

03.04-05/10/91-002242

CAMP LEJEUNE - HPIA
SEMI-VOLATILE ORGANIC COMPOUNDS IN GROUNDWATER (DEEP WELLS)
Concentration in ug/l

CHART = HPSV7A

wp8c\hp-sv.wr1 (7-A)

COMPOUND	HPGW4-3	HPGW9-3	HPGW9-3D (GWDUP3)	HPGW24-3	HPGW30-3	HPGW31-3	HPGW32-3
Phenol	10.U	10.U	10.U	10.U	10.U	10.U	10.U
bis(2-Chloroethyl)ether	10.U	10.U	10.U	10.U	10.U	10.U	10.U
2-Chlorophenol	10.U	10.U	10.U	10.U	10.U	10.U	10.U
1,3-Dichlorobenzene	10.U	10.U	10.U	10.U	10.U	10.U	10.U
1,4-Dichlorobenzene	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Benzyl Alcohol	10.U	10.U	10.U	10.U	10.U	10.U	10.U
1,2-Dichlorobenzene	10.U	10.U	10.U	10.U	10.U	10.U	10.U
2-Methylphenol	10.U	10.U	10.U	10.U	10.U	10.U	10.U
bis(2-Chloroisopropyl)ether	10.U	10.U	10.U	10.U	10.U	10.U	10.U
4-Methylphenol	10.U	10.U	10.U	10.U	10.U	10.U	10.U
N-Nitroso-di-n-propylamine	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Hexachloroethane	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Nitrobenzene	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Isophorone	10.U	10.U	10.U	10.U	10.U	10.U	10.U
2-Nitrophenol	10.U	10.U	10.U	10.U	10.U	10.U	10.U
2,4-Dimethylphenol	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Benzoic acid	50.U	50.U	50.U	50.U	50.U	50.U	50.U
bis(2-Chloroethoxy)methane	10.U	10.U	10.U	10.U	10.U	10.U	10.U
2,4-Dichlorophenol	10.U	10.U	10.U	10.U	10.U	10.U	10.U
1,2,4-Trichlorobenzene	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Naphthalene	10.U	10.U	10.U	10.U	10.U	10.U	10.U
4-Chloroaniline	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Hexachlorobutadiene	10.U	10.U	10.U	10.U	10.U	10.U	10.U
4-Chloro-3-methylphenol	10.U	10.U	10.U	10.U	10.U	10.U	10.U
2-Methylnaphthalene	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Hexachlorocyclopentadiene	10.U	10.U	10.U	10.U	10.U	10.U	10.U
2,4,6-Trichlorophenol	10.U	10.U	10.U	10.U	10.U	10.U	10.U
2,4,5-Trichlorophenol	50.U	50.U	50.U	50.U	50.U	50.U	50.U
2-Chloronaphthalene	10.U	10.U	10.U	10.U	10.U	10.U	10.U
2-Nitroaniline	50.U	50.U	50.U	50.U	50.U	50.U	50.U
Dimethylphthalate	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Acenaphthylene	10.U	10.U	10.U	10.U	10.U	10.U	10.U
2,6-Dinitrotoluene	10.U	10.U	10.U	10.U	10.U	10.U	10.U

PROJECT Camp Lejeune
 PREPARED BY Judy Bunn
 DATE April 1991
 CHECKED BY Lee Kuyper
 DATE 5/10/91
 COMMENTS _____

CAMP LEJEUNE - HPIA
SEMI-VOLATILE ORGANIC COMPOUNDS IN GROUNDWATER (DEEP WELLS)
Concentration in ug/l

CHART = HPSV7B

wp8c\hp-sv.wr1 (7-B)

COMPOUND	HPGW4-3	HPGW9-3	HPGW9-3D (GWDUP3)	HPGW24-3	HPGW30-3	HPGW31-3	HPGW32-3
3-Nitroaniline	50.U	50.U	50.U	50.U	50.U	50.U	50.U
Acenaphthene	10.U	10.U	10.U	10.U	10.U	10.U	10.U
2,4-Dinitrophenol	50.U	50.U	50.U	50.U	50.U	50.U	50.U
4-Nitrophenol	50.U	50.U	50.U	50.U	50.U	50.U	50.U
Dibenzofuran	10.U	10.U	10.U	10.U	10.U	10.U	10.U
2,4-Dinitrotoluene	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Diethylphthalate	10.U	10.U	10.U	10.U	10.U	10.U	10.U
4-Chlorophenyl-phenylether	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Fluorene	10.U	10.U	10.U	10.U	10.U	10.U	10.U
4-Nitroaniline	50.U	50.U	50.U	50.U	50.U	50.U	50.U
4,6-Dinitro-2-methylphenol	50.U	50.U	50.U	50.U	50.U	50.U	50.U
N-Nitrosodiphenylamine	10.U	10.U	10.U	10.U	10.U	10.U	10.U
4-Bromophenyl-phenylether	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Hexachlorobenzene	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Pentachlorophenol	50.U	50.U	50.U	50.U	50.U	50.U	50.U
Phenanthrene	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Anthracene	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Di-n-butylphthalate	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Fluoranthene	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Pyrene	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Butylbenzylphthalate	10.U	10.U	10.U	10.U	10.U	10.U	10.U
3,3'-Dichlorobenzidine	20.U	20.U	20.U	20.U	20.U	20.U	20.U
Benzo(a)anthracene	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Chrysene	10.U	10.U	10.U	10.U	10.U	10.U	10.U
bis(2-Ethylhexyl)phthalate	10.U	3.U	10.U	2.U	10.U	10.U	10.U
Di-n-octylphthalate	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Benzo(b)fluoranthene	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Benzo(k)fluoranthene	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Benzo(a)pyrene	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Indeno(1,2,3-cd)pyrene	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Dibenz(a,h)anthracene	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Benzo(g,h,i)perylene	10.U	10.U	10.U	10.U	10.U	10.U	10.U

Doc No: CLEJ-0036 & -3.04-4/1/91

Doc No: CLEJ-00368-3.04-4/1/91

CAMP LEJEUNE - HPIA
VOLATILE ORGANIC COMPOUNDS IN GROUNDWATER (DEEP WELLS)
Concentration in ug/l

CHART = HPVOL7

wp8b\hp-vol.wr1 (7)

COMPOUND	HPGW4-3	HPGW9-3	HPGW9-3D (GWDUP3)	HPGW24-3	HPGW30-3	HPGW31-3	HPGW32-3
Chloromethane	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Bromomethane	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Vinyl Chloride	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Chloroethane	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Methylene Chloride	2.J	5.U	5.U	.8BJ	5.U	5.U	1.8J
Acetone	4.J	10.U	10.U	10.U	10.U	27.8	13.
Carbon Disulfide	4.J	5.U	5.U	5.U	5.U	6.	5.U
1,1-Dichloroethene	5.U	5.U	5.U	5.U	5.U	5.U	5.U
1,1-Dichloroethane	5.U	5.U	5.U	5.U	5.U	5.U	5.U
1,2-Dichloroethene (total)	5.U	5.U	5.U	5.U	5.U	5.U	5.U
Chloroform	5.U	5.U	5.U	5.U	5.U	5.U	5.U
1,2-Dichloroethane	5.U	5.U	5.U	5.U	5.U	5.U	5.U
2-Butanone	10.U	5.J	10.U	10.U	10.U	10.U	10.U
1,1,1-Trichloroethane	5.U	5.U	5.U	5.U	5.U	5.U	5.U
Carbon Tetrachloride	5.U	5.U	5.U	5.U	5.U	5.U	5.U
Vinyl Acetate	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Bromodichloromethane	5.U	5.U	5.U	5.U	5.U	5.U	5.U
1,2-Dichloropropane	5.U	5.U	5.U	5.U	5.U	5.U	5.U
cis-1,3-Dichloropropene	5.U	5.U	5.U	5.U	5.U	5.U	5.U
Trichloroethene	5.U	5.U	5.U	5.U	5.U	5.U	5.U
Dibromochloromethane	5.U	5.U	5.U	5.U	5.U	5.U	5.U
1,1,2-Trichloroethane	5.U	5.U	5.U	5.U	5.U	5.U	5.U
Benzene	5.U	5.U	5.U	5.U	5.U	5.U	5.U
trans-1,3-Dichloropropene	5.U	5.U	5.U	5.U	5.U	5.U	5.U
Bromoform	5.U	5.U	5.U	5.U	5.U	5.U	5.U
4-Methyl-2-Pentanone	10.U	10.U	10.U	10.U	10.U	10.U	10.U
2-Hexanone	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Tetrachloroethene	5.U	5.U	.6J	5.U	5.U	5.U	5.U
1,1,2,2-Tetrachloroethane	5.U	5.U	5.U	5.U	5.U	5.U	5.U
Toluene	5.U	5.U	5.U	5.U	5.U	5.U	34.
Chlorobenzene	5.U	5.U	5.U	5.U	5.U	5.U	5.U
Ethylbenzene	5.U	5.U	5.U	5.U	5.U	5.U	12.
Styrene	5.U	5.U	5.U	5.U	5.U	5.U	5.U
Xylene (total)	5.U	5.U	5.U	5.U	5.U	5.U	51.

PROJECT <i>Camp Lejeune</i>	PREPARED BY <i>Fred M. Lambing</i>	DATE <i>April 1991</i>	CHECKED BY <i>Quincy A. Luna</i>
COMMENTS		DATE <i>5-17-91</i>	

Doc No: CLEJ-00368-3.04-4/1/91

CAMP LEJEUNE - HP1A
PESTICIDES IN GROUNDWATER (DEEP WELLS)
Concentration in ug/l

CHART = HPPEST7

sy\wp8b\hp-pest.wr1 (7)

PESTICIDE/PCB	HPGW4-3	HPGW9-3	HPGW9-3D (GW0UP3)	HPGW24-3	HPGW30-3	HPGW31-3	HPGW32-3
alpha-BHC	.05U	.05U	.05U	.05U	.05U	.05U	.05U
beta-BHC	.05U	.05U	.05U	.05U	.05U	.05U	.05U
delta-BHC	.05U	.05U	.05U	.05U	.05U	.05U	.05U
gamma-BHC (Lindane)	.05U	.05U	.05U	.05U	.05U	.05U	.05U
Heptachlor	.05U	.05U	.05U	.05U	.05U	.05U	.05U
Aldrin	.05U	.05U	.05U	.05U	.05U	.05U	.05U
Heptachlor epoxide	.05U	.05U	.05U	.05U	.05U	.05U	.05U
Endosulfan I	.05U	.05U	.05U	.05U	.05U	.05U	.05U
Dieldrin	.10U	.10U	.10U	.10U	.10U	.10U	.10U
4,4'-DDE	.10U	.10U	.10U	.10U	.10U	.10U	.10U
Endrin	.10U	.10U	.10U	.10U	.10U	.10U	.10U
Endosulfan II	.10U	.10U	.10U	.10U	.10U	.10U	.10U
4,4'-DDD	.10U	.10U	.10U	.10U	.10U	.10U	.10U
Endosulfan sulfate	.10U	.10U	.10U	.10U	.10U	.10U	.10U
4,4'-DDT	.10U	.10U	.10U	.10U	.10U	.10U	.10U
Methoxychlor	.50U	.50U	.50U	.50U	.50U	.50U	.50U
Endrin ketone	.10U	.10U	.10U	.10U	.10U	.10U	.10U
alpha-Chlordane	.50U	.50U	.50U	.50U	.50U	.50U	.50U
gamma-Chlordane	.50U	.50U	.50U	.50U	.50U	.50U	.50U
Toxaphene	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
Aroclor-1016	.50U	.50U	.50U	.50U	.50U	.50U	.50U
Aroclor-1221	.50U	.50U	.50U	.50U	.50U	.50U	.50U
Aroclor-1232	.50U	.50U	.50U	.50U	.50U	.50U	.50U
Aroclor-1242	.50U	.50U	.50U	.50U	.50U	.50U	.50U
Aroclor-1248	.50U	.50U	.50U	.50U	.50U	.50U	.50U
Aroclor-1254	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
Aroclor-1260	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U

PROJECT Camp Lejeune
PREPARED BY Judy R. Brown
DATE April 1991
CHECKED BY ELC
DATE 5/6/91
REVISED BY _____
DATE _____

Doc No: CLEJ-00368-3, 04-4/1/91

CAMP LEJEUNE - HPIA
VOLATILE ORGANIC COMPOUNDS IN GROUNDWATER (INTERMEDIATE WELLS)
Concentration in ug/l

CHART = HPVOL5

wp8b\hp-vol.wr1 (5)

COMPOUND	HPGW4-2	HPGW9-2	HPGW17-2	HPGW24-2	HPGW30-2	HPGW30-2D (GWDUP4)
Chloromethane	10.U	10.U	10.U	10.U	10.U	10.U
Bromomethane	10.U	10.U	10.U	10.U	10.U	10.U
Vinyl Chloride	10.U	10.U	10.U	10.U	12.	12.
Chloroethane	10.U	10.U	10.U	10.U	10.U	10.U
Methylene Chloride	1.J	5.U	5.U	5.U	5.U	5.U
Acetone	19.	10.U	10.U	10.U	7.J	10.U
Carbon Disulfide	10.	22.	14.	9.	5.U	5.U
1,1-Dichloroethene	5.U	5.U	5.U	5.U	5.U	5.U
1,1-Dichloroethane	5.U	5.U	5.U	5.U	5.U	5.U
1,2-Dichloroethene (total)	5.U	11.	1.J	5.U	12.	11.
Chloroform	5.U	5.U	5.U	5.U	5.U	5.U
1,2-Dichloroethane	5.U	5.U	5.U	5.U	5.U	5.U
2-Butanone	10.U	10.U	10.U	10.U	10.U	10.U
1,1,1-Trichloroethane	5.U	5.U	5.U	5.U	5.U	5.U
Carbon Tetrachloride	5.U	5.U	5.U	5.U	5.U	5.U
Vinyl Acetate	10.U	10.U	10.U	10.U	10.U	10.U
Bromodichloromethane	5.U	5.U	5.U	5.U	5.U	5.U
1,2-Dichloropropane	5.U	5.U	5.U	5.U	5.U	5.U
cis-1,3-Dichloropropene	5.U	5.U	5.U	5.U	5.U	5.U
Trichloroethene	5.U	5.U	5.U	5.U	5.U	5.U
Dibromochloromethane	5.U	5.U	5.U	5.U	5.U	5.U
1,1,2-Trichloroethane	5.U	5.U	5.U	5.U	5.U	5.U
Benzene	5.U	5.U	3.J	5.U	2.J	2.J
trans-1,3-Dichloropropene	5.U	5.U	5.U	5.U	5.U	5.U
Bromoform	5.U	5.U	5.U	5.U	5.U	5.U
4-Methyl-2-Pentanone	10.U	10.U	10.U	10.U	10.U	10.U
2-Hexanone	10.U	10.U	10.U	10.U	10.U	10.U
Tetrachloroethene	5.U	5.U	5.U	5.U	5.U	5.U
1,1,2,2-Tetrachloroethane	5.U	5.U	5.U	5.U	5.U	5.U
Toluene	1.J	5.U	5.U	5.U	2.J	2.J
Chlorobenzene	5.U	5.U	5.U	5.U	5.U	5.U
Ethylbenzene	5.U	5.U	5.U	5.U	.7J	.6J
Styrene	5.U	5.U	5.U	5.U	5.U	5.U
Xylene (total)	5.U	5.U	5.U	5.U	2.J	1.J

PROJECT Camp Lejeune
 PREPARED BY Paul M. Pinkney
 DATE April 1991
 CHECKED BY Judy Yuma
 DATE 5-10-91

Date No: 06EJ-00368-3.04-4/1/91

CAMP LEJEUNE - HPIA
VOLATILE ORGANIC COMPOUNDS IN GROUNDWATER (INTERMEDIATE WELLS)
Concentration in ug/l

CHART = HPVOL6

wp8b\hp-vol.wr1 (6)

COMPOUND	HPGW31-2	HPGW32-2
Chloromethane	10.U	10.U
Bromomethane	10.U	10.U
Vinyl Chloride	10.U	10.U
Chloroethane	10.U	10.U
Methylene Chloride	5.U	5.U
Acetone	6.BJ	19.
Carbon Disulfide	1.J	5.J
1,1-Dichloroethene	5.U	5.U
1,1-Dichloroethane	5.U	5.U
1,2-Dichloroethene (total)	5.U	5.U
Chloroform	5.U	5.U
1,2-Dichloroethane	5.U	5.U
2-Butanone	10.U	10.U
1,1,1-Trichloroethane	5.U	5.U
Carbon Tetrachloride	5.U	5.U
Vinyl Acetate	10.U	10.U
Bromodichloromethane	5.U	5.U
1,2-Dichloropropane	5.U	5.U
cis-1,3-Dichloropropene	5.U	5.U
Trichloroethene	5.U	5.U
Dibromochloromethane	5.U	5.U
1,1,2-Trichloroethane	5.U	5.U
Benzene	5.U	27.
trans-1,3-Dichloropropene	5.U	5.U
Bromoform	5.U	5.U
4-Methyl-2-Pentanone	10.U	10.U
2-Hexanone	10.U	10.U
Tetrachloroethene	5.U	5.U
1,1,2,2-Tetrachloroethane	5.U	5.U
Toluene	5.U	31.
Chlorobenzene	5.U	5.U
Ethylbenzene	5.U	2.J
Styrene	5.U	5.U
Xylene (total)	1.J	8.

PROJECT	<u>Camp Lejeune</u>
PREPARED BY	<u>Paul M. Linders</u>
DATE	<u>April 1991</u>
CHECKED BY	<u>Judy Gurnea</u>
	<u>5-7-91</u>

Doc No: CLEJ - 00368 - 3.04 - 4/1/91

CAMP LEJEUNE - HPIA
SEMI-VOLATILE ORGANIC COMPOUNDS IN GROUNDWATER (INTERMEDIATE WELLS)
Concentration in ug/l

CHART = HPSV5A

wp8c\hp-sv.wr1 (5-A)

COMPOUND	HPGW4-2	HPGW9-2	HPGW17-2	HPGW24-2	HPGW30-2	HPGW30-2D (GWDUP4)
Phenol	10.U	10.U	10.U	10.U	10.U	10.U
bis(2-Chloroethyl)ether	10.U	10.U	10.U	10.U	10.U	10.U
2-Chlorophenol	10.U	10.U	10.U	10.U	10.U	10.U
1,3-Dichlorobenzene	10.U	10.U	10.U	10.U	10.U	10.U
1,4-Dichlorobenzene	10.U	10.U	10.U	10.U	10.U	10.U
Benzyl Alcohol	10.U	10.U	10.U	10.U	10.U	10.U
1,2-Dichlorobenzene	10.U	10.U	10.U	10.U	10.U	10.U
2-Methylphenol	10.U	10.U	10.U	10.U	10.U	10.U
bis(2-Chloroisopropyl)ether	10.U	10.U	10.U	10.U	10.U	10.U
4-Methylphenol	10.U	10.U	10.U	10.U	10.U	10.U
N-Nitroso-di-n-propylamine	10.U	10.U	10.U	10.U	10.U	10.U
Hexachloroethane	10.U	10.U	10.U	10.U	10.U	10.U
Nitrobenzene	10.U	10.U	10.U	10.U	10.U	10.U
Isophorone	10.U	10.U	10.U	10.U	10.U	10.U
2-Nitrophenol	10.U	10.U	10.U	10.U	10.U	10.U
2,4-Dimethylphenol	10.U	10.U	10.U	10.U	10.U	10.U
Benzoic acid	50.U	50.U	50.U	50.U	48.U	50.U
bis(2-Chloroethoxy)methane	10.U	10.U	10.U	10.U	10.U	10.U
2,4-Dichlorophenol	10.U	10.U	10.U	10.U	10.U	10.U
1,2,4-Trichlorobenzene	10.U	10.U	10.U	10.U	10.U	10.U
Naphthalene	10.U	10.U	56.	10.U	270.	88.
4-Chloroaniline	10.U	10.U	10.U	10.U	10.U	10.U
Hexachlorobutadiene	10.U	10.U	10.U	10.U	10.U	10.U
4-Chloro-3-methylphenol	10.U	10.U	10.U	10.U	10.U	10.U
2-Methylnaphthalene	10.U	10.U	2.J	10.U	9.J	10.U
Hexachlorocyclopentadiene	10.U	10.U	10.U	10.U	10.U	10.U
2,4,6-Trichlorophenol	10.U	10.U	10.U	10.U	10.U	10.U
2,4,5-Trichlorophenol	50.U	50.U	50.U	50.U	48.U	50.U
2-Chloronaphthalene	10.U	10.U	10.U	10.U	10.U	10.U
2-Nitroaniline	50.U	50.U	50.U	50.U	48.U	50.U
Dimethylphthalate	10.U	10.U	10.U	10.U	10.U	10.U
Acenaphthylene	10.U	10.U	10.U	10.U	10.U	10.U
2,6-Dinitrotoluene	10.U	10.U	10.U	10.U	10.U	10.U

PROJECT Camp Lejeune
 PREPARED BY Quincy Gunn
 DATE April 1, 1991
 CHECKED BY Eric Knight
 DATE 5/13/91

COMMENTS

Doc No: CL EJ - 00068 - 3.04 - 4/1/91

CAMP LEJEUNE - HPIA
SEMI-VOLATILE ORGANIC COMPOUNDS IN GROUNDWATER (INTERMEDIATE WELLS)
Concentration in ug/l

CHART = HPSV5B

wp8c\hp-sv.wr1 (5-B)

COMPOUND	HPGW4-2	HPGW9-2	HPGW17-2	HPGW24-2	HPGW30-2	HPGW30-2D (GWDUP4)
3-Nitroaniline	50.U	50.U	50.U	50.U	48.U	50.U
Acenaphthene	10.U	10.U	5.J	10.U	1.J	10.U
2,4-Dinitrophenol	50.U	50.U	50.U	50.U	48.U	50.U
4-Nitrophenol	50.U	50.U	50.U	50.U	48.U	50.U
Dibenzofuran	10.U	10.U	10.U	10.U	10.U	10.U
2,4-Dinitrotoluene	10.U	10.U	10.U	10.U	10.U	10.U
Diethylphthalate	10.U	10.U	10.U	10.U	10.U	10.U
4-Chlorophenyl-phenylether	10.U	10.U	10.U	10.U	10.U	10.U
Fluorene	10.U	10.U	10.U	10.U	10.U	10.U
4-Nitroaniline	50.U	50.U	50.U	50.U	48.U	50.U
4,6-Dinitro-2-methylphenol	50.U	50.U	50.U	50.U	48.U	50.U
N-Nitrosodiphenylamine	10.U	10.U	10.U	10.U	10.U	10.U
4-Bromophenyl-phenylether	10.U	10.U	10.U	10.U	10.U	10.U
Hexachlorobenzene	10.U	10.U	10.U	10.U	10.U	10.U
Pentachlorophenol	50.U	50.U	50.U	50.U	48.U	50.U
Phenanthrene	10.U	10.U	10.U	10.U	10.U	10.U
Anthracene	10.U	10.U	10.U	10.U	10.U	10.U
Di-n-butylphthalate	10.U	10.U	10.U	10.U	10.U	10.U
Fluoranthene	10.U	10.U	10.U	10.U	10.U	10.U
Pyrene	10.U	10.U	10.U	10.U	10.U	10.U
Butylbenzylphthalate	10.U	10.U	10.U	10.U	10.U	10.U
3,3'-Dichlorobenzidine	20.U	20.U	20.U	20.U	20.U	20.U
Benzo(a)anthracene	10.U	10.U	10.U	10.U	10.U	10.U
Chrysene	10.U	10.U	10.U	10.U	10.U	10.U
bis(2-Ethylhexyl)phthalate	10.U	2.J	1.J	2.J	10.U	10.U
Di-n-octylphthalate	10.U	10.U	10.U	10.U	10.U	10.U
Benzo(b)fluoranthene	10.U	10.U	10.U	10.U	10.U	10.U
Benzo(k)fluoranthene	10.U	10.U	10.U	10.U	10.U	10.U
Benzo(a)pyrene	10.U	10.U	10.U	10.U	10.U	10.U
Indeno(1,2,3-cd)pyrene	10.U	10.U	10.U	10.U	10.U	10.U
Dibenz(a,h)anthracene	10.U	10.U	10.U	10.U	10.U	10.U
Benzo(g,h,i)perylene	10.U	10.U	10.U	10.U	10.U	10.U

Doc No: CL 67 - 04518 - 3,04 - 4/11/91

CAMP LEJEUNE - HPIA
SEMI-VOLATILE ORGANIC COMPOUNDS IN GROUNDWATER (INTERMEDIATE WELLS)
Concentration in ug/l

CHART = HPSV6A

wp8c\hp-sv.wr1 (6-A)

COMPOUND	HPGW31-2	HPGW32-2
Phenol	10.U	10.U
bis(2-Chloroethyl)ether	10.U	10.U
2-Chlorophenol	10.U	10.U
1,3-Dichlorobenzene	10.U	10.U
1,4-Dichlorobenzene	10.U	10.U
Benzyl Alcohol	10.U	10.U
1,2-Dichlorobenzene	10.U	10.U
2-Methylphenol	10.U	10.U
bis(2-Chloroisopropyl)ether	10.U	10.U
4-Methylphenol	10.U	10.U
N-Nitroso-di-n-propylamine	10.U	10.U
Hexachloroethane	10.U	10.U
Nitrobenzene	10.U	10.U
Isophorone	10.U	10.U
2-Nitrophenol	10.U	10.U
2,4-Dimethylphenol	10.U	10.U
Benzoic acid	50.U	50.U
bis(2-Chloroethoxy)methane	10.U	10.U
2,4-Dichlorophenol	10.U	10.U
1,2,4-Trichlorobenzene	10.U	10.U
Naphthalene	10.U	10.U
4-Chloroaniline	10.U	10.U
Hexachlorobutadiene	10.U	10.U
4-Chloro-3-methylphenol	10.U	10.U
2-Methylnaphthalene	10.U	10.U
Hexachlorocyclopentadiene	10.U	10.U
2,4,6-Trichlorophenol	10.U	10.U
2,4,5-Trichlorophenol	50.U	50.U
2-Chloronaphthalene	10.U	10.U
2-Nitroaniline	50.U	50.U
Dimethylphthalate	10.U	10.U
Acenaphthylene	10.U	10.U
2,6-Dinitrotoluene	10.U	10.U

PROJECT Camp Lejeune

PREPARED BY Judy Herma

DATE April 1991

CHECKED BY EC Knight

DATE 5/10/91

COMMENTS _____

Doc No: CLEJ-00003 3.04 - 4/1/91

CAMP LEJEUNE - HPIA
SEMI-VOLATILE ORGANIC COMPOUNDS IN GROUNDWATER (INTERMEDIATE WELLS)
Concentration in ug/l

CHART = HPSV6B

wp8c\hp-sv.wr1 (6-B)

COMPOUND	HPGW31-2	HPGW32-2
3-Nitroaniline	50.U	50.U
Acenaphthene	10.U	10.U
2,4-Dinitrophenol	50.U	50.U
4-Nitrophenol	50.U	50.U
Dibenzofuran	10.U	10.U
2,4-Dinitrotoluene	10.U	10.U
Diethylphthalate	10.U	10.U
4-Chlorophenyl-phenylether	10.U	10.U
Fluorene	10.U	10.U
4-Nitroaniline	50.U	50.U
4,6-Dinitro-2-methylphenol	50.U	50.U
N-Nitrosodiphenylamine	10.U	10.U
4-Bromophenyl-phenylether	10.U	10.U
Hexachlorobenzene	10.U	10.U
Pentachlorophenol	50.U	50.U
Phenanthrene	10.U	10.U
Anthracene	10.U	10.U
Di-n-butylphthalate	10.U	10.U
Fluoranthene	10.U	10.U
Pyrene	10.U	10.U
Butylbenzylphthalate	10.U	10.U
3,3'-Dichlorobenzidine	20.U	20.U
Benzo(a)anthracene	10.U	10.U
Chrysene	10.U	10.U
bis(2-Ethylhexyl)phthalate	10.U	10.U
Di-n-octylphthalate	10.U	10.U
Benzo(b)fluoranthene	10.U	10.U
Benzo(k)fluoranthene	10.U	10.U
Benzo(a)pyrene	10.U	10.U
Indeno(1,2,3-cd)pyrene	10.U	10.U
Dibenz(a,h)anthracene	10.U	10.U
Benzo(g,h,i)perylene	10.U	10.U

Doc No: CLPT-00-091-8.091-4/1/91

CAMP LEJEUNE - HPIA
 PESTICIDES IN GROUNDWATER (INTERMEDIATE WELLS)
 Concentration in ug/l

CHART = HPPEST5

sy\wp8b\hp-pest.wr1 (5)

PESTICIDE/PCB	HPGW4-2	HPGW9-2	HPGW17-2	HPGW24-2	HPGW30-2	HPGW30-2D (GMDUP-4)
alpha-BHC	.05U	.05U	.05U	.05U	.05U	.05U
beta-BHC	.05U	.05U	.05U	.05U	.05U	.05U
delta-BHC	.05U	.05U	.05U	.05U	.05U	.05U
gamma-BHC (Lindane)	.05U	.05U	.05U	.05U	.05U	.05U
Heptachlor	.05U	.05U	.05U	.05U	.05U	.05U
Aldrin	.05U	.05U	.05U	.05U	.05U	.05U
Heptachlor epoxide	.05U	.05U	.05U	.05U	.05U	.05U
Endosulfan I	.05U	.05U	.05U	.05U	.05U	.05U
Dieldrin	.10U	.10U	.10U	.10U	.10U	.10U
4,4'-DDE	.10U	.10U	.10U	.10U	.10U	.10U
Endrin	.10U	.10U	.10U	.10U	.10U	.10U
Endosulfan II	.10U	.10U	.10U	.10U	.10U	.10U
4,4'-DDD	.10U	.10U	.10U	.10U	.10U	.10U
Endosulfan sulfate	.10U	.10U	.10U	.10U	.10U	.10U
4,4'-DDT	.10U	.10U	.10U	.10U	.10U	.10U
Methoxychlor	.50U	.50U	.50U	.50U	.50U	.50U
Endrin ketone	.10U	.10U	.10U	.10U	.10U	.10U
alpha-Chlordane	.50U	.50U	.50U	.50U	.50U	.50U
gamma-Chlordane	.50U	.50U	.50U	.50U	.50U	.50U
Toxaphene	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
Aroclor-1016	.50U	.50U	.50U	.50U	.50U	.50U
Aroclor-1221	.50U	.50U	.50U	.50U	.50U	.50U
Aroclor-1232	.50U	.50U	.50U	.50U	.50U	.50U
Aroclor-1242	.50U	.50U	.50U	.50U	.50U	.50U
Aroclor-1248	.50U	.50U	.50U	.50U	.50U	.50U
Aroclor-1254	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
Aroclor-1260	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U

PROJECT Camp Lejeune
 PREPARED BY Judy Yunka
 DATE April 1991
 CONTACT: Mandy Lejune
5/10/91

Doc No: CLEJ-00001 - 3.04 - 4/11/91

CAMP LEJEUNE - HPIA
PESTICIDES IN GROUNDWATER (INTERMEDIATE WELLS)
Concentration in ug/l

CHART = HPPEST6

sy\wp8b\hp-pest.wr1 (6)

PESTICIDE/PCB	HPGW31-2	HPGW32-2
alpha-BHC	.05U	.05U
beta-BHC	.05U	.05U
delta-BHC	.05U	.05U
gamma-BHC (Lindane)	.05U	.05U
Heptachlor	.05U	.05U
Aldrin	.05U	.05U
Heptachlor epoxide	.05U	.05U
Endosulfan I	.05U	.05U
Dieldrin	.10U	.10U
4,4'-DDE	.10U	.10U
Endrin	.10U	.10U
Endosulfan II	.10U	.10U
4,4'-DDD	.10U	.10U
Endosulfan sulfate	.10U	.10U
4,4'-DDT	.10U	.10U
Methoxychlor	.50U	.50U
Endrin ketone	.10U	.10U
alpha-Chlordane	.50U	.50U
gamma-Chlordane	.50U	.50U
Toxaphene	1.0U	1.0U
Aroclor-1016	.50U	.50U
Aroclor-1221	.50U	.50U
Aroclor-1232	.50U	.50U
Aroclor-1242	.50U	.50U
Aroclor-1248	.50U	.50U
Aroclor-1254	1.0U	1.0U
Aroclor-1260	1.0U	1.0U

PROJECT	<u>Camp Lejeune</u>
PREPARED BY	<u>Paul Suma</u>
DATE	<u>April 1991</u>
CHECKED BY	<u>EL King</u>
DATE	<u>5/6/91</u>
COMMENTS	<u></u>

CAMP LEJEUNE - HPIA
 INORGANICS IN GROUNDWATER (INTERMEDIATE WELLS)
 Concentration in ug/l

CHART = HPIG5

wp8e\hp-inor.wr1 (5)

METAL/COMPOUND	HPGW4-2	HPGW9-2	HPGW17-2	HPGW24-2	HPGW30-2	HPGW30-2D (GWDUP4)
Aluminum	230	170B	2760	2330	1860	1830
Antimony	13.3U	22.0U	22.0U	22.0U	13.3U	13.3U
Arsenic	1.5U	1.8U	1.8U	1.8U	1.5U	1.5U
Barium	33.6B	24.2B	82.1B	22.9B	28.7B	19.0B
Beryllium	1.5U	2.1	2.1	2.1U	0.61B	0.61B
Cadmium	4.3U	4.3U	4.3U	4.3U	4.3U	4.3U
Calcium	20100	101000	190000	105000	138000	132000
Chromium	7.6B	5.2U	14.6	11.0	4.9B	7.0B
Cobalt	6.0U	6.4U	6.4U	6.4U	6.0U	6.0U
Copper	7.3B	9.3B	9.2B	8.3B	7.3B	11.2B
Iron	354	461	2920	3460	4950	4850
Lead	27.1	2.7B	8.9	13.5	5.0	6.2
Magnesium	932B	2480B	3290B	1720B	2350B	2260B
Manganese	9.2B	9.3B	35.7	29.7	51.1	49.0
Mercury	0.10U	0.10U	0.10U	0.10U	0.10U	0.10U
Nickel	5.2U	11.0U	11.0U	11.0U	5.2U	5.2U
Potassium	106000	1040B	2050B	1230B	7180	7230
Selenium	3.4U	1.6U	1.8U	1.6U	3.4U	3.4U
Silver	1.8B	6.2U	6.2U	6.2U	1.6U	1.6U
Sodium	32900	7810	9930	7710	18600	215000
Thallium	4.4U	1.1U	1.1U	1.1U	4.4U	4.4U
Vanadium	2.4U	4.3U	11.2B	10.4B	5.7B	6.1B
Zinc	104	79.9	85.7	106	44.5	61.3
Cyanide	10.0U	10.0U	10.0U	10.0U	10.0U	10.0U

PROJECT Camp Lejeune
 PREPARED BY Eel Ruff
 DATE April 1997
 CHECKED BY Judy Guma
 DATE 5-8-97

Data No: CL EJ-00388 -3.0 & -4/1/97

Doc No: PL EJ - 00368 - 3.04 - 4/1/91

CAMP LEJEUNE - HPIA
INORGANICS IN GROUNDWATER (INTERMEDIATE WELLS)
Concentration in ug/l

CHART = HPING6

wp8e\hp-inor.wr1 (6)

METAL/COMPOUND	HPGW31-2	HPGW32-2
Aluminum	1100	322
Antimony	13.3U	13.3U
Arsenic	1.5U	1.5U
Barium	17.8B	67.3B
Beryllium	0.50U	0.50U
Cadmium	4.3U	4.3U
Calcium	68200	21500
Chromium	2.4B	11.0
Cobalt	6.0U	6.0U
Copper	12.7B	10.6B
Iron	1320	432
Lead	5.6	6.5
Magnesium	1770B	727B
Manganese	30.0	6.6B
Mercury	0.10U	0.10U
Nickel	6.9B	5.2U
Potassium	1680B	73500
Selenium	3.4U	3.4U
Silver	1.6U	2.2B
Sodium	7720	31800
Thallium	4.4U	4.4U
Vanadium	4.0B	2.4U
Zinc	46.1	62.1
Cyanide	10.0U	10.0U

PROJECT Camp Lejeune
PREPARED BY Judy Gurnea
DATE April 1991
CHECKED BY EC King
DATE 5/13/91
REMARKS _____

Doc No: OLEJ - 00368 - 3,04 - 4/1/91

CAMP LEJEUNE - HPIA
SEMI-VOLATILE ORGANIC COMPOUNDS IN GROUNDWATER (SHALLOW WELLS)

Concentration in ug/l ppb

CHART = HPSV1A

wp8c\hp-sv.wr1 (1-A)

COMPOUND	HPGW1	HPGW2	HPGW3	HPGW4-1	HPGW4-10 (GWDUP5)	HPGW5	HPGW6	HPGW7
Phenol	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
bis(2-Chloroethyl)ether	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
2-Chlorophenol	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
1,3-Dichlorobenzene	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
1,4-Dichlorobenzene	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Benzyl Alcohol	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
1,2-Dichlorobenzene	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
2-Methylphenol	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
bis(2-Chloroisopropyl)ether	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
4-Methylphenol	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
N-Nitroso-di-n-propylamine	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Hexachloroethane	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Nitrobenzene	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Isophorone	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
2-Nitrophenol	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
2,4-Dimethylphenol	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Benzoic acid	50.U	50.U	50.U	50.U	50.U	50.U	50.U	50.U
bis(2-Chloroethoxy)methane	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
2,4-Dichlorophenol	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
1,2,4-Trichlorobenzene	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Naphthalene	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
4-Chloroaniline	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Hexachlorobutadiene	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
4-Chloro-3-methylphenol	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
2-Methylnaphthalene	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Hexachlorocyclopentadiene	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
2,4,6-Trichlorophenol	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
2,4,5-Trichlorophenol	50.U	50.U	50.U	50.U	50.U	50.U	50.U	50.U
2-Chloronaphthalene	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
2-Nitroaniline	50.U	50.U	50.U	50.U	50.U	50.U	50.U	50.U
Dimethylphthalate	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Acenaphthylene	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
2,6-Dinitrotoluene	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U

PROJECT Camp Lejeune
 PREPARED BY Quail Guma
 DATE April 1991
 CHECKED BY Ed [Signature]
 DATE 5/10/91

CAMP LEJEUNE - HPIA
SEMI-VOLATILE ORGANIC COMPOUNDS IN GROUNDWATER (SHALLOW WELLS)
Concentration in ug/l

CHART = HPSV1B

wp8c\hp-sv.wr1 (1-B)

COMPOUND	HPGW1	HPGW2	HPGW3	HPGW4-1	HPGW4-1D (GWDUP5)	HPGW5	HPGW6	HPGW7
3-Nitroaniline	50.U	50.U	50.U	50.U	50.U	50.U	50.U	50.U
Acenaphthene	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
2,4-Dinitrophenol	50.U	50.U	50.U	50.U	50.U	50.U	50.U	50.U
4-Nitrophenol	50.U	50.U	50.U	50.U	50.U	50.U	50.U	50.U
Dibenzofuran	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
2,4-Dinitrotoluene	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Diethylphthalate	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
4-Chlorophenyl-phenylether	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Fluorene	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
4-Nitroaniline	50.U	50.U	50.U	50.U	50.U	50.U	50.U	50.U
4,6-Dinitro-2-methylphenol	50.U	50.U	50.U	50.U	50.U	50.U	50.U	50.U
N-Nitrosodiphenylamine	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
4-Bromophenyl-phenylether	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Hexachlorobenzene	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Pentachlorophenol	50.U	50.U	50.U	50.U	50.U	50.U	50.U	50.U
Phenanthrene	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Anthracene	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Di-n-butylphthalate	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Fluoranthene	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Pyrene	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Butylbenzylphthalate	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
3,3'-Dichlorobenzidine	20.U	20.U	20.U	20.U	20.U	20.U	20.U	20.U
Benzo(a)anthracene	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Chrysene	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
bis(2-Ethylhexyl)phthalate	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Di-n-octylphthalate	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Benzo(b)fluoranthene	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Benzo(k)fluoranthene	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Benzo(a)pyrene	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Indeno(1,2,3-cd)pyrene	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Dibenz(a,h)anthracene	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Benzo(g,h,i)perylene	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U

PROJECT Living Air
 PREPARED BY Audrey Shuma
 DATE April 1991
 CHECKED BY [Signature]
 DATE 5/10/91

DRC No: CLEJ-00368-3.04-4/1/91

CAMP LEJEUNE - HPIA
SEMI-VOLATILE ORGANIC COMPOUNDS IN GROUNDWATER (SHALLOW WELLS)
Concentration in ug/l

CHART = HPSV2A

wp8c\hp-sv.wr1 (2-A)

COMPOUND	HPGW8	HPGW9-1	HPGW10	HPGW11	HPGW12	HPGW12D (GWDUP2)	HPGW13	HPGW14
Phenol	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
bis(2-Chloroethyl)ether	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
2-Chlorophenol	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
1,3-Dichlorobenzene	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
1,4-Dichlorobenzene	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Benzyl Alcohol	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
1,2-Dichlorobenzene	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
2-Methylphenol	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
bis(2-Chloroisopropyl)ether	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
4-Methylphenol	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
N-Nitroso-di-n-propylamine	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Hexachloroethane	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Nitrobenzene	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Isophorone	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
2-Nitrophenol	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
2,4-Dimethylphenol	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Benzoic acid	50.U	50.U	50.U	50.U	50.U	50.U	50.U	50.U
bis(2-Chloroethoxy)methane	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
2,4-Dichlorophenol	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
1,2,4-Trichlorobenzene	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Naphthalene	10.U	190.	10.U	10.U	10.U	10.U	10.U	10.U
4-Chloroaniline	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Hexachlorobutadiene	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
4-Chloro-3-methylphenol	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
2-Methylnaphthalene	10.U	49.	10.U	10.U	10.U	10.U	10.U	10.U
Hexachlorocyclopentadiene	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
2,4,6-Trichlorophenol	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
2,4,5-Trichlorophenol	50.U	50.U	50.U	50.U	50.U	50.U	50.U	50.U
2-Chloronaphthalene	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
2-Nitroaniline	50.U	50.U	50.U	50.U	50.U	50.U	50.U	50.U
Dimethylphthalate	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Acenaphthylene	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
2,6-Dinitrotoluene	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U

PROJECT	Camp Lejeune
PREPARED BY	Judy Yuma
DATE	April 1991
CHECKED BY	E. J. Yuma
DATE	5/6/91

Doc No: CLKJ-00868-3.04-4/1/91

CAMP LEJEUNE - HPIA
SEMI-VOLATILE ORGANIC COMPOUNDS IN GROUNDWATER (SHALLOW WELLS)
Concentration in ug/l

CHART = HPSV2B

wp8c\hp-sv.wr1 (2-B)

COMPOUND	HPGW8	HPGW9-1	HPGW10	HPGW11	HPGW12	HPGW12D (GWDUP2)	HPGW13	HPGW14
3-Nitroaniline	50.U	50.U	50.U	50.U	50.U	50.U	50.U	50.U
Acenaphthene	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
2,4-Dinitrophenol	50.U	50.U	50.U	50.U	50.U	50.U	50.U	50.U
4-Nitrophenol	50.U	50.U	50.U	50.U	50.U	50.U	50.U	50.U
Dibenzofuran	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
2,4-Dinitrotoluene	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Diethylphthalate	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
4-Chlorophenyl-phenylether	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Fluorene	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
4-Nitroaniline	50.U	50.U	50.U	50.U	50.U	50.U	50.U	50.U
4,6-Dinitro-2-methylphenol	50.U	50.U	50.U	50.U	50.U	50.U	50.U	50.U
N-Nitrosodiphenylamine	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
4-Bromophenyl-phenylether	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Hexachlorobenzene	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Pentachlorophenol	50.U	50.U	50.U	50.U	50.U	50.U	50.U	50.U
Phenanthrene	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Anthracene	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Di-n-butylphthalate	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Fluoranthene	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Pyrene	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Butylbenzylphthalate	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
3,3'-Dichlorobenzidine	20.U	20.U	20.U	20.U	20.U	20.U	20.U	20.U
Benzo(a)anthracene	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Chrysene	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
bis(2-Ethylhexyl)phthalate	2.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Di-n-octylphthalate	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Benzo(b)fluoranthene	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Benzo(k)fluoranthene	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Benzo(a)pyrene	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Indeno(1,2,3-cd)pyrene	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Dibenz(a,h)anthracene	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Benzo(g,h,i)perylene	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U

PROJECT Camp Lejeune
 PREPARED BY Quay Quana
 DATE April 1991
 CHECKED BY SS [Signature]
 DATE 5/12/91

Doc No: CLEJ - 00368 - 3.04 - 4/1/91

CAMP LEJEUNE - HP1A
SEMI-VOLATILE ORGANIC COMPOUNDS IN GROUNDWATER (SHALLOW WELLS)
Concentration in ug/l

CHART = HPSV4A

wp8c\hp-sv.wr1 (4-A)

COMPOUND	HPG24-1	HPGW25	HPGW26	HPGW26D (GWDUP8)	HPGW29	21GW1	22GW1	22GW2
Phenol	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
bis(2-Chloroethyl)ether	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
2-Chlorophenol	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
1,3-Dichlorobenzene	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
1,4-Dichlorobenzene	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Benzyl Alcohol	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
1,2-Dichlorobenzene	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
2-Methylphenol	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
bis(2-Chloroisopropyl)ether	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
4-Methylphenol	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
N-Nitroso-di-n-propylamine	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Hexachloroethane	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Nitrobenzene	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Isophorone	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
2-Nitrophenol	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
2,4-Dimethylphenol	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Benzoic acid	50.U	50.U	50.U	50.U	50.U	50.U	50.U	50.U
bis (2-Chloroethoxy) methane	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
2,4-Dichlorophenol	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
1,2,4-Trichlorobenzene	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Naphthalene	130.	10.U	10.U	10.U	10.U	10.U	230.	10.U
4-Chloroaniline	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Hexachlorobutadiene	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
4-Chloro-3-methylphenol	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
2-Methylnaphthalene	3.J	10.U	10.U	10.U	10.U	10.U	28.	10.U
Hexachlorocyclopentadiene	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
2,4,6-Trichlorophenol	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
2,4,5-Trichlorophenol	50.U	50.U	50.U	50.U	50.U	50.U	50.U	50.U
2-Chloronaphthalene	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
2-Nitroaniline	50.U	50.U	50.U	50.U	50.U	50.U	50.U	50.U
Dimethylphthalate	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Acenaphthylene	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
2,6-Dinitrotoluene	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U

PROJECT Camp Lejeune
 PREPARED BY Paul Shuman
 DATE April 1991
 CHECKED BY [Signature]
 DATE 5/10/91

Doc No: CL EJ - 00 268 - 3.04 - 4/11/91.

CAMP LEJEUNE - HPIA
SEMI-VOLATILE ORGANIC COMPOUNDS IN GROUNDWATER (SHALLOW WELLS)
Concentration in ug/l

wp8c\hp-sv.wr1 (4-B)

CHART = HPSV4B

COMPOUND	HPG24-1	HPGW25	HPGW26	HPGW26D (GWDUP8)	HPGW29	21GW1	22GW1	22GW2
3-Nitroaniline	50.U	50.U	50.U	50.U	50.U	50.U	50.U	50.U
Acenaphthene	6.J	10.U	10.U	10.U	10.U	10.U	10.U	10.U
2,4-Dinitrophenol	50.U	50.U	50.U	50.U	50.U	50.U	50.U	50.U
4-Nitrophenol	50.U	50.U	50.U	50.U	50.U	50.U	50.U	50.U
Dibenzofuran	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
2,4-Dinitrotoluene	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Diethylphthalate	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
4-Chlorophenyl-phenylether	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Fluorene	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
4-Nitroaniline	50.U	50.U	50.U	50.U	50.U	50.U	50.U	50.U
4,6-Dinitro-2-methylphenol	50.U	50.U	50.U	50.U	50.U	50.U	50.U	50.U
N-Nitrosodiphenylamine	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
4-Bromophenyl-phenylether	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Hexachlorobenzene	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Pentachlorophenol	50.U	50.U	50.U	50.U	50.U	50.U	50.U	50.U
Phenanthrene	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Anthracene	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Di-n-butylphthalate	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Fluoranthene	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Pyrene	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Butylbenzylphthalate	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
3,3'-Dichlorobenzidine	20.U	20.U	20.U	20.U	20.U	20.U	20.U	20.U
Benzo(a)anthracene	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Chrysene	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
bis(2-Ethylhexyl)phthalate	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Di-n-octylphthalate	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Benzo(b)fluoranthene	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Benzo(k)fluoranthene	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Benzo(a)pyrene	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Indeno(1,2,3-cd)pyrene	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Dibenz(a,h)anthracene	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Benzo(g,h,i)perylene	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U

PROJECT	<i>Camp Lejeune</i>
PREPARED BY	<i>Shelby Sumner</i>
DATE	<i>April 1991</i>
CHECKED BY	<i>SL Sumner</i>
DATE	<i>5/6/91</i>

Doc No: CLEJ-00368-3.04-4/1/91

CAMP LEJEUNE - HPIA
VOLATILE ORGANIC COMPOUNDS IN GROUNDWATER (SHALLOW WELLS)
Concentration in ug/l

CHART = HPVOL2

wp8b\hp-vol.wr1 (2)

COMPOUND	HPGW8	HPGW9-1	HPGW10	HPGW11	HPGW12	HPGW12D (GWDUP2)	HPGW13	HPGW14
Chloromethane	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Bromomethane	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Vinyl Chloride	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Chloroethane	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Methylene Chloride	5.U	5.U	5.U	5.U	5.U	3.BJ	1.J	5.U
Acetone	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Carbon Disulfide	5.U	13.	5.U	11.	5.U	5.U	5.U	5.U
1,1-Dichloroethene	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
1,1-Dichloroethane	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
1,2-Dichloroethene (total)	5.U	1200.	5.U	5.U	5.U	5.U	5.U	5.U
Chloroform	5.U	15.	5.U	5.U	5.U	5.U	5.U	5.U
1,2-Dichloroethane	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
2-Butanone	10.U	10.U	10.U	10.U	10.U	4.J	10.U	10.U
1,1,1-Trichloroethane	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
Carbon Tetrachloride	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
Vinyl Acetate	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Bromodichloromethane	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
1,2-Dichloropropane	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
cis-1,3-Dichloropropene	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
Trichloroethene	2.J	14000.	5.U	5.U	5.U	5.U	5.U	5.U
Dibromochloromethane	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
1,1,2-Trichloroethane	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
Benzene	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
trans-1,3-Dichloropropene	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
Bromoform	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
4-Methyl-2-Pentanone	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
2-Hexanone	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Tetrachloroethene	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
1,1,2,2-Tetrachloroethane	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
Toluene	5.U	330.J	5.U	5.U	5.U	5.U	5.U	5.U
Chlorobenzene	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
Ethylbenzene	5.U	700.	5.U	5.U	5.U	5.U	5.U	5.U
Styrene	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
Xylene (total)	5.U	3300.	5.U	5.U	5.U	5.U	5.U	5.U

CAMP LEJEUNE - HPIA
VOLATILE ORGANIC COMPOUNDS IN GROUNDWATER (SHALLOW WELLS)
Concentration in ug/l

CHART = HPVOL3

wp8b\hp-vol.wr1 (3)

COMPOUND	HPGW15	HPGW16	HPGW17-1	HPGW19	HPGW20	HPGW21	HPGW22	HPGW23
Chloromethane	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Bromomethane	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Vinyl Chloride	10.U	10.U	10.U	10.U	10.U	10.U	10.U	8.J
Chloroethane	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Methylene Chloride	5.U	5.U	5.U	5.U	.9J	4.J	9.	5.U
Acetone	10.U	10.U	10.U	10.U	10.U	4.8J	10.U	10.U
Carbon Disulfide	5.U	5.U	5.U	5.U	2.J	5.U	5.U	5.
1,1-Dichloroethene	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
1,1-Dichloroethane	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
1,2-Dichloroethene (total)	7.	5.U	5.U	.8J	5.U	5.U	5.U	8900.
Chloroform	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
1,2-Dichloroethane	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
2-Butanone	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
1,1,1-Trichloroethane	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
Carbon Tetrachloride	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
Vinyl Acetate	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Bromodichloromethane	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
1,2-Dichloropropane	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
cis-1,3-Dichloropropene	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
Trichloroethene	4.J	5.U	5.U	2.J	5.U	3.J	5.U	3700.
Dibromochloromethane	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
1,1,2-Trichloroethane	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
Benzene	5.U	5.U	5.U	5.U	5.U	5.U	5.U	24.
trans-1,3-Dichloropropene	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
Bromoform	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
4-Methyl-2-Pentanone	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
2-Hexanone	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Tetrachloroethene	5.U	5.U	5.U	2.J	5.U	5.U	5.U	5.U
1,1,2,2-Tetrachloroethane	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
Toluene	5.U	5.U	5.U	5.U	5.U	5.U	5.U	13.
Chlorobenzene	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
Ethylbenzene	5.U	5.U	5.U	5.U	5.U	.9J	5.U	9.
Styrene	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
Xylene (total)	5.U	5.U	5.U	5.U	5.U	5.	5.U	41.

Doc No: CLEJ - 00368 - 3.04 - 4/11/91

CAMP LEJEUNE - HPIA
VOLATILE ORGANIC COMPOUNDS IN GROUNDWATER (SHALLOW WELLS)
Concentration in ug/l

CHART = HPVOL4

wp8b\hp-vol.wr1 (4)

COMPOUND	HPGW24-1	HPGW25	HPGW26	HPGW26D (GWDUPB)	HPGW29	21GW1	22GW1	22GW2
Chloromethane	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Bromomethane	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Vinyl Chloride	25000.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Chloroethane	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Methylene Chloride	5.U	5.U	3.J	5.U	.9J	5.U	5.U	5.U
Acetone	10.U	10.U	7.BJ	6.BJ	10.U	10.U	10.U	10.U
Carbon Disulfide	7.	5.U	2.J	8.	5.U	5.U	5.U	5.U
1,1-Dichloroethene	65.	5.U	5.U	5.U	5.U	5.U	5.U	5.U
1,1-Dichloroethane	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
1,2-Dichloroethene (total)	42000.D	5.U	5.U	5.U	5.U	5.U	5.U	5.U
Chloroform	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
1,2-Dichloroethane	.8J	5.U	5.U	5.U	5.U	5.U	110.B	5.U
2-Butanone	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
1,1,1-Trichloroethane	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
Carbon Tetrachloride	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
Vinyl Acetate	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Bromodichloromethane	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
1,2-Dichloropropane	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
cis-1,3-Dichloropropene	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
Trichloroethene	180.	5.U	5.U	5.U	5.U	5.U	5.J	5.U
Dibromochloromethane	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
1,1,2-Trichloroethane	3.J	5.U	5.U	5.U	5.U	5.U	5.U	5.U
Benzene	3.J	5.U	5.U	5.U	5.U	5.U	7900.	5.U
trans-1,3-Dichloropropene	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
Bromoform	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
4-Methyl-2-Pentanone	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
2-Hexanone	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Tetrachloroethene	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
1,1,2,2-Tetrachloroethane	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
Toluene	13.	5.U	5.U	5.U	5.U	5.U	16000.	5.U
Chlorobenzene	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
Ethylbenzene	3.J	5.U	5.U	5.U	5.U	5.U	1900.J	5.U
Styrene	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
Xylene (total)	10.	5.U	5.U	5.U	5.U	5.U	9800.	5.U

Doc No: CLEJ-00368-3.04-4/1/91

Doc No: CLEJ - 00368 - 3.04 - 4/11/91

CAMP LEJEUNE - HPIA
INORGANICS IN GROUNDWATER (SHALLOW WELLS)
Concentration in ug/l

CHART = HPING1

wp8e\hp-inor.wr1 (1)

METAL/COMPOUND	HPGW1	HPGW2	HPGW3	HPGW4-1	HPGW4-1D (GWDUP5)	HPGW5	HPGW6	HPGW7
Aluminum	30600	56000	19300	97000	96800	3580	1050000	161000
Antimony	13.3U	15.6B	46.5B	21.9B	34.6B	13.3U	13.3U	22.0U
Arsenic	8.0B	24.1	15.6	15.5	19.4	1.5U	31.5	18.3
Barium	166B	84.4B	55.5B	268	273	13.6B	1960	670
Beryllium	6.0	1.7B	1.2B	6.7	6.4	0.86B	20.0	4.8B
Cadmium	4.3U	4.3U	4.3U	4.3U	4.3U	4.3U	4.3U	4.3U
Calcium	30100	46800	29800	296000	310000	80100	11200	10500
Chromium	87.0	64.3	16.7	187	195	3.6B	1590	313
Cobalt	6.0U	6.1B	8.0U	14.4B	18.2B	6.0U	51.9	17.7B
Copper	17.4B	17.3B	5.5B	35.4	39.2	4.1B	194	44.2
Iron	64100	34800	10400	100000	106000	3100	265000	65700
Lead	16.6	29.4	11.4	66.6	45.6	13.6	60.7	112
Magnesium	5590	3980B	2580B	12100	12500	11100	49700	18200
Manganese	168	77.7	53.9	425	436	162	487	136
Mercury	0.10U	0.10U	0.10U	0.10U	0.10U	0.10U	1.4	0.25
Nickel	31.3B	16.9B	12.1B	57.0	64.3	5.2U	161	50.7
Potassium	3940B	4820B	2230B	9710	9520	3930B	55300	12000
Selenium	3.4U	3.6B	3.4U	3.4U	3.4U	4.4B	3.4U	2.6B
Silver	4.7B	1.6U	1.6U	1.6U	2.4B	1.6U	2.3B	6.2U
Sodium	10900	3680B	6390	11400	11100	22400	14800	11500
Thallium	4.4U	4.4U	4.4U	4.4U	4.4U	4.4U	4.4U	1.1U
Vanadium	92.1	160	35.9B	213	222	2.4U	1610	285
Zinc	163	88.2	59.8	228	272	71.3	537	218
Cyanide	10.0U	11.2U	11.2	10.0U	10.0U	10.0U	10.0U	10.0U

CAMP LEJEUNE - HPIA
 INORGANICS IN GROUNDWATER (SHALLOW WELLS)
 Concentration in ug/l

CHART = HPIG2

wp8e\hp-inor.wr1 (2)

METAL/COMPOUND	HPGW8	HPGW9-1	HPGW10	HPGW11	HPGW12	HPGW12D (GWDUP2)	HPGW13	HPGW14
Aluminum	91700	59100	348000	95200	24000	2110	13500	109000
Antimony	22.0U	17.6B	22.0U	22.0U	22.0U	22.0U	13.3U	13.3U
Arsenic	28.4	3.0B	39.9	9.1B	1.8U	1.8U	47.0	45.6
Barium	173B	126B	492	298	91.5B	46.3B	129B	299
Beryllium	2.1U	0.79B	5.6	2.1U	2.1U	2.1U	0.59B	2.7B
Cadmium	4.3U	4.3U	4.3U	4.3U	4.3U	4.3U	4.3U	4.3U
Calcium	10600	23500	56200	9730	34100	117000	4100B	4340B
Chromium	91.8	66.4	310	140	25.5	5.2U	48.9	127
Cobalt	7.9B	6.0U	31.4B	6.4U	6.4B	6.4U	9.3B	12.9B
Copper	19.5B	27.1	72.2	30.0	5.9B	3.2B	17.0B	34.8
Iron	40900	19800	119000	31800	5600	100	33500	87200
Lead	54.1	128	186	45.2	15.7	1.0U	9.0	66.5
Magnesium	5780	11000	14900	11200	7700	119B	7700	8770
Manganese	46.5	45.0	255	103	18.3	1.8U	30.3	80.0
Mercury	0.13B	0.10U	0.82	0.10B	0.10U	0.10U	0.10U	0.26
Nickel	25.2B	15.1B	92.2	23.6B	11.0U	11.0U	21.1B	41.6
Potassium	5300	5370	17100	7320	2600B	5280	4520B	6890
Selenium	3.6B	3.6B	1.6U	3.7B	5.8	1.6U	3.4U	3.4U
Silver	6.2U	1.6U	6.2U	6.2U	6.2U	6.2U	2.1B	2.5B
Sodium	8600	20400	3950B	5410	9310	6560	18100	11500
Thallium	1.1U	4.4U	1.1U	1.1U	1.1U	1.1U	4.4U	4.4U
Vanadium	945	75.3	376	166	31.1	6.6B	40.5B	163
Zinc	118	115	224	94.0	46.6	44.5	127	206
Cyanide	10.0U	10.0U	10.0U	10.0U	10.0U	10.0U	10.0U	10.0U

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CAMP LEJEUNE - HPIA
 INORGANICS IN GROUNDWATER (SHALLOW WELLS)
 Concentration in ug/l

CHART = HPIG3

wp8e\hp-inor.wr1 (3)

METAL/COMPOUND	HPGW15	HPGW16	HPGW17-1	HPGW19	HPGW20	HPGW21	HPGW22	HPGW23
Aluminum	18500	213000	29000	6840	289000	38500	71800	82500
Antimony	22.0U	22.0U	22.0U	13.3U	21.9B	13.3U	24.6B	24.6B
Arsenic	1.8U	17.3	1.8U	5.0B	49.4	12.1	7.2B	6.6B
Barium	119B	276	70.1B	92.9B	814	114B	102B	196B
Beryllium	2.1U	5.3	2.1U	2.3B	9.5	3.7B	0.60B	1.0B
Cadmium	4.3U	4.3U	4.3U	4.3U	4.3U	4.3U	4.3U	4.3U
Calcium	12000	33400	60800	3120B	6370	26100	96300	7890
Chromium	21.4	209	37.0	13.8	424	45.0	79.8	76.3
Cobalt	6.4U	18.7B	6.4U	6.0U	80.8	17.6B	6.0U	11.9B
Copper	12.2B	44.6B	20.0B	8.6B	97.7	28.3	40.0	30.5
Iron	4800	47200	10500	36200	152000	56600	24400	23300
Lead	16.6	100	23.7	31.7	20.0	49.4	39.4	45.0
Magnesium	5650	8110	6790	4200B	18000	10200	5210	6050
Manganese	18.3	98.3	31.3	79.0	217	136	94.1	68.8
Mercury	0.10U	0.13B	0.10U	0.10U	0.50	0.10U	0.10U	0.10U
Nickel	11.0U	41.0	11.9B	7.3B	168	30.8B	23.2B	33.2B
Potassium	3390B	12100	3530B	2370B	16600	5160	6930	3880B
Selenium	1.6U	1.6U	1.6U	3.4U	3.4U	3.5B	3.4U	3.4U
Silver	6.2U	6.2U	6.2U	2.9B	4.3B	1.6U	2.5B	6.6B
Sodium	6950	4960	4480B	23500	11000	11800	5300	6260
Thallium	1.1U	1.4B	1.1U	4.4U	4.4U	4.4U	4.4U	4.4U
Vanadium	24.9B	225	52.1	19.8B	419	178	100	77.6
Zinc	88.1	157	76.5	81.1	637	273	77.4	89.3
Cyanide	10.0U	10.0U	10.0U	10.0U	10.0U	10.0U	10.0U	10.0U

Doc No: CLEU-00368-3.04-4/1/91

CAMP LEJEUNE - HP1A
 INORGANICS IN GROUNDWATER (SHALLOW WELLS)
 Concentration in ug/l

CHART = HPIWG4

wp8e\hp-inor.wr1 (4)

METAL/COMPOUND	HPGW24-1	HPGW25	HPGW26	HPGW26-D (GWDUP8)	HPGW29	21GW1	22GW1	22GW2
Aluminum	15400	218000	10400	7830N	47800	40400	587000	16900
Antimony	22.0U	13.3U	13.3U	13.3U	13.3U	17.0B	20.9B	13.3U
Arsenic	4.2B	13.2	1.5U	1.5U	25.6	41.4	50.3	11.0
Barium	60.1B	289	72.0B	67.7B	633	71.0B	804	67.0B
Beryllium	2.1U	2.8B	0.50U	0.50U	8.7	1.1B	5.8	0.50U
Cadmium	4.3U	4.3U	4.3U	4.3UN	4.3U	4.3U	4.3UN	4.3U
Calcium	16600	6270	2830B	2770B	59200	60400	33800	127000
Chromium	26.3	205	13.0	10.3	179	39.0	457	26.3
Cobalt	6.4U	10.5B	6.0U	6.0U	17.8B	10.8B	30.9B	10.9B
Copper	11.5B	57.7	9.1B	7.2B	39.9	13.2B	81.4	11.2B
Iron	19200	46600	19000	10900	76200	54900	101000	16200
Lead	21.4	71.6	9.0	5.2	29.1	15.8	307	16.2
Magnesium	2430B	10000	1830B	1710B	15000	10300	21200	7730
Manganese	54.8	118	10.6B	8.8B	236	200	284	763
Mercury	0.10U	0.10U	0.10U	0.10U	0.10U	0.10U	0.35	0.10U
Nickel	14.0U	39.2B	5.2U	5.2U	93.5	21.4B	186	17.0B
Potassium	3130B	13100	2230B	1580B	5900	4400B	24000	3030B
Selenium	1.6U	3.4U	3.4U	3.4UN	3.4U	3.4U	3.4U	4.2B
Silver	6.2U	3.9B	1.6U	1.6U	3.1B	1.6U	4.1B	1.6U
Sodium	11800	18200	5910	5690	7850	17400	9560	8570
Thallium	1.1U	4.4U	4.4U	4.4U	4.4U	4.4U	4.4U	4.4U
Vanadium	39.2B	259	149	83.6	108	138	518	40.3B
Zinc	70.5	119	68.1	43.1	329	233	295	91.8
Cyanide	10.0U	10.0U	10.0U	10.0U	10.0U	10.0U	10.0U	10.0U

Doc No: CLEJ-00368-3.04-4/11/91

Doc No: CLEJ-00368-3.04-4/1/91

CAMP LEJEUNE - HPIA
PESTICIDES IN GROUNDWATER (SHALLOW WELLS)
Concentration in ug/l

CHART = HPPEST1

sy\wp8b\hp-pest.wr1 (1)

PESTICIDE/PCB	HPGW1	HPGW2	HPGW3	HPGW4-1	HPGW4-1D (GWDUP5)	HPGW5	HPGW6	HPGW7
alpha-BHC	.05U	.05U	.05U	.05U	.05U	.05U	.05U	.05U
beta-BHC	.05U	.05U	.05U	.05U	.05U	.05U	.05U	.05U
delta-BHC	.05U	.05U	.05U	.05U	.05U	.05U	.05U	.05U
gamma-BHC (Lindane)	.05U	.05U	.05U	.05U	.05U	.05U	.05U	.05U
Heptachlor	.05U	.05U	.05U	.05U	.05U	.05U	.05U	.05U
Aldrin	.05U	.05U	.05U	.05U	.05U	.05U	.05U	.05U
Heptachlor epoxide	.05U	.05U	.05U	.05U	.05U	.05U	.05U	.05U
Endosulfan I	.05U	.05U	.05U	.05U	.05U	.05U	.05U	.05U
Dieldrin	.10U	.10U	.10U	.10U	.10U	.10U	.10U	.10U
4,4'-DDE	.10U	.10U	.10U	.10U	.10U	.10U	.10U	.10U
Endrin	.10U	.10U	.10U	.10U	.10U	.10U	.10U	.10U
Endosulfan II	.10U	.10U	.10U	.10U	.10U	.10U	.10U	.10U
4,4'-DDD	.10U	.10U	.10U	.10U	.10U	.10U	.10U	.10U
Endosulfan sulfate	.10U	.10U	.10U	.10U	.10U	.10U	.10U	.10U
4,4'-DDT	.10U	.10U	.10U	.10U	.10U	.10U	.10U	.10U
Methoxychlor	.50U	.50U	.50U	.50U	.50U	.50U	.50U	.50U
Endrin ketone	.10U	.10U	.10U	.10U	.10U	.10U	.10U	.10U
alpha-Chlordane	.50U	.50U	.50U	.50U	.50U	.50U	.50U	.50U
gamma-Chlordane	.50U	.50U	.50U	.50U	.50U	.50U	.50U	.50U
Toxaphene	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
Aroclor-1016	.50U	.50U	.50U	.50U	.50U	.50U	.50U	.50U
Aroclor-1221	.50U	.50U	.50U	.50U	.50U	.50U	.50U	.50U
Aroclor-1232	.50U	.50U	.50U	.50U	.50U	.50U	.50U	.50U
Aroclor-1242	.50U	.50U	.50U	.50U	.50U	.50U	.50U	.50U
Aroclor-1248	.50U	.50U	.50U	.50U	.50U	.50U	.50U	.50U
Aroclor-1254	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
Aroclor-1260	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U

PROJECT	Camp Lejeune
PREPARED BY	Glady Sumner
DATE	April 1991
CHECKED BY	Ed [Signature]
DATE	5/6/91

CAMP LEJEUNE - HPIA
 PESTICIDES IN GROUNDWATER (SHALLOW WELLS)
 Concentration in ug/l

CHART = HPPEST3

sy\wp8b\hp-pest.wr1 (3)

PESTICIDE/PCB	HPGW15	HPGW16	HPGW17-1	HPGW19	HPGW20	HPGW21	HPGW22	HPGW23
alpha-BHC	.05U	.05U	.05U	.05U	.05U	.05U	.05U	.05U
beta-BHC	.05U	.05U	.05U	.05U	.05U	.05U	.05U	.05U
delta-BHC	.05U	.05U	.05U	.05U	.05U	.05U	.05U	.05U
gamma-BHC (Lindane)	.05U	.05U	.05U	.05U	.05U	.05U	.05U	.05U
Heptachlor	.05U	.05U	.05U	.05U	.05U	.05U	.05U	.05U
Aldrin	.05U	.05U	.05U	.05U	.05U	.05U	.05U	.05U
Heptachlor epoxide	.05U	.05U	.05U	.05U	.05U	.05U	.05U	.05U
Endosulfan I	.05U	.05U	.05U	.05U	.05U	.05U	.05U	.05U
Dieldrin	.10U	.10U	.11	.10U	.10U	.10U	.10U	.10U
4,4'-DDE	.10U	.10U	.10U	.10U	.10U	.10U	.10U	.10U
Endrin	.10U	.10U	.10U	.10U	.10U	.10U	.10U	.10U
Endosulfan II	.10U	.10U	.10U	.10U	.10U	.10U	.10U	.10U
4,4'-DDD	.10U	.10U	.10U	.10U	.10U	.10U	.10U	.10U
Endosulfan sulfate	.10U	.10U	.10U	.10U	.10U	.10U	.10U	.10U
4,4'-DDT	.10U	.10U	.10U	.10U	.10U	.10U	.10U	.10U
Methoxychlor	.50U	.50U	.50U	.50U	.50U	.50U	.50U	.50U
Endrin ketone	.10U	.10U	.10U	.10U	.10U	.10U	.10U	.10U
alpha-Chlordane	.50U	.50U	.50U	.50U	.50U	.50U	.50U	.50U
gamma-Chlordane	.50U	.50U	.50U	.50U	.50U	.50U	.50U	.50U
Toxaphene	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
Aroclor-1016	.50U	.50U	.50U	.50U	.50U	.50U	.50U	.50U
Aroclor-1221	.50U	.50U	.50U	.50U	.50U	.50U	.50U	.50U
Aroclor-1232	.50U	.50U	.50U	.50U	.50U	.50U	.50U	.50U
Aroclor-1242	.50U	.50U	.50U	.50U	.50U	.50U	.50U	.50U
Aroclor-1248	.50U	.50U	.50U	.50U	.50U	.50U	.50U	.50U
Aroclor-1254	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
Aroclor-1260	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U

PROJECT Camp Lejeune
 PREPARED BY Judy Aurora
 DATE April 1991
 CHECKED BY Ed King
 DATE 5/6/91

Doc No: CLEJ-00388-3.04-4/1/91

CAMP LEJEUNE - HPIA
 PESTICIDES IN GROUNDWATER (SHALLOW WELLS)
 Concentration in ug/l

CHART = HPPEST4

sy\wp8b\hp-pest.wr1 (4)

Doc No: CLEJ-00368-3.04 - 4/11/91

PESTICIDE/PCB	HPGW24-1	HPGW25	HPGW26	HPGW26D (GWDUP8)	HPGW29	21GW1	22GW1	22GW2
alpha-BHC	.05U	.05U	.05U	.05U	.05U	.05U	.05U	.05U
beta-BHC	.05U	.05U	.05U	.05U	.05U	.05U	.05U	.05U
delta-BHC	.05U	.05U	.05U	.05U	.05U	.05U	.05U	.05U
gamma-BHC (Lindane)	.05U	.05U	.05U	.05U	.05U	.05U	.05U	.05U
Heptachlor	.05U	.05U	.05U	.05U	.05U	.05U	.05U	.05U
Aldrin	.05U	.05U	.05U	.05U	.05U	.05U	.05U	.05U
Heptachlor epoxide	.05U	.05U	.05U	.05U	.05U	.05U	.05U	.05U
Endosulfan I	.05U	.05U	.05U	.05U	.05U	.05U	.05U	.05U
Dieldrin	.10U	.10U	.10U	.10U	.10U	.10U	.10U	.10U
4,4'-DDE	.10U	.10U	.10U	.10U	.10U	.10U	.10U	.10U
Endrin	.10U	.10U	.10U	.10U	.10U	.10U	.10U	.10U
Endosulfan II	.10U	.10U	.10U	.10U	.10U	.10U	.10U	.10U
4,4'-DDD	.10U	.10U	.10U	.10U	.10U	.10U	.10U	.10U
Endosulfan sulfate	.10U	.10U	.10U	.10U	.10U	.10U	.10U	.10U
4,4'-DDT	.10U	.10U	.10U	.10U	.10U	.10U	.10U	.10U
Methoxychlor	.50U	.50U	.50U	.50U	.50U	.50U	.50U	.50U
Endrin ketone	.10U	.10U	.10U	.10U	.10U	.10U	.10U	.10U
alpha-Chlordane	.50U	.50U	.50U	.50U	.50U	.50U	.50U	.50U
gamma-Chlordane	.50U	.50U	.50U	.50U	.50U	.50U	.50U	.50U
Toxaphene	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
Aroclor-1016	.50U	.50U	.50U	.50U	.50U	.50U	.50U	.50U
Aroclor-1221	.50U	.50U	.50U	.50U	.50U	.50U	.50U	.50U
Aroclor-1232	.50U	.50U	.50U	.50U	.50U	.50U	.50U	.50U
Aroclor-1242	.50U	.50U	.50U	.50U	.50U	.50U	.50U	.50U
Aroclor-1248	.50U	.50U	.50U	.50U	.50U	.50U	.50U	.50U
Aroclor-1254	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
Aroclor-1260	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U

PROJECT	Camp Lejeune
PREPARED BY	Judy Anna
DATE	April 1991
CHECKED BY	E. J. [Signature]
DATE	5/6/91

CAMP LEJEUNE - HP1A
VOLATILE ORGANIC COMPOUNDS IN WATER SUPPLY WELLS
Concentration in ug/l

11/11/91
15-
11/11/91

CHART = HPVOL8

wp8b\hp-vol.wr1 (8)

COMPOUND	WS602	WS603	WS634	WS634D (GWDUP9)	WS637	WS642	WS652	WS660
Chloromethane	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Bromomethane	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Vinyl Chloride	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Chloroethane	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Methylene Chloride	21.	5.U	5.U	5.U	5.U	5.U	20.	5.U
Acetone	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Carbon Disulfide	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
1,1-Dichloroethene	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
1,1-Dichloroethane	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
1,2-Dichloroethene (total)	12.	5.U	1.U	5.U	5.U	5.U	5.U	2.U
Chloroform	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
1,2-Dichloroethane	8.	5.U	5.U	5.U	5.U	5.U	5.U	5.U
2-Butanone	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
1,1,1-Trichloroethane	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
Carbon Tetrachloride	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
Vinyl Acetate	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Bromodichloromethane	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
1,2-Dichloropropane	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
cis-1,3-Dichloropropene	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
Trichloroethene	.7U	1.U	5.U	5.U	.9U	5.U	5.U	1.U
Dibromochloromethane	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
1,1,2-Trichloroethane	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
Benzene	17.	5.U	5.U	5.U	5.U	5.U	5.U	5.U
trans-1,3-Dichloropropene	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
Bromoform	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
4-Methyl-2-Pentanone	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
2-Hexanone	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Tetrachloroethene	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
1,1,2,2-Tetrachloroethane	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
Toluene	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
Chlorobenzene	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
Ethylbenzene	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
Styrene	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
Xylene (total)	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U

Doc No: CLEJ - 00368 - 3.04 - 4/1/91

CAMP LEJEUNE - HPIA
 INORGANICS IN GROUNDWATER (WATER SUPPLY WELLS)
 Concentration in ug/l

CHART = HPWSING

wp8e\hp-inor.wr1 (8)

Doc No: CLEJ-00368-3.04-4/1/91

METAL/COMPOUND	WS-602	WS-603	WS-634	WS-634D (GWDUP9)	WS-637	WS-642	WS-652	WS-660
Aluminum	95.2B	20.7U	20.7U	20.7U	20.7U	20.7U	20.7U	20.7U
Antimony	13.3U	13.3U	13.3U	13.3U	13.3U	13.3U	13.3U	13.3U
Arsenic	1.5U	1.5U	1.5U	1.5U	1.5U	1.5U	1.5U	1.5U
Barium	4.8B	8.7B	10.2B	10.4B	9.5B	7.6B	376	10.3B
Beryllium	0.50U	0.50U	0.50U	0.86B	0.50U	0.50U	0.50U	0.50U
Cadmium	4.3U	4.3U	4.3U	4.3U	4.3U	4.3U	4.3U	4.3U
Calcium	128000	91400	58900	61200	62700	74100	69000	91900
Chromium	1.5U	1.5U	1.5U	1.5U	1.5U	1.5U	1.7B	1.5U
Cobalt	6.0U	6.0U	6.0U	6.0U	6.0U	6.0U	6.0U	6.0U
Copper	97.1	3.2U	4.9B	4.0B	17.9B	8.5B	22.5B	5.0B
Iron	12800	1030	1420	1550	4620	1150	65000	11500
Lead	8.8	1.7U	1.7U	1.7U	3.3	1.7U	32.8	21.8
Magnesium	5440	3240B	1190B	1240B	1650B	1690B	1910B	2800B
Manganese	120	22.2	12.5B	12.5B	28.3	24.6	151	75.6
Mercury	0.10U	0.10U	0.10U	0.10U	0.10U	0.10U	0.10U	0.10U
Nickel	5.2U	5.2U	5.2U	5.2U	5.2U	5.2U	5.2U	5.2U
Potassium	2100B	2620B	890B	1090B	1370B	1390B	1200B	2040B
Selenium	3.4U	3.4U	3.4U	3.4U	3.4U	3.4U	3.4U	3.4U
Silver	1.6U	1.6U	1.6U	1.6U	1.6U	1.6U	2.2B	1.6U
Sodium	12500	11000	5410	5900	7900	7730	8680	8730
Thallium	4.4U	4.4U	4.4U	4.4U	4.4U	4.4U	4.4U	4.4U
Vanadium	2.4B	2.4U	2.4U	2.5B	2.4U	2.4U	2.4U	2.7B
Zinc	112	39.9	23.4	14.3B	86.7	38.6	18100	4590
Cyanide	10.0U	10.0U	10.0U	10.0U	10.0U	10.0U	10.0U	10.0U

PROJECT	<u>Camp Lejeune</u>
PREPARED BY	<u>[Signature]</u>
DATE	<u>5/11/91</u>
CHECKED BY	<u>E. Q. King</u>
DATE	<u>5/10/91</u>

PRINTING

Doc No: CLEJ-00368-3.04-04/1/91

CAMP LEJEUNE - HPIA
INORGANICS IN QA/QC SAMPLES
Concentration in ug/l (Field Blank and D.I. Water Blank)
Concentration in mg/kg (Mud Blank)

CHART = QAQCING1

wp8e\qhp-inor.wr1 (1)

METAL/COMPOUND	MB-001	FB-001	DI-001	DI-002	DI-005
Aluminum	21,811.76	126B	23.0U	20.7U	20.7U
Antimony	140.00U	22.0U	22.0U	13.3U	13.3U
Arsenic	21.059U	1.8U	1.8U	1.5U	1.5U
Barium	123.53	1.2B	2.4B	1.7U	4.0B
Beryllium	10.59U	2.1U	2.1U	0.50U	0.50U
Cadmium	0.00U	4.3U	4.3U	4.3U	4.3U
Calcium	122708.95	16400	241B	314B	510B
Chromium	0.00U	5.2U	5.2B	1.5U	1.5U
Cobalt	36.47U	6.4U	6.4U	6.0U	6.0U
Copper	0.00U	3.9B	5.4B	10.7B	9.0B
Iron	28118.35	154	144	85.4B	72.9B
Lead	53.03	1.0U	1.0U	1.7U	1.7U
Magnesium	8541.39	1660B	66.5B	81.5B	70.3B
Manganese	610.60	3.2B	4.6B	1.2U	1.8B
Mercury	0.00U	0.10U	0.10U	0.10U	0.10U
Nickel	0.00U	11.0U	11.0U	4.8	5.2U
Potassium	6116.62	1440B	446U	343U	481B
Selenium	17.18U	1.6U	1.6U	3.4U	3.4U
Silver	4.71U	6.2U	6.2B	1.6U	1.6U
Sodium	13282.68	8240	614B	6.8U	908B
Thallium	0.00U	1.1U	1.1U	4.4U	4.4U
Vanadium	14.12U	4.3U	4.3U	2.4U	2.4U
Zinc	222.36	18.2B	11.0B	21.4	46.8
Cyanide	0.00U	10.0U	10.0U	10.0U	10.0U

PROJECT Camp Lejeune
PREPARED BY Julie Yuma
DATE April 1991
CHECKED BY E. C. Kuyper
DATE 5/14/91
REVISIONS _____

Doc No: CLEJ-00368-3.04-04/1/91

CAMP LEJEUNE - HPIA
INORGANICS IN QA/QC SAMPLES
Concentration in ug/l

CHART = QAQCING3

wp8e\qhp-inor.wr1 (2)

METAL/COMPOUND	EB-001	EB-002	EB-003	EB-004	EB-005	EB-008	EB-011	EB-013
Aluminum	42.6B	28.5B	21.00U	21.00U	21.00U	56.00B	56.00B	20.7U
Antimony	22.0U	22.0U	28.00B	28.00B	42.00B	27.00U	27.00U	13.3U
Arsenic	1.8U	1.8U	2.00U	2.00U	2.00U	2.00U	2.00U	1.5U
Barium	1.4U	1.2U	3.00B	3.00B	3.00B	2.00B	2.00B	4.4B
Beryllium	2.1U	2.1U	1.00U	1.00U	1.00U	1.00U	4.00B	0.50U
Cadmium	4.3U	4.3U	5.00	6.00	5.00	11.00	3.00U	4.3U
Calcium	281B	232B	152.00B	319.00B	142.00B	237.00B	100.00U	502B
Chromium	5.2U	5.2U	4.00B	3.00U	3.00B	3.00B	7.00B	1.6B
Cobalt	6.4U	6.4U	6.00B	8.00B	6.00B	7.00B	6.00U	6.0U
Copper	6.1B	3.9B	2.00U	3.00B	2.00B	4.00B	4.00B	15.8B
Iron	888	145	83.00B	174.00	119.00	208.00	9.00U	79.9B
Lead	1.0U	1.0U	1.20B	1.00U	2.00B	2.90B	1.00UW	1.7U
Magnesium	68.7B	63.1B	136.00U	136.00U	136.00U	136.00U	136.00U	113B
Manganese	3.7B	2.6B	1.00B	4.00B	3.00B	10.00B	1.00U	1.2U
Mercury	0.10U	0.10U	0.20U	0.20U	0.20U	0.20U	0.20U	0.10U
Nickel	11.0U	11.0U	12.00B	12.00B	10.00B	91.00	9.00U	7.2B
Potassium	446U	446U	371.00B	484.00B	309.00B	296.00B	273.00U	343U
Selenium	1.6U	1.6U	1.20B	1.80B	1.20B	1.00UW	1.00U	3.4U
Silver	6.2U	6.2U	4.00U	5.00B	4.00U	4.00B	4.00U	2.0B
Sodium	617B	582B	118.00B	288.00B	127.00B	141.00B	401000.00	1500B
Thallium	1.1U	1.1U	1.00UW	1.00UW	1.00UW	1.00UW	1.00U	4.4U
Vanadium	4.3U	4.3U	3.00U	4.00B	3.00U	4.00B	3.00B	2.4U
Zinc	13.2B	10.3B	20.00	24.00	23.00	28.00	2.00U	17.8B
Cyanide	15.1	10.0U	5.00U	5.00U	5.00U	5.00U	5.00U	10.0U

Doc No: CLEJ - 00368 - 3.04 - 04/11/91

CAMP LEJEUNE - HPIA
TCLP METALS IN EQUIPMENT BLANKS
Concentration in ug/l

CHART = QAQCTCLP

sy\wp8d\qhp-tclp.wr1 (1)

TCLP METALS	EB-006	EB-007	EB-010
Arsenic	68.00B	52.00B	74.00B
Barium	55.00B	72.00B	85.00BNE
Cadmium	3.00B	5.00B	4.00B
Chromium	4.00B	3.00U	3.00U
Lead	34.00B	27.00U	51.00B
Mercury	0.20U	0.20U	0.20U
Selenium	117.00B	63.00B	63.00U
Silver	4.00B	4.00U	4.00U

PROJECT Camp Lejeune
PREPARED BY Judy Guma
DATE April 1991
CHECKED BY E.L. Knopf
DATE 5/14/91

REVISIONS

Doc No: 06EJ - 00368 - 3.04 - 04/1/91

CAMP LEJEUNE - HPIA
PESTICIDES IN QA/QC SAMPLES
Concentration in ug/l (Field Blank and D.I. Water Blanks)
Concentration in ug/kg (Mud blank)

CHART = QAQCHPP1

sy\wp8d\qhp-pest.wr1 (1)

PESTICIDE/PCB	MB-001	FB-001	DI-001	DI-002	DI-005
alpha-BHC	600.U	.05U	.05U	.05U	.05U
beta-BHC	600.U	.05U	.05U	.05U	.05U
delta-BHC	600.U	.05U	.05U	.05U	.05U
gamma-BHC (Lindane)	600.U	.05U	.05U	.05U	.05U
Heptachlor	600.U	.05U	.05U	.05U	.05U
Aldrin	54.8J	.05U	.05U	.05U	.05U
Heptachlor epoxide	600.U	.05U	.05U	.05U	.05U
Endosulfan I	600.U	.05U	.05U	.05U	.05U
Dieldrin	150.8J	.10U	.10U	.10U	.10U
4,4'-DDE	1200.U	.10U	.10U	.10U	.10U
Endrin	1200.U	.10U	.10U	.10U	.10U
Endosulfan II	1200.U	.10U	.10U	.10U	.10U
4,4'-DDD	1200.U	.10U	.10U	.10U	.10U
Endosulfan sulfate	1200.U	.10U	.10U	.10U	.10U
4,4'-DDT	1200.U	.10U	.10U	.10U	.10U
Methoxychlor	6000.U	.50U	.50U	.50U	.50U
Endrin ketone	1200.U	.10U	.10U	.10U	.10U
alpha-Chlordane	6000.U	.50U	.50U	.50U	.50U
gamma-Chlordane	6000.U	.50U	.50U	.50U	.50U
Toxaphene	12000.U	1.0U	1.0U	1.0U	1.0U
Aroclor-1016	6000.U	.50U	.50U	.50U	.50U
Aroclor-1221	6000.U	.50U	.50U	.50U	.50U
Aroclor-1232	6000.U	.50U	.50U	.50U	.50U
Aroclor-1242	6000.U	.50U	.50U	.50U	.50U
Aroclor-1248	6000.U	.50U	.50U	.50U	.50U
Aroclor-1254	12000.U	1.0U	1.0U	1.0U	1.0U
Aroclor-1260	12000.U	1.0U	1.0U	1.0U	1.0U

PROJECT Camp Lejeune
PREPARED BY Judy Shum
DATE April 1991
CHECKED BY E.O. Knight
DATE 5/13/91
REMARKS _____

CAMP LEJEUNE - HPIA
 PESTICIDES IN QA/QC SAMPLES
 Concentration in ug/l

CHART = QAQCHPP2

sy\wp8d\qhp-pest.wr1 (2)

PESTICIDE/PCB	EB-001	EB-002	EB-003	EB-004	EB-005	EB-008	EB-011	EB-013
alpha-BHC	.05U	.05U	0.050U	0.050U	0.050U	0.050U	0.050U	.05U
beta-BHC	.05U	.05U	0.050U	0.050U	0.050U	0.050U	0.050U	.05U
delta-BHC	.05U	.05U	0.050U	0.050U	0.050U	0.050U	0.050U	.05U
gamma-BHC (Lindane)	.05U	.05U	0.050U	0.050U	0.050U	0.050U	0.050U	.05U
Heptachlor	.05U	.05U	0.050U	0.050U	0.050U	0.050U	0.050U	.05U
Aldrin	.05U	.05U	0.050U	0.050U	0.050U	0.050U	0.050U	.05U
Heptachlor epoxide	.05U	.05U	0.050U	0.050U	0.050U	0.050U	0.050U	.05U
Endosulfan I	.05U	.05U	0.050U	0.050U	0.050U	0.050U	0.050U	.05U
Dieldrin	.10U	.10U	0.10U	0.10U	0.10U	0.10U	0.10U	.10U
4,4'-DDE	.10U	.10U	0.10U	0.10U	0.10U	0.10U	0.10U	.10U
Endrin	.10U	.10U	0.10U	0.10U	0.10U	0.10U	0.10U	.10U
Endosulfan II	.10U	.10U	0.10U	0.10U	0.10U	0.10U	0.10U	.10U
4,4'-DDD	.10U	.10U	0.10U	0.10U	0.10U	0.10U	0.10U	.10U
Endosulfan sulfate	.10U	.10U	0.10U	0.10U	0.10U	0.10U	0.10U	.10U
4,4'-DDT	.10U	.10U	0.10U	0.10U	0.10U	0.10U	0.10U	.10U
Methoxychlor	.50U	.50U	0.50U	0.50U	0.50U	0.50U	0.50U	.50U
Endrin ketone	.10U	.10U	0.10U	0.10U	0.10U	0.10U	0.10U	.10U
alpha-Chlordane	.50U	.50U	0.50U	0.50U	0.50U	0.50U	0.50U	.50U
gamma-Chlordane	.50U	.50U	0.50U	0.50U	0.50U	0.50U	0.50U	.50U
Toxaphene	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
Aroclor-1016	.50U	.50U	0.50U	0.50U	0.50U	0.50U	0.50U	.50U
Aroclor-1221	.50U	.50U	0.50U	0.50U	0.50U	0.50U	0.50U	.50U
Aroclor-1232	.50U	.50U	0.50U	0.50U	0.50U	0.50U	0.50U	.50U
Aroclor-1242	.50U	.50U	0.50U	0.50U	0.50U	0.50U	0.50U	.50U
Aroclor-1248	.50U	.50U	0.50U	0.50U	0.50U	0.50U	0.50U	.50U
Aroclor-1254	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
Aroclor-1260	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U

Doc No: CLCT - 00368 - 3.04 - 4/11/91

CAMP LEJEUNE - HPIA
 PESTICIDES IN QA/QC SAMPLES
 Concentration in ug/l

CHART = QAQCHPP3

sy\wp8d\qhp-pest.wr1 (3)

PESTICIDE/PCB	EB-006	EB-007	EB-010
alpha-BHC	0.050U	0.050U	0.050U
beta-BHC	0.050U	0.050U	0.050U
delta-BHC	0.050U	0.050U	0.050U
gamma-BHC (Lindane)	0.050U	0.050U	0.050U
Heptachlor	0.050U	0.050U	0.050U
Aldrin	0.050U	0.050U	0.050U
Heptachlor epoxide	0.050U	0.050U	0.050U
Endosulfan I	0.050U	0.050U	0.050U
Dieldrin	0.10U	0.10U	0.10U
4,4'-DDE	0.10U	0.10U	0.10U
Endrin	0.10U	0.10U	0.10U
Endosulfan II	0.10U	0.10U	0.10U
4,4'-DDD	0.10U	0.10U	0.10U
Endosulfan sulfate	0.10U	0.10U	0.10U
4,4'-DDT	0.10U	0.10U	0.10U
Methoxychlor	0.50U	0.50U	0.50U
Endrin ketone	0.10U	0.10U	0.10U
alpha-Chlordane	0.50U	0.50U	0.50U
gamma-Chlordane	0.50U	0.50U	0.50U
Toxaphene	1.0U	1.0U	1.0U
Aroclor-1016	0.50U	0.50U	0.50U
Aroclor-1221	0.50U	0.50U	0.50U
Aroclor-1232	0.50U	0.50U	0.50U
Aroclor-1242	0.50U	0.50U	0.50U
Aroclor-1248	0.50U	0.50U	0.50U
Aroclor-1254	1.0U	1.0U	1.0U
Aroclor-1260	1.0U	1.0U	1.0U

PROJECT	Camp Lejeune
PREPARED BY	Julie Luma
DATE	April 1991
CHECKED BY	EL Rumpf
DATE	5/8/91
COMMENTS	

Dore No: CLEJ-00368-3.04-411171

Doc No: CLEJ-00368-3.04-4/11/91

CAMP LEJEUNE - HPIA
SEMI-VOLATILE ORGANIC COMPOUNDS IN QA/QC SAMPLES
Concentration in ug/l (Field Blank and D.I. Water Blanks)
Concentration in ug/kg (Mud Blank)

CHART = QACHPS1A

wp8c\qhp-sv.wr1 (1-A)

COMPOUND	MB-001	FB-001	D1-001	D1-002	D1-005
Phenol	39000.U	10.U	10.U	10.U	10.U
bis(2-Chloroethyl)ether	39000.U	10.U	10.U	10.U	10.U
2-Chlorophenol	39000.U	10.U	10.U	10.U	10.U
1,3-Dichlorobenzene	39000.U	10.U	10.U	10.U	10.U
1,4-Dichlorobenzene	39000.U	10.U	10.U	10.U	10.U
Benzyl Alcohol	39000.U	10.U	10.U	10.U	10.U
1,2-Dichlorobenzene	39000.U	10.U	10.U	10.U	10.U
2-Methylphenol	39000.U	10.U	10.U	10.U	10.U
bis(2-Chloroisopropyl)ether	39000.U	10.U	10.U	10.U	10.U
4-Methylphenol	39000.U	10.U	10.U	10.U	10.U
N-Nitroso-di-n-propylamine	39000.U	10.U	10.U	10.U	10.U
Hexachloroethane	39000.U	10.U	10.U	10.U	10.U
Nitrobenzene	39000.U	10.U	10.U	10.U	10.U
Isophorone	39000.U	10.U	10.U	10.U	10.U
2-Nitrophenol	39000.U	10.U	10.U	10.U	10.U
2,4-Dimethylphenol	39000.U	10.U	10.U	10.U	10.U
Benzoic acid	200000.BJ	50.U	50.U	50.U	50.U
bis(2-Chloroethoxy)methane	39000.U	10.U	10.U	10.U	10.U
2,4-Dichlorophenol	39000.U	10.U	10.U	10.U	10.U
1,2,4-Trichlorobenzene	39000.U	10.U	10.U	10.U	10.U
Naphthalene	39000.U	10.U	10.U	10.U	10.U
4-Chloroaniline	39000.U	10.U	10.U	10.U	10.U
Hexachlorobutadiene	39000.U	10.U	10.U	10.U	10.U
4-Chloro-3-methylphenol	39000.U	10.U	10.U	10.U	10.U
2-Methylnaphthalene	39000.U	10.U	10.U	10.U	10.U
Hexachlorocyclopentadiene	39000.U	10.U	10.U	10.U	10.U
2,4,6-Trichlorophenol	39000.U	10.U	10.U	10.U	10.U
2,4,5-Trichlorophenol	200000.BJ	50.U	50.U	50.U	50.U
2-Chloronaphthalene	39000.U	10.U	10.U	10.U	10.U
2-Nitroaniline	200000.BJ	50.U	50.U	50.U	50.U
Dimethylphthalate	39000.U	10.U	10.U	10.U	10.U
Acenaphthylene	39000.U	10.U	10.U	10.U	10.U
2,6-Dinitrotoluene	39000.U	10.U	10.U	10.U	10.U

PROJECT Camp Lejeune
 PREPARED BY Judy Yuma
 DATE April 1991
 CHECKED BY Ed Knight
 DATE 5/10/91
 COMMENTS _____

Doc No : CLEJ - 00368 - 3.04 - 4/1/91

CAMP LEJEUNE - HPIA
SEMI-VOLATILE ORGANIC COMPOUNDS IN QA/QC SAMPLES
Concentration in ug/l (Field Blank and D.I. Water Blanks)
Concentration in ug/kg (Mud Blank)

CHART = QACHPS1B

wp8c\qhp-sv.wr1 (1-B)

COMPOUND	MB-001	FB-001	DI-001	DI-002	DI-005
3-Nitroaniline	200000.U	50.U	50.U	50.U	50.U
Acenaphthene	39000.U	10.U	10.U	10.U	10.U
2,4-Dinitrophenol	200000.U	50.U	50.U	50.U	50.U
4-Nitrophenol	5100.J	50.U	50.U	50.U	50.U
Dibenzofuran	39000.U	10.U	10.U	10.U	10.U
2,4-Dinitrotoluene	39000.U	10.U	10.U	10.U	10.U
Diethylphthalate	39000.U	10.U	10.U	10.U	10.U
4-Chlorophenyl-phenylether	39000.U	10.U	10.U	10.U	10.U
Fluorene	39000.U	10.U	10.U	10.U	10.U
4-Nitroaniline	200000.U	50.U	50.U	50.U	50.U
4,6-Dinitro-2-methylphenol	200000.U	50.U	50.U	50.U	50.U
N-Nitrosodiphenylamine	39000.U	10.U	10.U	10.U	10.U
4-Bromophenyl-phenylether	39000.U	10.U	10.U	10.U	10.U
Hexachlorobenzene	39000.U	10.U	10.U	10.U	10.U
Pentachlorophenol	200000.U	50.U	50.U	50.U	50.U
Phenanthrene	39000.U	10.U	10.U	10.U	10.U
Anthracene	39000.U	10.U	10.U	10.U	10.U
Di-n-butylphthalate	39000.U	10.U	10.U	10.U	10.U
Fluoranthene	39000.U	10.U	10.U	10.U	10.U
Pyrene	1400.J	10.U	10.U	10.U	10.U
Butylbenzylphthalate	61000.	10.U	10.U	10.U	10.U
3,3'-Dichlorobenzidine	78000.	20.U	20.U	20.U	20.U
Benzo(a)anthracene	39000.U	10.U	10.U	10.U	10.U
Chrysene	39000.U	10.U	10.U	10.U	10.U
bis(2-Ethylhexyl)phthalate	200000.BJ	10.U	10.U	10.U	10.U
Di-n-octylphthalate	39000.U	10.U	10.U	10.U	10.U
Benzo(b)fluoranthene	39000.U	10.U	10.U	10.U	10.U
Benzo(k)fluoranthene	39000.U	10.U	10.U	10.U	10.U
Benzo(a)pyrene	39000.U	10.U	10.U	10.U	10.U
Indeno(1,2,3-cd)pyrene	39000.U	10.U	10.U	10.U	10.U
Dibenz(a,h)anthracene	39000.U	10.U	10.U	10.U	10.U
Benzo(g,h,i)perylene	39000.U	10.U	10.U	10.U	10.U

Date No: 025J-00368-3.04-4/1/91

CAMP LEJEUNE - HPIA
SEMI-VOLATILE ORGANIC COMPOUNDS IN QA/QC SAMPLES
Concentration in ug/l

CHART = QACHPS2A

wp8c\qhp-sv.wr1 (2-A)

COMPOUND	EB-001	EB-002	EB-003	EB-004	EB-005	EB-008	EB-011	EB-013
Phenol	10.U	10.U	10U	10U	10U	10U	10U	10.U
bis(2-Chloroethyl)ether	10.U	10.U	10U	10U	10U	10U	10U	10.U
2-Chlorophenol	10.U	10.U	10U	10U	10U	10U	10U	10.U
1,3-Dichlorobenzene	10.U	10.U	10U	10U	10U	10U	10U	10.U
1,4-Dichlorobenzene	10.U	10.U	10U	10U	10U	10U	10U	10.U
Benzyl Alcohol	10.U	10.U	10U	10U	10U	10U	10U	10.U
1,2-Dichlorobenzene	10.U	10.U	10U	10U	10U	10U	10U	10.U
2-Methylphenol	10.U	10.U	10U	10U	10U	10U	10U	10.U
bis(2-Chloroisopropyl)ether	10.U	10.U	10U	10U	10U	10U	10U	10.U
4-Methylphenol	10.U	10.U	10U	10U	10U	10U	10U	10.U
N-Nitroso-di-n-propylamine	10.U	10.U	10U	10U	10U	10U	10U	10.U
Hexachloroethane	10.U	10.U	10U	10U	10U	10U	10U	10.U
Nitrobenzene	10.U	10.U	10U	10U	10U	10U	10U	10.U
Isophorone	10.U	10.U	10U	10U	10U	10U	10U	10.U
2-Nitrophenol	10.U	10.U	10U	10U	10U	10U	10U	10.U
2,4-Dimethylphenol	10.U	10.U	10U	10U	10U	10U	10U	10.U
Benzoic acid	50.U	50.U	50U	50U	50U	50U	50U	50.U
bis(2-Chloroethoxy)methane	10.U	10.U	10U	10U	10U	10U	10U	10.U
2,4-Dichlorophenol	10.U	10.U	10U	10U	10U	10U	10U	10.U
1,2,4-Trichlorobenzene	10.U	10.U	10U	10U	10U	10U	10U	10.U
Naphthalene	10.U	10.U	10U	10U	10U	10U	10U	10.U
4-Chloroaniline	10.U	10.U	10U	10U	10U	10U	10U	10.U
Hexachlorobutadiene	10.U	10.U	10U	10U	10U	10U	10U	10.U
4-Chloro-3-methylphenol	10.U	10.U	10U	10U	10U	10U	10U	10.U
2-Methylnaphthalene	10.U	10.U	10U	10U	10U	10U	10U	10.U
Hexachlorocyclopentadiene	10.U	10.U	10U	10U	10U	10U	10U	10.U
2,4,6-Trichlorophenol	10.U	10.U	10U	10U	10U	10U	10U	10.U
2,4,5-Trichlorophenol	50.U	50.U	50U	50U	50U	50U	50U	50.U
2-Chloronaphthalene	10.U	10.U	10U	10U	10U	10U	10U	10.U
2-Nitroaniline	50.U	50.U	50U	50U	50U	50U	50U	50.U
Dimethylphthalate	10.U	10.U	10U	10U	10U	10U	10U	10.U
Acenaphthylene	10.U	10.U	10U	10U	10U	10U	10U	10.U
2,6-Dinitrotoluene	10.U	10.U	10U	10U	10U	10U	10U	10.U

CAMP LEJEUNE - HPIA
SEMI-VOLATILE ORGANIC COMPOUNDS IN QA/QC SAMPLES
Concentration in ug/l

CHART = QACHPS2B

wp8c\hp-sv.wr1 (2-B)

COMPOUND	EB-001	EB-002	EB-003	EB-004	EB-005	EB-008	EB-011	EB-013
3-Nitroaniline	50.U	50.U	50U	50U	50U	50U	50U	50.U
Acenaphthene	10.U	10.U	10U	10U	10U	10U	10U	10.U
2,4-Dinitrophenol	50.U	50.U	50U	50U	50U	50U	50U	50.U
4-Nitrophenol	50.U	50.U	50U	50U	50U	50U	50U	50.U
Dibenzofuran	10.U	10.U	10U	10U	10U	10U	10U	10.U
2,4-Dinitrotoluene	10.U	10.U	10U	10U	10U	10U	10U	10.U
Diethylphthalate	10.U	10.U	10U	10U	10U	10U	10U	10.U
4-Chlorophenyl-phenylether	10.U	10.U	10U	10U	10U	10U	10U	10.U
Fluorene	10.U	10.U	10U	10U	10U	10U	10U	10.U
4-Nitroaniline	50.U	50.U	50U	50U	50U	50U	50U	50.U
4,6-Dinitro-2-methylphenol	50.U	50.U	50U	50U	50U	50U	50U	50.U
N-Nitrosodiphenylamine	10.U	10.U	10U	10U	10U	10U	10U	10.U
4-Bromophenyl-phenylether	10.U	10.U	10U	10U	10U	10U	10U	10.U
Hexachlorobenzene	10.U	10.U	10U	10U	10U	10U	10U	10.U
Pentachlorophenol	50.U	50.U	50U	50U	50U	50U	50U	50.U
Phenanthrene	10.U	10.U	10U	10U	10U	10U	10U	10.U
Anthracene	10.U	10.U	10U	10U	10U	10U	10U	10.U
Di-n-butylphthalate	10.U	10.U	10U	10U	10U	10U	10U	10.U
Fluoranthene	10.U	10.U	10U	10U	10U	10U	10U	10.U
Pyrene	10.U	10.U	10U	10U	10U	10U	10U	10.U
Butylbenzylphthalate	10.U	10.U	10U	10U	10U	10U	10U	10.U
3,3'-Dichlorobenzidine	20.U	20.U	20U	20U	20U	20U	20U	20.U
Benzo(a)anthracene	10.U	10.U	10U	10U	10U	10U	10U	10.U
Chrysene	10.U	10.U	10U	10U	10U	10U	10U	10.U
bis(2-Ethylhexyl)phthalate	10.U	10.U	10U	10U	10U	10U	10U	10.U
Di-n-octylphthalate	10.U	10.U	10U	10U	10U	10U	10U	10.U
Benzo(b)fluoranthene	10.U	10.U	10U	10U	10U	10U	10U	10.U
Benzo(k)fluoranthene	10.U	10.U	10U	10U	10U	10U	10U	10.U
Benzo(a)pyrene	10.U	10.U	10U	10U	10U	10U	10U	10.U
Indeno(1,2,3-cd)pyrene	10.U	10.U	10U	10U	10U	10U	10U	10.U
Dibenz(a,h)anthracene	10.U	10.U	10U	10U	10U	10U	10U	10.U
Benzo(g,h,i)perylene	10.U	10.U	10U	10U	10U	10U	10U	10.U

Doc No: CL EJ - 00368 - 3.04 - 04/1/91

Doc NO: CLEJ - 00368 - 3.04 - 4/1/91

CAMP LEJEUNE - HPIA

VOLATILE ORGANIC COMPOUNDS IN MUD BLANKS, FIELD BLANKS, and D.I. WATER BLANKS

Concentration in ug/l (Field and D.I. Water Blanks)

Concentration in ug/kg (Mud Blank)

CHART = QAQCHPV1

wp8b\qhp-vol.wr1 (1)

COMPOUND	MB-001	FB-001	DI-001	DI-002	DI-005
Chloromethane	590.U	10.U	10.U	10.U	10.U
Bromomethane	590.U	10.U	10.U	10.U	10.U
Vinyl Chloride	590.U	10.U	10.U	10.U	10.U
Chloroethane	590.U	10.U	10.U	10.U	10.U
Methylene Chloride	1500.	.8J	5.U	5.U	2.J
Acetone	2200.	10.U	10.U	10.U	10.U
Carbon Disulfide	290.U	5.U	5.U	5.U	5.U
1,1-Dichloroethene	290.U	5.U	5.U	5.U	5.U
1,1-Dichloroethane	290.U	5.U	5.U	5.U	5.U
1,2-Dichloroethene (total)	290.U	5.U	5.U	5.U	5.U
Chloroform	600.	7.	5.U	5.U	5.U
1,2-Dichloroethane	290.U	5.U	5.U	5.U	5.U
2-Butanone	590.U	10.U	10.U	10.U	10.U
1,1,1-Trichloroethane	290.U	5.U	5.U	5.U	5.U
Carbon Tetrachloride	290.U	5.U	5.U	5.U	5.U
Vinyl Acetate	590.U	10.U	10.U	10.U	10.U
Bromodichloromethane	190.J	7.	5.U	5.U	5.U
1,2-Dichloropropane	290.U	5.U	5.U	5.U	5.U
cis-1,3-Dichloropropene	290.U	5.U	5.U	5.U	5.U
Trichloroethene	51.J	5.U	5.U	5.U	5.U
Dibromochloromethane	100.J	5.J	5.U	5.U	5.U
1,1,2-Trichloroethane	290.U	5.U	5.U	5.U	5.U
Benzene	430.	5.U	5.U	5.U	5.U
trans-1,3-Dichloropropene	290.U	5.U	5.U	5.U	5.U
Bromoform	290.U	5.U	5.U	5.U	5.U
4-Methyl-2-Pentanone	590.U	10.U	10.U	10.U	10.U
2-Hexanone	590.U	10.U	10.U	10.U	10.U
Tetrachloroethene	290.U	5.U	5.U	5.U	5.U
1,1,2,2-Tetrachloroethane	290.U	5.U	5.U	5.U	5.U
Toluene	4100.	5.U	5.U	5.U	5.U
Chlorobenzene	56.J	5.U	5.U	5.U	5.U
Ethylbenzene	1700.	5.U	5.U	5.U	5.U
Styrene	290.U	5.U	5.U	5.U	5.U
Xylenes (total)	7400.	5.U	5.U	5.U	5.U

PROJECT Camp Lejeune
 PREPARED BY Healy, Diana
 DATE April 1991
 CHECKED BY E.C. King, C
 DATE 5/12/91

Doc No: CL EJ-00368-3.04-4/1/91

CAMP LEJEUNE - HPIA
VOLATILE ORGANIC COMPOUNDS IN EQUIPMENT BLANKS
Concentration in ug/l

CHART = QAQHPV2

wp8b\qhp-vol.wr1 (2)

COMPOUND	EB-001	EB-002	EB-003	EB-004	EB-005	EB-006	EB-007	EB-008
Chloromethane	10.U	10U	10U	10U	10U	3J	10U	2J
Bromomethane	10.U	10U	10U	10U	10U	10U	10U	10U
Vinyl Chloride	10.U	10U	10U	10U	10U	10U	10U	10U
Chloroethane	10.U	10U	10U	10U	10U	10U	10U	10U
Methylene Chloride	5.U	5U	4J	3J	2BJ	5U	3BJ	5
Acetone	10.U	10U	17	10U	12B	10U	8BJ	12B
Carbon Disulfide	5.U	5U	1J	5U	4J	5U	5U	5
1,1-Dichloroethene	5.U	5U	5U	5U	5U	5U	5U	5U
1,1-Dichloroethane	5.U	5U	5U	5U	5U	5U	5U	5U
1,2-Dichloroethene (total)	5.U	5U	5U	5U	5U	5U	5U	5U
Chloroform	5.U	5U	5U	5U	5U	5U	5U	5U
1,2-Dichloroethane	5.U	5U	5U	5U	5U	5U	5U	5U
2-Butanone	10.U	10U	10U	10U	10U	10U	10U	10U
1,1,1-Trichloroethane	5.U	5U	5U	5U	5U	5U	5U	5U
Carbon Tetrachloride	5.U	5U	5U	5U	5U	5U	5U	5U
Vinyl Acetate	10.U	10U	10U	10U	10U	10U	10U	10U
Bromodichloromethane	5.U	5U	5U	5U	5U	5U	5U	5U
1,2-Dichloropropane	5.U	5U	5U	5U	5U	5U	5U	5U
cis-1,3-Dichloropropene	5.U	5U	5U	5U	5U	5U	5U	5U
Trichloroethene	5.U	5U	5U	5U	5U	5U	5U	5U
Dibromochloromethane	5.U	5U	5U	5U	5U	5U	5U	5U
1,1,2-Trichloroethane	5.U	5U	5U	5U	5U	5U	5U	5U
Benzene	5.U	5U	5U	5U	5U	5U	5U	5U
trans-1,3-Dichloropropene	5.U	5U	5U	5U	5U	5U	5U	5U
Bromoform	5.U	5U	5U	5U	5U	5U	5U	5U
4-Methyl-2-Pentanone	10.U	10U	10U	10U	10U	10U	10U	10U
2-Hexanone	10.U	10U	10U	10U	10U	10U	10U	2J
Tetrachloroethene	5.U	5U	5U	5U	5U	5U	5U	5U
1,1,2,2-Tetrachloroethane	5.U	5U	5U	5U	5U	5U	5U	5U
Toluene	5.U	5U	5U	5U	5U	5U	5U	5U
Chlorobenzene	5.U	5U	5U	5U	5U	5U	5U	5U
Ethylbenzene	5.U	5U	5U	5U	5U	5U	5U	5U
Styrene	5.U	5U	5U	5U	5U	5U	5U	5U
Xylenes (total)	5.U	5U	5U	5U	5U	5U	5U	5U

Doc No: CEJ-00368-304-4/1/91

CAMP LEJEUNE - HPJA
VOLATILE ORGANIC COMPOUNDS IN EQUIPMENT BLANKS
Concentration in ug/l

CHART = QAQCHPV3

wp8b\qhp-vol.wr1 (3)

COMPOUND	EB-010	EB-011	EB-013	EB-017
Chloromethane	10U	10U	10.U	10U
Bromomethane	10U	10U	10.U	10U
Vinyl Chloride	10U	10U	10.U	10U
Chloroethane	10U	10U	10.U	10U
Methylene Chloride	2BJ	5U	5.U	6B
Acetone	5BJ	9J	10.U	13
Carbon Disulfide	5U	5U	5.U	1J
1,1-Dichloroethene	5U	5U	5.U	5U
1,1-Dichloroethane	5U	5U	5.U	5U
1,2-Dichloroethene (total)	5U	5U	5.U	5U
Chloroform	5U	5U	5.U	5U
1,2-Dichloroethane	5U	5U	5.U	5U
2-Butanone	10U	10U	10.U	10U
1,1,1-Trichloroethane	5U	5U	5.U	5U
Carbon Tetrachloride	5U	5U	5.U	5U
Vinyl Acetate	10U	10U	10.U	10U
Bromodichloromethane	5U	5U	5.U	5U
1,2-Dichloropropane	5U	5U	5.U	5U
cis-1,3-Dichloropropene	5U	5U	5.U	5U
Trichloroethene	5U	5U	5.U	5U
Dibromochloromethane	5U	5U	5.U	5U
1,1,2-Trichloroethane	5U	5U	5.U	5U
Benzene	5U	5U	3.J	5U
trans-1,3-Dichloropropene	5U	5U	5.U	5U
Bromoform	5U	5U	5.U	5U
4-Methyl-2-Pentanone	10U	10U	10.U	10U
2-Hexanone	10U	10U	10.U	10U
Tetrachloroethene	5U	5U	5.U	5U
1,1,2,2-Tetrachloroethane	5U	5U	5.U	5U
Toluene	5U	5U	10.	5U
Chlorobenzene	5U	5U	5.U	5U
Ethylbenzene	5U	5U	2.J	5U
Styrene	5U	5U	5.U	5U
Xyl (total)	5U	5U	10.	5U

PROJECT Camp Lejeune
PREPARED BY Guadalupe Luna
DATE April 1991
CHECKED BY Ed Kuyf
DATE 5/8/91
COMMENTS _____

Doc No: CLEJ - 00 - 3.04 - 4/11/91

CAMP LEJUNE - HPJA
VOLATILE ORGANIC COMPOUNDS IN TRIP BLANKS
Concentration in ug/L

CHART = QAQCHPV5

wp8b\qhp-vol.wr1 (5)

COMPOUND	TB-011	TB-012	TB-013	TB-015
Chloromethane	10.U	10.U	10.U	10.U
Bromomethane	10.U	10.U	10.U	10.U
Vinyl Chloride	10.U	10.U	10.U	10.U
Chloroethane	10.U	10.U	10.U	10.U
Methylene Chloride	5.U	5.U	5.U	5.U
Acetone	10.U	10.U	10.U	12.
Carbon Disulfide	5.U	5.U	5.U	5.U
1,1-Dichloroethene	5.U	5.U	5.U	5.U
1,1-Dichloroethane	5.U	5.U	5.U	5.U
1,2-Dichloroethene (total)	5.U	5.U	5.U	5.U
Chloroform	5.U	5.U	5.U	5.U
1,2-Dichloroethane	5.U	5.U	5.U	5.U
2-Butanone	10.U	10.U	10.U	10.U
1,1,1-Trichloroethane	5.U	5.U	5.U	5.U
Carbon Tetrachloride	5.U	5.U	5.U	5.U
Vinyl Acetate	10.U	10.U	10.U	10.U
Bromodichloromethane	5.U	5.U	5.U	5.U
1,2-Dichloropropane	5.U	5.U	5.U	5.U
cis-1,3-Dichloropropene	5.U	5.U	5.U	5.U
Trichloroethene	5.U	5.U	5.U	5.U
Dibromochloromethane	5.U	5.U	5.U	5.U
1,1,2-Trichloroethane	5.U	5.U	5.U	5.U
Benzene	5.U	5.U	5.U	5.U
trans-1,3-Dichloropropene	5.U	5.U	5.U	5.U
Bromoform	5.U	5.U	5.U	5.U
4-Methyl-2-Pentanone	10.U	10.U	10.U	10.U
2-Hexanone	10.U	10.U	10.U	10.U
Tetrachloroethene	5.U	5.U	5.U	5.U
1,1,2,2-Tetrachloroethane	5.U	5.U	5.U	5.U
Toluene	5.U	3.U	5.U	5.U
Chlorobenzene	5.U	5.U	5.U	5.U
Ethylbenzene	5.U	5.U	5.U	5.U
Styrene	5.U	5.U	5.U	5.U
Xyl (total)	5.U	5.U	5.U	5.U

PROJECT Camp Lejeune
PREPARED BY John J. Gurnea
DATE April 1991
CHECKED BY E. J. King
DATE 5/14/91