lead (Pb)	2.8	J			21.				56.7			
7440-02-0	Nickel (Ni)	1.7	J	10.2				11.4				12.8	
7440-09-7	Potassium (K)												
7440-22-4	Silver (Ag)												
7440-23-5	Sodium (Na)	18.5		784.	J	331.	J	816.		103.	J	680.	
7440-28-0	Thallium (Tl)												
7440-36-0	Antimony (Sb)	1.1	J										
7440-38-2	Arsenic (As)	1.		6.6		8.		8.		5.4		7.	
7440-39-3	Barium (Ba)	7.9	J			175.				41.6			
7440-41-7	Beryllium (Be)	0.03	J	0.38	J	1.5		0.33	J	0.3	J	0.31	J
7440-43-9	Cadmium (Cd)			0.32	J			0.42	J	0.35	J	0.46	J
7440-48-4	Cobalt (Co)	0.28	J	1.	J	3.2	J	1.3	J	1.6	J	0.9	J
7440-50-8	Copper (Cu)	1.6	J	5.1		62.1				34.			
7440-62-2	Vanadium (V)	6.		18.9		10.9		14.6		14.2		15.6	
7440-66-6	Zinc (Zn)	3.9		24.		391.		28.2		85.5		29.	
7782-49-2	Selenium (Se)											1.2	J
7439-97-6	Mercury (Hg)	0.03	J							0.03	J		
7439-95-4	Magnesium (Mg)			3330.		3150.		4080.		1310.		5050.	
7439-96-5	Manganese (Mn)	17.7		51.		76.	J	63.9	J	87.6	J	63.4	J
7440-70-2	Calcium (Ca)	2920.		118000.		28900.		138000.		69900.		156000.	
7440-47-3	Chromium (Cr)	3.3	J	26.1	J	99.5		24.3		19.6		26.6	
7440-31-5	Tin (Sn)	NR		NR		NR		NR		NR		NR	

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 667/SWMU 138 Soil Data

SW846-META	SAMPLE ID ------->	667-S-B001-01	667-S-B001-02	667-S-B002-01	667-S-B002-02	667-S-B003-01	667-S-B003-02
	ORIGINAL ID ----->	667SB00101	667SB00102	667SB00201	667SB00202	667SB00301	667SB00302
	LAB SAMPLE ID --->	41354-030	41354-031	41354-032	41354-033	41354-034	41354-035
	ID FROM REPORT -->	083011	083012	083013	083014	083015	083016
	SAMPLE DATE ----->	08/29/94	08/29/94	08/29/94	08/29/94	08/29/94	08/29/94
	DATE EXTRACTED -->	08/31/94	08/31/94	08/31/94	08/31/94	08/31/94	08/31/94
	DATE ANALYZED --->	09/07/94	09/06/94	09/07/94	09/07/94	09/06/94	09/06/94
	MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
	UNITS ---------->	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG

CAS #	Parameter	CHS08	VAL	CHS08	VAL	CHS08	VAL	CHS08	VAL	CHS08	VAL	CHS08	VAL
7429-90-5	Aluminum (Al)	4490.		3980.		1820.		6870.		4450.		4600.	
7439-89-6	Iron (Fe)	5070.		4580.		3080.		7250.		7460.		5580.	
7439-92-1	Lead (Pb)	11.9	J			11.4	J	14.4	J	6.8	J		
7440-02-0	Nickel (Ni)	4.5		6.6		9.3	J	14.2	J	1.8	J	10.2	
7440-09-7	Potassium (K)												
7440-22-4	Silver (Ag)												
7440-23-5	Sodium (Na)	71.7	J	810.		116.	J	2120.	J	33.1	J	567.	
7440-28-0	Thallium (Tl)												
7440-36-0	Antimony (Sb)							10.4	J				
7440-38-2	Arsenic (As)	3.3		7.2		2.3	J	10.		3.5		8.4	
7440-39-3	Barium (Ba)	8.2	J	2.1	J			8.7	J	8.5	J	1.	J
7440-41-7	Beryllium (Be)	0.11	J	0.55				1.2	J	0.05	J	0.31	J
7440-43-9	Cadmium (Cd)	0.36	J	0.31	J							0.33	J
7440-48-4	Cobalt (Co)	1.5	J	1.9	J	3.4	J	2.5	J	0.44	J	1.3	J
7440-50-8	Copper (Cu)	8.1		4.3		6.2	J	6.5	J	2.5		5.4	
7440-62-2	Vanadium (V)	12.4		11.4		8.	J	42.9		15.5		14.2	
7440-66-6	Zinc (Zn)	49.		15.2		49.1		30.6		14.1		27.3	
7782-49-2	Selenium (Se)											1.1	J
7439-97-6	Mercury (Hg)	0.02	J							0.02	J		
7439-95-4	Magnesium (Mg)	1060.		2450.		2000.	J	4910.		302.	J	3560.	
7439-96-5	Manganese (Mn)	81.7		119.		152.		91.6		24.		70.	
7440-70-2	Calcium (Ca)	99600.		124000.		202000.		162000.		13700.		119000.	
7440-47-3	Chromium (Cr)	8.4	J	15.4	J	8.6	J	40.4	J	8.5	J	21.	J
7440-31-5	Tin (Sn)	NR		NR		NR		NR		NR		NR	

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 667/SWMU 138 Soil Data

SW846-META							
SAMPLE ID ------->	667-S-B004-01		667-S-B004-02				
ORIGINAL ID ----->	667SB00401		667SB00402				
LAB SAMPLE ID --->	41354-036		41354-037				
ID FROM REPORT -->	083017		083018				
SAMPLE DATE ----->	08/29/94		08/29/94				
DATE EXTRACTED -->	08/31/94		08/31/94				
DATE ANALYZED --->	09/06/94		09/07/94				
MATRIX ---------->	Soil		Soil				
UNITS ---------->	MG/KG		MG/KG				
CAS #	Parameter	CHS08 VAL	CHS08 VAL				
7429-90-5	Aluminum (Al)	3250.	6020.				
7439-89-6	Iron (Fe)	1850.	7710.				
7439-92-1	Lead (Pb)	3.8 J					
7440-02-0	Nickel (Ni)	2.5 J	25.5				
7440-09-7	Potassium (K)						
7440-22-4	Silver (Ag)						
7440-23-5	Sodium (Na)	17.1 J	1630. J				
7440-28-0	Thallium (Tl)						
7440-36-0	Antimony (Sb)	1.4 J					
7440-38-2	Arsenic (As)	0.92 J	9.5				
7440-39-3	Barium (Ba)	6.4 J					
7440-41-7	Beryllium (Be)	0.05 J	0.57 J				
7440-43-9	Cadmium (Cd)						
7440-48-4	Cobalt (Co)	0.39 J					
7440-50-8	Copper (Cu)	2.1 J	8.1 J				
7440-62-2	Vanadium (V)	9.1	36.				
7440-66-6	Zinc (Zn)	5.9	54.4				
7782-49-2	Selenium (Se)		2.3 J				
7439-97-6	Mercury (Hg)	0.03 J					
7439-95-4	Magnesium (Mg)	83.5 J	9700.				
7439-96-5	Manganese (Mn)	7.9	123.				
7440-70-2	Calcium (Ca)	1300.	205000.				
7440-47-3	Chromium (Cr)	3.1 J	59.9 J				
7440-31-5	Tin (Sn)	NR	NR				

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 667/SWMU 138 Soil Data

SW846-PEST	SAMPLE ID ------->	138-S-B001-01	138-S-B001-02	138-S-B002-01	138-S-B002-02	138-S-B003-01	138-S-B003-02
	ORIGINAL ID ----->	138SB00101	138SB00102	138SB00201	138SB00202	138SB00301	138SB00302
	LAB SAMPLE ID --->	41354-025	41354-026	BDB643	BDB644	BDB645	BDB646
	ID FROM REPORT -->	083019	083020	083021	083022	083023	083024
	SAMPLE DATE ----->	08/29/94	08/29/94	08/29/94	08/29/94	08/29/94	08/29/94
	DATE EXTRACTED -->	08/31/94	09/09/94	09/09/94	09/09/94	09/09/94	09/09/94
	DATE ANALYZED --->	09/22/94	09/22/94	09/18/94	09/17/94	09/21/94	09/17/94
	MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
	UNITS ----------->	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG

CAS #	Parameter	CHS08	VAL	CHS08	VAL	CHS09	VAL	CHS09	VAL	CHS09	VAL	CHS09	VAL
11097-69-1	Aroclor-1254												
11104-28-2	Aroclor-1221												
11141-16-5	Aroclor-1232												
12672-29-6	Aroclor-1248												
11096-82-5	Aroclor-1260												
12674-11-2	Aroclor-1016												
53469-21-9	Aroclor-1242												
1024-57-3	Heptachlor epoxide												
1031-07-8	Endosulfan sulfate												
309-00-2	Aldrin												
319-84-6	alpha-BHC												
319-85-7	beta-BHC												
319-86-8	delta-BHC												
33213-65-9	Endosulfan II												
50-29-3	4,4'-DDT					25.7				1140.	J	8.99	
5103-71-9	alpha-Chlordane												
5103-74-2	gamma-Chlordane					4.8							
53494-70-5	Endrin ketone												
58-89-9	gamma-BHC (Lindane)												
60-57-1	Dieldrin												
72-20-8	Endrin												
72-43-5	Methoxychlor												
72-54-8	4,4'-DDD					11.4						18.1	
72-55-9	4,4'-DDE					11.1				632.	J		
7421-93-4	Endrin aldehyde												
76-44-8	Heptachlor												
8001-35-2	Toxaphene												
959-98-8	Endosulfan I												

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 667/SWMU 138 Soil Data

SW846-PEST							
SAMPLE ID ------>	667-S-B001-01	667-S-B001-02	667-S-B002-01	667-S-B002-02	667-S-B003-01	667-S-B003-02
ORIGINAL ID ----->	667SB00101	667SB00102	667SB00201	667SB00202	667SB00301	667SB00302
LAB SAMPLE ID --->	41354-017	41354-018	41354-019	41354-020	41354-021	41354-022
ID FROM REPORT -->	083011	083012	083013	083014	083015	083016
SAMPLE DATE ----->	08/29/94	08/29/94	08/29/94	08/29/94	08/29/94	08/29/94
DATE EXTRACTED -->	08/31/94	08/31/94	08/31/94	08/31/94	08/31/94	08/31/94
DATE ANALYZED --->	09/27/94	09/27/94	09/27/94	09/22/94	09/21/94	09/22/94
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
UNITS ---------->	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG

CAS #	Parameter	CHS08	VAL	CHS08	VAL	CHS08	VAL	CHS08	VAL	CHS08	VAL	CHS08	VAL
11097-69-1	Aroclor-1254												
11104-28-2	Aroclor-1221												
11141-16-5	Aroclor-1232												
12672-29-6	Aroclor-1248												
11096-82-5	Aroclor-1260												
12674-11-2	Aroclor-1016												
53469-21-9	Aroclor-1242												
1024-57-3	Heptachlor epoxide												
1031-07-8	Endosulfan sulfate												
309-00-2	Aldrin												
319-84-6	alpha-BHC												
319-85-7	beta-BHC												
319-86-8	delta-BHC												
33213-65-9	Endosulfan II												
50-29-3	4,4'-DDT												
5103-71-9	alpha-Chlordane									3.	J		
5103-74-2	gamma-Chlordane									2.	J		
53494-70-5	Endrin ketone												
58-89-9	gamma-BHC (Lindane)												
60-57-1	Dieldrin												
72-20-8	Endrin												
72-43-5	Methoxychlor												
72-54-8	4,4'-DDD	4.	J										
72-55-9	4,4'-DDE	2.	J										
7421-93-4	Endrin aldehyde												
76-44-8	Heptachlor												
8001-35-2	Toxaphene												
959-98-8	Endosulfan I												

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 667/SWMU 138 Soil Data

SW846-PEST							
	SAMPLE ID ------->	667-S-B004-01	667-S-B004-02				
	ORIGINAL ID ----->	667SB00401	667SB00402				
	LAB SAMPLE ID --->	41354-023	41354-024				
	ID FROM REPORT -->	083017	083018				
	SAMPLE DATE ----->	08/29/94	08/29/94				
	DATE EXTRACTED -->	08/31/94	08/31/94				
	DATE ANALYZED --->	09/27/94	09/22/94				
	MATRIX ---------->	Soil	Soil				
	UNITS ----------->	UG/KG	UG/KG				

CAS #	Parameter	CHS08	VAL	CHS08	VAL				
11097-69-1	Aroclor-1254								
11104-28-2	Aroclor-1221								
11141-16-5	Aroclor-1232								
12672-29-6	Aroclor-1248								
11096-82-5	Aroclor-1260								
12674-11-2	Aroclor-1016								
53469-21-9	Aroclor-1242								
1024-57-3	Heptachlor epoxide								
1031-07-8	Endosulfan sulfate								
309-00-2	Aldrin								
319-84-6	alpha-BHC								
319-85-7	beta-BHC								
319-86-8	delta-BHC								
33213-65-9	Endosulfan II								
50-29-3	4,4'-DDT								
5103-71-9	alpha-Chlordane								
5103-74-2	gamma-Chlordane								
53494-70-5	Endrin ketone								
58-89-9	gamma-BHC (Lindane)								
60-57-1	Dieldrin								
72-20-8	Endrin								
72-43-5	Methoxychlor								
72-54-8	4,4'-DDD	5.	J						
72-55-9	4,4'-DDE	3.	J						
7421-93-4	Endrin aldehyde								
76-44-8	Heptachlor								
8001-35-2	Toxaphene								
959-98-8	Endosulfan I								

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 667/SWMU 138 Soil Data

SW846-SVOA	SAMPLE ID ------->	138-S-B001-01	138-S-B001-02	138-S-B002-01	138-S-B002-02	138-S-B003-01	138-S-B003-02
	ORIGINAL ID ----->	138SB00101	138SB00102	138SB00201	138SB00202	138SB00301	138SB00302
	LAB SAMPLE ID --->	41354-025	41354-026	BDB643	BDB644	BDB645	BDB646
	ID FROM REPORT -->	083019	083020	083021	083022	083023	083024
	SAMPLE DATE ----->	08/29/94	08/29/94	08/29/94	08/29/94	08/29/94	08/29/94
	DATE EXTRACTED -->	08/31/94	09/09/94	09/08/94	09/08/94	09/08/94	09/08/94
	DATE ANALYZED --->	09/16/94	09/19/94	09/21/94	09/21/94	09/21/94	09/21/94
	MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
	UNITS ---------->	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG

CAS #	Parameter	CHS08	VAL	CHS08	VAL	CHS09	VAL	CHS09	VAL	CHS09	VAL	CHS09	VAL
62-75-9	N-Nitrosodimethylamine												
606-20-2	2,6-Dinitrotoluene												
108-95-2	Phenol												
99-09-2	3-Nitroaniline												
62-53-3	Aniline												
83-32-9	Acenaphthene												
111-44-4	bis(2-Chloroethyl)ether												
51-28-5	2,4-Dinitrophenol												
95-57-8	2-Chlorophenol												
100-02-7	4-Nitrophenol												
541-73-1	1,3-Dichlorobenzene												
132-64-9	Dibenzofuran												
106-46-7	1,4-Dichlorobenzene												
121-14-2	2,4-Dinitrotoluene												
100-51-6	Benzyl alcohol												
84-66-2	Diethylphthalate												
95-50-1	1,2-Dichlorobenzene												
7005-72-3	4-Chlorophenylphenylether												
95-48-7	2-Methylphenol (o-Cresol)												
86-73-7	Fluorene												
108-60-1	2,2'-oxybis(1-Chloropropane)												
100-01-6	4-Nitroaniline												
106-44-5	4-Methylphenol (p-Cresol)												
534-52-1	2-Methyl-4,6-Dinitrophenol												
621-64-7	N-Nitroso-di-n-propylamine												
86-30-6	N-Nitrosodiphenylamine												
67-72-1	Hexachloroethane												
101-55-3	4-Bromophenyl-phenylether												
98-95-3	Nitrobenzene												
118-74-1	Hexachlorobenzene												
78-59-1	Isophorone												
87-86-5	Pentachlorophenol												
88-75-5	2-Nitrophenol												
85-01-8	Phenanthrene											55.8	J
105-67-9	2,4-Dimethylphenol												
120-12-7	Anthracene												

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 667/SWMU 138 Soil Data

SW846-SVOA							
SAMPLE ID ------->	138-S-B001-01	138-S-B001-02	138-S-B002-01	138-S-B002-02	138-S-B003-01	138-S-B003-02
ORIGINAL ID ----->	138SB00101	138SB00102	138SB00201	138SB00202	138SB00301	138SB00302
LAB SAMPLE ID --->	41354-025	41354-026	BDB643	BDB644	BDB645	BDB646
ID FROM REPORT -->	083019	083020	083021	083022	083023	083024
SAMPLE DATE ----->	08/29/94	08/29/94	08/29/94	08/29/94	08/29/94	08/29/94
DATE EXTRACTED -->	08/31/94	09/09/94	09/08/94	09/08/94	09/08/94	09/08/94
DATE ANALYZED --->	09/16/94	09/19/94	09/21/94	09/21/94	09/21/94	09/21/94
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
UNITS ---------->	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG

CAS #	Parameter	CHS08	VAL	CHS08	VAL	CHS09	VAL	CHS09	VAL	CHS09	VAL	CHS09	VAL
65-85-0	Benzoic acid												
84-74-2	Di-n-butylphthalate									64.	J		
111-91-1	bis(2-Chloroethoxy)methane												
206-44-0	Fluoranthene									117.	J		
120-83-2	2,4-Dichlorophenol												
92-87-5	Benzidine												
120-82-1	1,2,4-Trichlorobenzene												
129-00-0	Pyrene									89.1	J		
91-20-3	Naphthalene												
85-68-7	Butylbenzylphthalate												
106-47-8	4-Chloroaniline												
91-94-1	3,3'-Dichlorobenzidine												
87-68-3	Hexachlorobutadiene												
56-55-3	Benzo(a)anthracene												
59-50-7	4-Chloro-3-methylphenol	72.	J										
218-01-9	Chrysene												
91-57-6	2-Methylnaphthalene												
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)							111.	J				
77-47-4	Hexachlorocyclopentadiene												
117-84-0	Di-n-octyl phthalate												
88-06-2	2,4,6-Trichlorophenol												
205-99-2	Benzo(b)fluoranthene									214.	J		
95-95-4	2,4,5-Trichlorophenol												
207-08-9	Benzo(k)fluoranthene												
91-58-7	2-Chloronaphthalene												
50-32-8	Benzo(a)pyrene									153.	J		
88-74-4	2-Nitroaniline												
193-39-5	Indeno(1,2,3-cd)pyrene												
131-11-3	Dimethyl phthalate												
53-70-3	Dibenz(a,h)anthracene												
208-96-8	Acenaphthylene												
191-24-2	Benzo(g,h,i)perylene												
110-86-1	Pyridine	NR		NR		NR		NR		NR		NR	
103-33-3	Azobenzene	NR		NR		NR		NR		NR		NR	
86-74-8	Carbazole	NR		NR		NR		NR		NR		NR	

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 667/SWMU 138 Soil Data

SW846-SVOA	SAMPLE ID ------>	667-S-B001-01	667-S-B001-02	667-S-B002-01	667-S-B002-02	667-S-B003-01	667-S-B003-02
	ORIGINAL ID ----->	667SB00101	667SB00102	667SB00201	667SB00202	667SB00301	667SB00302
	LAB SAMPLE ID --->	41354-017	41354-018	41354-019	41354-020	41354-021	41354-022
	ID FROM REPORT -->	083011	083012	083013	083014	083015	083016
	SAMPLE DATE ----->	08/29/94	08/29/94	08/29/94	08/29/94	08/29/94	08/29/94
	DATE EXTRACTED -->	08/31/94	08/31/94	08/31/94	08/31/94	08/31/94	08/31/94
	DATE ANALYZED --->	09/20/94	09/16/94	09/20/94	09/16/94	09/19/94	09/20/94
	MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
	UNITS ---------->	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG

CAS #	Parameter	CHS08	VAL	CHS08	VAL	CHS08	VAL	CHS08	VAL	CHS08	VAL	CHS08	VAL
62-75-9	N-Nitrosodimethylamine												
606-20-2	2,6-Dinitrotoluene												
108-95-2	Phenol												
99-09-2	3-Nitroaniline												
62-53-3	Aniline												
83-32-9	Acenaphthene												
111-44-4	bis(2-Chloroethyl)ether												
51-28-5	2,4-Dinitrophenol												
95-57-8	2-Chlorophenol												
100-02-7	4-Nitrophenol												
541-73-1	1,3-Dichlorobenzene												
132-64-9	Dibenzofuran												
106-46-7	1,4-Dichlorobenzene												
121-14-2	2,4-Dinitrotoluene												
100-51-6	Benzyl alcohol												
84-66-2	Diethylphthalate												
95-50-1	1,2-Dichlorobenzene												
7005-72-3	4-Chlorophenylphenylether												
95-48-7	2-Methylphenol (o-Cresol)												
86-73-7	Fluorene											720.	J
108-60-1	2,2'-oxybis(1-Chloropropane)												
100-01-6	4-Nitroaniline												
106-44-5	4-Methylphenol (p-Cresol)												
534-52-1	2-Methyl-4,6-Dinitrophenol												
621-64-7	N-Nitroso-di-n-propylamine												
86-30-6	N-Nitrosodiphenylamine												
67-72-1	Hexachloroethane												
101-55-3	4-Bromophenyl-phenylether												
98-95-3	Nitrobenzene												
118-74-1	Hexachlorobenzene												
78-59-1	Isophorone												
87-86-5	Pentachlorophenol												
88-75-5	2-Nitrophenol												
85-01-8	Phenanthrene											1000.	
105-67-9	2,4-Dimethylphenol												
120-12-7	Anthracene												

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 667/SWMU 138 Soil Data

SW846-SVOA													
	SAMPLE ID ------>	667-S-B001-01		667-S-B001-02		667-S-B002-01		667-S-B002-02		667-S-B003-01		667-S-B003-02	
	ORIGINAL ID ----->	667SB00101		667SB00102		667SB00201		667SB00202		667SB00301		667SB00302	
	LAB SAMPLE ID --->	41354-017		41354-018		41354-019		41354-020		41354-021		41354-022	
	ID FROM REPORT -->	083011		083012		083013		083014		083015		083016	
	SAMPLE DATE ----->	08/29/94		08/29/94		08/29/94		08/29/94		08/29/94		08/29/94	
	DATE EXTRACTED -->	08/31/94		08/31/94		08/31/94		08/31/94		08/31/94		08/31/94	
	DATE ANALYZED --->	09/20/94		09/16/94		09/20/94		09/16/94		09/19/94		09/20/94	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ----------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	CHS08	VAL	CHS08	VAL	CHS08	VAL	CHS08	VAL	CHS08	VAL	CHS08	VAL
65-85-0	Benzoic acid												
84-74-2	Di-n-butylphthalate												
111-91-1	bis(2-Chloroethoxy)methane												
206-44-0	Fluoranthene												
120-83-2	2,4-Dichlorophenol												
92-87-5	Benzidine												
120-82-1	1,2,4-Trichlorobenzene												
129-00-0	Pyrene												
91-20-3	Naphthalene											670.	J
85-68-7	Butylbenzylphthalate												
106-47-8	4-Chloroaniline												
91-94-1	3,3'-Dichlorobenzidine												
87-68-3	Hexachlorobutadiene												
56-55-3	Benzo(a)anthracene												
59-50-7	4-Chloro-3-methylphenol												
218-01-9	Chrysene												
91-57-6	2-Methylnaphthalene											2600.	
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	310.	J			460.	J						
77-47-4	Hexachlorocyclopentadiene												
117-84-0	Di-n-octyl phthalate												
88-06-2	2,4,6-Trichlorophenol												
205-99-2	Benzo(b)fluoranthene												
95-95-4	2,4,5-Trichlorophenol												
207-08-9	Benzo(k)fluoranthene												
91-58-7	2-Chloronaphthalene												
50-32-8	Benzo(a)pyrene												
88-74-4	2-Nitroaniline												
193-39-5	Indeno(1,2,3-cd)pyrene												
131-11-3	Dimethyl phthalate												
53-70-3	Dibenz(a,h)anthracene												
208-96-8	Acenaphthylene												
191-24-2	Benzo(g,h,i)perylene												
110-86-1	Pyridine	NR		NR		NR		NR		NR		NR	
103-33-3	Azobenzene	NR		NR		NR		NR		NR		NR	
86-74-8	Carbazole	NR		NR		NR		NR		NR		NR	

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 667/SWMU 138 Soil Data

SW846-SVOA							
	SAMPLE ID ------->	667-S-B004-01	667-S-B004-02				
	ORIGINAL ID ----->	667SB00401	667SB00402				
	LAB SAMPLE ID --->	41354-023	41354-024				
	ID FROM REPORT -->	083017	083018				
	SAMPLE DATE ----->	08/29/94	08/29/94				
	DATE EXTRACTED -->	08/31/94	08/31/94				
	DATE ANALYZED --->	09/19/94	09/16/94				
	MATRIX ---------->	Soil	Soil				
	UNITS ----------->	UG/KG	UG/KG				

CAS #	Parameter	CHS08	VAL	CHS08	VAL				
62-75-9	N-Nitrosodimethylamine								
606-20-2	2,6-Dinitrotoluene								
108-95-2	Phenol								
99-09-2	3-Nitroaniline								
62-53-3	Aniline								
83-32-9	Acenaphthene								
111-44-4	bis(2-Chloroethyl)ether								
51-28-5	2,4-Dinitrophenol								
95-57-8	2-Chlorophenol								
100-02-7	4-Nitrophenol								
541-73-1	1,3-Dichlorobenzene								
132-64-9	Dibenzofuran								
106-46-7	1,4-Dichlorobenzene								
121-14-2	2,4-Dinitrotoluene								
100-51-6	Benzyl alcohol								
84-66-2	Diethylphthalate								
95-50-1	1,2-Dichlorobenzene								
7005-72-3	4-Chlorophenylphenylether								
95-48-7	2-Methylphenol (o-Cresol)								
86-73-7	Fluorene								
108-60-1	2,2'-oxybis(1-Chloropropane)								
100-01-6	4-Nitroaniline								
106-44-5	4-Methylphenol (p-Cresol)								
534-52-1	2-Methyl-4,6-Dinitrophenol								
621-64-7	N-Nitroso-di-n-propylamine								
86-30-6	N-Nitrosodiphenylamine								
67-72-1	Hexachloroethane								
101-55-3	4-Bromophenyl-phenylether								
98-95-3	Nitrobenzene								
118-74-1	Hexachlorobenzene								
78-59-1	Isophorone								
87-86-5	Pentachlorophenol								
88-75-5	2-Nitrophenol								
85-01-8	Phenanthrene								
105-67-9	2,4-Dimethylphenol								
120-12-7	Anthracene								

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 667/SWMU 138 Soil Data

SW846-SVOA			
	SAMPLE ID ------->	667-S-B004-01	667-S-B004-02
	ORIGINAL ID ----->	667SB00401	667SB00402
	LAB SAMPLE ID --->	41354-023	41354-024
	ID FROM REPORT -->	083017	083018
	SAMPLE DATE ----->	08/29/94	08/29/94
	DATE EXTRACTED -->	08/31/94	08/31/94
	DATE ANALYZED --->	09/19/94	09/16/94
	MATRIX ---------->	Soil	Soil
	UNITS ---------->	UG/KG	UG/KG

CAS #	Parameter	CHS08	VAL	CHS08	VAL
65-85-0	Benzoic acid				
84-74-2	Di-n-butylphthalate				
111-91-1	bis(2-Chloroethoxy)methane				
206-44-0	Fluoranthene				
120-83-2	2,4-Dichlorophenol				
92-87-5	Benzidine				
120-82-1	1,2,4-Trichlorobenzene				
129-00-0	Pyrene				
91-20-3	Naphthalene				
85-68-7	Butylbenzylphthalate				
106-47-8	4-Chloroaniline				
91-94-1	3,3'-Dichlorobenzidine				
87-68-3	Hexachlorobutadiene				
56-55-3	Benzo(a)anthracene				
59-50-7	4-Chloro-3-methylphenol				
218-01-9	Chrysene				
91-57-6	2-Methylnaphthalene				
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)				
77-47-4	Hexachlorocyclopentadiene				
117-84-0	Di-n-octyl phthalate				
88-06-2	2,4,6-Trichlorophenol				
205-99-2	Benzo(b)fluoranthene				
95-95-4	2,4,5-Trichlorophenol				
207-08-9	Benzo(k)fluoranthene				
91-58-7	2-Chloronaphthalene				
50-32-8	Benzo(a)pyrene				
88-74-4	2-Nitroaniline				
193-39-5	Indeno(1,2,3-cd)pyrene				
131-11-3	Dimethyl phthalate				
53-70-3	Dibenz(a,h)anthracene				
208-96-8	Acenaphthylene				
191-24-2	Benzo(g,h,i)perylene				
110-86-1	Pyridine	NR		NR	
103-33-3	Azobenzene	NR		NR	
86-74-8	Carbazole	NR		NR	

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 667/SWMU 138 Soil Data

SW846-VOA	SAMPLE ID ------>	138-S-B001-01	138-S-B001-02	138-S-B002-01	138-S-B002-02	138-S-B003-01	138-S-B003-02
	ORIGINAL ID ----->	138SB00101	138SB00102	138SB00201	138SB00202	138SB00301	138SB00302
	LAB SAMPLE ID --->	41354-012	41354-013	BDB643	BDB644	BDB645	BDB646
	ID FROM REPORT -->	083019	083020	083021	083022	083023	083024
	SAMPLE DATE ----->	08/29/94	08/29/94	08/29/94	08/29/94	08/29/94	08/29/94
	DATE ANALYZED --->	09/06/94	09/08/94	09/07/94	09/07/94	09/07/94	09/07/94
	MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
	UNITS ---------->	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG

CAS #	Parameter	CHS08	VAL	CHS08	VAL	CHS09	VAL	CHS09	VAL	CHS09	VAL	CHS09	VAL
100-41-4	Ethylbenzene												
100-42-5	Styrene												
10061-01-5	cis-1,3-Dichloropropene												
10061-02-6	trans-1,3-Dichloropropene												
107-06-2	1,2-Dichloroethane												
108-05-4	Vinyl acetate												
108-10-1	4-Methyl-2-Pentanone (MIBK)												
108-88-3	Toluene	12.		5.	J	3.67	J						
108-90-7	Chlorobenzene												
109-99-9	Tetrahydrofuran												
124-48-1	Dibromochloromethane												
127-18-4	Tetrachloroethene												
1330-20-7	Xylene (Total)												
540-59-0	1,2-Dichloroethene (total)												
56-23-5	Carbon tetrachloride												
591-78-6	2-Hexanone												
67-64-1	Acetone	56.		96.				21.1	J	52.5		37.4	
67-66-3	Chloroform												
71-43-2	Benzene												
71-55-6	1,1,1-Trichloroethane												
74-83-9	Bromomethane												
74-87-3	Chloromethane												
75-00-3	Chloroethane												
75-01-4	Vinyl chloride												
75-09-2	Methylene chloride			5.	J	12.9						12.4	J
75-15-0	Carbon disulfide												
75-25-2	Bromoform												
75-27-4	Bromodichloromethane												
75-34-3	1,1-Dichloroethane												
75-35-4	1,1-Dichloroethene												
75-69-4	Trichlorofluoromethane												
78-87-5	1,2-Dichloropropane												
78-93-3	2-Butanone (MEK)											6.83	J
79-00-5	1,1,2-Trichloroethane												
79-01-6	Trichloroethene												
79-34-5	1,1,2,2-Tetrachloroethane												

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 667/SWMU 138 Soil Data

SW846-VOA	SAMPLE ID ------>	667-S-B001-01	667-S-B001-02	667-S-B002-01	667-S-B002-02	667-S-B003-01	667-S-B003-02
	ORIGINAL ID ----->	667SB00101	667SB00102	667SB00201	667SB00202	667SB00301	667SB00302
	LAB SAMPLE ID --->	41354-004	41354-005	41354-006	41354-007	41354-008	41354-009
	ID FROM REPORT -->	083011	083012	083013	083014	083015	083016
	SAMPLE DATE ----->	08/29/94	08/29/94	08/29/94	08/29/94	08/29/94	08/29/94
	DATE ANALYZED --->	09/02/94	09/02/94	09/02/94	09/02/94	09/02/94	09/06/94
	MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
	UNITS ---------->	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG

CAS #	Parameter	CHS08	VAL	CHS08	VAL	CHS08	VAL	CHS08	VAL	CHS08	VAL	CHS08	VAL
100-41-4	Ethylbenzene												
100-42-5	Styrene												
10061-01-5	cis-1,3-Dichloropropene												
10061-02-6	trans-1,3-Dichloropropene												
107-06-2	1,2-Dichloroethane												
108-05-4	Vinyl acetate												
108-10-1	4-Methyl-2-Pentanone (MIBK)												
108-88-3	Toluene	6.		6.				6.					
108-90-7	Chlorobenzene												
109-99-9	Tetrahydrofuran												
124-48-1	Dibromochloromethane												
127-18-4	Tetrachloroethene												
1330-20-7	Xylene (Total)												
540-59-0	1,2-Dichloroethene (total)												
56-23-5	Carbon tetrachloride												
591-78-6	2-Hexanone												
67-64-1	Acetone	82.		25.	J	44.		62.		120.		66.	
67-66-3	Chloroform												
71-43-2	Benzene												
71-55-6	1,1,1-Trichloroethane												
74-83-9	Bromomethane												
74-87-3	Chloromethane												
75-00-3	Chloroethane							18.					
75-01-4	Vinyl chloride												
75-09-2	Methylene chloride												
75-15-0	Carbon disulfide												
75-25-2	Bromoform												
75-27-4	Bromodichloromethane												
75-34-3	1,1-Dichloroethane			19.				74.					
75-35-4	1,1-Dichloroethene												
75-69-4	Trichlorofluoromethane												
78-87-5	1,2-Dichloropropane												
78-93-3	2-Butanone (MEK)	9.	J										
79-00-5	1,1,2-Trichloroethane												
79-01-6	Trichloroethene												
79-34-5	1,1,2,2-Tetrachloroethane												

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 667/SWMU 138 Soil Data

SW846-VOA			
	SAMPLE ID ------->	667-S-B004-01	667-S-B004-02
	ORIGINAL ID ----->	667SB00401	667SB00402
	LAB SAMPLE ID --->	41354-010	41354-011
	ID FROM REPORT -->	083017	083018
	SAMPLE DATE ----->	08/29/94	08/29/94
	DATE ANALYZED --->	09/06/94	09/09/94
	MATRIX ---------->	Soil	Soil
	UNITS ----------->	UG/KG	UG/KG

CAS #	Parameter	CHS08	VAL	CHS08	VAL
100-41-4	Ethylbenzene				
100-42-5	Styrene				
10061-01-5	cis-1,3-Dichloropropene				
10061-02-6	trans-1,3-Dichloropropene				
107-06-2	1,2-Dichloroethane				
108-05-4	Vinyl acetate				
108-10-1	4-Methyl-2-Pentanone (MIBK)				
108-88-3	Toluene				
108-90-7	Chlorobenzene				
109-99-9	Tetrahydrofuran				
124-48-1	Dibromochloromethane				
127-18-4	Tetrachloroethene				
1330-20-7	Xylene (Total)				
540-59-0	1,2-Dichloroethene (total)				
56-23-5	Carbon tetrachloride				
591-78-6	2-Hexanone				
67-64-1	Acetone	34.		780.	
67-66-3	Chloroform				
71-43-2	Benzene				
71-55-6	1,1,1-Trichloroethane				
74-83-9	Bromomethane				
74-87-3	Chloromethane				
75-00-3	Chloroethane				
75-01-4	Vinyl chloride				
75-09-2	Methylene chloride				
75-15-0	Carbon disulfide				
75-25-2	Bromoform				
75-27-4	Bromodichloromethane				
75-34-3	1,1-Dichloroethane	10.			
75-35-4	1,1-Dichloroethene				
75-69-4	Trichlorofluoromethane				
78-87-5	1,2-Dichloropropane				
78-93-3	2-Butanone (MEK)				
79-00-5	1,1,2-Trichloroethane				
79-01-6	Trichloroethene				
79-34-5	1,1,2,2-Tetrachloroethane				

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
Pre-1997 AOC 667/SWMU 138 Soil Data

TPH-IR							
	SAMPLE ID ------->	138-C-B002-01	667-C-B002-01				
	ORIGINAL ID ----->	138CB00201	667CB00201				
	LAB SAMPLE ID --->	41356-002	41356-001				
	ID FROM REPORT -->	083002	083001				
	SAMPLE DATE ----->	08/29/94	08/29/94				
	DATE EXTRACTED -->	09/06/94	09/06/94				
	DATE ANALYZED --->	09/07/94	09/07/94				
	MATRIX ---------->	Soil	Soil				
	UNITS ----------->	MG/KG	MG/KG				
CAS #	Parameter	APX02 VAL	APX02 VAL				
9999900-02-4	Petroleum Hydrocarbons, TPH	200.	1800.				

*** Validation Complete ***

CHARLESTON - ZONE H
CHARLESTON ZONE H QUARTLERY SAMPLING
Pre-1997 AOC 667/SWMU 138 Groundwater

APX9 VOA

SAMPLE ID ------->	667-H-W001-04
ORIGINAL ID ----->	667HW00104
LAB SAMPLE ID --->	25151.01
ID FROM REPORT -->	667HW00104
SAMPLE DATE ----->	04/03/96
DATE ANALYZED --->	04/10/96
MATRIX ---------->	Water
UNITS ---------->	UG/L

CAS #	Parameter	25150 VAL
74-87-3	Chloromethane	
74-83-9	Bromomethane	
75-01-4	Vinyl chloride	
75-00-3	Chloroethane	
75-09-2	Methylene chloride	
67-64-1	Acetone	
75-15-0	Carbon disulfide	
75-35-4	1,1-Dichloroethene	
75-34-3	1,1-Dichloroethane	
540-59-0	1,2-Dichloroethene (total)	
67-66-3	Chloroform	
107-06-2	1,2-Dichloroethane	
78-93-3	2-Butanone (MEK)	
71-55-6	1,1,1-Trichloroethane	
56-23-5	Carbon tetrachloride	
108-05-4	Vinyl acetate	
75-27-4	Bromodichloromethane	
78-87-5	1,2-Dichloropropane	
10061-01-5	cis-1,3-Dichloropropene	
79-01-6	Trichloroethene	
124-48-1	Dibromochloromethane	
79-00-5	1,1,2-Trichloroethane	
71-43-2	Benzene	
10061-02-6	trans-1,3-Dichloropropene	
75-25-2	Bromoform	
108-10-1	4-Methyl-2-Pentanone (MIBK)	
591-78-6	2-Hexanone	
127-18-4	Tetrachloroethene	
108-88-3	Toluene	
79-34-5	1,1,2,2-Tetrachloroethane	
108-90-7	Chlorobenzene	
100-41-4	Ethylbenzene	
100-42-5	Styrene	
1330-20-7	Xylene (Total)	
110-75-8	2-Chloroethyl vinyl ether	
107-02-8	Acrolein	
74-88-4	Methyl iodide	

*** Validation Complete ***

CHARLESTON - ZONE H
CHARLESTON ZONE H QUARTLERY SAMPLING
Pre-1997 AOC 667/SWMU 138 Groundwater

APX9 VOA							
	SAMPLE ID ------->	667-H-W001-04					
	ORIGINAL ID ----->	667HW00104					
	LAB SAMPLE ID --->	25151.01					
	ID FROM REPORT -->	667HW00104					
	SAMPLE DATE ----->	04/03/96					
	DATE ANALYZED --->	04/10/96					
	MATRIX ---------->	Water					
	UNITS ---------->	UG/L					
CAS #	Parameter	25150 VAL					
107-05-1	3-Chloropropene						
126-99-8	Chloroprene						
110-57-6	trans-1,4-Dichloro-2-butene						
76-01-7	Pentachloroethane						
75-05-8	Acetonitrile						
107-13-1	Acrylonitrile						
107-12-0	Propionitrile						
126-98-7	Methacrylonitrile						
78-83-1	Isobutyl alcohol						
123-91-1	1,4-Dioxane						
80-62-6	Methyl methacrylate						
97-63-2	Ethyl methacrylate						
106-93-4	1, 2-Dibromoethane						
630-20-6	1,1,1,2-Tetrachloroethane						
96-18-4	1,2,3-Trichloropropane						
75-71-8	Dichlorodifluoromethane						
75-69-4	Trichlorofluoromethane						
74-95-3	Methylene bromide						
96-12-8	1,2-Dibromo-3-Chloropropane						

*** Validation Complete ***

CHARLESTON - ZONE H
CHARLESTON ZONE H QUARTLERY SAMPLING
Pre-1997 AOC 667/SWMU 138 Groundwater

CYANIDE			
SAMPLE ID ------->	667-G-W001-01	667-G-W002-01	
ORIGINAL ID ----->	667GW00101	667GW00201	
LAB SAMPLE ID --->	41956-017	41956-016	
ID FROM REPORT -->	102609	102608	
SAMPLE DATE ----->	10/25/94	10/25/94	
DATE EXTRACTED -->	10/27/94	10/27/94	
DATE ANALYZED --->	10/28/94	10/28/94	
MATRIX ---------->	Water	Water	
UNITS ----------->	MG/L	MG/L	

CAS #	Parameter	CHS22	VAL	CHS22	VAL
57-12-5	Cyanide (CN)				
9999000-00-0	Cyanide, Total (9012)	NR		NR	

*** Validation Complete ***

CHARLESTON - ZONE H
CHARLESTON ZONE H QUARTLERY SAMPLING
Pre-1997 AOC 667/SWMU 138 Groundwater

MERCURY								
	SAMPLE ID ------>	667-G-W001-04		667-H-W001-04		667-G-W002-04			
	ORIGINAL ID ----->	667GW00104		667HW00104		667GW00204			
	LAB SAMPLE ID --->	25150.04		25151.01		25150.05			
	ID FROM REPORT -->	667GW00104		667HW00104		667GW00204			
	SAMPLE DATE ----->	04/03/96		04/03/96		04/03/96			
	DATE EXTRACTED -->	04/10/96		04/15/96		04/10/96			
	DATE ANALYZED --->	04/11/96		04/15/96		04/11/96			
	MATRIX ---------->	Water		Water		Water			
	UNITS ---------->	UG/L		UG/L		UG/L			
CAS #	Parameter	25150	VAL	25150	VAL	25150	VAL		
7439-97-6	Mercury (Hg)								

*** Validation Complete ***

CHARLESTON - ZONE H
CHARLESTON ZONE H QUARTLERY SAMPLING
Pre-1997 AOC 667/SWMU 138 Groundwater

SW846-META	SAMPLE ID ------->	667-G-W001-01	667-G-W001-02	667-H-W001-02	667-G-W001-03	667-H-W001-03	667-G-W001-04
	ORIGINAL ID ----->	667GW00101	667GW00102	667HW00102	667GW00103	667HW00103	667GW00104
	LAB SAMPLE ID --->	41956-012	43518-007	43519-009	45463-021	45534-002	25150.04
	ID FROM REPORT -->	102609	667GW00102	667HW00102	667GW00103	667HW00103	667GW00104
	SAMPLE DATE ----->	10/25/94	04/04/95	04/04/95	09/23/95	09/23/95	04/03/96
	DATE EXTRACTED -->	10/28/94	04/06/95	04/07/95	10/02/95	10/20/95	04/09/96
	DATE ANALYZED --->	11/01/94	04/06/95	04/10/95	10/03/95	10/24/95	04/10/96
	MATRIX ---------->	Water	Water	Water	Water	Water	Water
	UNITS ---------->	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L

CAS #	Parameter	CHS22	VAL	CHS41	VAL	CHS39	VAL	CHS51	VAL	CHS49	VAL	25150	VAL
7429-90-5	Aluminum (Al)												
7440-36-0	Antimony (Sb)												
7440-38-2	Arsenic (As)												
7440-39-3	Barium (Ba)	12.9	J	18.2	J								
7440-41-7	Beryllium (Be)												
7440-43-9	Cadmium (Cd)												
7440-70-2	Calcium (Ca)	113000.		81900.				82100.		88300.		81900.	J
7440-47-3	Chromium (Cr)												
7440-48-4	Cobalt (Co)												
7440-50-8	Copper (Cu)												
7439-89-6	Iron (Fe)	86.2		38.6						89.9	J	34.4	J
7439-92-1	Lead (Pb)												
7439-95-4	Magnesium (Mg)	90600.		121000.				49500.	J	51800.		90100.	
7439-96-5	Manganese (Mn)	36.7		60.9		76.9				17.4		42.3	
7439-97-6	Mercury (Hg)											NR	
7440-02-0	Nickel (Ni)												
7440-09-7	Potassium (K)	41600.		50600.		NR		24900.		26800.		45200.	J
7782-49-2	Selenium (Se)												
7440-22-4	Silver (Ag)												
7440-23-5	Sodium (Na)	584000.		1220000.				224000.		245000.		743000.	
7440-28-0	Thallium (Tl)												
7440-62-2	Vanadium (V)					3.4	J					2.4	J
7440-66-6	Zinc (Zn)												
7440-31-5	Tin (Sn)	NR		NR		NR		NR		NR			

*** Validation Complete ***

CHARLESTON - ZONE H
CHARLESTON ZONE H QUARTLERY SAMPLING
Pre-1997 AOC 667/SWMU 138 Groundwater

SW846-METAL	SAMPLE ID ------>	667-H-W001-04	667-G-W002-01	667-G-W002-02	667-G-W002-03	667-G-W002-04
	ORIGINAL ID ----->	667HW00104	667GW00201	667GW00202	667GW00203	667GW00204
	LAB SAMPLE ID --->	25151.01	41956-011	43518-008	45463-023	25150.05
	ID FROM REPORT -->	667HW00104	102608	667GW00202	667GW00203	667GW00204
	SAMPLE DATE ----->	04/03/96	10/25/94	04/04/95	09/23/95	04/03/96
	DATE EXTRACTED -->	04/09/96	10/28/94	04/06/95	10/02/95	04/09/96
	DATE ANALYZED --->	04/10/96	11/01/94	04/06/95	10/03/95	04/10/96
	MATRIX ---------->	Water	Water	Water	Water	Water
	UNITS ----------->	UG/L	UG/L	UG/L	UG/L	UG/L

CAS #	Parameter	25150	VAL	CHS22	VAL	CHS41	VAL	CHS51	VAL	25150	VAL
7429-90-5	Aluminum (Al)										
7440-36-0	Antimony (Sb)										
7440-38-2	Arsenic (As)										
7440-39-3	Barium (Ba)			61.4	J	47.9	J				
7440-41-7	Beryllium (Be)	0.35	J							0.38	J
7440-43-9	Cadmium (Cd)										
7440-70-2	Calcium (Ca)	83000.	J	154000.		114000.		130000.		127000.	J
7440-47-3	Chromium (Cr)										
7440-48-4	Cobalt (Co)										
7440-50-8	Copper (Cu)										
7439-89-6	Iron (Fe)			361.		853.		943.		177.	
7439-92-1	Lead (Pb)										
7439-95-4	Magnesium (Mg)	91200.		144000.		232000.		108000.	J	185000.	
7439-96-5	Manganese (Mn)	45.3		58.2		155.		73.4	J	69.6	
7439-97-6	Mercury (Hg)	NR								NR	
7440-02-0	Nickel (Ni)										
7440-09-7	Potassium (K)	41900.	J	66100.		91800.		56700.		99900.	J
7782-49-2	Selenium (Se)										
7440-22-4	Silver (Ag)										
7440-23-5	Sodium (Na)	751000.		1500000.		2580000.		1180000.		2150000.	
7440-28-0	Thallium (Tl)										
7440-62-2	Vanadium (V)	2.4	J			5.3	J			1.3	J
7440-66-6	Zinc (Zn)										
7440-31-5	Tin (Sn)			NR		NR		NR			

*** Validation Complete ***

CHARLESTON - ZONE H
CHARLESTON ZONE H QUARTLERY SAMPLING
Pre-1997 AOC 667/SWMU 138 Groundwater

SW846-PEST							
	SAMPLE ID ------->	667-G-W001-01	667-G-W002-01				
	ORIGINAL ID ----->	667GW00101	667GW00201				
	LAB SAMPLE ID --->	41956-007	41956-006				
	ID FROM REPORT -->	102609	102608				
	SAMPLE DATE ----->	10/25/94	10/25/94				
	DATE EXTRACTED -->	10/28/94	10/28/94				
	DATE ANALYZED --->	11/21/94	11/19/94				
	MATRIX ---------->	Water	Water				
	UNITS ---------->	UG/L	UG/L				

CAS #	Parameter	CHS22	VAL	CHS22	VAL				
309-00-2	Aldrin								
319-84-6	alpha-BHC								
319-85-7	beta-BHC								
58-89-9	gamma-BHC (Lindane)								
319-86-8	delta-BHC								
5103-71-9	alpha-Chlordane								
5103-74-2	gamma-Chlordane								
50-29-3	4,4'-DDT								
72-55-9	4,4'-DDE								
72-54-8	4,4'-DDD								
60-57-1	Dieldrin								
959-98-8	Endosulfan I								
33213-65-9	Endosulfan II								
1031-07-8	Endosulfan sulfate								
72-20-8	Endrin								
7421-93-4	Endrin aldehyde								
76-44-8	Heptachlor								
1024-57-3	Heptachlor epoxide								
8001-35-2	Toxaphene								
53494-70-5	Endrin ketone								
72-43-5	Methoxychlor								
53469-21-9	Aroclor-1242								
11097-69-1	Aroclor-1254								
11104-28-2	Aroclor-1221								
11141-16-5	Aroclor-1232								
12672-29-6	Aroclor-1248								
11096-82-5	Aroclor-1260								
12674-11-2	Aroclor-1016								
12789-03-6	Technical Chlordane	NR		NR					

*** Validation Complete ***

CHARLESTON - ZONE H
CHARLESTON ZONE H QUARTLERY SAMPLING
Pre-1997 AOC 667/SWMU 138 Groundwater

SW846-SVOA							
	SAMPLE ID ------>	667-G-W001-01	667-G-W002-01				
	ORIGINAL ID ----->	667GW00101	667GW00201				
	LAB SAMPLE ID --->	41956-007	41956-006				
	ID FROM REPORT -->	102609	102608				
	SAMPLE DATE ----->	10/25/94	10/25/94				
	DATE EXTRACTED -->	10/28/94	10/28/94				
	DATE ANALYZED --->	11/02/94	11/02/94				
	MATRIX ---------->	Water	Water				
	UNITS ---------->	UG/L	UG/L				
CAS #	Parameter	CHS22 VAL	CHS22 VAL				
62-75-9	N-Nitrosodimethylamine						
99-09-2	3-Nitroaniline						
108-95-2	Phenol						
83-32-9	Acenaphthene						
62-53-3	Aniline						
51-28-5	2,4-Dinitrophenol						
111-44-4	bis(2-Chloroethyl)ether						
100-02-7	4-Nitrophenol						
95-57-8	2-Chlorophenol						
132-64-9	Dibenzofuran						
541-73-1	1,3-Dichlorobenzene						
121-14-2	2,4-Dinitrotoluene						
106-46-7	1,4-Dichlorobenzene						
84-66-2	Diethylphthalate						
100-51-6	Benzyl alcohol						
7005-72-3	4-Chlorophenylphenylether						
95-50-1	1,2-Dichlorobenzene						
86-73-7	Fluorene						
95-48-7	2-Methylphenol (o-Cresol)						
100-01-6	4-Nitroaniline						
108-60-1	2,2'-oxybis(1-Chloropropane)						
534-52-1	2-Methyl-4,6-Dinitrophenol						
106-44-5	4-Methylphenol (p-Cresol)						
86-30-6	N-Nitrosodiphenylamine						
621-64-7	N-Nitroso-di-n-propylamine						
103-33-3	Azobenzene						
67-72-1	Hexachloroethane						
101-55-3	4-Bromophenyl-phenylether						
98-95-3	Nitrobenzene						
118-74-1	Hexachlorobenzene						
78-59-1	Isophorone						
87-86-5	Pentachlorophenol						
88-75-5	2-Nitrophenol						
85-01-8	Phenanthrene						
105-67-9	2,4-Dimethylphenol						
120-12-7	Anthracene						

*** Validation Complete ***

CHARLESTON - ZONE H
CHARLESTON ZONE H QUARTLERY SAMPLING
Pre-1997 AOC 667/SWMU 138 Groundwater

SW846-SVOA							
	SAMPLE ID ------->	667-G-W001-01	667-G-W002-01				
	ORIGINAL ID ----->	667GW00101	667GW00201				
	LAB SAMPLE ID --->	41956-007	41956-006				
	ID FROM REPORT -->	102609	102608				
	SAMPLE DATE ----->	10/25/94	10/25/94				
	DATE EXTRACTED -->	10/28/94	10/28/94				
	DATE ANALYZED --->	11/02/94	11/02/94				
	MATRIX ---------->	Water	Water				
	UNITS ----------->	UG/L	UG/L				

CAS #	Parameter	CHS22	VAL	CHS22	VAL				
65-85-0	Benzoic acid								
84-74-2	Di-n-butylphthalate								
111-91-1	bis(2-Chloroethoxy)methane								
206-44-0	Fluoranthene								
120-83-2	2,4-Dichlorophenol								
92-87-5	Benzidine								
120-82-1	1,2,4-Trichlorobenzene								
129-00-0	Pyrene								
91-20-3	Naphthalene								
85-68-7	Butylbenzylphthalate								
106-47-8	4-Chloroaniline								
91-94-1	3,3'-Dichlorobenzidine								
87-68-3	Hexachlorobutadiene								
56-55-3	Benzo(a)anthracene								
59-50-7	4-Chloro-3-methylphenol								
218-01-9	Chrysene								
91-57-6	2-Methylnaphthalene								
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)								
77-47-4	Hexachlorocyclopentadiene								
117-84-0	Di-n-octyl phthalate								
88-06-2	2,4,6-Trichlorophenol								
205-99-2	Benzo(b)fluoranthene								
95-95-4	2,4,5-Trichlorophenol								
207-08-9	Benzo(k)fluoranthene								
91-58-7	2-Chloronaphthalene								
50-32-8	Benzo(a)pyrene								
88-74-4	2-Nitroaniline								
193-39-5	Indeno(1,2,3-cd)pyrene								
131-11-3	Dimethyl phthalate								
53-70-3	Dibenz(a,h)anthracene								
208-96-8	Acenaphthylene								
191-24-2	Benzo(g,h,i)perylene								
606-20-2	2,6-Dinitrotoluene								

*** Validation Complete ***

CHARLESTON - ZONE H
CHARLESTON ZONE H QUARTLERY SAMPLING
Pre-1997 AOC 667/SWMU 138 Groundwater

SW846-VOA	SAMPLE ID ------->	667-G-W001-01	667-G-W001-02	667-H-W001-02	667-G-W001-03	667-H-W001-03	667-G-W001-04
	ORIGINAL ID ----->	667GW00101	667GW00102	667HW00102	667GW00103	667HW00103	667GW00104
	LAB SAMPLE ID --->	41956-005	43518-012	43519-011	45463-003	45534-001	25150.04
	ID FROM REPORT -->	102609	667GW00102	667HW00102	667GW00103	667HW00103	667GW00104
	SAMPLE DATE ----->	10/25/94	04/04/95	04/04/95	09/23/95	09/23/95	04/03/96
	DATE ANALYZED --->	11/08/94	04/18/95	04/18/95	10/05/95	10/05/95	04/08/96
	MATRIX ---------->	Water	Water	Water	Water	Water	Water
	UNITS ---------->	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L

CAS #	Parameter	CHS22	VAL	CHS41	VAL	CHS39	VAL	CHS51	VAL	CHS49	VAL	25150	VAL
74-87-3	Chloromethane												
74-83-9	Bromomethane												
75-01-4	Vinyl chloride												
75-00-3	Chloroethane												
75-09-2	Methylene chloride												
67-64-1	Acetone												
75-15-0	Carbon disulfide									79.			
109-99-9	Tetrahydrofuran												
75-69-4	Trichlorofluoromethane												
75-35-4	1,1-Dichloroethene												
75-34-3	1,1-Dichloroethane	3.4	J							3.	J		
540-59-0	1,2-Dichloroethene (total)											5.	
67-66-3	Chloroform												
107-06-2	1,2-Dichloroethane												
78-93-3	2-Butanone (MEK)												
71-55-6	1,1,1-Trichloroethane												
56-23-5	Carbon tetrachloride												
108-05-4	Vinyl acetate												
75-27-4	Bromodichloromethane												
78-87-5	1,2-Dichloropropane												
10061-01-5	cis-1,3-Dichloropropene												
10061-02-6	trans-1,3-Dichloropropene												
79-01-6	Trichloroethene												
124-48-1	Dibromochloromethane												
79-00-5	1,1,2-Trichloroethane												
71-43-2	Benzene												
75-25-2	Bromoform												
108-10-1	4-Methyl-2-Pentanone (MIBK)												
591-78-6	2-Hexanone												
127-18-4	Tetrachloroethene												
79-34-5	1,1,2,2-Tetrachloroethane												
108-88-3	Toluene												
108-90-7	Chlorobenzene												
100-41-4	Ethylbenzene												
100-42-5	Styrene												
1330-20-7	Xylene (Total)												
110-75-8	2-Chloroethyl vinyl ether												

*** Validation Complete ***

CHARLESTON - ZONE H
CHARLESTON ZONE H QUARTLERY SAMPLING
Pre-1997 AOC 667/SWMU 138 Groundwater

SW846-VOA									
	SAMPLE ID ------->	667-G-W002-01		667-G-W002-02		667-G-W002-03		667-G-W002-04			
	ORIGINAL ID ----->	667GW00201		667GW00202		667GW00203		667GW00204			
	LAB SAMPLE ID --->	41956-004		43518-013		45463-005		25150.05			
	ID FROM REPORT -->	102608		667GW00202		667GW00203		667GW00204			
	SAMPLE DATE ----->	10/25/94		04/04/95		09/23/95		04/03/96			
	DATE ANALYZED --->	11/08/94		04/18/95		10/06/95		04/10/96			
	MATRIX ---------->	Water		Water		Water		Water			
	UNITS ----------->	UG/L		UG/L		UG/L		UG/L			
CAS #	Parameter	CHS22	VAL	CHS41	VAL	CHS51	VAL	25150	VAL		
74-87-3	Chloromethane										
74-83-9	Bromomethane										
75-01-4	Vinyl chloride										
75-00-3	Chloroethane	150.		74.		650.		260.	J		
75-09-2	Methylene chloride										
67-64-1	Acetone										
75-15-0	Carbon disulfide										
109-99-9	Tetrahydrofuran										
75-69-4	Trichlorofluoromethane										
75-35-4	1,1-Dichloroethene										
75-34-3	1,1-Dichloroethane	17.		9.		18.	J	8.	J		
540-59-0	1,2-Dichloroethene (total)										
67-66-3	Chloroform										
107-06-2	1,2-Dichloroethane										
78-93-3	2-Butanone (MEK)										
71-55-6	1,1,1-Trichloroethane										
56-23-5	Carbon tetrachloride										
108-05-4	Vinyl acetate										
75-27-4	Bromodichloromethane										
78-87-5	1,2-Dichloropropane										
10061-01-5	cis-1,3-Dichloropropene										
10061-02-6	trans-1,3-Dichloropropene										
79-01-6	Trichloroethene										
124-48-1	Dibromochloromethane										
79-00-5	1,1,2-Trichloroethane										
71-43-2	Benzene										
75-25-2	Bromoform										
108-10-1	4-Methyl-2-Pentanone (MIBK)										
591-78-6	2-Hexanone										
127-18-4	Tetrachloroethene										
79-34-5	1,1,2,2-Tetrachloroethane										
108-88-3	Toluene										
108-90-7	Chlorobenzene										
100-41-4	Ethylbenzene										
100-42-5	Styrene										
1330-20-7	Xylene (Total)										
110-75-8	2-Chloroethyl vinyl ether										

*** Validation Complete ***

CHARLESTON - ZONE H
CHARLESTON ZONE H QUARTLERY SAMPLING
Pre-1997 AOC 667/SWMU 138 Groundwater

TPH							
	SAMPLE ID ------->	667-G-W001-01	667-G-W002-01				
	ORIGINAL ID ----->	667GW00101	667GW00201				
	LAB SAMPLE ID --->	41956-022	41956-021				
	ID FROM REPORT -->	102609	102608				
	SAMPLE DATE ----->	10/25/94	10/25/94				
	DATE EXTRACTED -->	10/27/94	10/27/94				
	DATE ANALYZED --->	10/28/94	10/28/94				
	MATRIX ---------->	Water	Water				
	UNITS ---------->	MG/L	MG/L				

CAS #	Parameter	CHS22 VAL	CHS22 VAL				
9999900-02-4	Petroleum Hydrocarbons, TPH						

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
AOC 667/SWMU 138 Groundwater Screening

SW-VOA													
	SAMPLE ID ------->	667-G-P001-15		667-G-P002-15		667-G-P003-15		667-G-P004-15		667-G-P005-19		667-G-P006-15	
	ORIGINAL ID ----->	667GP00115		667GP00215		667GP00315		667GP00415		667GP00519		667GP00615	
	LAB SAMPLE ID --->	7834-08		7834-07		7834-01		7834-02		7834-03		7834-06	
	ID FROM REPORT -->	667GP00115		667GP00215		667GP00315		667GP00415		667GP00519		667GP00615	
	SAMPLE DATE ----->	06/25/97		06/25/97		06/25/97		06/25/97		06/25/97		06/25/97	
	DATE ANALYZED --->	06/26/97		06/26/97		06/26/97		06/26/97		06/27/97		06/26/97	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	7834	VAL	7834	VAL	7834	VAL	7834	VAL	7834	VAL	7834	VAL
74-87-3	Chloromethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
74-83-9	Bromomethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-01-4	Vinyl chloride	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-00-3	Chloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-09-2	Methylene chloride	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
67-64-1	Acetone	10.	U	10.	U	10.	U	10.	U	12.	U	10.	U
75-15-0	Carbon disulfide	5.	U	5.	U	2.	J	3.	J	5.	U	5.	U
75-35-4	1,1-Dichloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-34-3	1,1-Dichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-05-4	Vinyl acetate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
156-60-5	trans-1,2-Dichloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
67-66-3	Chloroform	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
107-06-2	1,2-Dichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
71-55-6	1,1,1-Trichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
78-93-3	2-Butanone (MEK)	10.	U	10.	U	10.	U	10.	U	2.	J	10.	U
56-23-5	Carbon tetrachloride	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-27-4	Bromodichloromethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
78-87-5	1,2-Dichloropropane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-01-6	Trichloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
124-48-1	Dibromochloromethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
71-43-2	Benzene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-25-2	Bromoform	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
127-18-4	Tetrachloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-88-3	Toluene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
591-78-6	2-Hexanone	10.	UJ	10.	UJ	10.	UJ	10.	UJ	10.	UJ	10.	UJ
108-90-7	Chlorobenzene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
100-41-4	Ethylbenzene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
100-42-5	Styrene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
110-75-8	2-Chloroethyl vinyl ether	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
9999900-02-9	Xylenes (Total)	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U

*** Validation Complete ***

CHARLESTON - ZONE H
NAVAL BASE CHARLESTON ZONE H (NBCH)
AOC 667/SWMU 138 Groundwater Screening

SW-VOA								
	SAMPLE ID ------->	667-G-P007-15		667-G-P008-15				
	ORIGINAL ID ----->	667GP00715		667GP00815				
	LAB SAMPLE ID --->	7834-05		7834-04				
	ID FROM REPORT -->	667GP00715		667GP00815				
	SAMPLE DATE ----->	06/25/97		06/25/97				
	DATE ANALYZED --->	06/26/97		06/26/97				
	MATRIX ---------->	Water		Water				
	UNITS ----------->	UG/L		UG/L				
CAS #	Parameter	7834	VAL	7834	VAL			
74-87-3	Chloromethane	5.	U	5.	U			
74-83-9	Bromomethane	5.	U	5.	U			
75-01-4	Vinyl chloride	5.	U	5.	U			
75-00-3	Chloroethane	5.	U	5.	U			
75-09-2	Methylene chloride	5.	U	5.	U			
67-64-1	Acetone	10.	U	10.	U			
75-15-0	Carbon disulfide	2.	J	3.	J			
75-35-4	1,1-Dichloroethene	5.	U	5.	U			
75-34-3	1,1-Dichloroethane	5.	U	5.	U			
108-05-4	Vinyl acetate	10.	U	10.	U			
156-60-5	trans-1,2-Dichloroethene	5.	U	5.	U			
67-66-3	Chloroform	5.	U	5.	U			
107-06-2	1,2-Dichloroethane	5.	U	5.	U			
71-55-6	1,1,1-Trichloroethane	5.	U	5.	U			
78-93-3	2-Butanone (MEK)	10.	U	10.	U			
56-23-5	Carbon tetrachloride	5.	U	5.	U			
75-27-4	Bromodichloromethane	5.	U	5.	U			
78-87-5	1,2-Dichloropropane	5.	U	5.	U			
10061-01-5	cis-1,3-Dichloropropene	5.	U	5.	U			
79-01-6	Trichloroethene	5.	U	5.	U			
124-48-1	Dibromochloromethane	5.	U	5.	U			
79-00-5	1,1,2-Trichloroethane	5.	U	5.	U			
71-43-2	Benzene	5.	U	5.	U			
10061-02-6	trans-1,3-Dichloropropene	5.	U	5.	U			
75-25-2	Bromoform	5.	U	5.	U			
127-18-4	Tetrachloroethene	5.	U	5.	U			
79-34-5	1,1,2,2-Tetrachloroethane	5.	U	5.	U			
108-10-1	4-Methyl-2-Pentanone (MIBK)	10.	U	10.	U			
108-88-3	Toluene	5.	U	5.	U			
591-78-6	2-Hexanone	10.	UJ	10.	UJ			
108-90-7	Chlorobenzene	5.	U	5.	U			
100-41-4	Ethylbenzene	5.	U	5.	U			
100-42-5	Styrene	5.	U	5.	U			
110-75-8	2-Chloroethyl vinyl ether	5.	U	5.	U			
9999900-02-9	Xylenes (Total)	5.	U	5.	U			

*** Validation Complete ***

NAVY CLEAN
ENSAFE/ALLEN&HOSHALL
(901) 383-9115

CHAIN OF CUSTODY RECORD

CTO-TASK: 2908-08420
COC #:
BPA/SO: PO3 REL 18 CEMIC

CLIENT Naval Base Charleston
ADDRESS Zone H
PROJECT NAME/NUMBER 2908-08420
SAMPLERS: (SIGNATURE) C Davis

PROJECT MANAGER Charlie Vernon
TELEPHONE NO. (803) 884-0029
FAX. NO. (803) 856-0107

FIELD SAMPLE NUMBER	DATE	TIME	SAMPLE TYPE	TYPE/SIZE OF CONTAINER	PRESERVATION TEMP.	PRESERVATION CHEMICAL	NO. OF CONTAINERS	VOA	ANALYSIS REQUIRED	REMARKS
NBCH667GP003-15	6/26/97	0850	Water	40 mL	4c	HCL	2	X		*
NBCH667GP004-15	"	0910	"	"	"	"	2	X		*
NBCH667GP005-15	"	0925	"	"	"	"	2	X		*
NBCH667GP008-15	"	0945	"	"	"	"	2	X		*
NBCH667GP007-15	"	1000	"	"	"	"	2	X		*
NBCH667GP006-15	"	1010	"	"	"	"	2	X		*
NBCH667GP002-15	"	1100	"	"	"	"	2	X		*
NBCH667GP001-15	"	1115	"	"	"	"	2	X		*
NBCH659GP002-15	"	1325	"	"	"	"	2	X		*
NBCH659GP001-15	"	1330	"	"	"	"	2	X		*

DQO Level II

RELINQUISHED BY:	DATE	RECEIVED BY:	DATE	RELINQUISHED BY:	DATE	RECEIVED BY:	DATE
SIGNATURE C Davis	6/25/97	SIGNATURE		SIGNATURE		SIGNATURE	
PRINTED C Davis	TIME	PRINTED	TIME	PRINTED	TIME	PRINTED	TIME
COMPANY EnSafe	1700	COMPANY		COMPANY		COMPANY	
REASON Lab		REASON		REASON		REASON	

METHOD OF SHIPMENT: FedEx
SHIPMENT NO. 566364527 1
SPECIAL INSTRUCTION:

COMMENTS: *If Preservative in Samples All Samples DQO Lvl 2

AFTER ANALYSIS, SAMPLES ARE TO BE:
- [X] DISPOSED OF
- [ ] STORED (90 DAYS MAX)
- [ ] STORED OVER 90 DAYS
- [ ] RETURNED TO CUSTOMER

ANALYTICAL DATA RECEIVED BY (INITIALS/DATE)

CLNCOCRI

001 ENSAFE ALLEN HOS →→→ CHARSAFE
06/25/97 16:44 TEL 7477306

PAGE 2 OF 3

NAVY CLEAN
ENSAFE/ALLEN&HOSHALL
(901) 383-9115

CHAIN OF CUSTODY RECORD

CTO-TASK: 2908-08420
COC #:
BPA/SO: PO 9 REL 15 CEMIC

CLIENT Naval Base Charleston
ADDRESS Zone H
PROJECT NAME/NUMBER 2908-08420
SAMPLERS: (SIGNATURE)

PROJECT MANAGER Charlie Vernoy
TELEPHONE NO. (803)884-0029
FAX. NO. (803) 856-0107

FIELD SAMPLE NUMBER	DATE	TIME	SAMPLE TYPE	TYPE/SIZE OF CONTAINER	PRESERVATION TEMP.	PRESERVATION CHEMICAL	NO. OF CONTAINERS	VOA	ANALYSIS REQUIRED	REMARKS
NBCHA059TP001-01	6-25-97	1330	Water	40mL	4°C	HCl	1	X		DQO Level II

6-25-97

RELINQUISHED BY:	DATE	RECEIVED BY:	DATE	RELINQUISHED BY:	DATE	RECEIVED BY:	DATE
SIGNATURE	6/25/97	SIGNATURE		SIGNATURE		SIGNATURE	
PRINTED C. Davis	TIME	PRINTED	TIME	PRINTED	TIME	PRINTED	TIME
COMPANY EnSafe	1700	COMPANY		COMPANY		COMPANY	
REASON Lab		REASON		REASON		REASON	

METHOD OF SHIPMENT: FedEX
SHIPMENT NO. 566836645271
SPECIAL INSTRUCTION:

COMMENTS:

AFTER ANALYSIS, SAMPLES ARE TO BE:
- [x] DISPOSED OF
- [ ] STORED (90 DAYS MAX)
- [ ] STORED OVER 90 DAYS
- [ ] RETURNED TO CUSTOMER

ANALYTICAL DATA RECEIVED BY (INITIALS/DATE)

CLNCOCR1

APPENDIX E
CHEMICAL DETECTED IN ZONE H
MONITORING WELLS

Chemicals Detected In Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
SWMU 9

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCH009MW4							
Inorganic Chemicals (mg/L)							
Barium (Ba)	ND	312	319	346	260	323	2,000
Cadmium (Cd)	ND	ND	ND	1	2	2	5
Calcium (Ca)	129,000	144,000	115,000	145,000	NA	NA	NL
Copper (Cu)	190	ND	ND	2	150	140	1,300
Iron (Fe)	45,800	61,500	49,100	72,100	1,100	NA	NL
Magnesium (Mg)	18,100	28,400	14,000	26,000	NA	NA	NL
Manganese (Mn)	272	380	263	382	84	3,391	NL
Potassium (K)	12,000	15,200	11,200	16,500	NA	NA	NL
Sodium (Na)	136,000	203,000	106,000	155,000	NA	NA	NL
Thallium (Tl)	5	ND	ND	6	0	8	2
Vanadium (V)	7	ND	5	ND	26	NA	NL
Zinc (Zn)	ND	ND	84	24	1,100	NA	NL
Semi-volatile Organic Compounds (µg/L)							
Benzidine	54	ND	ND	NS	0	NA	NL
4-Chloro-3-methylphenol	3	ND	ND	ND	NA	NA	NL
1,4-Dichlorobenzene	3	ND	3	1	0	NA	75
Volatile Organic Compounds (µg/L)							
Benzene	5	4	4	ND	0	NA	5
Chlorobenzene	20	9	14	19	4	NA	NL
Water Quality Related Compounds							
Bicarbonate (as CaCO3) (mg Ca)	NS	420	NS	NS	NA	NA	NL
Chloride (mg./L)	NS	350	170	277	NA	NA	NL
Total phosphorus (mg/L)	NS	0	NS	NS	NA	NA	NL

Note:
NA = Not applicable
ND = Not detected at or above the method detection limit
NL = Not listed
NS = Not sampled

Chemicals Detected In Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
SWMU 9

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCH009001							
Inorganic Chemicals (mg/L)							
Arsenic (As)	2	ND	ND	ND	0	28	50
Barium (Ba)	206	179	191	ND	260	323	2,000
Calcium (Ca)	17,900	15,500	16,000	ND	NA	NA	NL
Copper (Cu)	ND	7	ND	7	150	140	1,300
Iron (Fe)	ND	172	ND	172	1,100	NA	NL
Lead (Pb)	17	5	4	ND	15	5	15
Magnesium (Mg)	8,170	7,830	7,700	9,130	NA	NA	NL
Manganese (Mn)	15	13	ND	21	84	3,391	NL
Mercury (Hg)	ND	ND	ND	0	1	NA	2
Potassium (K)	62,600	54,100	55,100	54,500	NA	NA	NL
Sodium (Na)	528,000	657,500	550,000	513,000	NA	NA	NL
Semi-volatile Organic Compounds (µg/L)							
Di-n-butylphthalate	3	ND	ND	ND	370	NA	NL
2,4-Dimethylphenol	56	52	36	38	73	NA	NL
2-Methylphenol (o-Cresol)	4	3	3	2	180	NA	NL
4-Methylphenol (p-Cresol)	2	ND	3	1	18	NA	NL
Naphthalene	6	4	5	ND	150	NA	NL
Volatile Organic Compounds (µg/L)							
Benzene	2	ND	ND	2	0	NA	5
Ethylbenzene	150	71	130	75	130	NA	700
Toluene	13	7	10	7	75	NA	1,000
Xylene (Total)	450	145	320	220	1,200	NA	10,000
Water Quality Related Compounds							
Bicarbonate (as CaCO3) (mg Ca)	NS	150	NS	NS	NA	NA	NL
Carbonate (as CaCO3) (mg Ca)	NS	71	NS	NS	NA	NA	NL
Chloride (mg/L)	NS	830	1,000	844	NA	NA	NL
Total phosphorus (mg/L)	NS	0	NS	NS	NA	NA	NL

Note:
NA = Not applicable
ND = Not detected at or above the method detection limit
NL = Not listed
NS = Not sampled

Chemicals Detected In Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
SWMU 9

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCH009002							
Dioxins (pg/L)							
Dioxin Equiv.	3	NS	0	ND	0	NA	NL
Inorganic Chemicals (mg/L)							
Arsenic (As)	1	ND	ND	ND	0	28	50
Barium (Ba)	ND	ND	46	ND	260	323	2,000
Calcium (Ca)	248,000	317,000	287,000	273,000	NA	NA	NL
Iron (Fe)	11,500	18,000	19,100	24,700	1,100	NA	NL
Magnesium (Mg)	99,100	134,000	138,000	81,200	NA	NA	NL
Manganese (Mn)	1,220	1,990	1,500	1,680	84	3,391	NL
Potassium (K)	42,700	45,600	58,700	33,900	NA	NA	NL
Sodium (Na)	559,000	732,000	828,000	358,000	NA	NA	NL
Thallium (Tl)	ND	ND	ND	7	0	8	2
Water Quality Related Compounds							
Bicarbonate (as CaCO3) (mg Ca)	NS	720	NS	NS	NA	NA	NL
Chloride (mg Ca)	NS	640	1,200	413	NA	NA	NL
Sulfate (mg/L)	NS	610	NS	NS	NA	NA	NL
Total phosphorus (mg/L)	NS	2	NS	NS	NA	NA	NL

Note:
NA = Not applicable
ND = Not detected at or above the method detection limit
NL = Not listed
NS = Not sampled

Chemicals Detected In Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
SWMU 9

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCH009003							
Inorganic Chemicals (mg/L)							
Arsenic (As)	11	8	10	ND	0	28	50
Barium (Ba)	884	1,410	1,200	841	260	323	2,000
Calcium (Ca)	54,200	43,300	42,800	23,100	NA	NA	NL
Chromium (Cr)	5	ND	ND	ND	18	18	100
Cobalt (Co)	3	ND	ND	ND	220	NA	NL
Copper (Cu)	ND	ND	ND	2	150	140	1,300
Iron (Fe)	821	560	442	398	1,100	NA	NL
Lead (Pb)	14	ND	ND	ND	15	5	15
Magnesium (Mg)	59,300	60,000	51,300	40,900	NA	NA	NL
Manganese (Mn)	35	ND	ND	30	84	3,391	NL
Mercury (Hg)	1	0	ND	0	1	NA	2
Nickel (Ni)	ND	ND	ND	4	73	NA	100
Potassium (K)	72,100	70,400	63,200	60,900	NA	NA	NL
Selenium (Se)	ND	3	ND	ND	18	3	50
Sodium (Na)	1,110,000	803,000	772,000	526,000	NA	NA	NL
Thallium (Tl)	1	ND	ND	ND	0	8	2
Vanadium (V)	9	ND	ND	1	26	NA	NL
Semi-volatile Organic Compounds (µg/L)							
Benzoic acid	ND	ND	ND	3	15,000	NA	NL
Di-n-butylphthalate	3	ND	ND	1	370	NA	NL
2,4-Dimethylphenol	18	16	14	2	73	NA	NL
2-Methylnaphthalene	8	5	5	2	150	NA	NL
2-Methylphenol (o-Cresol)	5	4	4	ND	180	NA	NL
Naphthalene	8	6	8	3	150	NA	NL
Phenol	7	5	11	ND	2,200	NA	NL
Volatile Organic Compounds (µg/L)							
Benzene	2	ND	ND	1	0	NA	5
Ethylbenzene	3	ND	ND	ND	130	NA	700
Xylene (Total)	15	8	11	2	1,200	NA	10,000

Note:
NA = Not applicable
ND = Not detected at or above the method detection limit
NL = Not listed
NS = Not sampled

Chemicals Detected In Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
SWMU 9

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Water Quality Related Compounds							
Bicarbonate (as CaCO3) (mg Ca)	NS	380	NS	NS	NA	NA	NL
Chloride (mg/L)	NS	1,100	1,500	701	NA	NA	NL
Total phosphorus (mg/L)	NS	0	NS	NS	NA	NA	NL

Note:
NA = Not applicable
ND = Not detected at or above the method detection limit
NL = Not listed
NS = Not sampled

Chemicals Detected In Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
SWMU 9

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCH009004							
Inorganic Chemicals (mg/L)							
Arsenic (As)	2	ND	ND	ND	0	28	50
Barium (Ba)	107	ND	156	ND	260	323	2,000
Beryllium (Be)	ND	ND	ND	1	0	0	4
Cadmium (Cd)	ND	ND	2	ND	2	2	5
Calcium (Ca)	263,000	318,000	268,500	257,500	NA	NA	NL
Iron (Fe)	ND	369	2,144	183	1,100	NA	NL
Lead (Pb)	9	ND	ND	ND	15	5	15
Magnesium (Mg)	387,000	455,000	416,000	410,000	NA	NA	NL
Manganese (Mn)	184	328	408	205	84	3,391	NL
Potassium (K)	129,000	146,000	152,000	134,500	NA	NA	NL
Selenium (Se)	2	ND	ND	ND	18	3	50
Sodium (Na)	4,000,000	4,130,000	3,955,000	5,460,000	NA	NA	NL
Tin (Sn)	ND	NS	NS	3	2,200	NA	NL
Vanadium (V)	ND	ND	4	1	26	NA	NL
Volatile Organic Compounds (µg/L)							
Acetone	ND	ND	ND	8	370	NA	NL
Carbon disulfide	81	ND	66	ND	100	NA	NL
Water Quality Related Compounds							
Bicarbonate (as CaCO3) (mg Ca)	NS	380	NS	NS	NA	NA	NL
Chloride (mg/L)	NS	9,000	8,250	6,900	NA	NA	NL
Sulfate (mg/L)	NS	1,100	NS	NS	NA	NA	NL
Sulfide (mg/L)	NS	5	NS	NS	NA	NA	NL
Sulfite (mg/L)	NS	4	NS	NS	NA	NA	NL
Total phosphorus (mg/L)	NS	0	NS	NS	NA	NA	NL

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Chemicals Detected In Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
SWMU 9

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCH009005							
Dioxins (pg/L)							
Dioxin Equiv.	2	NS	NS	0	0	NA	NL
Inorganic Chemicals (mg/L)							
Arsenic (As)	5	4	ND	ND	0	28	50
Barium (Ba)	44	ND	ND	ND	260	323	2,000
Cadmium (Cd)	ND	ND	2	ND	2	2	5
Calcium (Ca)	101,000	128,000	94,600	138,000	NA	NA	NL
Iron (Fe)	11,100	17,000	12,600	18,200	1,100	NA	NL
Magnesium (Mg)	104,000	155,000	99,500	237,000	NA	NA	NL
Manganese (Mn)	104	130	95	127	84	3,391	NL
Potassium (K)	41,200	50,300	42,200	83,100	NA	NA	NL
Selenium (Se)	1	ND	ND	ND	18	3	50
Sodium (Na)	1,100,000	1,520,000	1,100,000	2,100,000	NA	NA	NL
Thallium (Tl)	ND	ND	ND	4	0	8	2
Zinc (Zn)	20	ND	ND	ND	1,100	NA	NL
Volatile Organic Compounds (µg/L)							
Acetone	12	ND	19	ND	370	NA	NL
Carbon disulfide	21	ND	4	ND	100	NA	NL
4-Methyl-2-Pentanone (MIBK)	ND	10	ND	ND	290	NA	NL
Water Quality Related Compounds							
Bicarbonate (as CaCO3) (mg Ca)	NS	460	NS	NS	NA	NA	NL
Chloride (mg/L)	NS	2,400	2,700	4,080	NA	NA	NL
Total phosphorus (mg/L)	NS	1	NS	NS	NA	NA	NL

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NS = Not sampled

Chemicals Detected In Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
SWMU 9

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCH009006							
Inorganic Chemicals (mg/L)							
Arsenic (As)	ND	4	ND	ND	0	28	50
Barium (Ba)	61	ND	86	ND	260	323	2,000
Calcium (Ca)	100,000	105,000	84,300	99,100	NA	NA	NL
Chromium (Cr)	ND	ND	12	4	18	18	100
Copper (Cu)	ND	154	474	337	150	140	1,300
Iron (Fe)	1,310	9,820	7,180	11,500	1,100	NA	NL
Magnesium (Mg)	3,910	5,280	2,790	10,000	NA	NA	NL
Manganese (Mn)	57	178	ND	122	84	3,391	NL
Mercury (Hg)	ND	ND	ND	0	1	NA	2
Potassium (K)	3,400	ND	3,430	ND	NA	NA	NL
Sodium (Na)	5,740	24,400	ND	ND	NA	NA	NL
Vanadium (V)	101	68	354	126	26	NA	NL
Zinc (Zn)	ND	ND	243	126	1,100	NA	NL
Petroleum Hydrocarbons (µg/L)							
Indeterminate Lubricating Oil	NS	NS	1,600	NS	NA	NA	NL
Semi-volatile Organic Compounds (µg/L)							
1,2-Dichlorobenzene	ND	ND	ND	2	27	NA	600
Hexachlorobenzene	ND	74	ND	ND	0	NA	1
Hexachlorobutadiene	ND	3	ND	ND	0	NA	NL
Hexachloroethane	ND	3	ND	ND	1	NA	NL
Volatile Organic Compounds (µg/L)							
Chlorobenzene	ND	2	ND	ND	4	NA	Nl
Water Quality Related Compounds							
Bicarbonate (as CaCO3) (mg Ca)	NS	240	NS	NS	NA	NA	NL
Chloride (mg/L)	NS	43	4	98	NA	NA	NL
Total phosphorus (mg/L)	NS	1	NS	NS	NA	NA	NL

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Chemicals Detected In Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
SWMU 9

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCH009007							
Dioxins (pg/L)							
Dioxin Equiv.	NS	NS	1	0	0	NA	NL
Inorganic Chemicals (mg/L)							
Arsenic (As)	2	ND	2	ND	0	28	50
Barium (Ba)	419	407	424	384	260	323	2,000
Beryllium (Be)	ND	1	ND	ND	0	0	4
Calcium (Ca)	279,000	277,500	236,000	220,500	NA	NA	NL
Chromium (Cr)	ND	ND	7	6	18	18	100
Cobalt (Co)	ND	ND	ND	2	220	NA	NL
Iron (Fe)	43,100	56,600	36,300	45,700	1,100	NA	NL
Lead (Pb)	2	ND	ND	ND	15	5	15
Magnesium (Mg)	345,000	389,500	304,000	295,000	NA	NA	NL
Manganese (Mn)	413	450	293	328	84	3,391	NL
Mercury (Hg)	ND	ND	0	ND	1	NA	2
Nickel (Ni)	ND	ND	ND	5	73	NA	100
Potassium (K)	123,000	139,500	133,500	107,500	NA	NA	NL
Selenium (Se)	1	ND	ND	ND	18	3	50
Sodium (Na)	3,050,000	3,555,000	2,950,000	3,040,000	NA	NA	NL
Thallium (Tl)	ND	ND	17	3	0	8	2
Vanadium (V)	7	ND	6	ND	26	NA	NL
Pesticide/PCB Compounds (µg/L)							
Endosulfan sulfate	ND	ND	ND	0	22	NA	NL
Semi-volatile Organic Compounds (µg/L)							
bis(2-Chloroethyl)ether	140	50	100	62	0	NA	NL
1,4-Dichlorobenzene	ND	ND	ND	9	0	NA	75
1,2-Dichlorobenzene	ND	ND	ND	19	27	NA	600
2,4-Dimethylphenol	1,700	405	1,350	760	73	NA	NL
bis(2-Ethylhexyl)phthalate (BEHP)	ND	ND	ND	2	5	NA	NL
2-Methylnaphthalene	ND	ND	ND	9	150	NA	NL
2-Methylphenol (o-Cresol)	270	42	435	110	180	NA	NL
4-Methylphenol (p-Cresol)	4,400	820	3,100	1,700	18	NA	NL
Naphthalene	ND	ND	ND	5	150	NA	NL
Phenol	ND	ND	145	153	2,200	NA	NL

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Chemicals Detected In Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
SWMU 9

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Volatile Organic Compounds (μg/L)							
Benzene	11	11	12	13	0	NA	5
Chlorobenzene	63	39	39	41	4	NA	NL
1,2-Dichloroethane	59	58	36	51	0	NA	5
1,1-Dichloroethane	ND	ND	ND	2	81	NA	NL
1,2-Dichloroethene (total)	86	160	101	395	6	NA	70
1,1-Dichloroethene	ND	ND	ND	3	0	NA	7
Ethylbenzene	99	78	31	99	130	NA	700
Methylene chloride	ND	120	68	305	4	NA	5
Tetrachloroethene	ND	ND	ND	1	1	NA	5
Toluene	37	27	ND	31	75	NA	1,000
1,1,1-Trichloroethane	ND	ND	ND	1	79	NA	200
Trichloroethene	ND	9	12	58	2	NA	5
Trichlorofluoromethane	ND	52	27	1,100	130	NA	NL
Vinyl chloride	720	415	420	ND	0	NA	2
Xylene (Total)	600	470	195	655	1,200	NA	10,000
Water Quality Related Compounds							
Chemical Oxygen Demand (mg/L)	290	NS	NS	NS	NA	NA	NL
Alkalinity (as CaCO3) (mg Ca)	960	NS	NS	NS	NA	NA	NL
Ammonia (as N) (mg/L)	61	NS	NS	NS	100	NA	NL
Bicarbonate (as CaCO3) (mg Ca)	NS	1,150	NS	NS	NA	NA	NL
Chloride (mg/L)	NS	6,650	5,250	5,415	NA	NA	NL
Sulfide (mg/L)	NS	3	NS	NS	NA	NA	NL
Total BOD5 (mg/L)	30	NS	NS	NS	NA	NA	NL
Total Dissolved Solids (TDS) (mg/L)	9,800	NS	NS	NS	NA	NA	NL
Total Hardness (mg Ca)	1,900	NS	NS	NS	NA	NA	NL
Total Organic Carbon (TOC) (mg/L)	55	NS	NS	NS	NA	NA	NL
Total Phosphorus (mg/L)	0	1	NS	NS	NA	NA	NL
Total Suspended Solids (TSS) (mg/L)	100	NS	NS	NS	NA	NA	NL

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Chemicals Detected In Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
SWMU 9

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCH009008							
Inorganic Chemicals (mg/L)							
Aluminum (Al)	1,050	ND	ND	ND	3,700	NA	NL
Arsenic (As)	ND	75	ND	ND	0	28	50
Barium (Ba)	248	480	159	ND	260	323	2,000
Calcium (Ca)	263,000	376,000	269,000	221,000	NA	NA	NL
Iron (Fe)	22,800	71,900	32,700	30,400	1,100	NA	NL
Magnesium (Mg)	273,000	655,000	181,000	170,000	NA	NA	NL
Manganese (Mn)	1,190	366	1,670	1,520	84	3,391	NL
Potassium (K)	59,200	127,000	51,600	40,500	NA	NA	NL
Sodium (Na)	2,430,000	5,460,000	1,920,000	1,790,000	NA	NA	NL
Thallium (Tl)	ND	ND	ND	6	0	8	2
Semi-volatile Organic Compounds (µg/L)							
bis(2-Ethylhexyl)phthalate (BEHP)	ND	ND	ND	3	5	NA	NL
Volatile Organic Compounds (µg/L)							
Acetone	ND	ND	21	ND	370	NA	NL
Water Quality Related Compounds							
Bicarbonate (as CaCO3) (mg Ca)	NS	870	NS	NS	NA	NA	NL
Chloride (mg/L)	NS	9,700	3,400	2,950	NA	NA	NL
Sulfide (mg/L)	NS	2	NS	NS	NA	NA	NL
Total phosphorus (mg/L)	NS	2	NS	NS	NA	NA	NL

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NL = Not listed
NS = Not sampled

Chemicals Detected In Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
SWMU 9

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCH009009							
Inorganic Chemicals (mg/L)							
Aluminum (Al)	857	1,020	261	329	3,700	NA	NL
Arsenic (As)	12	6	5	ND	0	28	50
Barium (Ba)	84	ND	ND	ND	260	323	2,000
Beryllium (Be)	ND	ND	ND	0	0	0	4
Calcium (Ca)	121,000	146,000	135,000	121,000	NA	NA	NL
Cobalt (Co)	2	ND	ND	ND	220	NA	NL
Copper (Cu)	ND	ND	ND	3	150	140	1,300
Iron (Fe)	25,400	34,500	27,800	25,100	1,100	NA	NL
Lead (Pb)	53	34	12	11	15	5	15
Magnesium (Mg)	24,700	24,300	19,700	25,900	NA	NA	NL
Manganese (Mn)	385	385	403	348	84	3,391	NL
Nickel (Ni)	ND	ND	ND	2	73	NA	100
Potassium (K)	26,100	23,400	22,300	25,700	NA	NA	NL
Sodium (Na)	230,000	137,000	126,000	299,000	NA	NA	NL
Thallium (Tl)	1	ND	ND	ND	0	8	2
Vanadium (V)	4	ND	ND	3	26	NA	NL
Semi-volatile Organic Compounds (µg/L)							
Acenaphthene	17	6	5	10	220	NA	NL
Anthracene	ND	ND	ND	1	1,100	NA	NL
Dibenzofuran	5	ND	ND	2	15	NA	NL
bis(2-Ethylhexyl)phthalate (BEHP)	ND	ND	ND	2	5	NA	NL
Fluorene	8	ND	ND	4	150	NA	NL
Naphthalene	4	ND	ND	ND	150	NA	NL
Phenanthrene	4	ND	ND	2	150	NA	NL
Volatile Organic Compounds (µg/L)							
Acetone	ND	22	ND	4	370	NA	NL
Benzene	3	7	12	6	0	NA	5
Carbon disulfide	ND	7	ND	ND	100	NA	NL

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Chemicals Detected In Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
SWMU 9

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Water Quality Related Compounds							
Chemical Oxygen Demand (mg/L)	110	NS	NS	NS	NA	NA	NL
Alkalinity (as CaCO3) (mg Ca)	710	NS	NS	NS	NA	NA	NL
Ammonia (as N) (mg/L)	14	NS	NS	NS	100	NA	NL
Bicarbonate (as CaCO3) (mg Ca)	NS	630	NS	NS	NA	NA	NL
Chloride (mg/L)	NS	200	140	252	NA	NA	NL
Total Dissolved Solids (TDS) (mg/L)	1,200	NS	NS	NS	NA	NA	NL
Total Hardness (mg Ca)	340	NS	NS	NS	NA	NA	NL
Total Organic Carbon (TOC) (mg/L)	33	NS	NS	NS	NA	NA	NL
Total phosphorus (mg/L)	1	1	NS	NS	NA	NA	NL
Total Suspended Solids (TSS) (mg/L)	39	NS	NS	NS	NA	NA	NL

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NS = Not sampled

Chemicals Detected In Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
SWMU 9

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCH009010							
Inorganic Chemicals (mg/L)							
Barium (Ba)	ND	370	485	553	260	323	2,000
Cadmium (Cd)	ND	ND	2	1	2	2	5
Calcium (Ca)	130,000	131,500	131,000	144,000	NA	NA	NL
Chromium (Cr)	ND	ND	6	1	18	18	100
Cobalt (Co)	ND	ND	ND	2	220	NA	NL
Copper (Cu)	ND	ND	ND	2	150	140	1,300
Iron (Fe)	19,600	47,000	38,400	56,700	1,100	NA	NL
Lead (Pb)	ND	2	ND	ND	15	5	15
Magnesium (Mg)	446,000	269,500	191,000	159,000	NA	NA	NL
Manganese (Mn)	226	308	275	349	84	3,391	NL
Potassium (K)	130,000	87,200	72,400	74,600	NA	NA	NL
Selenium (Se)	1	ND	ND	ND	18	3	50
Sodium (Na)	3,540,000	2,335,000	1,700,000	1,320,000	NA	NA	NL
Vanadium (V)	8	ND	10	ND	26	NA	NL
Zinc (Zn)	20	ND	6	ND	1,100	NA	NL
Semi-volatile Organic Compounds (µg/L)							
Acenaphthene	3	3	4	3	220	NA	NL
Benzoic acid	ND	ND	ND	2	15,000	NA	NL
2-Chlorophenol	6	9	7	15	18	NA	NL
Dibenzofuran	ND	ND	ND	1	15	NA	NL
1,4-Dichlorobenzene	8	9	8	8	0	NA	75
1,3-Dichlorobenzene	ND	ND	ND	2	54	NA	600
1,2-Dichlorobenzene	5	4	5	3	27	NA	600
bis(2-Ethylhexyl)phthalate (BEHP)	2	ND	ND	ND	5	NA	NL
Fluorene	ND	ND	3	ND	150	NA	NL
2-Methylnaphthalene	3	3	3	2	150	NA	NL
Naphthalene	2	3	3	2	150	NA	NL
Phenol	ND	6	4	11	2,200	NA	NL

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NS = Not sampled

Chemicals Detected In Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
SWMU 9

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Volatile Organic Compounds (µg/L)							
Acetone	ND	230	ND	ND	370	NA	NL
Benzene	180	85	220	100	0	NA	5
Chlorobenzene	1,300	520	1,200	440	4	NA	NL
Ethylbenzene	55	21	ND	12	130	NA	700
Toluene	ND	ND	ND	2	75	NA	1,000
Xylene (Total)	ND	17	ND	6	1,200	NA	10,000
Water Quality Related Compounds							
Chemical Oxygen Demand (mg/L)	220	NS	NS	NS	NA	NA	NL
Alkalinity (as CaCO3) (mg Ca)	810	NS	NS	NS	NA	NA	NL
Ammonia (as N) (mg/L)	20	NS	NS	NS	100	NA	NL
Bicarbonate (as CaCO3) (mg Ca)	NS	765	NS	NS	NA	NA	NL
Chloride (mg/L)	NS	4,100	3,200	1,970	NA	NA	NL
Sulfate (mg/L)	NS	115	NS	NS	NA	NA	NL
Sulfide (mg/L)	NS	8	NS	NS	NA	NA	NL
Total BOD5 (mg/L)	10	NS	NS	NS	NA	NA	NL
Total Dissolved Solids (TDS) (mg/L)	10,000	NS	NS	NS	NA	NA	NL
Total Hardness (mg Ca)	1,800	NS	NS	NS	NA	NA	NL
Total Organic Carbon (TOC) (mg/L)	23	NS	NS	NS	NA	NA	NL
Total phosphorus (mg/L)	1	1	NS	NS	NA	NA	NL
Total Suspended Solids (TSS) (mg/L)	93	NS	NS	NS	NA	NA	NL

Note:
NA = Not applicable
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NL = Not listed
NS = Not sampled

Chemicals Detected In Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
SWMU 9

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCH009011							
Inorganic Chemicals (mg/L)							
Arsenic (As)	ND	36	25	33	0	28	50
Calcium (Ca)	159,000	213,000	156,000	171,000	NA	NA	NL
Chromium (Cr)	ND	ND	5	ND	18	18	100
Cobalt (Co)	ND	ND	ND	1	220	NA	NL
Iron (Fe)	32,000	43,800	31,700	33,300	1,100	NA	NL
Magnesium (Mg)	44,800	67,300	65,700	43,200	NA	NA	NL
Manganese (Mn)	471	701	374	442	84	3,391	NL
Potassium (K)	28,300	33,200	36,600	27,400	NA	NA	NL
Selenium (Se)	1	ND	ND	ND	18	3	50
Sodium (Na)	322,000	618,000	566,000	464,000	NA	NA	NL
Thallium (Tl)	ND	ND	ND	4	0	8	2
Vanadium (V)	3	ND	5	ND	26	NA	NL
Pesticide/PCB Compounds (µg/L)							
4,4'-DDT	0	ND	ND	ND	0	NA	NL
Semi-volatile Organic Compounds (µg/L)							
Butylbenzylphthalate	ND	3	ND	ND	730	NA	NL
4-Chloro-3-methylphenol	3	ND	ND	ND	NA	NA	NL
Volatile Organic Compounds (µg/L)							
Acetone	ND	ND	27	ND	370	NA	NL
Water Quality Related Compounds							
Bicarbonate (as CaCO3) (mg Ca)	NS	620	NS	NS	NA	NA	NL
Chloride (mg/L)	NS	750	1,000	446	NA	NA	NL
Total phosphorus (mg/L)	NS	1	NS	NS	NA	NA	NL

Note:
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NL = Not listed
NS = Not sampled

Chemicals Detected In Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
SWMU 9

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCH009012							
Inorganic Chemicals (mg/L)							
Aluminum (Al)	ND	864	321	231	3,700	NA	NL
Arsenic (As)	ND	23	56	38	0	28	50
Barium (Ba)	92	ND	87	84	260	323	2,000
Cadmium (Cd)	ND	2	ND	ND	2	2	5
Calcium (Ca)	419,000	428,000	372,000	368,000	NA	NA	NL
Chromium (Cr)	1,460	ND	ND	1	18	18	100
Cobalt (Co)	ND	ND	ND	1	220	NA	NL
Iron (Fe)	57,300	51,700	42,200	42,750	1,100	NA	NL
Lead (Pb)	ND	5	ND	ND	15	5	15
Magnesium (Mg)	118,000	379,000	ND	103,500	NA	NA	NL
Manganese (Mn)	1,700	1,850	1,450	1,575	84	3,391	NL
Nickel (Ni)	ND	ND	ND	2	73	NA	100
Potassium (K)	52,300	105,000	44,900	41,800	NA	NA	NL
Sodium (Na)	533,000	2,690,000	344,000	499,000	NA	NA	NL
Tin (Sn)	NS	NS	NS	3	2,200	NA	NL
Vanadium (V)	ND	ND	7	5	26	NA	NL
Semi-volatile Organic Compounds (µg/L)							
Benzoic acid	ND	ND	NS	2	15,000	NA	NL
bis(2-Ethylhexyl)phthalate (BEHP)	ND	3	NS	ND	5	NA	NL
Volatile Organic Compounds (µg/L)							
Acetone	ND	ND	ND	8	370	NA	NL
Benzene	3	ND	ND	ND	0	NA	5
Chlorobenzene	14	ND	8	3	4	NA	NL
Methylene chloride	ND	ND	ND	4	4	NA	5
Xylene (Total)	4	ND	ND	ND	1,200	NA	10,000

Note:
NA = Not applicable
ND = Not detected at or above the method detection limit
NL = Not listed
NS = Not sampled

Chemicals Detected In Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
SWMU 9

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Water Quality Related Compounds							
Chemical Oxygen Demand (mg/L)	130	NS	NS	NS	NA	NA	NL
Alkalinity (as CaCO3) (mg Ca)	1,200	NS	NS	NS	NA	NA	NL
Ammonia (as N) (mg/L)	29	NS	NS	NS	100	NA	NL
Bicarbonate (as CaCO3) (mg Ca)	NS	1,500	NS	NS	NA	NA	NL
Chloride (mg/L)	NS	1,300	400	492	NA	NA	NL
Sulfate (mg/L)	NS	130	NS	NS	NA	NA	NL
Sulfide (mg/L)	NS	2	NS	NS	NA	NA	NL
Total Dissolved Solids (TDS) (mg/L)	3,900	NS	NS	NS	NA	NA	NL
Total Hardness (mg Ca)	1,200	NS	NS	NS	NA	NA	NL
Total Organic Carbon (TOC) (mg/L)	36	NS	NS	NS	NA	NA	NL
Total phosphorus (mg/L)	4	7	NS	NS	NA	NA	NL
Total Suspended Solids (TSS) (mg/L)	110	NS	NS	NS	NA	NA	NL

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Chemicals Detected In Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
SWMU 9

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCH009013							
Inorganic Chemicals (mg/L)							
Aluminum (Al)	ND	ND	208	164	3,700	NA	NL
Arsenic (As)	1	ND	ND	ND	0	28	50
Barium (Ba)	155	216	181	182	260	323	2,000
Cadmium (Cd)	ND	2	ND	ND	2	2	5
Calcium (Ca)	157,000	231,000	149,000	158,000	NA	NA	NL
Chromium (Cr)	ND	ND	ND	4	18	18	100
Cobalt (Co)	2	ND	ND	2	220	NA	NL
Copper (Cu)	ND	ND	ND	2	150	140	1,300
Iron (Fe)	16,400	10,500	16,700	24,600	1,100	NA	NL
Lead (Pb)	3	2	ND	ND	15	5	15
Magnesium (Mg)	87,800	191,000	103,000	81,600	NA	NA	NL
Manganese (Mn)	518	813	511	492	84	3,391	NL
Mercury (Hg)	ND	ND	ND	1	1	NA	2
Nickel (Ni)	ND	ND	ND	1	73	NA	100
Potassium (K)	44,000	62,900	48,300	45,600	NA	NA	NL
Silver (Ag)	4	ND	ND	3	18	NA	NL
Sodium (Na)	666,000	1,410,000	923,000	623,000	NA	NA	NL
Thallium (Tl)	1	ND	16	5	0	8	2
Vanadium (V)	6	ND	6	5	26	NA	NL
Zinc (Zn)	ND	ND	12	ND	1,100	NA	NL
Semi-volatile Organic Compounds (µg/L)							
Acenaphthene	20	16	16	11	220	NA	NL
Benzoic acid	21	ND	ND	ND	15,000	NA	NL
Dibenzofuran	8	5	5	4	15	NA	NL
1,4-Dichlorobenzene	7	6	5	4	0	NA	75
Fluoranthene	4	3	4	3	150	NA	NL
Fluorene	6	ND	2	1	150	NA	NL
2-Methylnaphthalene	3	ND	ND	ND	150	NA	NL
Naphthalene	10	ND	5	4	150	NA	NL
Phenanthrene	10	ND	ND	ND	150	NA	NL
Pyrene	ND	ND	ND	2	110	NA	NL

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NS = Not sampled

Chemicals Detected In Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
SWMU 9

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Volatile Organic Compounds (µg/L)							
Acetone	ND	ND	ND	11	370	NA	NL
Benzene	4	3	5	4	0	NA	5
Chlorobenzene	31	18	30	25	4	NA	NL
Chloroethane	7	6	ND	ND	860	NA	NL
Ethylbenzene	ND	ND	ND	1	130	NA	700
Toluene	ND	ND	3	2	75	NA	1,000
Xylene (Total)	ND	ND	ND	6	1,200	NA	10,000
Water Quality Related Compounds							
Bicarbonate (as CaCO3) (mg Ca)	NS	800	NS	NS	NA	NA	NL
Chloride (mg/L)	NS	2,000	1,400	980	NA	NA	NL
Sulfate (mg/L)	NS	38	NS	NS	NA	NA	NL
Total phosphorus (mg/L)	NS	0	NS	NS	NA	NA	NL

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NL = Not listed
NS = Not sampled

Chemicals Detected In Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
SWMU 9

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCH009014							
Inorganic Chemicals (mg/L)							
Aluminum (Al)	162	ND	ND	ND	3,700	NA	NL
Arsenic (As)	ND	25	ND	5	0	28	50
Barium (Ba)	283	281	262	256	260	323	2,000
Cadmium (Cd)	ND	2	2	ND	2	2	5
Calcium (Ca)	246,000	297,000	243,000	208,000	NA	NA	NL
Chromium (Cr)	ND	ND	ND	1	18	18	100
Cobalt (Co)	ND	ND	ND	2	220	NA	NL
Iron (Fe)	28,300	31,300	15,400	22,000	1,100	NA	NL
Lead (Pb)	ND	2	ND	ND	15	5	15
Magnesium (Mg)	273,000	317,000	215,000	214,000	NA	NA	NL
Manganese (Mn)	980	1,220	1,030	954	84	3,391	NL
Potassium (K)	101,000	109,000	87,700	111,000	NA	NA	NL
Silver (Ag)	ND	ND	ND	3	18	NA	NL
Sodium (Na)	2,510,000	2,570,000	1,900,000	2,070,000	NA	NA	NL
Thallium (Tl)	ND	ND	ND	5	0	8	2
Vanadium (V)	ND	ND	4	ND	26	NA	NL
Semi-volatile Organic Compounds (µg/L)							
1,4-Dichlorobenzene	3	ND	ND	1	0	NA	75
Volatile Organic Compounds (µg/L)							
Benzene	9	4	4	5	0	NA	5
Chlorobenzene	61	25	26	39	4	NA	NL
Xylene (Total)	4	ND	ND	ND	1,200	NA	10,000
Water Quality Related Compounds							
Bicarbonate (as CaCO3) (mg Ca)	NS	1,200	NS	NS	NA	NA	NL
Chloride (mg/L)	NS	5,000	3,700	3,390	NA	NA	NL
Sulfate (mg/L)	NS	11	NS	NS	NA	NA	NL
Sulfide (mg/L)	NS	1	NS	NS	NA	NA	NL
Total phosphorus (mg/)	NS	3	NS	NS	NA	NA	NL

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NS = Not sampled

Chemicals Detected In Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
SWMU 9

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCH009015							
Inorganic Chemicals (mg/L)							
Arsenic (As)	ND	7	9	8	0	28	50
Barium (Ba)	409	534	459	437	260	323	2,000
Cadmium (Cd)	ND	1	ND	ND	2	2	5
Calcium (Ca)	263,000	190,000	179,000	161,000	NA	NA	NL
Chromium (Cr)	ND	ND	ND	1	18	18	100
Cobalt (Co)	ND	3	ND	2	220	NA	NL
Copper (Cu)	ND	ND	ND	1	150	140	1,300
Iron (Fe)	33,000	19,200	40,400	8,090	1,100	NA	NL
Lead (Pb)	ND	4	ND	2	15	5	15
Magnesium (Mg)	60,200	56,000	40,700	65,400	NA	NA	NL
Manganese (Mn)	1,230	541	1,090	408	84	3,391	NL
Nickel (Ni)	ND	ND	11	4	73	NA	100
Potassium (K)	49,400	46,400	41,800	62,900	NA	NA	NL
Silver (Ag)	ND	ND	2	ND	18	NA	NL
Sodium (Na)	297,000	342,000	209,000	537,000	NA	NA	NL
Thallium (Tl)	ND	ND	ND	4	0	8	2
Tin (Sn)	NS	NS	NS	3	2,200	NA	NL
Vanadium (V)	ND	ND	ND	4	26	NA	NL
Pesticide/PCB Compounds (µg/L)							
4,4'-DDD	ND	0	ND	ND	0	NA	NL
4,4'-DDE	ND	0	ND	ND	0	NA	NL
Endosulfan I	ND	0	ND	ND	22	NA	NL
Semi-volatile Organic Compounds (µg/L)							
Acenaphthene	12	ND	3	2	220	NA	NL
Benzoic acid	ND	ND	ND	2	15,000	NA	NL
Dibenzofuran	3	ND	ND	ND	15	NA	NL
Fluoranthene	3	ND	ND	1	150	NA	NL
Fluorene	5	ND	ND	ND	150	NA	NL
Naphthalene	7	ND	ND	ND	150	NA	NL
Phenanthrene	4	ND	ND	ND	150	NA	NL
Pyrene	ND	ND	ND	1	110	NA	NL

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Chemicals Detected In Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
SWMU 9

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Volatile Organic Compounds (µg/L)							
Acetone	ND	ND	ND	13	370	NA	NL
Methylene chloride	ND	9	ND	ND	4	NA	5
Water Quality Related Compounds							
Bicarbonate (as CaCO3) (mg Ca)	NS	720	NS	NS	NA	NA	NL
Chloride (mg/L)	NS	690	400	867	NA	NA	NL
Nitrate (as N) (mg/L)	NS	0	NS	NS	5,800	NA	NL
Sulfate (mg/L)	NS	17	NS	NS	NA	NA	NL
Total phosphorus (mg/L)	NS	0	NS	NS	NA	NA	NL

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NS = Not sampled

Chemicals Detected In Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
SWMU 9

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCH009016							
Dioxins (pg/L)							
Dioxin Equiv.	NS	0	1	0	0	NA	NL
Inorganic Chemicals (mg/L)							
Antimony (Sb)	NS	19	ND	ND	2	NA	6
Barium (Ba)	NS	760	951	951	260	323	2,000
Cadmium (Cd)	NS	1	2	ND	2	2	5
Calcium (Ca)	NS	473,000	201,000	267,000	NA	NA	NL
Chromium (Cr)	NS	5	ND	3	18	18	100
Copper (Cu)	NS	ND	7	5	150	140	1,300
Iron (Fe)	NS	22,100	29,200	37,500	1,100	NA	NL
Lead (Pb)	NS	21	28	23	15	5	15
Magnesium (Mg)	NS	85,600	234,000	180,000	NA	NA	NL
Manganese (Mn)	NS	493	606	709	84	3,391	NL
Nickel (Ni)	NS	ND	ND	5	73	NA	100
Potassium (K)	NS	57,500	90,300	73,300	NA	NA	NL
Sodium (Na)	NS	1,560,000	2,660,000	2,450,000	NA	NA	NL
Vanadium (V)	NS	ND	6	2	26	NA	NL
Zinc (Zn)	NS	ND	23	ND	1,100	NA	NL
Pesticide/PCB Compounds (µg/L)							
2,4,5-T	NS	1	NS	NS	37	NA	NL

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NA = Not applicable
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NL = Not listed
NS = Not sampled

Chemicals Detected In Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
SWMU 9

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Semi-volatile Organic Compounds (μg/L)							
Acenaphthene	NS	4	4	2	220	NA	NL
Azobenzene	NS	3	ND	NS	1	NA	NL
Benzoic acid	NS	69	ND	ND	15,000	NA	NL
Dibenzofuran	NS	1	ND	ND	15	NA	NL
1,4-Dichlorobenzene	NS	ND	ND	1	0	NA	75
Diethylphthalate	NS	3	ND	ND	2,900	NA	NL
2,4-Dimethylphenol	NS	7	2	1	73	NA	NL
Diphenylamine	NS	10	NS	NS	91	NA	NL
bis(2-Ethylhexyl)phthalate (BEHP)	NS	5	ND	ND	5	NA	NL
Fluorene	NS	3	2	1	150	NA	NL
Hexachlorocyclopentadiene	NS	11	ND	ND	0	NA	50
2-Methylnaphthalene	NS	2	ND	ND	150	NA	NL
4-Methylphenol (p-Cresol)	NS	27	7	5	18	NA	NL
Naphthalene	NS	ND	ND	1	150	NA	NL
N-Nitrosodiphenylamine	NS	3	6	5	14	NA	NL
Pentachlorophenol	NS	24	ND	ND	1	NA	1
Phenanthrene	NS	3	3	2	150	NA	NL
Phenol	NS	52	7	18	2,200	NA	NL
Volatile Organic Compounds (μg/L)							
Acetone	NS	45	ND	ND	370	NA	NL
Benzene	NS	3	4	ND	0	NA	5
2-Butanone (MEK)	NS	11	ND	2	190	NA	NL
Chlorobenzene	NS	9	ND	ND	4	NA	NL
4-Methyl-2-Pentanone (MIBK)	NS	3	ND	1	290	NA	NL
Toluene	NS	2	ND	ND	75	NA	1,000
Xylene (Total)	NS	3	ND	ND	1,200	NA	10,000
Water Quality Related Compounds							
Chloride (mg/L)	NS	NS	4,900	4,390	NA	NA	NL

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NS = Not sampled

Chemicals Detected In Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
SWMU 9

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCH009017							
Inorganic Chemicals (mg/L)							
Barium (Ba)	NS	499	ND	ND	260	323	2,000
Calcium (Ca)	NS	202,000	135,000	149,000	NA	NA	NL
Iron (Fe)	NS	743	6,260	6,310	1,100	NA	NL
Lead (Pb)	NS	ND	1	ND	15	5	15
Magnesium (Mg)	NS	241,000	37,400	83,100	NA	NA	NL
Manganese (Mn)	NS	127	145	179	84	3,391	NL
Potassium (K)	NS	90,500	14,100	28,000	NA	NA	NL
Sodium (Na)	NS	2,560,000	350,000	817,000	NA	NA	NL
Semi-volatile Organic Compounds (µg/L)							
Acenaphthene	NS	7	4	3	220	NA	NL
Benzoic acid	NS	55	ND	ND	15,000	NA	NL
Fluorene	NS	2	ND	ND	150	NA	NL
2-Methylnaphthalene	NS	8	ND	ND	150	NA	NL
Naphthalene	NS	9	ND	2	150	NA	NL
Pentachlorophenol	NS	11	ND	ND	1	NA	1
Phenanthrene	NS	4	ND	ND	150	NA	NL
Water Quality Related Compounds							
Chloride (mg/L)	NS	NS	640	NS	NA	NA	NL

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NL = Not listed
NS = Not sampled

Chemicals Detected In Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
SWMU 9

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCH009018							
Inorganic Chemicals (mg/L)							
Aluminum (Al)	NS	ND	484	ND	3,700	NA	NL
Arsenic (As)	NS	ND	3	ND	0	28	50
Barium (Ba)	NS	1,200	1,110	762	260	323	2,000
Calcium (Ca)	NS	236,000	181,000	137,000	NA	NA	NL
Chromium (Cr)	NS	ND	ND	1	18	18	100
Copper (Cu)	NS	ND	33	23	150	140	1,300
Iron (Fe)	NS	3,790	1,920	1,540	1,100	NA	NL
Lead (Pb)	NS	8	20	11	15	5	15
Magnesium (Mg)	NS	224,000	218,000	237,000	NA	NA	NL
Manganese (Mn)	NS	320	296	154	84	3,391	NL
Potassium (K)	NS	87,700	101,000	92,500	NA	NA	NL
Sodium (Na)	NS	2,350,000	2,370,000	2,600,000	NA	NA	NL
Vanadium (V)	NS	ND	ND	7	26	NA	NL
Zinc (Zn)	NS	ND	89	ND	1,100	NA	NL
Petroleum Hydrocarbons (µg/L)							
Gasoline	NS	NS	NS	6	NA	NA	NL
Semi-volatile Organic Compounds (µg/L)							
Benzoic acid	NS	56	NS	ND	15,000	NA	NL
Pentachlorophenol	NS	11	NS	ND	1	NA	1
Volatile Organic Compounds (µg/L)							
2-Butanone (MEK)	NS	ND	NS	6	190	NA	NL
Water Quality Related Compounds							
Chloride (mg/L)	NS	NS	3,500	NS	NA	NA	NL

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NL = Not listed
NS = Not sampled

Chemicals Detected In Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
SWMU 9

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCH009019							
Inorganic Chemicals (mg/L)							
Aluminum (Al)	NS	600	ND	ND	3,700	NA	NL
Arsenic (As)	NS	ND	2	ND	0	28	50
Barium (Ba)	NS	401	209	ND	260	323	2,000
Calcium (Ca)	NS	236,000	195,500	178,500	NA	NA	NL
Iron (Fe)	NS	21,600	9,270	21,650	1,100	NA	NL
Lead (Pb)	NS	3	ND	ND	15	5	15
Magnesium (Mg)	NS	133,000	72,150	85,000	NA	NA	NL
Manganese (Mn)	NS	531	292	376	84	3,391	NL
Potassium (K)	NS	65,300	41,350	48,850	NA	NA	NL
Sodium (Na)	NS	1,180,000	660,000	819,000	NA	NA	NL
Vanadium (V)	NS	ND	ND	6	26	NA	NL
Semi-volatile Organic Compounds (µg/L)							
Acenaphthene	NS	4	NS	NS	220	NA	NL
Benzoic acid	NS	52	NS	NS	15,000	NA	NL
Volatile Organic Compounds (µg/L)							
Acetone	NS	ND	ND	5	370	NA	NL
Chlorobenzene	NS	28	31	23	4	NA	NL
Water Quality Related Compounds							
Chloride (mg/L)	NS	NS	2,000	NS	NA	NA	NL

Note:
NA = Not applicable
ND = Not detected at or above the method detection limit
NL = Not listed
NS = Not sampled

Chemicals Detected In Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
SWMU 9

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCH00902D							
Inorganic Chemicals (mg/L)							
Barium (Ba)	ND	ND	29	ND	260	237	2,000
Cadmium (Cd)	ND	ND	4	ND	2	NA	5
Calcium (Ca)	110,000	154,000	113,000	ND	NA	NA	NL
Iron (Fe)	3,450	5,640	5,080	3,260	1,100	NA	NL
Magnesium (Mg)	631,000	791,000	701,000	448,000	NA	NA	NL
Manganese (Mn)	73	184	171	97	84	776	NL
Potassium (K)	188,000	241,000	239,000	289,000	NA	NA	NL
Sodium (Na)	5,300,000	6,270,000	5,830,000	6,390,000	NA	NA	NL
Thallium (Tl)	ND	ND	17	ND	0	NA	2
Water Quality Related Compounds							
Bicarbonate (as CaCO3) (mg Ca)	NS	1,700	NS	NS	NA	NA	NL
Chloride (mg/L)	NS	16,000	10,000	9,660	NA	NA	NL
Total phosphorus (mg/L)	NS	2	NS	NS	NA	NA	NL

Note:
NA = Not applicable
ND = Not detected at or above the method detection limit
NL = Not listed
NS = Not sampled

Chemicals Detected In Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
SWMU 9

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCH00903D							
Inorganic Chemicals (mg/L)							
Arsenic (As)	4	ND	2	ND	0	15	50
Barium (Ba)	176	ND	95	ND	260	237	2,000
Beryllium (Be)	ND	ND	ND	1	0	NA	4
Cadmium (Cd)	ND	3	4	ND	2	NA	5
Calcium (Ca)	122,000	164,000	126,000	117,000	NA	NA	NL
Cobalt (Co)	2	ND	ND	ND	220	3	NL
Iron (Fe)	8,590	11,900	8,210	6,180	1,100	NA	NL
Lead (Pb)	7	ND	ND	ND	15	4	15
Magnesium (Mg)	683,000	825,000	782,000	685,000	NA	NA	NL
Manganese (Mn)	805	1,220	910	766	84	776	NL
Potassium (K)	175,000	216,000	224,000	197,000	NA	NA	NL
Sodium (Na)	5,340,000	6,270,000	5,940,000	7,450,000	NA	NA	NL
Tin (Sn)	NS	NS	NS	5	2,200	NA	NL
Vanadium (V)	6	ND	ND	3	26	9	NL
Semi-volatile Organic Compounds (µg/L)							
bis(2-Ethylhexyl)phthalate (BEHP)	ND	ND	25	ND	5	NA	NL
Volatile Organic Compounds (µg/L)							
Acetone	ND	ND	ND	2	370	NA	NL
Water Quality Related Compounds							
Bicarbonate (as CaCO3) (mg Ca)	NS	1,600	NS	NS	NA	NA	NL
Chloride (mg/L)	NS	11,000	11,000	9,500	NA	NA	NL
Sulfate (mg/L)	NS	13	NS	NS	NA	NA	NL
Sulfide (mg/L)	NS	1	NS	NS	NA	NA	NL
Total phosphorus (mg/L)	NS	5	NS	NS	NA	NA	NL

Note:
NA = Not applicable
ND = Not detected at or above the method detection limit
NL = Not listed
NS = Not sampled

Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
SWMU 9

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCH00904D							
Inorganic Chemicals (mg/L)							
Aluminum (Al)	1,580	ND	ND	ND	3,700	723	NL
Arsenic (As)	5	ND	ND	ND	0	15	50
Barium (Ba)	74	ND	96	ND	260	237	2,000
Beryllium (Be)	ND	ND	ND	1	0	NA	4
Cadmium (Cd)	ND	3	4	ND	2	NA	5
Calcium (Ca)	265,000	271,000	213,000	204,000	NA	NA	NL
Chromium (Cr)	18	ND	ND	1	18	NA	100
Iron (Fe)	2,080	ND	ND	ND	1,100	NA	NL
Lead (Pb)	4	ND	ND	ND	15	4	15
Magnesium (Mg)	820,000	869,000	886,000	785,000	NA	NA	NL
Manganese (Mn)	27	ND	ND	ND	84	776	NL
Potassium (K)	182,000	234,000	235,000	217,000	NA	NA	NL
Selenium (Se)	1	ND	ND	ND	18	2	50
Sodium (Na)	6,380,000	7,040,000	6,970,000	8,720,000	NA	NA	NL
Thallium (Tl)	160	ND	ND	ND	0	NA	2
Tin (Sn)	NS	NS	NS	5	2,200	NA	NL
Vanadium (V)	12	ND	5	2	26	9	NL
Semi-volatile Organic Compounds (µg/L)							
bis(2-Ethylhexyl)phthalate (BEHP)	ND	ND	ND	1	5	NA	NL
Volatile Organic Compounds (µg/L)							
Acetone	25	ND	ND	ND	370	NA	NL
Carbon disulfide	61	3	370	8	100	NA	NL
Water Quality Related Compounds							
Bicarbonate (as CaCO3) (Mg/L)	NS	1,700	NS	NS	NA	NA	NL
Chloride (mg/L)	NS	18,000	15,000	12,100	NA	NA	NL
Nitrate (as N) (mg/L)	NS	0	NS	NS	5,800	NA	NL
Nitrite (as N) (mg/L)	NS	0	NS	NS	370	NA	NL
Sulfate (mg/L)	NS	13	NS	NS	NA	NA	NL
Sulfide (mg/L)	NS	140	NS	NS	NA	NA	NL
Sulfite (mg/L)	NS	170	NS	NS	NA	NA	NL
Total phosphorus (mg/L)	NS	1	NS	NS	NA	NA	NL

Note:
NA = Not applicable
ND = Not detected at or above the method detection limit
NL = Not listed
NS = Not sampled

Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
SWMU 9

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCH00905D							
Inorganic Chemicals (mg/L)							
Aluminum (Al)	369	ND	ND	ND	3,700	723	NL
Cadmium (Cd)	ND	ND	5	ND	2	NA	5
Calcium (Ca)	104,000	116,000	96,300	90,600	NA	NA	NL
Chromium (Cr)	ND	ND	ND	1	18	NA	100
Copper (Cu)	ND	ND	ND	3	150	NA	1,300
Iron (Fe)	4,600	7,800	4,760	4,480	1,100	NA	NL
Magnesium (Mg)	629,000	725,000	704,000	641,000	NA	NA	NL
Manganese (Mn)	94	252	181	159	84	776	NL
Potassium (K)	195,000	205,000	209,000	296,000	NA	NA	NL
Selenium (Se)	ND	ND	ND	4	18	2	50
Sodium (Na)	5,640,000	5,730,000	5,510,000	8,330,000	NA	NA	NL
Vanadium (V)	ND	ND	5	ND	26	9	NL
Zinc (Zn)	ND	ND	104	ND	1,100	NA	NL
Semi-volatile Organic Compounds (µg/L)							
Benzoic acid	2	ND	ND	ND	15,000	NA	NL
bis(2-Ethylhexyl)phthalate (BEHP)	ND	ND	ND	4	5	NA	NL
Water Quality Related Compounds							
Bicarbonate (as CaCO3) (mg Ca)	NS	1,000	NS	NS	NA	NA	NL
Chloride (mg/L)	NS	12,000	11,000	9,180	NA	NA	NL
Total phosphorus (mg/L)	NS	4	NS	NS	NA	NA	NL

Note:
NA = Not applicable
ND = Not detected at or above the method detection limit
NL = Not listed
NS = Not sampled

Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
SWMU 9

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCH00906D							
Inorganic Chemicals (mg/L)							
Arsenic (As)	ND	4	ND	6	0	15	50
Barium (Ba)	76	ND	84	ND	260	237	2,000
Cadmium (Cd)	ND	3	5	ND	2	NA	5
Calcium (Ca)	344,000	453,000	291,000	285,000	NA	NA	NL
Iron (Fe)	6,800	13,600	6,910	6,990	1,100	NA	NL
Magnesium (Mg)	690,000	873,000	755,000	711,000	NA	NA	NL
Manganese (Mn)	139	278	172	144	84	776	NL
Potassium (K)	186,000	234,000	201,000	199,000	NA	NA	NL
Sodium (Na)	6,190,000	7,550,000	6,510,000	6,920,000	NA	NA	NL
Thallium (Tl)	ND	ND	56	ND	0	NA	2
Tin (Sn)	NS	NS	NS	4	2,200	NA	NL
Volatile Organic Compounds (µg/L)							
Chloroform	2	ND	ND	ND	0	NA	100
Water Quality Related Compounds							
Bicarbonate (as CaCO3) (mg Ca)	NS	500	NS	NS	NA	NA	NL
Chloride (mg/L)	NS	13,000	15,000	12,700	NA	NA	NL
Nitrite (as N) (mg/L)	NS	0	NS	NS	370	NA	NL
Sulfate (mg/L)	NS	910	NS	NS	NA	NA	NL
Total phosphorus (mg/L)	NS	1	NS	NS	NA	NA	NL

Note:
NA = Not applicable
ND = Not detected at or above the method detection limit
NL = Not listed
NS = Not sampled

Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
SWMU 9

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCH00907D							
Inorganic Chemicals (mg/L)							
Arsenic (As)	5	ND	ND	3	0	15	50
Barium (Ba)	69	ND	69	ND	260	237	2,000
Cadmium (Cd)	ND	ND	5	ND	2	NA	5
Calcium (Ca)	97,200	131,000	105,000	101,000	NA	NA	NL
Cobalt (Co)	ND	ND	ND	1	220	3	NL
Iron (Fe)	5,540	6,120	4,190	3,940	1,100	NA	NL
Lead (Pb)	5	ND	ND	ND	15	4	15
Magnesium (Mg)	616,000	728,000	746,000	580,000	NA	NA	NL
Manganese (Mn)	755	1,270	822	809	84	776	NL
Potassium (K)	153,000	213,000	200,000	185,000	NA	NA	NL
Sodium (Na)	4,980,000	5,780,000	5,910,000	6,040,000	NA	NA	NL
Thallium (Tl)	ND	ND	17	ND	0	NA	2
Vanadium (V)	5	ND	7	2	26	9	NL
Semi-volatile Organic Compounds (µg/L)							
Benzoic acid	ND	ND	ND	2	15,000	NA	NL
Water Quality Related Compounds							
Bicarbonate (as CaCO3) (mg Ca)	NS	2,100	NS	NS	NA	NA	NL
Chloride (mg/L)	NS	13,000	10,000	8,970	NA	NA	NL
Sulfide (mg/L)	NS	4	NS	NS	NA	NA	NL
Total phosphorus (mg/L)	NS	4	NS	NS	NA	NA	NL

Note:
NA = Not applicable
ND = Not detected at or above the method detection limit
NL = Not listed
NS = Not sampled

Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
SWMU 9

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCH00908D							
Inorganic Chemicals (mg/L)							
Aluminum (Al)	182	ND	ND	ND	3,700	723	NL
Arsenic (As)	ND	ND	2	ND	0	15	50
Cadmium (Cd)	ND	ND	4	ND	2	NA	5
Calcium (Ca)	92,200	128,000	94,100	97,500	NA	NA	NL
Cyanide (CN)	0	NS	NS	NS	73	NA	200
Iron (Fe)	1,010	780	774	1,130	1,100	NA	NL
Magnesium (Mg)	559,000	710,000	594,000	578,000	NA	NA	NL
Manganese (Mn)	211	321	261	283	84	776	NL
Potassium (K)	170,000	217,000	196,000	294,000	NA	NA	NL
Selenium (Se)	ND	ND	ND	4	18	2	50
Sodium (Na)	5,070,000	6,190,000	5,220,000	8,010,000	NA	NA	NL
Semi-volatile Organic Compounds (µg/L)							
bis(2-Ethylhexyl)phthalate (BEHP)	ND	ND	ND	3	5	NA	NL
Water Quality Related Compounds							
Bicarbonate (as CaCO3) (mg Ca)	NS	1,600	NS	NS	NA	NA	NL
Chloride (mg/L)	NS	9,900	10,000	9,510	NA	NA	NL
Sulfide (mg/L)	NS	2	NS	NS	NA	NA	NL
Total phosphorus (mg/L)	NS	2	NS	NS	NA	NA	NL

Note:
NA = Not applicable
ND = Not detected at or above the method detection limit
NL = Not listed
NS = Not sampled

Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
SWMU 9

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCH009121							
Inorganic Chemicals (mg/L)							
Aluminum (Al)	ND	440	ND	ND	3,700	NA	NL
Barium (Ba)	ND	314	448	339	260	323	2,000
Calcium (Ca)	213,000	199,000	219,000	230,000	NA	NA	NL
Chromium (Cr)	ND	ND	ND	1	18	18	100
Cobalt (Co)	ND	ND	ND	2	220	NA	NL
Copper (Cu)	6	ND	ND	ND	150	140	1,300
Iron (Fe)	15,100	20,200	16,500	26,800	1,100	NA	NL
Lead (Pb)	ND	4	2	ND	15	5	15
Magnesium (Mg)	73,300	72,400	73,200	80,200	NA	NA	NL
Manganese (Mn)	196	260	207	290	84	3,391	NL
Potassium (K)	46,000	42,200	47,100	49,000	NA	NA	NL
Selenium (Se)	1	ND	ND	ND	18	3	50
Sodium (Na)	507,000	433,000	505,000	465,000	NA	NA	NL
Thallium (Tl)	6	ND	ND	3	0	8	2
Vanadium (V)	7	ND	ND	ND	26	NA	NL
Semi-volatile Organic Compounds (µg/L)							
Benzoic acid	ND	ND	ND	2	15,000	NA	NL
4-Methylphenol (p-Cresol)	3	ND	ND	ND	18	NA	NL
Phenol	8	ND	ND	ND	2,200	NA	NL
Volatile Organic Compounds (µg/L)							
Benzene	3	ND	ND	ND	0	NA	5
Chlorobenzene	9	ND	ND	3	4	NA	NL
Methylene chloride	ND	ND	ND	5	4	NA	5

Note:
NA = Not applicable
ND = Not detected at or above the method detection limit
NL = Not listed
NS = Not sampled

Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
SWMU 9

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Water Quality Related Compounds							
Chemical Oxygen Demand (mg/L)	100	NS	NS	NS	NA	NA	NL
Alkalinity (as CaCO3) (mg Ca)	780	NS	NS	NS	NA	NA	NL
Ammonia (as N) (mg/L)	33	NS	NS	NS	100	NA	NL
Total BOD5 (mg/L)	10	NS	NS	NS	NA	NA	NL
Total Dissolved Solids (TDS) (mg/L)	3,200	NS	NS	NS	NA	NA	NL
Total Hardness (mg Ca)	340	NS	NS	NS	NA	NA	NL
Total Organic Carbon (TOC) (mg/L)	32	NS	NS	NS	NA	NA	NL
Total phosphorus (mg/L)	0	NS	NS	NS	NA	NA	NL
Total Suspended Solids (TSS) (mg/L)	45	NS	NS	NS	NA	NA	NL

Note:
NA = Not applicable
ND = Not detected at or above the method detection limit
NL = Not listed
NS = Not sampled

Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
SWMU 9

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCH00912D							
Inorganic Chemicals (mg/L)							
Aluminum (Al)	ND	ND	222	ND	3,700	723	NL
Arsenic (As)	2	ND	75	ND	0	15	50
Barium (Ba)	60	ND	ND	59	260	237	2,000
Cadmium (Cd)	2	ND	2	ND	2	NA	5
Calcium (Ca)	108,000	150,000	283,500	107,000	NA	NA	NL
Cobalt (Co)	3	ND	ND	ND	220	3	NL
Iron (Fe)	7,480	1,990	24,720	774	1,100	NA	NL
Lead (Pb)	2	ND	ND	ND	15	4	15
Magnesium (Mg)	601,000	817,000	380,500	675,000	NA	NA	NL
Manganese (Mn)	719	990	1,158	631	84	776	NL
Potassium (K)	162,000	207,000	117,550	176,000	NA	NA	NL
Sodium (Na)	4,370,000	6,010,000	2,635,000	7,280,000	NA	NA	NL
Vanadium (V)	8	ND	5	ND	26	9	NL
Zinc (Zn)	ND	ND	10	ND	1,100	NA	NL
Semi-volatile Organic Compounds (µg/L)							
Di-n-butylphthalate	3	ND	ND	ND	370	NA	NL
Volatile Organic Compounds (µg/L)							
Chlorobenzene	ND	ND	10	ND	4	NA	NL
Methylene chloride	ND	ND	ND	2	4	NA	5

Note:
NA = Not applicable
ND = Not detected at or above the method detection limit
NL = Not listed
NS = Not sampled

Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
SWMU 9

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Water Quality Related Compounds							
Chemical Oxygen Demand (mg/L)	880	NS	NS	NS	NA	NA	NL
Alkalinity (as CaCO3) (mg Ca)	1,800	NS	NS	NS	NA	NA	NL
Ammonia (as N) (mg/L)	100	NS	NS	NS	100	NA	NL
Bicarbonate (as CaCO3) (mg Ca)	NS	2,300	NS	NS	NA	NA	NL
Chloride (mg/L)	NS	10,000	10,000	11,000	NA	NA	NL
Sulfide (mg/L)	NS	2	NS	NS	NA	NA	NL
Total Dissolved Solids (TDS) (mg/L)	18,000	NS	NS	NS	NA	NA	NL
Total Hardness (mg Ca)	3,800	NS	NS	NS	NA	NA	NL
Total Organic Carbon (TOC) (mg/L)	49	NS	NS	NS	NA	NA	NL
Total phosphorus (mg/L)	4	4	NS	NS	NA	NA	NL
Total Suspended Solids (TSS) (mg/L)	42	NS	NS	NS	NA	NA	NL

Note:
NA = Not applicable
ND = Not detected at or above the method detection limit
NL = Not listed
NS = Not sampled

Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
SWMU 13

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCH013301							
Inorganic Chemicals (mg/L)							
Aluminum (Al)	755	ND	ND	ND	3,700	NA	NL
Arsenic (As)	ND	5	2	5	0	28	50
Barium (Ba)	ND	2	3	ND	260	323	2,000
Beryllium (Be)	ND	ND	0	ND	0	0	4
Calcium (Ca)	82,500	97,500	93,200	120,000	NA	NA	NL
Copper (Cu)	ND	ND	4	ND	150	140	1,300
Iron (Fe)	732	1,690	70	2,460	1,100	NA	NL
Magnesium (Mg)	4,370	18,100	5,870	17,200	NA	NA	NL
Manganese (Mn)	48	173	7	213	84	3,391	NL
Potassium (K)	17,300	14,400	7,210	15,200	NA	NA	NL
Sodium (Na)	25,600	80,600	21,700	ND	NA	NA	NL
Vanadium (V)	14	ND	6	1	26	NA	NL

Note:
NA = Not applicable
ND = Not detected at or above the method detection limit
NL = Not listed
NS = Not sampled

Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
SWMU 13

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCH013302							
Inorganic Chemicals (mg/L)							
Aluminum (Al)	ND	166	912	672	3,700	NA	NL
Arsenic (As)	ND	4	ND	4	0	28	50
Barium (Ba)	ND	13	28	ND	260	323	2,000
Calcium (Ca)	96,600	110,000	61,100	114,000	NA	NA	NL
Chromium (Cr)	ND	ND	4	2	18	18	100
Iron (Fe)	ND	2,290	466	5,390	1,100	NA	NL
Magnesium (Mg)	6,040	26,500	1,600	31,900	NA	NA	NL
Manganese (Mn)	12	273	7	336	84	3,391	NL
Nickel (Ni)	ND	ND	ND	2	73	NA	100
Potassium (K)	7,400	31,100	9,850	30,800	NA	NA	NL
Sodium (Na)	12,600	210,000	1,030	276,000	NA	NA	NL
Vanadium (V)	ND	ND	13	4	26	NA	NL
Zinc (Zn)	ND	ND	20	ND	1,100	NA	NL
Semi-volatile Organic Compounds (µg/L)							
bis(2-Ethylhexyl)phthalate (BEHP)	ND	ND	ND	35	5	NA	NL

Note:
NA = Not applicable
ND = Not detected at or above the method detection limit
NL = Not listed
NS = Not sampled

Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
SWMU 13

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCH013001							
Inorganic Chemicals (mg/L)							
Aluminum (Al)	ND	ND	28	ND	3,700	NA	NL
Arsenic (As)	12	7	10	16	0	28	50
Barium (Ba)	ND	2	6	ND	260	323	2,000
Cadmium (Cd)	ND	ND	2	ND	2	2	5
Calcium (Ca)	100,000	109,000	112,000	120,000	NA	NA	NL
Copper (Cu)	ND	ND	17	ND	150	140	1,300
Iron (Fe)	3,540	5,780	3,390	9,540	1,100	NA	NL
Magnesium (Mg)	5,740	5,590	5,060	56,200	NA	NA	NL
Manganese (Mn)	286	346	125	376	84	3,391	NL
Nickel (Ni)	ND	ND	28	2	73	NA	100
Potassium (K)	19,400	19,500	22,300	45,700	NA	NA	NL
Sodium (Na)	12,600	14,300	26,700	514,000	NA	NA	NL
Thallium (Tl)	ND	ND	ND	4	0	8	2
Vanadium (V)	ND	ND	6	ND	26	NA	NL
Zinc (Zn)	ND	ND	63	ND	1,100	NA	NL

Note:
NA = Not applicable
ND = Not detected at or above the method detection limit
NL = Not listed
NS = Not sampled

Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
SWMU 13

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCH013002							
Inorganic Chemicals (mg/L)							
Aluminum (Al)	ND	ND	12	ND	3,700	NA	NL
Barium (Ba)	ND	10	19	14	260	323	2,000
Calcium (Ca)	148,000	136,000	148,000	139,000	NA	NA	NL
Iron (Fe)	4,120	4,260	3,290	2,440	1,100	NA	NL
Magnesium (Mg)	58,700	66,700	62,100	49,900	NA	NA	NL
Manganese (Mn)	925	780	751	534	84	3,391	NL
Nickel (Ni)	ND	ND	ND	1	73	NA	100
Potassium (K)	59,800	63,500	69,200	67,600	NA	NA	NL
Sodium (Na)	318,000	370,000	301,000	216,000	NA	NA	NL
Vanadium (V)	ND	ND	6	ND	26	NA	NL

Note:
NA = Not applicable
ND = Not detected at or above the method detection limit
NL = Not listed
NS = Not sampled

Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
SWMU 13

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCH013003							
Inorganic Chemicals (mg/L)							
Aluminum (Al)	ND	22	15	ND	3,700	NA	NL
Arsenic (As)	ND	ND	3	ND	0	28	50
Barium (Ba)	ND	ND	5	ND	260	323	2,000
Beryllium (Be)	ND	ND	0	ND	0	0	4
Calcium (Ca)	79,300	41,200	59,600	ND	NA	NA	NL
Copper (Cu)	ND	ND	5	ND	150	140	1,300
Iron (Fe)	1,830	509	887	1,560	1,100	NA	NL
Magnesium (Mg)	3,680	8,320	2,340	ND	NA	NA	NL
Manganese (Mn)	82	51	68	50	84	3,391	NL
Potassium (K)	2,940	7,570	2,540	ND	NA	NA	NL
Sodium (Na)	5,140	76,000	6,840	ND	NA	NA	NL
Vanadium (V)	ND	ND	6	ND	26	NA	NL

Note:
NA = Not applicable
ND = Not detected at or above the method detection limit
NL = Not listed
NS = Not sampled

Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
SWMU 13

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCH013004							
Inorganic Chemicals (mg/L)							
Arsenic (As)	ND	ND	4	ND	0	28	50
Barium (Ba)	ND	1	10	ND	260	323	2,000
Cadmium (Cd)	ND	ND	2	ND	2	2	5
Calcium (Ca)	102,000	115,000	93,200	111,000	NA	NA	NL
Iron (Fe)	190	95	3,300	ND	1,100	NA	NL
Magnesium (Mg)	22,900	16,300	17,500	51,100	NA	NA	NL
Manganese (Mn)	106	75	69	71	84	3,391	NL
Nickel (Ni)	ND	ND	ND	2	73	NA	100
Potassium (K)	14,500	10,000	12,700	24,700	NA	NA	NL
Sodium (Na)	108,000	68,400	99,300	403,000	NA	NA	NL
Vanadium (V)	ND	ND	8	ND	26	NA	NL
Semi-volatile Organic Compounds (µg/L)							
bis(2-Ethylhexyl)phthalate (BEHP)	ND	ND	ND	59	5	NA	NL

Note:
NA = Not applicable
ND = Not detected at or above the method detection limit
NL = Not listed
NS = Not sampled

Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
SWMU 13

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCH013005							
Inorganic Chemicals (mg/L)							
Arsenic (As)	ND	ND	4	3	0	28	50
Barium (Ba)	ND	5	13	ND	260	323	2,000
Beryllium (Be)	ND	0	ND	ND	0	0	4
Cadmium (Cd)	ND	ND	2	ND	2	2	5
Calcium (Ca)	112,000	116,000	95,900	115,000	NA	NA	NL
Iron (Fe)	713	799	1,800	3,080	1,100	NA	NL
Magnesium (Mg)	78,700	20,300	32,000	19,700	NA	NA	NL
Manganese (Mn)	145	154	136	114	84	3,391	NL
Nickel (Ni)	ND	ND	ND	1	73	NA	100
Potassium (K)	51,000	19,300	33,200	18,200	NA	NA	NL
Selenium (Se)	ND	5	ND	ND	18	3	50
Sodium (Na)	304,000	35,100	140,000	ND	NA	NA	NL
Vanadium (V)	ND	ND	4	1	26	NA	NL
Semi-volatile Organic Compounds (µg/L)							
Benzoic acid	ND	ND	ND	1	15,000	NA	NL

Note:
NA = Not applicable
ND = Not detected at or above the method detection limit
NL = Not listed
NS = Not sampled

Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
SWMU 13

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCH013006							
Inorganic Chemicals (mg/L)							
Aluminum (Al)	ND	ND	24	ND	3,700	NA	NL
Arsenic (As)	ND	ND	3	4	0	28	50
Barium (Ba)	ND	6	34	ND	260	323	2,000
Calcium (Ca)	97,700	99,400	109,000	103,000	NA	NA	NL
Iron (Fe)	188	691	406	1,820	1,100	NA	NL
Magnesium (Mg)	7,490	27,000	10,300	37,700	NA	NA	NL
Manganese (Mn)	63	111	53	144	84	3,391	NL
Potassium (K)	10,000	20,600	12,400	32,700	NA	NA	NL
Selenium (Se)	ND	4	ND	3	18	3	50
Sodium (Na)	11,100	112,000	23,400	238,000	NA	NA	NL
Vanadium (V)	ND	ND	4	2	26	NA	NL
Zinc (Zn)	ND	20	25	ND	1,100	NA	NL

Note:
NA = Not applicable
ND = Not detected at or above the method detection limit
NL = Not listed
NS = Not sampled

Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
SWMU 13

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCH013007							
Inorganic Chemicals (mg/L)							
Barium (Ba)	ND	21	25	ND	260	323	2,000
Cadmium (Cd)	ND	ND	2	ND	2	2	5
Calcium (Ca)	112,000	120,500	122,500	127,000	NA	NA	NL
Cobalt (Co)	ND	4	ND	ND	220	NA	NL
Iron (Fe)	2,310	4,490	3,410	5,235	1,100	NA	NL
Magnesium (Mg)	23,500	26,200	25,050	26,000	NA	NA	NL
Manganese (Mn)	879	862	764	915	84	3,391	NL
Potassium (K)	36,800	32,950	40,100	34,550	NA	NA	NL
Sodium (Na)	52,700	58,550	58,150	ND	NA	NA	NL
Vanadium (V)	ND	ND	4	1	26	NA	NL
Pesticide/PCB Compounds (µg/L)							
4,4'-DDT	0	ND	ND	ND	0	NA	NL
Semi-volatile Organic Compounds (µg/L)							
Acenaphthene	2	3	ND	1	220	NA	NL
Butylbenzylphthalate	2	ND	ND	ND	730	NA	NL
bis(2-Ethylhexyl)phthalate (BEHP)	ND	ND	ND	2	5	NA	NL
Fluorene	ND	4	ND	2	150	NA	NL
2-Methylnaphthalene	ND	3	ND	1	150	NA	NL
Phenanthrene	4	ND	ND	ND	150	NA	NL

Note:
NA = Not applicable
ND = Not detected at or above the method detection limit
NL = Not listed
NS = Not sampled

Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
SWMU 14

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCH014001							
Dioxins (pg/L)							
Dioxin Equiv	5	NS	0	0	0	NA	NL
Inorganic Chemicals (mg/L)							
Aluminum (Al)	NS	15,500	865	467	3,700	NA	NL
Arsenic (As)	1	ND	4	ND	0	28	50
Cadmium (Cd)	ND	ND	2	ND	2	2	5
Calcium (Ca)	NS	252,000	320,000	214,000	NA	NA	NL
Chromium (Cr)	ND	44	ND	2	18	18	100
Iron (Fe)	NS	38,400	4,620	2,900	1,100	NA	NL
Lead (Pb)	3	20	2	ND	15	5	15
Magnesium (Mg)	NS	119,000	126,000	382,000	NA	NA	NL
Manganese (Mn)	NS	2,350	2,680	1,250	84	3,391	NL
Nickel (Ni)	ND	ND	ND	2	73	NA	100
Potassium (K)	NS	48,400	50,400	223,000	NA	NA	NL
Sodium (Na)	NS	725,000	445,000	4,250,000	NA	NA	NL
Vanadium (V)	ND	65	ND	3	26	NA	NL
Zinc (Zn)	ND	83	ND	ND	1,100	NA	NL
Semi-volatile Organic Compounds (µg/L)							
bis(2-Ethylhexyl)phthalate (BEHP)	2	NS	ND	ND	5	NA	NL
Volatile Organic Compounds (µg/L)							
Carbon disulfide	ND	ND	13	ND	100	NA	NL
Water Quality Related Compounds							
Chemical Oxygen Demand (mg/L)	130	NS	NS	NS	NA	NA	NL
Alkalinity (as CaCO3) (mg Ca)	1,300	NS	NS	NS	NA	NA	NL
Ammonia (as N) (mg/L)	12	NS	NS	NS	100	NA	NL
DCAA (mg/L)	NS	84	ND	ND	NA	NA	NL
Total BOD5 (mg/L)	5	NS	NS	NS	NA	NA	NL
Total Dissolved Solids (TDS) (mg/L)	7,800	NS	NS	NS	NA	NA	NL
Total Hardness (mg Ca)	2,200	NS	NS	NS	NA	NA	NL
Total Organic Carbon (TOC) (mg/L)	34	NS	NS	NS	NA	NA	NL
Total phosphorus (mg/L)	2	NS	NS	NS	NA	NA	NL
Total Suspended Solids (TSS) (mg/L)	120	NS	NS	NS	NA	NA	NL

Note:
NA = Not applicable
ND = Not detected at or above the method detection limit
NL = Not listed
NS = Not sampled

Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
SWMU 14

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCH014002							
Dioxins (pg/L)							
Dioxin Equiv.	10	NS	NS	0	0	NA	NL
Inorganic Chemicals (mg/L)							
Aluminum (Al)	NS	3,100	66	5,470	3,700	NA	NL
Arsenic (As)	1	ND	5	ND	0	28	50
Barium (Ba)	ND	ND	45	ND	260	323	2,000
Calcium (Ca)	NS	235,000	309,500	224,000	NA	NA	NL
Chromium (Cr)	ND	ND	ND	14	18	18	100
Cobalt (Co)	ND	ND	ND	2	220	NA	NL
Copper (Cu)	ND	ND	ND	6	150	140	1,300
Iron (Fe)	NS	14,100	7,090	11,200	1,100	NA	NL
Lead (Pb)	1	ND	ND	3	15	5	15
Magnesium (Mg)	NS	131,000	142,500	246,000	NA	NA	NL
Manganese (Mn)	NS	2,040	2,240	1,320	84	3,391	NL
Nickel (Ni)	ND	ND	ND	4	73	NA	100
Potassium (K)	NS	46,700	56,100	73,100	NA	NA	NL
Silver (Ag)	ND	ND	3	ND	18	NA	NL
Sodium (Na)	NS	450,000	450,000	1,720,000	NA	NA	NL
Thallium (Tl)	ND	ND	ND	5	0	8	200
Vanadium (V)	ND	ND	ND	17	26	NA	NL
Semi-volatile Organic Compounds (µg/L)							
bis(2-Ethylhexyl)phthalate (BEHP)	12	NS	ND	ND	5	NA	NL
4-Methylphenol (p-Cresol)	ND	NS	7	5	18	NA	NL
Volatile Organic Compounds (µg/L)							
Acetone	ND	ND	ND	5	370	NA	NL
Carbon disulfide	ND	ND	ND	1	100	NA	NL
1,2-Dichloroethene (total)	NS	ND	ND	13	6	NA	70
1,1-Dichloroethene	ND	ND	ND	1	0	NA	7
Ethylbenzene	ND	ND	ND	2	130	NA	700
Methylene chloride	ND	ND	ND	10	4	NA	5
Trichloroethene	ND	ND	ND	4	2	NA	5
Xylene (Total)	ND	ND	ND	14	1,200	NA	10,000

Note:
NA = Not applicable
ND = Not detected at or above the method detection limit
NL = Not listed
NS = Not sampled

Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
SWMU 14

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Water Quality Related Compounds							
DCAA (mg/L)	NS	103	ND	ND	NA	NA	NL

Note:
NA = Not applicable
ND = Not detected at or above the method detection limit
NL = Not listed
NS = Not sampled

Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
SWMU 14

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCH014003							
Dioxins (pg/L)							
Dioxin Equiv	1	NS	NS	ND	0	NA	NL
Inorganic Chemicals (mg/L)							
Aluminum (Al)	NS	462	70	718	3,700	NA	NL
Arsenic (As)	8	ND	6	ND	0	28	50
Barium (Ba)	166	44	72	87	260	323	2,000
Calcium (Ca)	NS	238,000	227,000	213,000	NA	NA	NL
Chromium (Cr)	ND	ND	ND	2	18	18	100
Iron (Fe)	NS	22,900	19,500	22,300	1,100	NA	NL
Lead (Pb)	1	ND	ND	ND	15	5	15
Magnesium (Mg)	NS	190,000	190,000	220,000	NA	NA	NL
Manganese (Mn)	NS	896	760	782	84	3,391	NL
Nickel (Ni)	ND	ND	ND	2	73	NA	100
Potassium (K)	NS	66,000	82,300	111,000	NA	NA	NL
Selenium (Se)	2	ND	ND	ND	18	3	50
Sodium (Na)	NS	1,090,000	1,230,000	1,650,000	NA	NA	NL
Thallium (Tl)	ND	ND	ND	3	0	8	2
Vanadium (V)	ND	ND	ND	0	26	NA	NL
Semi-volatile Organic Compounds (µg/L)							
bis(2-Ethylhexyl)phthalate (BEHP)	5	NS	ND	2	5	NA	NL
Water Quality Related Compounds							
DCAA (mg/L)	NS	82	ND	ND	NA	NA	NL

Note:
NA = Not applicable
ND = Not detected at or above the method detection limit
NL = Not listed
NS = Not sampled

Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
SWMU 14

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCH014004							
Inorganic Chemicals (mg/L)							
Aluminum (Al)	NS	ND	24	522	3,700	NA	NL
Arsenic (As)	4	ND	ND	ND	0	28	50
Barium (Ba)	84	56	98	41	260	323	2,000
Calcium (Ca)	NS	74,600	102,000	55,200	NA	NA	NL
Chromium (Cr)	ND	ND	ND	3	18	18	100
Iron (Fe)	NS	2,130	8,400	4,550	1,100	NA	NL
Lead (Pb)	4	ND	ND	ND	15	5	15
Magnesium (Mg)	NS	122,000	85,900	19,000	NA	NA	NL
Manganese (Mn)	NS	77	93	40	84	3,391	NL
Nickel (Ni)	ND	ND	ND	1	73	NA	100
Potassium (K)	NS	38,000	34,300	12,400	NA	NA	NL
Selenium (Se)	1	ND	ND	ND	18	3	50
Silver (Ag)	ND	ND	2	ND	18	NA	NL
Sodium (Na)	NS	1,100,000	744,000	177,000	NA	NA	NL
Vanadium (V)	ND	ND	ND	1	26	NA	NL
Semi-volatile Organic Compounds (µg/L)							
Butylbenzylphthalate	ND	NS	3	ND	730	NA	NL
bis(2-Ethylhexyl)phthalate (BEHP)	6	NS	ND	ND	5	NA	NL
Water Quality Related Compounds							
DCAA (mg/L)	NS	85	ND	ND	NA	NA	NL

Note:
NA = Not applicable
ND = Not detected at or above the method detection limit
NL = Not listed
NS = Not sampled

Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
SWMU 14

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCH014005							
Dioxins (pg/L)							
Dioxin Equiv	0	NS	NS	ND	0	NA	NL
Inorganic Chemicals (mg/L)							
Arsenic (As)	7	ND	9	ND	0	28	50
Barium (Ba)	ND	ND	35	31	260	323	2,000
Beryllium (Be)	ND	ND	ND	2	0	0	4
Calcium (Ca)	NS	117,000	130,000	118,500	NA	NA	NL
Chromium (Cr)	ND	ND	ND	1	18	18	100
Cobalt (Co)	ND	ND	2	ND	220	NA	NL
Iron (Fe)	NS	5,390	5,600	5,300	1,100	NA	NL
Lead (Pb)	5	ND	ND	ND	15	5	15
Magnesium (Mg)	NS	156,000	150,000	140,000	NA	NA	NL
Manganese (Mn)	NS	513	510	483	84	3,391	NL
Mercury (Hg)	ND	ND	0	ND	1	NA	2
Nickel (Ni)	ND	ND	ND	2	73	NA	100
Potassium (K)	NS	59,900	69,000	79,350	NA	NA	NL
Selenium (Se)	1	ND	ND	ND	18	3	50
Sodium (Na)	NS	1,270,000	1,170,000	1,095,000	NA	NA	NL
Vanadium (V)	ND	ND	6	3	26	NA	NL
Semi-volatile Organic Compounds (µg/L)							
Butylbenzylphthalate	ND	NS	ND	6	730	NA	NL
bis(2-Ethylhexyl)phthalate (BEHP)	2	NS	ND	220	5	NA	NL
Water Quality Related Compounds							
DCAA (mg/L)	NS	92	ND	ND	NA	NA	NL

Note:
NA = Not applicable
ND = Not detected at or above the method detection limit
NL = Not listed
NS = Not sampled

Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
SWMU 14

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCH01401D							
Dioxins (pg/L)							
Dioxin Equiv	1	NS	1	3	0	NA	NL
Inorganic Chemicals (mg/L)							
Arsenic (As)	2	ND	ND	ND	0	15	50
Barium (Ba)	89	108	120	107	260	237	2,000
Cadmium (Cd)	ND	ND	5	ND	2	NA	5
Calcium (Ca)	NS	203,000	206,000	146,000	NA	NA	NL
Chromium (Cr)	ND	ND	ND	1	18	NA	100
Cobalt (Co)	ND	ND	2	ND	220	3	NL
Lead (Pb)	2	ND	ND	ND	15	4	15
Magnesium (Mg)	NS	1,010,000	971,000	606,000	NA	NA	NL
Manganese (Mn)	NS	101	70	43	84	776	NL
Potassium (K)	NS	284,000	332,000	365,000	NA	NA	NL
Selenium (Se)	1	ND	ND	ND	18	2	50
Sodium (Na)	NS	7,800,000	7,410,000	9,500,000	NA	NA	NL
Thallium (Tl)	ND	ND	22	ND	0	NA	2
Vanadium (V)	ND	ND	5	2	26	9	NL
Semi-volatile Organic Compounds (µg/L)							
bis(2-Ethylhexyl)phthalate (BEHP)	2	NS	ND	ND	5	NA	NL
Volatile Organic Compounds (µg/L)							
Carbon disulfide	ND	ND	21	ND	100	NA	NL
Water Quality Related Compounds							
DCAA (mg/L)	NS	84	ND	ND	NA	NA	NL

Note:
NA = Not applicable
ND = Not detected at or above the method detection limit
NL = Not listed
NS = Not sampled

Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
SWMU 14

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCH01402D							
Dioxins (pg/L)							
Dioxin Equiv	2	NS	ND	ND	0	NA	NL
Inorganic Chemicals (mg/L)							
Arsenic (As)	2	ND	ND	ND	0	15	50
Barium (Ba)	268	246	256	244	260	237	2,000
Cadmium (Cd)	ND	2	4	ND	2	NA	5
Calcium (Ca)	NS	169,000	177,000	133,000	NA	NA	NL
Chromium (Cr)	ND	ND	ND	2	18	NA	100
Magnesium (Mg)	NS	971,000	934,000	597,000	NA	NA	NL
Manganese (Mn)	NS	49	50	20	84	776	NL
Nickel (Ni)	ND	ND	ND	1	73	NA	100
Potassium (K)	NS	239,000	280,000	312,000	NA	NA	NL
Selenium (Se)	2	ND	ND	ND	18	2	50
Sodium (Na)	NS	7,960,000	7,370,000	8,940,000	NA	NA	NL
Thallium (Tl)	1	ND	16	ND	0	NA	2
Vanadium (V)	ND	ND	5	1	26	9	NL
Pesticide/PCB Compounds (µg/L)							
Isodrin	11	NS	NS	NS	NA	NA	NL
Petroleum Hydrocarbons (µg/L)							
MCPP	NS	ND	310	ND	4	NA	NL
Volatile Organic Compounds (µg/L)							
Carbon disulfide	1	ND	260	2	100	NA	NL

Note:
NA = Not applicable
ND = Not detected at or above the method detection limit
NL = Not listed
NS = Not sampled

Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
SWMU 14

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Water Quality Related Compounds							
Chemical Oxygen Demand (mg/L)	630	NS	NS	NS	NA	NA	NL
Alkalinity (as CaCO3) (mg Ca)	1,900	NS	NS	NS	NA	NA	NL
Ammonia (as N) (mg/L)	42	NS	NS	NS	100	NA	NL
DCAA (mg/L)	NS	93	ND	ND	NA	NA	NL
Total BOD5 (mg/L)	40	NS	NS	NS	NA	NA	NL
Total Dissolved Solids (TDS) (mg/L)	24,000	NS	NS	NS	NA	NA	NL
Total Hardness (amg Ca)	4,500	NS	NS	NS	NA	NA	NL
Total Organic Carbon (TOC) (mg/L)	30	NS	NS	NS	NA	NA	NL
Total phosphorus (mg/L)	3	NS	NS	NS	NA	NA	NL
Total Suspended Solids (TSS) (mg/L)	31	NS	NS	NS	NA	NA	NL

Note:
NA = Not applicable
ND = Not detected at or above the method detection limit
NL = Not listed
NS = Not sampled

Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
SWMU 14

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCH01403D							
Dioxins (pg/L)							
Dioxin Equiv	0	NS	NS	ND	0	NA	NL
Inorganic Chemicals (mg/L)							
Arsenic (As)	10	6	ND	ND	0	15	50
Barium (Ba)	ND	68	71	57	260	237	2,000
Cadmium (Cd)	3	3	8	ND	2	NA	5
Calcium (Ca)	NS	189,500	203,000	126,000	NA	NA	NL
Chromium (Cr)	ND	ND	ND	2	18	NA	100
Iron (Fe)	NS	191	ND	ND	1,100	NA	NL
Magnesium (Mg)	NS	1,195,000	1,250,000	1,020,000	NA	NA	NL
Manganese (Mn)	NS	10	16	ND	84	776	NL
Nickel (Ni)	ND	ND	ND	1	73	NA	100
Potassium (K)	NS	276,500	340,000	401,000	NA	NA	NL
Selenium (Se)	2	ND	ND	ND	18	2	50
Sodium (Na)	NS	8,025,000	8,930,000	9,720,000	NA	NA	NL
Thallium (Tl)	ND	ND	18	ND	0	NA	2
Vanadium (V)	ND	ND	8	2	26	9	NL
Pesticide/PCB Compounds (µg/L)							
Heptachlor epoxide	3	ND	ND	ND	0	NA	0
Isodrin	8	NS	NS	NS	NA	NA	NL
Parathion	1	NS	NS	NS	22	NA	NL
2,4,5-T	ND	2	ND	ND	37	NA	NL
Semi-volatile Organic Compounds (µg/L)							
bis(2-Ethylhexyl)phthalate (BEHP)	8	NS	ND	ND	5	NA	NL
Volatile Organic Compounds (µg/L)							
Acetone	ND	ND	ND	10	370	NA	NL
Carbon disulfide	1	3	300	ND	100	NA	NL
Water Quality Related Compounds							
DCAA (mg/L)	NS	117	ND	ND	NA	NA	NL

Note:
NA = Not applicable
ND = Not detected at or above the method detection limit
NL = Not listed
NS = Not sampled

Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
SWMU 14

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCH01404D							
Dioxins (pg/L)							
Dioxin Equiv	0	NS	NS	ND	0	NA	NL
Inorganic Chemicals (mg/L)							
Arsenic (As)	4	ND	ND	ND	0	15	50
Barium (Ba)	121	62	99	49	260	237	2,000
Cadmium (Cd)	ND	2	5	ND	2	NA	5
Calcium (Ca)	NS	221,000	225,000	164,000	NA	NA	NL
Chromium (Cr)	ND	ND	5	2	18	NA	100
Iron (Fe)	NS	ND	68	ND	1,100	NA	NL
Lead (Pb)	1	ND	ND	ND	15	4	15
Magnesium (Mg)	NS	1,070,000	1,740,000	970,000	NA	NA	NL
Manganese (Mn)	NS	20	52	ND	84	776	NL
Nickel (Ni)	ND	ND	ND	1	73	NA	100
Potassium (K)	NS	257,000	319,000	416,000	NA	NA	NL
Selenium (Se)	1	ND	ND	ND	18	2	50
Sodium (Na)	NS	7,940,000	7,900,000	9,870,000	NA	NA	NL
Thallium (Tl)	ND	ND	22	ND	0	NA	2
Vanadium (V)	ND	ND	7	2	26	9	NL
Zinc (Zn)	ND	ND	31	ND	1,100	NA	NL
Pesticide/PCB Compounds (µg/L)							
2,4-D	2	ND	ND	ND	6	NA	NL
2,4,5-T	0	ND	ND	ND	37	NA	NL
Semi-volatile Organic Compounds (µg/L)							
bis(2-Ethylhexyl)phthalate (BEHP)	ND	NS	740	ND	5	NA	NL
Volatile Organic Compounds (µg/L)							
Carbon disulfide	4	ND	110	2	100	NA	NL
Chloroform	2	ND	ND	ND	0	NA	100
Water Quality Related Compounds							
DCAA (mg/L)	NS	94	ND	ND	NA	NA	NL

Note:
NA = Not applicable
ND = Not detected at or above the method detection limit
NL = Not listed
NS = Not sampled

Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
SWMU 14

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCH01405D							
Dioxins (pg/L)							
Dioxin Equiv	2	NS	ND	ND	0	NA	NL
Inorganic Chemicals (mg/L)							
Arsenic (As)	1	ND	ND	ND	0	15	50
Barium (Ba)	132	105	133	109	260	237	2,000
Cadmium (Cd)	ND	ND	5	ND	2	NA	5
Calcium (Ca)	NS	169,000	185,000	124,000	NA	NA	NL
Chromium (Cr)	ND	ND	ND	1	18	NA	100
Iron (Fe)	NS	408	ND	ND	1,100	NA	NL
Lead (Pb)	8	ND	ND	ND	15	4	15
Magnesium (Mg)	NS	869,000	977,000	555,000	NA	NA	NL
Manganese (Mn)	NS	109	71	30	84	776	NL
Nickel (Ni)	ND	ND	ND	1	73	NA	100
Potassium (K)	NS	222,000	292,000	395,000	NA	NA	NL
Sodium (Na)	NS	6,740,000	7,310,000	8,140,000	NA	NA	NL
Thallium (Tl)	1	ND	29	5	0	NA	2
Vanadium (V)	ND	ND	10	3	26	9	NL
Pesticide/PCB Compounds (µg/L)							
2,4,5-TP (Silvex)	1	ND	ND	ND	29	NA	50
Semi-volatile Organic Compounds (µg/L)							
Benzoic acid	NS	NS	ND	1	15,000	NA	NL
Volatile Organic Compounds (µg/L)							
Carbon disulfide	2	ND	110	4	100	NA	NL
Water Quality Related Compounds							
DCAA (mg/L)	NS	90	ND	ND	NA	NA	NL

Note:
ND = Not detected at or above the method detection limit
NA = Not applicable
NL = Not listed
NS = Not sampled

Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
SWMU 17

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCH017001							
Inorganic Chemicals (mg/L)							
Aluminum (Al)	ND	34	ND	ND	3,700	NA	NL
Arsenic (As)	ND	ND	6	17	0	28	50
Barium (Ba)	ND	3	8	ND	260	323	2,000
Beryllium (Be)	ND	ND	0	ND	0	0	4
Calcium (Ca)	136,000	112,000	130,000	119,000	NA	NA	NL
Chromium (Cr)	ND	40	5	1	18	18	100
Cyanide, Total (9012)	NS	NS	2,000	NS	NA	NA	NL
Iron (Fe)	3,680	3,860	2,500	2,250	1,100	NA	NL
Magnesium (Mg)	10,100	13,500	9,760	9,440	NA	NA	NL
Manganese (Mn)	630	670	636	544	84	3,391	NL
Potassium (K)	8,490	9,690	10,200	8,640	NA	NA	NL
Sodium (Na)	10,900	23,200	10,500	ND	NA	NA	NL
Vanadium (V)	ND	ND	6	6	26	NA	NL
Zinc (Zn)	ND	ND	4	ND	1,100	NA	NL
Semi-volatile Organic Compounds (µg/L)							
2-Methylnaphthalene	4	ND	ND	ND	150	NA	NL
Naphthalene	6	ND	ND	ND	150	NA	NL

Note:
ND = Not detected at or above the method detection limit
NA = Not applicable
NL = Not listed
NS = Not sampled

Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
SWMU 17

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCH017002							
Inorganic Chemicals (mg/L)							
Aluminum (Al)	ND	ND	27	ND	3,700	NA	NL
Arsenic (As)	ND	3	4	ND	0	28	50
Barium (Ba)	15	19	24	ND	260	323	2,000
Cadmium (Cd)	ND	ND	2	ND	2	2	5
Calcium (Ca)	81,700	53,900	54,300	57,900	NA	NA	NL
Cyanide, Total (9012)	NS	NS	4,500	NS	NA	NA	NL
Iron (Fe)	7,320	2,890	3,560	2,370	1,100	NA	NL
Magnesium (Mg)	46,300	45,700	43,600	58,000	NA	NA	NL
Manganese (Mn)	526	142	204	141	84	3,391	NL
Potassium (K)	34,300	13,350	34,600	34,900	NA	NA	NL
Sodium (Na)	306,000	292,000	315,000	468,000	NA	NA	NL
Thallium (Tl)	ND	ND	ND	3	0	8	2
Tin (Sn)	NS	NS	NS	3	2,200	NA	NL
Pesticide/PCB Compounds (µg/L)							
Aroclor-1260	ND	NS	520	ND	0	NA	1
Heptachlor	ND	NS	NS	0	0	NA	0
Petroleum Hydrocarbons (µg/L)							
Gasoline	NS	NS	2,400	NS	NA	NA	NL
Semi-volatile Organic Compounds (µg/L)							
1,4-Dichlorobenzene	1,100	830	1,300	780	0	NA	75
1,3-Dichlorobenzene	750	550	800	380	54	NA	600
1,2-Dichlorobenzene	110	55	100	33	27	NA	600
bis(2-Ethylhexyl)phthalate (BEHP)	ND	ND	140	ND	5	NA	NL
2,4,5-Trichlorophenol	ND	19	ND	ND	370	NA	NL

Note:
ND = Not detected at or above the method detection limit
NA = Not applicable
NL = Not listed
NS = Not sampled

Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
SWMU 17

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Volatile Organic Compounds (µg/L)							
Acetone	ND	ND	750	ND	370	NA	NL
Benzene	ND	ND	ND	54	0	NA	5
Chlorobenzene	ND	4,750	3,900	3,600	4	NA	NL
Methylene chloride	ND	520	240	ND	4	NA	5
1,2,4-Trichlorobenzene	1,000	520	1,400	540	19	NA	70
Water Quality Related Compounds							
Chemical Oxygen Demand (mg/L)	73	NS	NS	NS	NA	NA	NL
Alkalinity (as CaCO3) (mg Ca)	650	NS	NS	NS	NA	NA	NL
Ammonia (as N) (mg/L)	6	NS	NS	NS	100	NA	NL
Total Dissolved Solids (TDS) (mg/l0	1,200	NS	NS	NS	NA	NA	NL
Total Hardness (mg Ca0	350	NS	NS	NS	NA	NA	NL
Total Organic Carbon (TOC) (mg/L)	16	NS	NS	NS	NA	NA	NL
Total phosphorus (mg/L)	1	NS	NS	NS	NA	NA	NL

Note:
ND = Not detected at or above the method detection limit
NA = Not applicable
NL = Not listed
NS = Not sampled

Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
SWMU 17

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCH017003							
Inorganic Chemicals (mg/L)							
Aluminum (Al)	36	ND	72	ND	3,700	NA	NL
Arsenic (As)	ND	ND	3	8	0	28	50
Barium (Ba)	6	16	31	ND	260	323	2,000
Calcium (Ca)	179,000	134,000	216,000	161,000	NA	NA	NL
Cobalt (Co)	ND	ND	2	ND	220	NA	NL
Copper (Cu)	3	ND	ND	ND	150	140	1,300
Iron (Fe)	987	1,600	1,480	5,230	1,100	NA	NL
Magnesium (Mg)	13,400	21,100	14,200	26,700	NA	NA	NL
Manganese (Mn)	86	86	81	139	84	3,391	NL
Nickel (Ni)	ND	ND	ND	1	73	NA	100
Potassium (K)	11,100	15,100	12,500	18,100	NA	NA	NL
Selenium (Se)	ND	4	ND	ND	18	3	50
Sodium (Na)	80,100	116,000	82,200	147,000	NA	NA	NL
Vanadium (V)	ND	ND	7	10	26	NA	NL
Zinc (Zn)	ND	25	ND	ND	1,100	NA	NL
Petroleum Hydrocarbons (µg/L)							
Gasoline	NS	NS	NS	10	NA	NA	NL
Semi-volatile Organic Compounds (µg/L)							
Benzoic acid	ND	ND	ND	3	15,000	NA	NL
Volatile Organic Compounds (µg/L)							
Benzene	ND	ND	ND	16	0	NA	5
Chlorobenzene	ND	4	5	69	4	NA	NL

Note:
ND = Not detected at or above the method detection limit
NA = Not applicable
NL = Not listed
NS = Not sampled

Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
SWMU 17

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCH017004							
Inorganic Chemicals (mg/L)							
Aluminum (Al)	60	ND	ND	ND	3,700	NA	NL
Arsenic (As)	ND	5	3	5	0	28	50
Barium (Ba)	11	17	59	ND	260	323	2,000
Calcium (Ca)	118,000	109,000	145,000	143,000	NA	NA	NL
Cobalt (Co)	ND	3	ND	ND	220	NA	NL
Copper (Cu)	ND	ND	5	ND	150	140	1,300
Iron (Fe)	2,790	2,790	2,540	3,770	1,100	NA	NL
Magnesium (Mg)	24,200	41,400	18,600	32,100	NA	NA	NL
Manganese (Mn)	424	896	410	569	84	3,391	NL
Potassium (K)	13,200	17,200	9,190	13,700	NA	NA	NL
Sodium (Na)	81,000	167,000	73,100	148,000	NA	NA	NL
Vanadium (V)	ND	3	ND	1	26	NA	NL
Semi-volatile Organic Compounds (µg/L)							
Di-n-octyl phthalate	ND	ND	3	ND	73	NA	NL
Volatile Organic Compounds (µg/L)							
Acetone	ND	ND	180	ND	370	NA	NL
Methylene chloride	ND	ND	16	ND	4	NA	5
Toluene	ND	ND	26	ND	75	NA	1,000

Note:
ND = Not detected at or above the method detection limit
NA = Not applicable
NL = Not listed
NS = Not sampled

Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
SWMU 17

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCH017005							
Inorganic Chemicals (mg/L)							
Arsenic (As)	NS	ND	2	ND	0	28	50
Barium (Ba)	NS	ND	38	ND	260	323	2,000
Calcium (Ca)	NS	152,000	114,000	122,000	NA	NA	NL
Iron (Fe)	NS	1,090	1,930	6,020	1,100	NA	NL
Magnesium (Mg)	NS	156,000	146,000	147,000	NA	NA	NL
Manganese (Mn)	NS	227	298	280	84	3,391	NL
Potassium (K)	NS	63,800	77,300	90,100	NA	NA	NL
Sodium (Na)	NS	1,340,000	1,440,000	1,380,000	NA	NA	NL
Vanadium (V)	NS	ND	4	ND	26	NA	NL
Semi-volatile Organic Compounds (µg/L)							
Benzidine	NS	56	ND	NS	0	NA	NL
Benzoic acid	NS	ND	ND	1	15,000	NA	NL
Di-n-butylphthalate	NS	3	ND	ND	370	NA	NL
bis(2-Ethylhexyl)phthalate (BEHP)	NS	3	ND	ND	5	NA	NL
Volatile Organic Compounds (µg/L)							
Acetone	NS	18	360	ND	370	NA	NL
Chlorobenzene	NS	3	ND	ND	4	NA	NL
Water Quality Related Compounds							
Chloride (mg/L)	NS	NS	1,900	NS	NA	NA	NL

Note:
ND = Not detected at or above the method detection limit
NA = Not applicable
NL = Not listed
NS = Not sampled

Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
SWMU 17

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCH017006							
Inorganic Chemicals (mg/L)							
Aluminum (Al)	NS	522	ND	ND	3,700	NA	NL
Arsenic (As)	NS	ND	ND	3	0	28	50
Barium (Ba)	NS	ND	24	ND	260	323	2,000
Calcium (Ca)	NS	87,600	61,000	74,000	NA	NA	NL
Iron (Fe)	NS	1,350	1,460	1,240	1,100	NA	NL
Magnesium (Mg)	NS	123,000	118,000	138,000	NA	NA	NL
Manganese (Mn)	NS	73	66	47	84	3,391	NL
Potassium (K)	NS	62,900	74,100	90,000	NA	NA	NL
Sodium (Na)	NS	1,300,000	1,390,000	1,210,000	NA	NA	NL
Tin (Sn)	NS	NS	NS	3	2,200	NA	NL
Vanadium (V)	NS	ND	ND	4	26	NA	NL
Semi-volatile Organic Compounds (µg/L)							
Benzoic acid	NS	ND	ND	1	15,000	NA	NL
Di-n-butylphthalate	NS	3	ND	ND	370	NA	NL
bis(2-Ethylhexyl)phthalate (BEHP)	NS	4	ND	ND	5	NA	NL
Water Quality Related Compounds							
Chloride (mg/L)	NS	NS	1,600	NS	NA	NA	NL

Note:
ND = Not detected at or above the method detection limit
NA = Not applicable
NL = Not listed
NS = Not sampled

Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
SWMU 178

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCH178001							
Inorganic Chemicals (mg/L)							
Aluminum (Al)	ND	ND	679	980	3,700	NA	NL
Arsenic (As)	ND	ND	4	5	0	28	50
Beryllium (Be)	ND	ND	ND	0	0	0	4
Calcium (Ca)	267,000	66,900	72,800	59,800	NA	NA	NL
Chromium (Cr)	ND	ND	ND	2	18	18	100
Iron (Fe)	365	989	1,720	874	1,100	NA	NL
Magnesium (Mg)	65,700	106,000	87,500	91,700	NA	NA	NL
Manganese (Mn)	158	13	ND	15	84	3,391	NL
Potassium (K)	33,800	64,550	56,300	57,100	NA	NA	NL
Sodium (Na)	259,000	841,500	657,000	709,000	NA	NA	NL
Tin (Sn)	NS	NS	NS	4	2,200	NA	NL
Semi-volatile Organic Compounds (µg/L)							
bis(2-Ethylhexyl)phthalate (BEHP)	ND	530	290	ND	5	NA	NL

Note:
ND = Not detected at or above the method detection limit
NA = Not applicable
NL = Not listed
NS = Not sampled

Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
SWMU 178

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCH178002							
Inorganic Chemicals (mg/L)							
Aluminum (Al)	16	140	ND	ND	3,700	NA	NL
Arsenic (As)	ND	5	5	5	0	28	50
Barium (Ba)	3	5	ND	ND	260	323	2,000
Calcium (Ca)	37,100	33,450	33,000	37,300	NA	NA	NL
Chromium (Cr)	ND	3	ND	ND	18	18	100
Iron (Fe)	301	352	624	635	1,100	NA	NL
Magnesium (Mg)	31,400	30,750	27,700	29,400	NA	NA	NL
Manganese (Mn)	13	20	ND	15	84	3,391	NL
Nickel (Ni)	ND	7	ND	ND	73	NA	100
Potassium (K)	20,700	18,950	20,400	17,200	NA	NA	NL
Sodium (Na)	113,000	110,500	94,000	ND	NA	NA	NL
Vanadium (V)	ND	5	ND	ND	26	NA	NL

Note:
ND = Not detected at or above the method detection limit
NA = Not applicable
NL = Not listed
NS = Not sampled

Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
AOC 653

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCH653001							
Inorganic Chemicals (mg/L)							
Aluminum (Al)	ND	189	ND	ND	3,700	NA	NL
Arsenic (As)	ND	37	54	45	0	28	50
Calcium (Ca)	108,000	94,200	100,000	107,000	NA	NA	NL
Iron (Fe)	9,280	10,550	11,500	14,500	1,100	NA	NL
Magnesium (Mg)	86,200	66,850	64,300	65,000	NA	NA	NL
Manganese (Mn)	672	680	719	779	84	3,391	NL
Potassium (K)	58,200	37,850	45,600	36,100	NA	NA	NL
Selenium (Se)	1	ND	ND	ND	18	3	50
Sodium (Na)	598,000	476,500	501,000	453,000	NA	NA	NL
Thallium (Tl)	1	ND	ND	3	0	8	2
Pesticide/PCB Compounds (µg/L)							
4,4'-DDT	0	ND	ND	ND	0	NA	NL
Semi-volatile Organic Compounds (µg/L)							
bis(2-Ethylhexyl)phthalate (BEHP)	ND	3	ND	ND	5	NA	NL

Note:
ND = Not detected at or above the method detection limit
NA = Not applicable
NL = Not listed
NS = Not sampled

Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
AOC 653

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCH653002							
Inorganic Chemicals (mg/L)							
Aluminum (Al)	ND	248	ND	ND	3,700	NA	NL
Arsenic (As)	ND	ND	23	10	0	28	50
Calcium (Ca)	44,300	56,700	57,300	77,500	NA	NA	NL
Iron (Fe)	6,230	9,510	8,120	8,850	1,100	NA	NL
Magnesium (Mg)	59,900	60,600	48,900	68,100	NA	NA	NL
Manganese (Mn)	91	128	109	154	84	3,391	NL
Potassium (K)	52,300	44,300	42,000	44,700	NA	NA	NL
Selenium (Se)	1	ND	ND	ND	18	3	50
Sodium (Na)	707,000	539,000	370,000	524,000	NA	NA	NL
Vanadium (V)	5	ND	ND	ND	26	NA	NL
Semi-volatile Organic Compounds (µg/L)							
Benzoic acid	ND	ND	ND	1	15,000	NA	NL

Note:
ND = Not detected at or above the method detection limit
NA = Not applicable
NL = Not listed
NS = Not sampled

Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
AOC 655

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCH655001							
Inorganic Chemicals (mg/L)							
Aluminum (Al)	1,040	27	ND	ND	3,700	NA	NL
Arsenic (As)	ND	ND	7	3	0	28	50
Barium (Ba)	68	77	ND	ND	260	323	2,000
Beryllium (Be)	ND	ND	ND	1	0	0	4
Calcium (Ca)	196,000	217,000	66,600	143,000	NA	NA	NL
Chromium (Cr)	ND	4	ND	1	18	18	100
Iron (Fe)	22,600	35,200	875	223	1,100	NA	NL
Magnesium (Mg)	541,000	649,000	122,000	424,000	NA	NA	NL
Manganese (Mn)	578	689	197	257	84	3,391	NL
Potassium (K)	161,000	16,900	51,200	130,000	NA	NA	NL
Sodium (Na)	3,940,000	4,570,000	1,090,000	3,630,000	NA	NA	NL
Thallium (Tl)	ND	ND	ND	3	0	8	2
Tin (Sn)	NS	NS	NS	4	2,200	NA	NL
Vanadium (V)	ND	10	ND	62	26	NA	NL
Pesticide/PCB Compounds (µg/L)							
Heptachlor	ND	ND	ND	0	0	NA	0

Note:
ND = Not detected at or above the method detection limit
NA = Not applicable
NL = Not listed
NS = Not sampled

Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
AOC 655

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCH655002							
Inorganic Chemicals (mg/L)							
Aluminum (Al)	1,750	352	743	262	3,700	NA	NL
Arsenic (As)	23	11	16	13	0	28	50
Barium (Ba)	55	47	40	ND	260	323	2,000
Calcium (Ca)	153,000	161,500	109,000	89,600	NA	NA	NL
Iron (Fe)	17,600	16,750	12,800	9,370	1,100	NA	NL
Magnesium (Mg)	255,000	315,500	190,000	93,300	NA	NA	NL
Manganese (Mn)	298	346	206	165	84	3,391	NL
Potassium (K)	76,300	90,350	67,000	38,200	NA	NA	NL
Sodium (Na)	2,140,000	2,830,000	2,000,000	1,040,000	NA	NA	NL
Vanadium (V)	10	4	5	3	26	NA	NL
Pesticide/PCB Compounds (µg/L)							
alpha-Chlordane	0	0	0	ND	0	NA	2
gamma-Chlordane	0	0	0	ND	0	NA	2

Note:
ND = Not detected at or above the method detection limit
NA = Not applicable
NL = Not listed
NS = Not sampled

Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
AOC 655

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCH655003							
Inorganic Chemicals (mg/L)							
Aluminum (Al)	ND	2,210	22	ND	3,700	NA	NL
Arsenic (As)	42	28	41	33	0	28	50
Barium (Ba)	255	211	255	ND	260	323	2,000
Beryllium (Be)	ND	ND	ND	0	0	0	4
Calcium (Ca)	179,000	166,000	126,000	157,500	NA	NA	NL
Chromium (Cr)	ND	4	ND	1	18	18	100
Iron (Fe)	45,400	39,300	31,550	21,950	1,100	NA	NL
Magnesium (Mg)	175,000	122,000	106,000	73,800	NA	NA	NL
Manganese (Mn)	437	416	321	352	84	3,391	NL
Potassium (K)	52,200	39,000	40,100	28,850	NA	NA	NL
Silver (Ag)	ND	ND	3	ND	18	NA	NL
Sodium (Na)	1,780,000	1,240,000	1,310,000	800,000	NA	NA	NL
Vanadium (V)	ND	10	6	ND	26	NA	NL
Zinc (Zn)	ND	8	18	ND	1,100	NA	NL
Semi-volatile Organic Compounds (µg/L)							
Benzoic acid	ND	ND	ND	1	15,000	NA	NL
bis(2-Ethylhexyl)phthalate (BEHP)	ND	ND	ND	2	5	NA	NL

Note:
ND = Not detected at or above the method detection limit
NA = Not applicable
NL = Not listed
NS = Not sampled

Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
AOC 656

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCH656001							
Dioxins (pg/L)							
Dioxin Equiv	2	NS	0	0	0	NA	NL
Inorganic Chemicals (mg/L)							
Aluminum (Al)	672	206	653	ND	3,700	NA	NL
Arsenic (As)	18	3	11	17	0	28	50
Barium (Ba)	ND	9	18	ND	260	323	2,000
Calcium (Ca)	80,800	68,550	81,600	ND	NA	NA	NL
Chromium (Cr)	ND	ND	ND	1	18	18	100
Iron (Fe)	7,600	5,720	8,280	8,970	1,100	NA	NL
Magnesium (Mg)	58,100	53,800	55,900	53,200	NA	NA	NL
Manganese (Mn)	153	128	156	169	84	3,391	NL
Nickel (Ni)	ND	28	ND	4	73	NA	100
Potassium (K)	35,700	31,250	39,200	33,800	NA	NA	NL
Selenium (Se)	ND	ND	2	ND	18	3	50
Sodium (Na)	479,000	418,500	341,000	394,000	NA	NA	NL
Thallium (Tl)	ND	ND	ND	4	0	8	2
Vanadium (V)	ND	3	4	ND	26	NA	NL
Zinc (Zn)	ND	19	5	ND	1,100	NA	NL
Volatile Organic Compounds (µg/L)							
Acetone	ND	ND	130	ND	370	NA	NL
Chloroform	ND	ND	ND	28	0	NA	100

Note:
ND = Not detected at or above the method detection limit
NA = Not applicable
NL = Not listed
NS = Not sampled

Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
AOC 656

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCH656002							
Inorganic Chemicals (mg/L)							
Aluminum (Al)	ND	34	46	ND	3,700	NA	NL
Arsenic (As)	ND	ND	5	ND	0	28	50
Barium (Ba)	8	13	19	ND	260	323	2,000
Calcium (Ca)	75,700	89,600	87,600	108,000	NA	NA	NL
Iron (Fe)	3,650	4,360	4,290	6,710	1,100	NA	NL
Magnesium (Mg)	58,600	72,900	66,000	76,800	NA	NA	NL
Manganese (Mn)	174	262	305	653	84	3,391	NL
Mercury (Hg)	ND	ND	0	ND	1	NA	2
Nickel (Ni)	ND	ND	ND	3	73	NA	100
Potassium (K)	39,900	37,000	44,900	45,100	NA	NA	NL
Sodium (Na)	516,000	554,000	510,000	512,000	NA	NA	NL
Thallium (Tl)	ND	ND	ND	5	0	8	2
Vanadium (V)	ND	3	ND	ND	26	NA	NL
Volatile Organic Compounds (µg/L)							
Acetone	ND	ND	35	ND	370	NA	NL

Note:
ND = Not detected at or above the method detection limit
NA = Not applicable
NL = Not listed
NS = Not sampled

Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
AOC 656

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCH656003							
Inorganic Chemicals (mg/L)							
Barium (Ba)	55	83	85	ND	260	323	2,000
Cadmium (Cd)	ND	ND	3	ND	2	2	5
Calcium (Ca)	257,000	298,000	261,000	247,000	NA	NA	NL
Chromium (Cr)	ND	2	5	8	18	18	100
Cobalt (Co)	ND	ND	2	1	220	NA	NL
Iron (Fe)	17,900	23,100	20,900	9,750	1,100	NA	NL
Magnesium (Mg)	717,000	894,000	851,000	977,000	NA	NA	NL
Manganese (Mn)	454	835	659	609	84	3,391	NL
Nickel (Ni)	ND	ND	ND	2	73	NA	100
Potassium (K)	172,000	222,000	231,000	232,000	NA	NA	NL
Sodium (Na)	5,330,000	6,230,000	6,050,000	8,700,000	NA	NA	NL
Thallium (Tl)	ND	4	23	3	0	8	2
Vanadium (V)	5	12	12	20	26	NA	NL
Volatile Organic Compounds (µg/L)							
1,1-Dichloroethane	ND	ND	ND	3	81	NA	NL
1,2-Dichloroethene (total)	ND	ND	ND	13	6	NA	70
Ethylbenzene	ND	ND	ND	2	130	NA	700
Methylene chloride	ND	ND	ND	10	4	NA	5
Xylene (Total)	ND	ND	ND	13	1,200	NA	10,000

Note:
ND = Not detected at or above the method detection limit
NA = Not applicable
NL = Not listed
NS = Not sampled

Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
AOC 660

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCH660001							
Inorganic Chemicals (mg/L)							
Aluminum (Al)	18	ND	ND	ND	3,700	NA	NL
Arsenic (As)	ND	ND	4	4	0	28	50
Barium (Ba)	2	5	ND	ND	260	323	2,000
Calcium (Ca)	60,900	55,700	55,400	96,300	NA	NA	NL
Iron (Fe)	625	556	615	593	1,100	NA	NL
Magnesium (Mg)	31,300	28,600	32,200	59,500	NA	NA	NL
Manganese (Mn)	50	62	54	58	84	3,391	NL
Potassium (K)	22,600	19,300	21,800	29,800	NA	NA	NL
Silver (Ag)	4	ND	ND	ND	18	NA	NL
Sodium (Na)	91,500	66,500	120,000	298,000	NA	NA	NL
Thallium (Tl)	ND	ND	ND	4	0	8	2
Vanadium (V)	ND	3	ND	ND	26	NA	NL

Note:
ND = Not detected at or above the method detection limit
NA = Not applicable
NL = Not listed
NS = Not sampled

Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
AOC 660

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCH660002							
Inorganic Chemicals (mg/L)							
Aluminum (Al)	26	1,940	ND	ND	3,700	NA	NL
Arsenic (As)	ND	13	6	7	0	28	50
Barium (Ba)	8	18	ND	ND	260	323	2,000
Beryllium (Be)	ND	ND	ND	0	0	0	4
Calcium (Ca)	122,000	134,000	119,000	123,000	NA	NA	NL
Chromium (Cr)	ND	3	ND	ND	18	18	100
Iron (Fe)	1,800	5,695	2,090	1,730	1,100	NA	NL
Magnesium (Mg)	23,900	23,800	23,600	21,800	NA	NA	NL
Manganese (Mn)	74	109	78	80	84	3,391	NL
Potassium (K)	21,200	18,250	21,300	17,100	NA	NA	NL
Sodium (Na)	51,300	44,950	85,300	ND	NA	NA	NL
Vanadium (V)	ND	8	ND	ND	26	NA	NL
Zinc (Zn)	ND	9	ND	ND	1,100	NA	NL

Note:
ND = Not detected at or above the method detection limit
NA = Not applicable
NL = Not listed
NS = Not sampled

Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
AOC 662

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCH662001							
Inorganic Chemicals (mg/L)							
Barium (Ba)	7	11	ND	ND	260	323	2,000
Calcium (Ca)	160,000	123,000	152,000	120,000	NA	NA	NL
Iron (Fe)	2,770	1,980	2,010	2,340	1,100	NA	NL
Lead (Pb)	1	ND	ND	ND	15	5	15
Magnesium (Mg)	66,600	94,000	36,000	74,700	NA	NA	NL
Manganese (Mn)	434	629	353	445	84	3,391	NL
Potassium (K)	30,700	41,100	15,900	31,800	NA	NA	NL
Sodium (Na)	374,000	686,000	116,000	459,000	NA	NA	NL
Thallium (Tl)	ND	ND	ND	4	0	8	2
Tin (Sn)	NS	NS	NS	3	2,200	NA	NL
Vanadium (V)	ND	3	ND	ND	26	NA	NL

Note:
ND = Not detected at or above the method detection limit
NA = Not applicable
NL = Not listed
NS = Not sampled

Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
AOC 662

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCH662002							
Inorganic Chemicals (mg/L)							
Arsenic (As)	ND	ND	4	3	0	28	50
Barium (Ba)	30	25	ND	ND	260	323	2,000
Calcium (Ca)	137,000	110,000	115,000	143,000	NA	NA	NL
Iron (Fe)	798	1,560	2,530	3,100	1,100	NA	NL
Magnesium (Mg)	45,600	36,100	28,800	95,100	NA	NA	NL
Manganese (Mn)	402	379	408	399	84	3,391	NL
Potassium (K)	21,800	17,300	15,300	40,500	NA	NA	NL
Sodium (Na)	301,000	237,000	179,000	753,000	NA	NA	NL
Thallium (Tl)	ND	ND	ND	3	0	8	2

Note:
ND = Not detected at or above the method detection limit
NA = Not applicable
NL = Not listed
NS = Not sampled

Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
SWMU 136

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCH136001							
Dioxins (pg/L)							
Dioxin Equiv.	NS	NS	NS	0	0	NA	NL
Inorganic Chemicals (mg/L)							
Arsenic (As)	ND	12	8	10	0	28	50
Barium (Ba)	4	6	ND	ND	260	323	2,000
Calcium (Ca)	79,700	75,350	53,200	74,000	NA	NA	NL
Iron (Fe)	2,370	3,160	1,470	3,060	1,100	NA	NL
Magnesium (Mg)	63,100	61,550	52,500	49,800	NA	NA	NL
Manganese (Mn)	149	167	112	207	84	3,391	NL
Potassium (K)	41,400	37,750	40,300	32,600	NA	NA	NL
Sodium (Na)	577,000	517,000	549,000	ND	NA	NA	NL

Note:
ND = Not detected at or above the method detection limit
NA = Not applicable
NL = Not listed
NS = Not sampled

Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
AOC 663

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCH663002							
Inorganic Chemicals (mg/L)							
Aluminum (Al)	984	1,700	2,610	2,280	3,700	NA	NL
Arsenic (As)	ND	ND	6	ND	0	28	50
Barium (Ba)	22	19	27	23	260	323	2,000
Calcium (Ca)	51,700	42,800	57,900	52,400	NA	NA	NL
Chromium (Cr)	ND	ND	4	3	18	18	100
Iron (Fe)	1,530	2,970	3,190	4,930	1,100	NA	NL
Magnesium (Mg)	9,270	11,400	8,990	16,300	NA	NA	NL
Manganese (Mn)	29	42	46	70	84	3,391	NL
Nickel (Ni)	ND	ND	ND	1	73	NA	100
Potassium (K)	13,000	11,700	11,900	15,100	NA	NA	NL
Sodium (Na)	144,000	131,000	102,000	191,000	NA	NA	NL
Vanadium (V)	ND	7	11	6	26	NA	NL
Zinc (Zn)	ND	ND	4	ND	1,100	NA	NL
Semi-volatile Organic Compounds (µg/L)							
Butylbenzylphthalate	ND	ND	ND	1	730	NA	NL
bis(2-Ethylhexyl)phthalate (BEHP)	ND	ND	180	59	5	NA	NL
Phenol	ND	7	ND	ND	2,200	NA	NL
Volatile Organic Compounds (µg/L)							
Acetone	ND	ND	25	ND	370	NA	NL
Benzene	ND	160	13	3	0	NA	5
Ethylbenzene	ND	19	ND	ND	130	NA	700
Toluene	ND	37	ND	ND	75	NA	1,000
Xylene (Total)	ND	26	ND	ND	1,200	NA	10,000

Note:
ND = Not detected at or above the method detection limit
NA = Not applicable
NL = Not listed
NS = Not sampled

Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
AOC 666

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCH666001							
Inorganic Chemicals (mg/L)							
Arsenic (As)	ND	ND	3	6	0	28	50
Barium (Ba)	54	40	ND	ND	260	323	2,000
Calcium (Ca)	111,000	83,200	69,200	88,200	NA	NA	NL
Chromium (Cr)	ND	ND	ND	1	18	18	100
Iron (Fe)	1,600	1,100	1,540	410	1,100	NA	NL
Magnesium (Mg)	95,700	91,900	76,000	177,000	NA	NA	NL
Manganese (Mn)	102	78	63	54	84	3,391	NL
Potassium (K)	47,500	42,800	44,800	99,800	NA	NA	NL
Sodium (Na)	1,010,000	1,120,000	927,000	2,270,000	NA	NA	NL
Vanadium (V)	5	8	ND	7	26	NA	NL
Semi-volatile Organic Compounds (µg/L)							
Acenaphthene	ND	ND	ND	2	220	NA	NL
Volatile Organic Compounds (µg/L)							
Benzene	ND	ND	ND	1	0	NA	5
Chloromethane	6	ND	ND	ND	1	NA	NL
Vinyl chloride	2	ND	ND	ND	0	NA	2

Note:
ND = Not detected at or above the method detection limit
NA = Not applicable
NL = Not listed
NS = Not sampled

Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
AOC 666

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCH666001							
Inorganic Chemicals (mg/L)							
Arsenic (As)	ND	ND	3	6	0	28	50
Barium (Ba)	54	40	ND	ND	260	323	2,000
Calcium (Ca)	111,000	83,200	69,200	88,200	NA	NA	NL
Chromium (Cr)	ND	ND	ND	1	18	18	100
Iron (Fe)	1,600	1,100	1,540	410	1,100	NA	NL
Magnesium (Mg)	95,700	91,900	76,000	177,000	NA	NA	NL
Manganese (Mn)	102	78	63	54	84	3,391	NL
Potassium (K)	47,500	42,800	44,800	99,800	NA	NA	NL
Sodium (Na)	1,010,000	1,120,000	927,000	2,270,000	NA	NA	NL
Vanadium (V)	5	8	ND	7	26	NA	NL
Semi-volatile Organic Compounds (µg/L)							
Acenaphthene	ND	ND	ND	2	220	NA	NL
Volatile Organic Compounds (µg/L)							
Benzene	ND	ND	ND	1	0	NA	5
Chloromethane	6	ND	ND	ND	1	NA	NL
Vinyl chloride	2	ND	ND	ND	0	NA	2

Note:
ND = Not detected at or above the method detectionlimit
NA = Not applicable
NL = Not listed
NS = Not sampled

Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
AOC 666

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCH666002							
Inorganic Chemicals (mg/L)							
Barium (Ba)	ND	4	ND	ND	260	323	2,000
Calcium (Ca)	87,900	69,550	53,900	65,800	NA	NA	NL
Iron (Fe)	259	122	232	573	1,100	NA	NL
Magnesium (Mg)	33,700	33,650	17,700	27,000	NA	NA	NL
Manganese (Mn)	43	30	ND	28	84	3,391	NL
Nickel (Ni)	ND	22	ND	ND	73	NA	100
Potassium (K)	17,600	15,550	12,200	15,000	NA	NA	NL
Sodium (Na)	88,900	83,150	56,900	ND	NA	NA	NL
Thallium (Tl)	ND	ND	ND	3	0	8	2
Vanadium (V)	7	5	ND	ND	26	NA	NL
Zinc (Zn)	ND	10	ND	ND	1,100	NA	NL
Semi-volatile Organic Compounds (µg/L)							
Acenaphthene	14	9	13	6	220	NA	NL

Note:
ND = Not detected at or above the method detectionlimit
NA = Not applicable
NL = Not listed
NS = Not sampled

Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
AOC 667

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCH667001							
Inorganic Chemicals (mg/L)							
Barium (Ba)	13	18	ND	ND	260	323	2,000
Beryllium (Be)	ND	ND	ND	0	0	0	4
Calcium (Ca)	113,000	81,900	85,200	82,450	NA	NA	NL
Iron (Fe)	86	39	90	34	1,100	NA	NL
Magnesium (Mg)	90,600	121,000	50,650	90,650	NA	NA	NL
Manganese (Mn)	37	69	17	44	84	3,391	NL
Potassium (K)	41,600	25,300	25,850	43,550	NA	NA	NL
Sodium (Na)	584,000	1,220,000	234,500	747,000	NA	NA	NL
Vanadium (V)	ND	3	ND	2	26	NA	NL
Volatile Organic Compounds (µg/L)							
Carbon disulfide	ND	ND	79	ND	100	NA	NL
1,1-Dichloroethane	3	ND	3	ND	81	NA	NL
1,2-Dichloroethene (total)	ND	ND	ND	5	6	NA	70

Note:
ND = Not detected at or above the method detectionlimit
NA = Not applicable
NL = Not listed
NS = Not sampled

Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
AOC 667

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCH667002							
Inorganic Chemicals (mg/L)							
Barium (Ba)	61	48	ND	ND	260	323	2,000
Beryllium (Be)	ND	ND	ND	0	0	0	4
Calcium (Ca)	154,000	114,000	130,000	127,000	NA	NA	NL
Iron (Fe)	361	853	943	177	1,100	NA	NL
Magnesium (Mg)	144,000	232,000	108,000	185,000	NA	NA	NL
Manganese (Mn)	58	155	73	70	84	3,391	NL
Potassium (K)	66,100	91,800	56,700	99,900	NA	NA	NL
Sodium (Na)	1,500,000	2,580,000	1,180,000	2,150,000	NA	NA	NL
Vanadium (V)	ND	5	ND	1	26	NA	NL
Volatile Organic Compounds (µg/L)							
Chloroethane	150	74	650	260	860	NA	NL
1,1-Dichloroethane	17	9	18	8	81	NA	NL

Note:
ND = Not detected at or above the method detectionlimit
NA = Not applicable
NL = Not listed
NS = Not sampled

Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
Grid Wells

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCHGDH001							
Inorganic Chemicals (mg/L)							
Aluminum (Al)	ND	ND	ND	187	3,700	NA	NL
Arsenic (As)	8	ND	6	ND	0	28	50
Calcium (Ca)	152,000	159,000	124,500	134,000	NA	NA	NL
Iron (Fe)	10,600	12,500	4,140	4,450	1,100	NA	NL
Magnesium (Mg)	28,100	34,500	17,850	33,050	NA	NA	NL
Manganese (Mn)	514	584	570	518	84	3,391	NL
Potassium (K)	12,400	14,200	10,550	15,000	NA	NA	NL
Sodium (Na)	41,700	34,200	31,600	ND	NA	NA	NL
Vanadium (V)	ND	ND	ND	2	26	NA	NL
Zinc (Zn)	ND	ND	ND	5	1,100	NA	NL
Water Quality Related Compounds							
Chloride (mg/L)	NS	99	27	ND	NA	NA	NL
Sulfate (mg/L)	NS	150	100	84	NA	NA	NL
Total Dissolved Solids (TDS) (mg/L)	NS	970	630	774	NA	NA	NL

Note:
ND = Not detected at or above the method detectionlimit
NA = Not applicable
NL = Not listed
NS = Not sampled

Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
Grid Wells

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCHGDH002							
Inorganic Chemicals (mg/L)							
Aluminum (Al)	ND	491	477	1,140	3,700	NA	NL
Beryllium (Be)	ND	ND	ND	1	0	0	4
Cadmium (Cd)	ND	ND	5	ND	2	2	5
Calcium (Ca)	286,000	198,000	180,000	194,000	NA	NA	NL
Chromium (Cr)	ND	ND	ND	6	18	18	100
Copper (Cu)	ND	ND	ND	4	150	140	1,300
Iron (Fe)	ND	501	521	1,000	1,100	NA	NL
Magnesium (Mg)	1,090,000	978,000	863,000	1,010,000	NA	NA	NL
Manganese (Mn)	ND	17	ND	ND	84	3,391	NL
Nickel (Ni)	ND	ND	ND	2	73	NA	100
Potassium (K)	297,000	239,000	249,000	255,000	NA	NA	NL
Sodium (Na)	8,590,000	7,330,000	6,500,000	9,760,000	NA	NA	NL
Vanadium (V)	ND	ND	8	6	26	NA	NL
Water Quality Related Compounds							
Chloride (mg/L)	NS	16,000	17,000	14,700	NA	NA	NL
Sulfate (mg/L)	NS	ND	ND	2	NA	NA	NL
Total Dissolved Solids (TDS) (mg/L)	NS	27,000	27,000	27,800	NA	NA	NL

Note:
ND = Not detected at or above the method detectionlimit
NA = Not applicable
NL = Not listed
NS = Not sampled

Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
Grid Wells

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCHGDH003							
Inorganic Chemicals (mg/L)							
Aluminum (Al)	125	ND	ND	ND	3,700	NA	NL
Arsenic (As)	ND	25	41	42	0	28	50
Barium (Ba)	ND	8	ND	ND	260	323	2,000
Calcium (Ca)	153,000	144,000	109,000	104,000	NA	NA	NL
Iron (Fe)	10,700	22,700	25,700	21,000	1,100	NA	NL
Magnesium (Mg)	47,500	56,500	58,400	78,400	NA	NA	NL
Manganese (Mn)	1,090	1,690	1,160	1,360	84	3,391	NL
Potassium (K)	23,000	27,200	33,400	34,200	NA	NA	NL
Sodium (Na)	430,000	575,000	523,000	698,000	NA	NA	NL
Thallium (Tl)	ND	ND	ND	4	0	8	2
Vanadium (V)	ND	ND	5	ND	26	NA	NL
Water Quality Related Compounds							
Chloride (mg/L)	NS	740	800	814	NA	NA	NL
Sulfate (mg/L)	NS	26	ND	ND	NA	NA	NL
Total Dissolved Solids (TDS) (mg/L)	NS	2,100	2,200	2,450	NA	NA	NL

Note:
ND = Not detected at or above the method detectionlimit
NA = Not applicable
NL = Not listed
NS = Not sampled

Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
Grid Wells

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCHGDH004							
Inorganic Chemicals (mg/L)							
Arsenic (As)	1	ND	3	ND	0	28	50
Barium (Ba)	13	11	ND	ND	260	323	2,000
Calcium (Ca)	102,000	90,500	125,000	87,900	NA	NA	NL
Cobalt (Co)	2	ND	ND	ND	220	NA	NL
Copper (Cu)	ND	ND	ND	1	150	140	1,300
Iron (Fe)	490	466	1,750	6,470	1,100	NA	NL
Lead (Pb)	2	ND	ND	ND	15	5	15
Magnesium (Mg)	48,500	46,800	39,900	40,100	NA	NA	NL
Manganese (Mn)	83	91	147	74	84	3,391	NL
Potassium (K)	26,200	20,400	19,900	17,800	NA	NA	NL
Sodium (Na)	86,700	56,600	36,900	ND	NA	NA	NL
Thallium (Tl)	2	ND	ND	5	0	8	2
Semi-volatile Organic Compounds (µg/L)							
Acenaphthene	4	4	11	4	220	NA	NL
Naphthalene	3	ND	ND	ND	150	NA	NL
Volatile Organic Compounds (µg/L)							
Acetone	23	ND	ND	ND	370	NA	NL
Carbon disulfide	ND	84	ND	ND	100	NA	NL
Methylene chloride	ND	ND	12	ND	4	NA	5
Water Quality Related Compounds							
Chloride (mg/L)	NS	69	34	ND	NA	NA	NL
Sulfate (mg/L)	NS	120	190	95	NA	NA	NL
Total Dissolved Solids (TDS) (mg/L)	NS	630	690	642	NA	NA	NL

Note:
ND = Not detected at or above the method detectionlimit
NA = Not applicable
NL = Not listed
NS = Not sampled

Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
Grid Wells

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCHGDH005							
Inorganic Chemicals (mg/L)							
Arsenic (As)	ND	ND	10	ND	0	28	50
Calcium (Ca)	235,000	198,000	179,000	171,000	NA	NA	NL
Iron (Fe)	5,730	16,400	6,860	15,300	1,100	NA	NL
Magnesium (Mg)	133,000	243,000	123,000	238,000	NA	NA	NL
Manganese (Mn)	1,310	1,680	1,030	1,310	84	3,391	NL
Potassium (K)	46,200	77,800	45,800	110,000	NA	NA	NL
Selenium (Se)	1	ND	ND	ND	18	3	50
Sodium (Na)	616,000	1,480,000	654,000	1,790,000	NA	NA	NL
Water Quality Related Compounds							
Chloride (mg/L)	NS	2,400	940	2,200	NA	NA	NL
Sulfate (mg/L)	NS	690	370	72	NA	NA	NL
Total Dissolved Solids (TDS) (mg/L)	NS	5,800	3,000	5,850	NA	NA	NL

Note:
ND = Not detected at or above the method detectionlimit
NA = Not applicable
NL = Not listed
NS = Not sampled

Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
Grid Wells

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCHGDH006							
Inorganic Chemicals (mg/L)							
Arsenic (As)	7	7	43	27	0	28	50
Barium (Ba)	3	ND	ND	ND	260	323	2,000
Calcium (Ca)	243,000	250,000	64,250	212,000	NA	NA	NL
Copper (Cu)	ND	ND	ND	1	150	140	1,300
Cyanide (CN)	0	NS	NS	NS	73	NA	200
Iron (Fe)	1,420	2,040	8,230	9,710	1,100	NA	NL
Lead (Pb)	3	ND	ND	ND	15	5	15
Magnesium (Mg)	44,500	29,500	34,400	34,800	NA	NA	NL
Manganese (Mn)	958	612	520	773	84	3,391	NL
Potassium (K)	22,100	11,800	28,650	18,750	NA	NA	NL
Selenium (Se)	1	5	ND	ND	18	3	50
Silver (Ag)	ND	ND	ND	1	18	NA	NL
Sodium (Na)	61,500	26,800	202,000	ND	NA	NA	NL
Thallium (Tl)	2	ND	ND	4	0	8	2
Zinc (Zn)	ND	8	ND	ND	1,100	NA	NL
Semi-volatile Organic Compounds (µg/L)							
bis(2-Ethylhexyl)phthalate (BEHP)	ND	ND	ND	65	5	NA	NL
Water Quality Related Compounds							
Chemical Oxygen Demand (mg/L)	38	NS	NS	NS	NA	NA	NL
Alkalinity (as CaCO3) (mg Ca)	420	NS	NS	NS	NA	NA	NL
Ammonia (as N) (mg/L)	0	NS	NS	NS	100	NA	NL
Chloride (mg/L)	NS	29	280	149	NA	NA	NL
Nitrate (as N) (mg/L)	4	NS	NS	NS	5,800	NA	NL
Nitrite (as N) (mg/L)	0	NS	NS	NS	370	NA	NL
Sulfate (mg/L)	NS	290	ND	189	NA	NA	NL
Total Dissolved Solids (TDS) (mg/L)	1,100	1,100	855	1,090	NA	NA	NL
Total Hardness (mg Ca)	770	NS	NS	NS	NA	NA	NL
Total Organic Carbon (TOC) (mg/L)	11	NS	NS	NS	NA	NA	NL
Total phosphorus (mg/L)	1	NS	NS	NS	NA	NA	NL

Note:
ND = Not detected at or above the method detectionlimit
NA = Not applicable
NL = Not listed
NS = Not sampled

Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
Grid Wells

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCHGDH007							
Inorganic Chemicals (mg/L)							
Aluminum (Al)	ND	162	ND	ND	3,700	NA	NL
Arsenic (As)	1	ND	4	8	0	28	50
Barium (Ba)	3	5	ND	6	260	323	2,000
Calcium (Ca)	55,500	58,900	8,510	59,500	NA	NA	NL
Iron (Fe)	ND	433	ND	1,530	1,100	NA	NL
Lead (Pb)	2	ND	1	ND	15	5	15
Magnesium (Mg)	10,000	12,950	41,900	17,400	NA	NA	NL
Manganese (Mn)	19	28	ND	21	84	3,391	NL
Nickel (Ni)	ND	ND	ND	1	73	NA	100
Potassium (K)	5,010	5,905	11,000	ND	NA	NA	NL
Selenium (Se)	1	ND	2	ND	18	3	50
Sodium (Na)	18,700	29,050	316,000	52,000	NA	NA	NL
Tin (Sn)	ND	NS	NS	3	2,200	NA	NL
Zinc (Zn)	ND	7	ND	ND	1,100	NA	NL
Volatile Organic Compounds (µg/L)							
Toluene	1	ND	ND	NS	75	NA	1,000
Water Quality Related Compounds							
Chloride (mg/L)	NS	21	12	45	NA	NA	NL
Sulfate (mg/L)	NS	46	33	79	NA	NA	NL
Total Dissolved Solids (TDS) (mg/L)	NS	280	250	408	NA	NA	NL

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NL = Not listed
NS = Not sampled

Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
Grid Wells

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCHGDH008							
Inorganic Chemicals (mg/L)							
Arsenic (As)	ND	ND	2	ND	0	28	50
Barium (Ba)	ND	ND	ND	24	260	323	2,000
Calcium (Ca)	233,000	236,000	231,000	228,000	NA	NA	NL
Iron (Fe)	15,500	16,200	15,500	15,600	1,100	NA	NL
Magnesium (Mg)	69,500	72,300	68,900	74,400	NA	NA	NL
Manganese (Mn)	1,320	1,440	1,500	1,450	84	3,391	NL
Mercury (Hg)	ND	ND	0	ND	1	NA	2
Potassium (K)	35,800	34,200	37,600	35,200	NA	NA	NL
Sodium (Na)	77,200	88,200	90,500	120,000	NA	NA	NL
Tin (Sn)	NS	NS	NS	3	2,200	NA	NL
Semi-volatile Organic Compounds (µg/L)							
Butylbenzylphthalate	ND	ND	3	ND	730	NA	NL
Water Quality Related Compounds							
Chloride (mg/L)	NS	78	62	82	NA	NA	NL
Sulfate (mg/L)	NS	430	440	424	NA	NA	NL
Total Dissolved Solids (TDS) (mg/L)	NS	1,400	1,400	1,460	NA	NA	NL

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NS = Not sampled

Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
Grid Wells

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCHGDH009							
Inorganic Chemicals (mg/L)							
Arsenic (As)	11	ND	7	3	0	28	50
Barium (Ba)	55	59	ND	115	260	323	2,000
Calcium (Ca)	720,000	659,000	561,000	504,000	NA	NA	NL
Cobalt (Co)	ND	ND	ND	1	220	NA	NL
Iron (Fe)	28,000	28,700	26,900	20,500	1,100	NA	NL
Lead (Pb)	1	ND	2	ND	15	5	15
Magnesium (Mg)	235,000	249,000	238,000	328,000	NA	NA	NL
Manganese (Mn)	4,570	3,190	3,250	2,620	84	3,391	NL
Potassium (K)	69,500	69,500	78,700	135,000	NA	NA	NL
Selenium (Se)	2	ND	ND	ND	18	3	50
Sodium (Na)	1,240,000	1,500,000	1,250,000	2,030,000	NA	NA	NL
Thallium (Tl)	105	ND	ND	4	0	8	2
Tin (Sn)	NS	NS	NS	4	2,200	NA	NL
Volatile Organic Compounds (µg/L)							
4-Methyl-2-Pentanone (MIBK)	ND	17	NS	NS	290	NA	NL
Water Quality Related Compounds							
Chloride (mg/L)	NS	2,200	2,200	3,240	NA	NA	NL
DCAA (mg/L)	NS	86	NS	ND	NA	NA	NL
Sulfate (mg/L)	NS	1,900	1,700	2,060	NA	NA	NL
Total Dissolved Solids (TDS) (mg/L)	NS	8,100	7,700	9,170	NA	NA	NL

Note:
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NA = Not applicable
NL = Not listed
NS = Not sampled

Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
Grid Wells

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCHGDH010							
Inorganic Chemicals (mg/L)							
Arsenic (As)	14	ND	8	19	0	28	50
Barium (Ba)	7	ND	ND	28	260	323	2,000
Calcium (Ca)	204,000	259,000	252,000	315,000	NA	NA	NL
Chromium (Cr)	ND	ND	ND	2	18	18	100
Cobalt (Co)	ND	ND	ND	3	220	NA	NL
Iron (Fe)	2,850	4,980	1,220	4,795	1,100	NA	NL
Lead (Pb)	2	ND	ND	ND	15	5	15
Magnesium (Mg)	65,600	84,800	76,800	113,500	NA	NA	NL
Manganese (Mn)	428	700	496	670	84	3,391	NL
Nickel (Ni)	21	ND	25	38	73	NA	100
Potassium (K)	21,200	23,500	28,850	41,950	NA	NA	NL
Selenium (Se)	2	ND	ND	ND	18	3	50
Silver (Ag)	ND	ND	ND	1	18	NA	NL
Sodium (Na)	206,000	216,000	269,000	544,000	NA	NA	NL
Thallium (Tl)	ND	ND	ND	3	0	8	2
Tin (Sn)	NS	NS	NS	4	2,200	NA	NL
Water Quality Related Compounds							
Chloride (mg/L)	NS	380	335	677	NA	NA	NL
Sulfate (mg/L)	NS	650	705	1,010	NA	NA	NL
Total Dissolved Solids (TDS) (mg/L)	NS	1,900	2,150	3,280	NA	NA	NL

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NS = Not sampled

Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
Grid Wells

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCHGDH011							
Inorganic Chemicals (mg/L)							
Arsenic (As)	5	ND	3	ND	0	28	50
Barium (Ba)	40	ND	ND	ND	260	323	2,000
Calcium (Ca)	201,000	165,000	243,000	180,000	NA	NA	NL
Chromium (Cr)	ND	ND	ND	3	18	18	100
Iron (Fe)	9,200	7,330	5,630	3,470	1,100	NA	NL
Lead (Pb)	3	ND	ND	ND	15	5	15
Magnesium (Mg)	532,000	384,000	526,000	442,000	NA	NA	NL
Manganese (Mn)	507	400	612	471	84	3,391	NL
Potassium (K)	135,000	122,000	153,000	144,000	NA	NA	NL
Sodium (Na)	3,910,000	3,550,000	3,930,000	3,850,000	NA	NA	NL
Tin (Sn)	NS	NS	NS	3	2,200	NA	NL
Vanadium (V)	8	ND	ND	ND	26	NA	NL
Zinc (Zn)	ND	ND	123	ND	1,100	NA	NL
Volatile Organic Compounds (µg/L)							
Carbon disulfide	7	NS	NS	NS	100	NA	NL
Water Quality Related Compounds							
Chloride (mg/L)	NS	4,000	6,900	5,840	NA	NA	NL
Sulfate (mg/L)	NS	10	84	51	NA	NA	NL
Total Dissolved Solids (TDS) (mg/L)	NS	7,200	12,000	12,600	NA	NA	NL

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NS = Not sampled

Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
Grid Wells

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCHGDH01D							
Inorganic Chemicals (mg/L)							
Aluminum (Al)	ND	ND	372	ND	3,700	723	NL
Cadmium (Cd)	ND	ND	4	ND	2	NA	5
Calcium (Ca)	120,000	111,000	129,000	108,000	NA	NA	NL
Chromium (Cr)	ND	ND	ND	2	18	NA	100
Iron (Fe)	5,010	5,940	6,700	5,490	1,100	NA	NL
Lead (Pb)	3	ND	ND	ND	15	4	15
Magnesium (Mg)	914,000	905,000	859,000	1,000,000	NA	NA	NL
Manganese (Mn)	555	741	760	660	84	776	NL
Potassium (K)	224,000	216,000	242,000	222,000	NA	NA	NL
Selenium (Se)	1	ND	ND	ND	18	2	50
Sodium (Na)	6,810,000	6,200,000	5,850,000	7,830,000	NA	NA	NL
Vanadium (V)	ND	ND	5	ND	26	9	NL
Volatile Organic Compounds (µg/L)							
Methylene chloride	6	NS	NS	NS	4	NA	5
Water Quality Related Compounds							
Chloride (mg/L)	NS	13,000	17,000	11,900	NA	NA	NL
Total Dissolved Solids (TDS) (mg/L)	NS	22,000	22,000	22,900	NA	NA	NL

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NS = Not sampled

Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
Grid Wells

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCHGDH02D							
Inorganic Chemicals (mg/L)							
Beryllium (Be)	ND	ND	ND	1	0	NA	4
Cadmium (Cd)	ND	ND	3	ND	2	NA	5
Calcium (Ca)	95,800	96,500	91,700	91,900	NA	NA	NL
Chromium (Cr)	ND	ND	ND	2	18	NA	100
Copper (Cu)	ND	ND	ND	1	150	NA	1,300
Iron (Fe)	4,270	6,280	6,950	4,560	1,100	NA	NL
Magnesium (Mg)	629,000	618,000	686,000	572,000	NA	NA	NL
Manganese (Mn)	109	146	153	118	84	776	NL
Nickel (Ni)	13	ND	ND	ND	73	NA	100
Potassium (K)	180,000	203,000	195,000	196,000	NA	NA	NL
Selenium (Se)	1	ND	ND	ND	18	2	50
Sodium (Na)	5,100,000	4,990,000	5,480,000	6,400,000	NA	NA	NL
Tin (Sn)	NS	NS	NS	4	2,200	NA	NL
Vanadium (V)	4	ND	5	1	26	9	NL
Zinc (Zn)	ND	ND	81	ND	1,100	NA	NL
Pesticide/PCB Compounds (µg/L)							
4,4'-DDT	0	ND	ND	NS	0	NA	NL
Water Quality Related Compounds							
Chloride (mg/L)	NS	10,000	14,000	9,030	NA	NA	NL
Sulfate (mg/L)	NS	ND	ND	2	NA	NA	NL
Total Dissolved Solids (TDS) (mg/L)	NS	18,000	18,000	17,900	NA	NA	NL

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NS = Not sampled

Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
Grid Wells

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCHGDH03D							
Inorganic Chemicals (mg/L)							
Arsenic (As)	ND	ND	3	ND	0	15	50
Barium (Ba)	60	41	ND	ND	260	237	2,000
Beryllium (Be)	ND	ND	ND	1	0	NA	4
Cadmium (Cd)	3	ND	5	ND	2	NA	5
Calcium (Ca)	162,000	204,000	203,000	198,000	NA	NA	NL
Chromium (Cr)	ND	ND	ND	4	18	NA	100
Magnesium (Mg)	751,000	918,000	1,010,000	1,000,000	NA	NA	NL
Manganese (Mn)	ND	3	ND	ND	84	776	NL
Potassium (K)	217,000	260,000	301,000	282,000	NA	NA	NL
Sodium (Na)	6,230,000	7,600,000	8,930,000	1,150,000	NA	NA	NL
Vanadium (V)	ND	5	ND	ND	26	9	NL
Water Quality Related Compounds							
Chloride (mg/L)	NS	14,000	14,000	13,400	NA	NA	NL
Sulfate (mg/L)	NS	670	650	645	NA	NA	NL
Total Dissolved Solids (TDS) (mg/L)	NS	26,000	26,000	26,300	NA	NA	NL

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NS = Not sampled

Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
Grid Wells

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCHGDH04D							
Inorganic Chemicals (mg/L)							
Arsenic (As)	3	ND	ND	ND	0	15	50
Barium (Ba)	48	52	ND	ND	260	237	2,000
Beryllium (Be)	ND	ND	ND	1	0	NA	4
Cadmium (Cd)	ND	2	6	ND	2	NA	5
Calcium (Ca)	213,000	222,000	223,000	203,000	NA	NA	NL
Chromium (Cr)	ND	3	ND	2	18	NA	100
Cobalt (Co)	3	ND	ND	ND	220	3	NL
Iron (Fe)	1,540	356	421	289	1,100	NA	NL
Lead (Pb)	3	ND	ND	ND	15	4	15
Magnesium (Mg)	874,000	916,500	948,000	881,000	NA	NA	NL
Manganese (Mn)	132	167	167	128	84	776	NL
Mercury (Hg)	ND	ND	0	ND	1	NA	2
Potassium (K)	143,000	167,500	189,000	242,000	NA	NA	NL
Sodium (Na)	6,630,000	6,945,000	7,870,000	9,710,000	NA	NA	NL
Thallium (Tl)	ND	ND	ND	6	0	NA	2
Vanadium (V)	7	6	ND	ND	26	9	NL
Semi-volatile organic Compounds (µg/L)							
Acenaphthene	ND	ND	ND	2	220	NA	NL
DI-n-butylphthalate	3	ND	ND	ND	370	NA	NL
Di-n-octylphthalate	ND	5	ND	ND	73	NA	NL
2,4-Dimethylphenol	15	15	15	21	73	NA	NL
2-Methylnaphthalene	ND	ND	ND	4	150	NA	NL
2-Methylphenol (o-Cresol0	20	8	9	16	180	NA	NL
Naphthalene	17	24	26	53	150	NA	NL
Volatile Organic Compounds (µg/L)							
Benzene	3	4	5	ND	0	NA	5
Toluene	ND	4	5	ND	75	NA	1,000
Trchloroethene	ND	ND	ND	2	2	NA	5
Water Quality Related Compounds							
Chloride (mg/L)	NS	12,000	14,000	12,400	NA	NA	NL
Sulfate (mg/L)	NS	ND	28	ND	NA	NA	NL
Total Dissolved Solids (TDS) (mg/L)	NS	23,000	23,000	23,600	NA	NA	NL

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Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
Grid Wells

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCHGDH05D							
Inorganic Chemicals (mg/L)							
Arsenic (As)	ND	ND	2	NS	0	15	50
Barium (Ba)	ND	58	ND	NS	260	237	2,000
Cadmium (Cd)	ND	2	6	NS	2	NA	50
Calcium (Ca)	145,000	135,000	123,000	NS	NA	NA	NL
Iron (Fe0	4,430	4,800	4,600	NS	1,100	NA	NL
Magnesium (Mg)	943,000	920,000	884,000	NS	NA	NA	NL
Manganese (Mn)	462	563	519	NS	84	776	NL
Potassium (K)Potassium (K)	236,000	240,000	245,000	NS	NA	NA	NL
Selenium (Se0	1	ND	ND	NS	18	2	50
Sodium (Na)	6,720,000	6,570,000	6,600,000	NS	NA	NA	NL
Water Quality Related Compounds							
Chloride (mg/L)	NS	16,000	12,000	NS	NA	NA	NL
Total Dissolved Solids (TDS) (mg/L)	NS	22,000	22,000	NS	NA	NA	NL

Note:
ND = Not detected at or above the method detectionlimit
NA = Not applicable
NL = Not listed
NS = Not sampled

Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
Grid Wells

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCHGDH06D							
Inorganic Chemicals (mg/L)							
Arsenic (As)	8	ND	3	ND	0	15	50
Barium (Ba)	96	88	ND	ND	260	237	2,000
Cadmium (Cd)	ND	ND	5	ND	2	NA	5
Calcium (Ca)	150,000	156,000	143,000	148,000	NA	NA	NL
Chromium (Cr)	7	4	ND	4	18	NA	100
Cobalt (Co)	3	ND	ND	ND	220	3	NL
Iron (Fe)	528	ND	ND	ND	1,100	NA	NL
Lead (Pb)	2	ND	ND	ND	15	4	15
Magnesium (Mg)	672,000	849,000	196,000	940,000	NA	NA	NL
Manganese (Mn)	12	23	ND	ND	84	776	NL
Potassium (K)	199,000	222,000	230,000	227,000	NA	NA	NL
Selenium (Se)	ND	ND	1	ND	18	2	50
Sodium (Na)	5,040,000	6,810,000	394,000	9,200,000	NA	NA	NL
Vanadium (V)	ND	9	ND	ND	26	9	NL
Zinc (Zn)	62	ND	ND	ND	1,100	NA	NL
Semi-volatile Organic Compounds (µg/L)							
Benzoic acid	ND	ND	ND	1	15,000	NA	NL
bis(2-Ethylhexyl)phthalate (BEHP)	4	230	ND	ND	5	NA	NL
Water Quality Related Compounds							
Chemical Oxygen Demand (mg/L)	380	NS	NS	NS	NA	NA	NL
Alkalinity (as CaCO3) (mg Ca)	1,900	NS	NS	NS	NA	NA	NL
Ammonia (as N) (mg/L)	51	NS	NS	NS	100	NA	NL
Chloride (mg/L)	NS	12,000	9,600	14,000	NA	NA	NL
Total BOD5 (mg/L)	30	NS	NS	NS	NA	NA	NL
Total Dissolved Solids (TDS) (mg/L)	22,000	23,000	23,000	23,300	NA	NA	NL
Total Hardness (mg CA)	3,700	NS	NS	NS	NA	NA	NL
Total Organic Carbon (TOC) (mg/L)	50	NS	NS	NS	NA	NA	NL
Total phosphorus (mg/L0	3	NS	NS	NS	NA	NA	NL

Note:
ND = Not detected at or above the method detectionlimit
NA = Not applicable
NL = Not listed
NS = Not sampled

Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
Grid Wells

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCHGDH07D							
Inorganic Chemicals (mg/L)							
Aluminum (Al)	16	ND	ND	ND	3,700	723	NL
Arsenic (As)	ND	ND	2	ND	0	15	50
Barium (Ba)	85	93	ND	102	260	237	2,000
Cadmium (Cd)	ND	ND	5	ND	2	NA	5
Calcium (Ca)	203,000	199,000	221,000	180,000	NA	NA	NL
Chromium (Cr)	ND	ND	ND	3	18	NA	100
Cobalt (Co)	ND	ND	ND	1	220	3	NL
Iron (Fe)	923	510	624	544	1,100	NA	NL
Magnesium (Mg)	852,000	986,000	1,150,000	807,000	NA	NA	NL
Manganese (Mn)	126	170	207	145	84	776	NL
Mercury (Hg)	ND	ND	0	ND	1	NA	2
Nickel (Ni)	ND	ND	ND	2	73	NA	100
Potassium (K)	190,000	201,000	242,000	187,000	NA	NA	NL
Sodium (Na)	6,520,000	7,640,000	8,460,000	9,760,000	NA	NA	NL
Tin (Sn)	NS	NS	NS	4	2,200	NA	NL
Vanadium (V)	ND	6	ND	ND	26	9	NL
Semi-volatile Organic Compounds (µg/L)							
Benzoic acid	ND	ND	ND	2	15,000	NA	NL
Butylenzylphthalate	ND	ND	2	ND	730	NA	NL
Volatile Organic Compounds (µg/L)							
Acetone	ND	32	ND	ND	370	NA	NL
Water Quality Related Compounds							
Chloride (mg/L)	NS	13,000	10,000	14,400	NA	NA	NL
Sulfate (mg/L)	NS	10	ND	24	NA	NA	NL
Total Dissolved Solids (TDS) (mg/L)	NS	23,000	23,000	23,300	NA	NA	NL

Note:
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NA = Not applicable
NL = Not listed
NS = Not sampled

Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
Grid Wells

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCHGD08D							
Inorganic Chemicals (mg/L)							
Arsenic (As)	ND	ND	2	ND	0	15	50
Barium (Ba)	ND	75	ND	85	260	237	2,000
Cadmium (Cd)	ND	2	4	ND	2	NA	5
Calcium (Ca)	171,000	185,000	191,000	177,000	NA	NA	NL
Chromium (Cr)	ND	ND	ND	4	18	NA	100
Cobalt (Co)	ND	ND	ND	2	220	3	NL
Iron (Fe)	ND	391	678	366	1,100	NA	NL
Magnesium (Mg)	789,000	876,000	911,000	852,000	NA	NA	NL
Manganese (Mn)	355	481	528	447	84	776	NL
Nickel (Ni)	ND	ND	ND	2	73	NA	100
Potassium (K)	205,000	249,000	261,000	254,000	NA	NA	NL
Silver (Ag)	ND	ND	ND	2	18	NA	NL
Sodium (Na)	6,230,000	6,895,000	6,900,000	9,140,000	NA	NA	NL
Thallium (Tl)	6	ND	ND	ND	0	NA	2
Tin (Sn)	NS	NS	NS	3	2,200	NA	NL
Vanadium (V)	4	4	ND	ND	26	9	NL
Semi-volatile Organic Compounds (µg/L)							
Benzoic acid	ND	ND	ND	1	15,000	NA	NL
Water Quality Related Compounds							
Chloride (mg/L)	NS	13,000	13,000	14,400	NA	NA	NL
Sulfate (mg/L)	NS	ND	ND	6	NA	NA	NL
Total Dissolved Solids (TDS) (mg/L)	NS	22,500	24,000	23,600	NA	NA	NL

Note:
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NS = Not sampled

Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
Grid Wells

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCHGDH09D							
Inorganic Chemicals (mg/L)							
Aluminum (Al)	ND	ND	474	ND	3,700	723	NL
Antimony (Sb)	ND	12	ND	ND	2	NA	6
Arsenic (As)	2	ND	2	ND	0	15	50
Barium (Ba)	30	ND	ND	34	260	237	2,000
Cadmium (Cd)	ND	ND	5	ND	2	NA	5
Calcium (Ca)	112,000	117,000	124,000	112,000	NA	NA	NL
Chromium (Cr)	ND	ND	ND	12	18	NA	100
Cobalt (Co)	ND	ND	ND	1	220	3	NL
Iron (Fe)	2,640	3,240	3,470	2,730	1,100	NA	NL
Lead (Pb)	3	ND	3	ND	15	4	15
Magnesium (Mg)	927,000	1,130,000	1,100,000	937,000	NA	NA	NL
Manganese (Mn)	185	229	244	197	84	776	NL
Nickel (Ni)	ND	ND	ND	5	73	NA	100
Potassium (K)	211,000	252,000	277,000	384,000	NA	NA	NL
Selenium (Se)	1	ND	ND	ND	18	2	50
Silver (Ag)	ND	ND	ND	1	18	NA	NL
Sodium (Na)	6,350,000	6,730,000	7,270,000	8,000,000	NA	NA	NL
Thallium (Tl)	ND	ND	ND	6	0	NA	2
Semi-volatile Organic Compounds (µg/L)							
Di-n-butylphthalate	NS	2	ND	ND	370	NA	NL
bis(2-Ethylhexyl0phthalate (BEHP)	NS	7	ND	2	5	NA	NL
Water Quality RelatedCompounds							
NSChloride (mg/L)	NS	2	ND	ND	370	NA	NL
Total Dissolved Solids (TDS) (mg/L)	NS	24,000	24,000	24,300	NA	NA	NL

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Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
Grid Wells

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCHGDH10D							
Inorganic Chemicals (mg/L)							
Aluminum (Al)	105	ND	2,520	3,620	3,700	723	NL
Antimony (Sb)	ND	12	ND	ND	2	NA	6
Arsenic (As)	ND	ND	3	4	0	15	50
Cadmium (Cd)	ND	ND	5	ND	2	NA	5
Calcium (Ca)	92,900	86,700	89,100	85,100	NA	NA	NL
Chromium (Cr)	ND	ND	ND	8	18	NA	100
Copper (Cu)	ND	ND	118	20	150	NA	1,300
Iron (Fe)	2,980	3,850	6,750	3,270	1,100	NA	NL
Lead (Fe)	ND	ND	6	3	15	4	15
Magnesium (Mg)	692,000	742,000	756,000	715,000	NA	NA	NL
Manganese (Mn)	446	415	445	384	84	776	NL
Mercury (Hg)	0	ND	ND	0	1	NA	2
Potassium (K)	192,000	184,000	208,000	202,000	NA	NA	BL
Sodium (Na)	5,570,000	5,500,000	5,890,000	6,250,000	NA	NA	BL
Tin (Sn)	ND	NS	NS	3	2,200	NA	BL
Vanadium (V)	ND	ND	ND	5	26	9	NL
Zinc (Zn)	ND	ND	254	ND	1,100	NA	NL
Semi-volatile Organic Compounds (µg/L)							
Di-n-butylphthalate	ND	3	NS	NS	370	NA	NL
bis(2-Ethylhexyl)phthalate (BEHP)	ND	9	NS	NS	5	NA	NL
Water Quality Related Compounds							
Chloride (mg/L)	NS	9,900	9,700	10,900	NA	NA	NL
Sulfate (mg/L)	NS	ND	ND	1	NA	NA	NL
Total Dissolved Solids (TDS) (mg/L)	NS	18,000	18,000	18,600	NA	NA	NL

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Chemicals Detected in Zone H Monitoring Wells
Sampling Rounds 1, 2, 3, and 4
Grid Wells

Name	Round 1	Round 2	Round 3	Round 4	RBC	UTL	MCL
Monitoring Well NBCHGDH11D							
Inorganic Chemicals (mg/L)							
Aluminum (Al)	207	745	3,330	578	3,700	723	NL
Arsenic (As)	ND	ND	3	ND	0	15	50
Barium (Ba)	ND	871	ND	ND	260	237	2,000
Cadmium (Cd)	ND	2	5	ND	2	NA	5
Calcium (Ca)	103,000	7,650	106,000	95,500	NA	NA	NL
Chromium (Cr)	ND	ND	ND	1	18	NA	100
Iron (Fe)	6,470	1,810	7,180	2,820	1,100	NA	NL
Lead (Pb)	ND	2	1	ND	15	4	15
Magnesium (Mg)	688,000	1,290	705,000	740,000	NA	NA	NL
Manganese (Mn)	281	821	306	234	84	776	NL
Mercury (Hg)	ND	ND	ND	0	1	NA	2
Potassium (K)	193,000	9,050	213,000	207,000	NA	NA	NL
Sodium (Na)	5,980,000	1,360,000	6,390,000	6,720,000	NA	NA	NL
Tin (Sn)	NS	NS	NS	3	2,200	NA	NL
Zinc (Zn)	ND	1,180	63	ND	1,100	NA	NL
Volatile Organic Compounds (µg/L)							
Methylene chloride	5	NS	NS	NS	4	NA	5
Water Quality Related Compounds							
Chloride (mg/L)	NS	20,000	11,000	11,700	NA	NA	NL
Sulfate (mg/L)	NS	ND	ND	1	NA	NA	NL
Total Dissolved Solids (TDS) (mg/L)	NS	20,000	19,000	19,900	NA	NA	NL

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