Appendix P

Surface Water Analytical Data

C-Block Quarry
Building 1200
Landfill North of Winklepeck Burning Grounds
Pistol Range
Load Line 5
Load Line 7
Load Line 8
Load Line 10
Buildings F-15/F-16
Anchor Test Area

STL Chicago is part of Severn Trent Laboratories, Inc.

Job Number: 231832

LABORATORY TEST RESULTS

Date:12/01/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: CBLsw-001-SW
Date Sampled.....: 11/09/2004
Time Sampled.....: 14:40
Sample Matrix.....: Water

Laboratory Sample ID: 231832-4
Date Received.....: 11/10/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
7196A	Hexavalent Chromium Hexavalent Chromium	0.010	U	H	0.0016	0.010	1	mg/L	133892		11/10/04 1234	pmf

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

LABORATORY TEST RESULTS

Job Number: 231832

Date:11/29/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP T4 AOCS ATTN: Eric Ellis

Customer Sample ID: CBLsw-001-SW
Date Sampled.....: 11/09/2004
Time Sampled.....: 14:40
Sample Matrix.....: Water

Laboratory Sample ID: 231832-4
Date Received.....: 11/10/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
7041	Antimony (GFAA)											
	Antimony	7.5	U		2.5	7.5	1	ug/L	134574		11/16/04 1853	daj
7060A	Arsenic (GFAA)											
	Arsenic	11			0.51	2.0	1	ug/L	134614		11/15/04 1450	daj
7421	Lead (GFAA)											
	Lead	1.0	B		0.79	3.0	1	ug/L	134350		11/13/04 0612	daj
7841	Thallium (GFAA)											
	Thallium	4.0	U		1.3	4.0	1	ug/L	134456		11/16/04 0512	daj
7470A	Mercury (CVAA)											
	Mercury	0.066	B		0.049	0.20	1	ug/L	134946		11/19/04 1647	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum	480			24	150	1	ug/L	134566		11/16/04 2215	tds
	Barium	49			1.5	10	1	ug/L	134566		11/16/04 2215	tds
	Beryllium	2.0	U		0.17	2.0	1	ug/L	134566		11/16/04 2215	tds
	Cadmium	2.0	U		0.44	2.0	1	ug/L	134566		11/16/04 2215	tds
	Calcium	4500			24	100	1	ug/L	134566		11/16/04 2215	tds
	Chromium	1.8	B		1.5	10	1	ug/L	134566		11/16/04 2215	tds
	Cobalt	4.7	B		1.0	5.0	1	ug/L	134566		11/16/04 2215	tds
	Copper	4.5	B		1.6	10	1	ug/L	134566		11/16/04 2215	tds
	Iron	7200			40	120	1	ug/L	134566		11/16/04 2215	tds
	Magnesium	1700			12	100	1	ug/L	134566		11/16/04 2215	tds
	Manganese	2400			0.71	10	1	ug/L	134566		11/16/04 2215	tds
	Nickel	7.4	B		1.9	10	1	ug/L	134566		11/16/04 2215	tds
	Potassium	6700			110	500	1	ug/L	134566		11/16/04 2215	tds

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

LABORATORY TEST RESULTS

Job Number: 231832

Date:11/29/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: CBLsw-001-SW
Date Sampled.....: 11/09/2004
Time Sampled.....: 14:40
Sample Matrix.....: Water

Laboratory Sample ID: 231832-4
Date Received.....: 11/10/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium	15	U		5.0	15	1	ug/L	134566		11/16/04 2215	tds
	Silver	10	U		3.1	10	1	ug/L	134566		11/16/04 2215	tds
	Sodium	1500	U		500	1500	1	ug/L	134566		11/16/04 2215	tds
	Vanadium	2.7	B		2.1	10	1	ug/L	134566		11/16/04 2215	tds
	Zinc	23	B		10	30	1	ug/L	134566		11/16/04 2215	tds

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

Job Number: 231832

LABORATORY TEST RESULTS

Date:12/03/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: CBLsw-001-SW
Date Sampled.....: 11/09/2004
Time Sampled.....: 14:40
Sample Matrix.....: Water

Laboratory Sample ID: 231832-4
Date Received.....: 11/10/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8081A	Organochlorine Pesticide Analysis											
	alpha-BHC	0.30	U		0.093	0.30	2.00000	ug/L	136059		11/16/04 0619	kdl
	beta-BHC	0.20	U		0.055	0.20	2.00000	ug/L	136059		11/16/04 0619	kdl
	delta-BHC	0.20	U		0.050	0.20	2.00000	ug/L	136059		11/16/04 0619	kdl
	gamma-BHC (Lindane)	0.30	U		0.083	0.30	2.00000	ug/L	136059		11/16/04 0619	kdl
	Heptachlor	0.30	U		0.081	0.30	2.00000	ug/L	136059		11/16/04 0619	kdl
	Aldrin	0.20	U		0.055	0.20	2.00000	ug/L	136059		11/16/04 0619	kdl
	Heptachlor epoxide	0.30	U		0.071	0.30	2.00000	ug/L	136059		11/16/04 0619	kdl
	Endosulfan I	0.20	U		0.042	0.20	2.00000	ug/L	136059		11/16/04 0619	kdl
	Dieldrin	0.20	U		0.036	0.20	2.00000	ug/L	136059		11/16/04 0619	kdl
	4,4'-DDE	0.20	U		0.046	0.20	2.00000	ug/L	136059		11/16/04 0619	kdl
	Endrin	0.20	U		0.034	0.20	2.00000	ug/L	136059		11/16/04 0619	kdl
	Endosulfan II	0.30	U		0.083	0.30	2.00000	ug/L	136059		11/16/04 0619	kdl
	4,4'-DDD	0.22	U		0.071	0.22	2.00000	ug/L	136059		11/16/04 0619	kdl
	Endosulfan sulfate	0.30	U		0.087	0.30	2.00000	ug/L	136059		11/16/04 0619	kdl
	4,4'-DDT	0.30	U		0.097	0.30	2.00000	ug/L	136059		11/16/04 0619	kdl
	Methoxychlor	1.2	U		0.34	1.2	2.00000	ug/L	136059		11/16/04 0619	kdl
	alpha-Chlordane	0.099	U		0.032	0.099	2.00000	ug/L	136059		11/16/04 0619	kdl
	gamma-Chlordane	0.20	U		0.034	0.20	2.00000	ug/L	136059		11/16/04 0619	kdl
	Endrin aldehyde	0.30	U		0.069	0.30	2.00000	ug/L	136059		11/16/04 0619	kdl
	Endrin ketone	0.20	U		0.057	0.20	2.00000	ug/L	136059		11/16/04 0619	kdl
	Toxaphene	0.99	U		0.28	0.99	2.00000	ug/L	136059		11/16/04 0619	kdl

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

Job Number: 231832

LABORATORY TEST RESULTS

Date: 12/01/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: CBLsw-001-SW
Date Sampled.....: 11/09/2004
Time Sampled.....: 14:40
Sample Matrix.....: Water

Laboratory Sample ID: 231832-4
Date Received.....: 11/10/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DI	DATE/TIME	TECH
8082	PCB Analysis											
	Aroclor 1016	0.59	U		0.18	0.59	1.00000	ug/L	135575		11/19/04 2257	bjt
	Aroclor 1221	1.3	U		0.42	1.3	1.00000	ug/L	135575		11/19/04 2257	bjt
	Aroclor 1232	1.3	U		0.35	1.3	1.00000	ug/L	135575		11/19/04 2257	bjt
	Aroclor 1242	1.3	U		0.43	1.3	1.00000	ug/L	135575		11/19/04 2257	bjt
	Aroclor 1248	1.5	U		0.48	1.5	1.00000	ug/L	135575		11/19/04 2257	bjt
	Aroclor 1254	1.3	U		0.35	1.3	1.00000	ug/L	135575		11/19/04 2257	bjt
	Aroclor 1260	0.59	U		0.17	0.59	1.00000	ug/L	135575		11/19/04 2257	bjt

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231832

Date: 11/20/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCs ATTN: Eric Ellis

Customer Sample ID: CBLsw-001-SW
Date Sampled.....: 11/09/2004
Time Sampled.....: 14:40
Sample Matrix.....: Water

Laboratory Sample ID: 231832-4
Date Received.....: 11/10/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DF	DATE/TIME	TECH
8260B	Volatile Organics											
	Chloromethane	1.0	U		0.080	1.0	1.00000	ug/L	134612		11/16/04 1914	jdn
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	134612		11/16/04 1914	jdn
	Bromomethane	1.0	U		0.10	1.0	1.00000	ug/L	134612		11/16/04 1914	jdn
	Chloroethane	1.0	U		0.080	1.0	1.00000	ug/L	134612		11/16/04 1914	jdn
	1,1-Dichloroethene	1.0	U	*	0.12	1.0	1.00000	ug/L	134612		11/16/04 1914	jdn
	Carbon disulfide	5.0	U	*	0.20	5.0	1.00000	ug/L	134612		11/16/04 1914	jdn
	Acetone	8.6	J		1.8	10	1.00000	ug/L	134612		11/16/04 1914	jdn
	Methylene chloride	1.5	U		0.35	1.5	1.00000	ug/L	134612		11/16/04 1914	jdn
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	134612		11/16/04 1914	jdn
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	134612		11/16/04 1914	jdn
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	134612		11/16/04 1914	jdn
	2-Butanone (MEK)	10	U		1.2	10	1.00000	ug/L	134612		11/16/04 1914	jdn
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	134612		11/16/04 1914	jdn
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	134612		11/16/04 1914	jdn
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	134612		11/16/04 1914	jdn
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	134612		11/16/04 1914	jdn
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	134612		11/16/04 1914	jdn
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	134612		11/16/04 1914	jdn
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	134612		11/16/04 1914	jdn
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	134612		11/16/04 1914	jdn
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	134612		11/16/04 1914	jdn
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	134612		11/16/04 1914	jdn
	4-Methyl-2-pentanone (MIBK)	10	U		0.65	10	1.00000	ug/L	134612		11/16/04 1914	jdn
	Toluene	8.6			0.10	1.0	1.00000	ug/L	134612		11/16/04 1914	jdn
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	134612		11/16/04 1914	jdn
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	134612		11/16/04 1914	jdn
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	134612		11/16/04 1914	jdn
	2-Hexanone	10	U		0.53	10	1.00000	ug/L	134612		11/16/04 1914	jdn

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

LABORATORY TEST RESULTS

Job Number: 231832

Date: 11/20/2004

CUSTOMER: MKN Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: CBLsw-001-SW
Date Sampled.....: 11/09/2004
Time Sampled.....: 14:40
Sample Matrix.....: Water

Laboratory Sample ID: 231832-4
Date Received.....: 11/10/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	1.0	U		0.060	1.0	1.00000	ug/L	134612		11/16/04 1914	jdn
	1,2-Dibromoethane (EDB)	1.0	U		0.13	1.0	1.00000	ug/L	134612		11/16/04 1914	jdn
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	134612		11/16/04 1914	jdn
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	134612		11/16/04 1914	jdn
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	134612		11/16/04 1914	jdn
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	134612		11/16/04 1914	jdn
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	134612		11/16/04 1914	jdn
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	134612		11/16/04 1914	jdn
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	134612		11/16/04 1914	jdn
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	134612		11/16/04 1914	jdn
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	134612		11/16/04 1914	jdn

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

LABORATORY TEST RESULTS

Job Number: 231832

Date: 12/06/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: CBLsw-001-SW
Date Sampled.....: 11/09/2004
Time Sampled.....: 14:40
Sample Matrix.....: Water

Laboratory Sample ID: 231832-4
Date Received.....: 11/10/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8270C	Semivolatile Organics											
	Phenol, Low Level Water	4.9	U		0.34	4.9	1.00000	ug/L	136171		11/28/04 0216	dpk
	Bis(2-chloroethyl)ether, Low Level Water	1.9	U		0.29	1.9	1.00000	ug/L	136171		11/28/04 0216	dpk
	1,3-Dichlorobenzene, Low Level Water	1.9	U		0.42	1.9	1.00000	ug/L	136171		11/28/04 0216	dpk
	1,4-Dichlorobenzene, Low Level Water	1.9	U		0.32	1.9	1.00000	ug/L	136171		11/28/04 0216	dpk
	1,2-Dichlorobenzene, Low Level Water	1.9	U		0.34	1.9	1.00000	ug/L	136171		11/28/04 0216	dpk
	Benzyl alcohol, Low Level Water	19	U		2.1	19	1.00000	ug/L	136171		11/28/04 0216	dpk
	2-Methylphenol (o-cresol), Low Level Water	28			0.25	1.9	1.00000	ug/L	136171		11/28/04 0216	dpk
	2,2-oxybis (1-chloropropane), Low Level Water	1.9	U		0.27	1.9	1.00000	ug/L	136171		11/28/04 0216	dpk
	n-Nitroso-di-n-propylamine, Low Level Water	0.49	U		0.079	0.49	1.00000	ug/L	136171		11/28/04 0216	dpk
	Hexachloroethane, Low Level Water	4.9	U		0.59	4.9	1.00000	ug/L	136171		11/28/04 0216	dpk
	4-Methylphenol (m/p-cresol), Low Level Water	1.9	U		0.097	1.9	1.00000	ug/L	136171		11/28/04 0216	dpk
	2-Chlorophenol, Low Level Water	4.9	U		0.12	4.9	1.00000	ug/L	136171		11/28/04 0216	dpk
	Nitrobenzene, Low Level Water	0.97	U		0.16	0.97	1.00000	ug/L	136171		11/28/04 0216	dpk
	Bis(2-chloroethoxy)methane, Low Level Water	1.9	U		0.30	1.9	1.00000	ug/L	136171		11/28/04 0216	dpk
	1,2,4-Trichlorobenzene, Low Level Water	1.9	U		0.33	1.9	1.00000	ug/L	136171		11/28/04 0216	dpk
	Benzoic acid, Low Level Water	19	U		2.9	19	1.00000	ug/L	136171		11/28/04 0216	dpk
	Isophorone, Low Level Water	1.9	U		0.25	1.9	1.00000	ug/L	136171		11/28/04 0216	dpk
	2,4-Dimethylphenol, Low Level Water	9.7	U		1.3	9.7	1.00000	ug/L	136171		11/28/04 0216	dpk
	Hexachlorobutadiene, Low Level Water	4.9	U		0.62	4.9	1.00000	ug/L	136171		11/28/04 0216	dpk
	Naphthalene, Low Level Water	0.97	U		0.16	0.97	1.00000	ug/L	136171		11/28/04 0216	dpk
	2,4-Dichlorophenol, Low Level Water	9.7	U		0.88	9.7	1.00000	ug/L	136171		11/28/04 0216	dpk
	4-Chloroaniline, Low Level Water	9.7	U		2.7	9.7	1.00000	ug/L	136171		11/28/04 0216	dpk
	2,4,6-Trichlorophenol, Low Level Water	4.9	U		0.20	4.9	1.00000	ug/L	136171		11/28/04 0216	dpk
	2,4,5-Trichlorophenol, Low Level Water	9.7	U		1.4	9.7	1.00000	ug/L	136171		11/28/04 0216	dpk
	Hexachlorocyclopentadiene, Low Level Water	19	U	*	0.63	19	1.00000	ug/L	136171		11/28/04 0216	dpk
	2-Methylnaphthalene, Low Level Water	0.49	U		0.13	0.49	1.00000	ug/L	136171		11/28/04 0216	dpk
	2-Nitroaniline, Low Level Water	4.9	U		0.21	4.9	1.00000	ug/L	136171		11/28/04 0216	dpk
	2-Chloronaphthalene, Low Level Water	1.9	U		0.25	1.9	1.00000	ug/L	136171		11/28/04 0216	dpk

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

LABORATORY TEST RESULTS

Job Number: 231832 Date:12/06/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCs ATTN: Eric Ellis

Customer Sample ID: CBLsw-001-SW
Date Sampled.....: 11/09/2004
Time Sampled.....: 14:40
Sample Matrix.....: Water

Laboratory Sample ID: 231832-4
Date Received.....: 11/10/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	4-Chloro-3-methylphenol, Low Level Water	9.7	U		2.3	9.7	1.00000	ug/L	136171		11/28/04 0216	dpk
	2,6-Dinitrotoluene, Low Level Water	0.49	U		0.11	0.49	1.00000	ug/L	136171		11/28/04 0216	dpk
	2-Nitrophenol, Low Level Water	9.7	U		0.80	9.7	1.00000	ug/L	136171		11/28/04 0216	dpk
	3-Nitroaniline, Low Level Water	9.7	U		2.0	9.7	1.00000	ug/L	136171		11/28/04 0216	dpk
	Dimethyl phthalate, Low Level Water	1.9	U		0.20	1.9	1.00000	ug/L	136171		11/28/04 0216	dpk
	2,4-Dinitrophenol, Low Level Water	19	U		3.2	19	1.00000	ug/L	136171		11/28/04 0216	dpk
	Acenaphthylene, Low Level Water	0.97	U		0.12	0.97	1.00000	ug/L	136171		11/28/04 0216	dpk
	2,4-Dinitrotoluene, Low Level Water	0.97	U		0.13	0.97	1.00000	ug/L	136171		11/28/04 0216	dpk
	Acenaphthene, Low Level Water	0.97	U		0.12	0.97	1.00000	ug/L	136171		11/28/04 0216	dpk
	Dibenzofuran, Low Level Water	1.9	U		0.13	1.9	1.00000	ug/L	136171		11/28/04 0216	dpk
	4-Nitrophenol, Low Level Water	19	U		3.6	19	1.00000	ug/L	136171		11/28/04 0216	dpk
	Fluorene, Low Level Water	0.97	U		0.13	0.97	1.00000	ug/L	136171		11/28/04 0216	dpk
	4-Nitroaniline, Low Level Water	9.7	U		2.2	9.7	1.00000	ug/L	136171		11/28/04 0216	dpk
	4-Bromophenyl phenyl ether, Low Level Water	4.9	U		0.18	4.9	1.00000	ug/L	136171		11/28/04 0216	dpk
	Hexachlorobenzene, Low Level Water	0.49	U		0.094	0.49	1.00000	ug/L	136171		11/28/04 0216	dpk
	Diethyl phthalate, Low Level Water	1.9	U		0.15	1.9	1.00000	ug/L	136171		11/28/04 0216	dpk
	4-Chlorophenyl phenyl ether, Low Level Water	4.9	U		0.73	4.9	1.00000	ug/L	136171		11/28/04 0216	dpk
	Pentachlorophenol, Low Level Water	9.7	U		1.7	9.7	1.00000	ug/L	136171		11/28/04 0216	dpk
	n-Nitrosodiphenylamine, Low Level Water	0.97	U		0.13	0.97	1.00000	ug/L	136171		11/28/04 0216	dpk
	4,6-Dinitro-2-methylphenol, Low Level Water	19	U		2.3	19	1.00000	ug/L	136171		11/28/04 0216	dpk
	Phenanthrene, Low Level Water	0.97	U		0.14	0.97	1.00000	ug/L	136171		11/28/04 0216	dpk
	Anthracene, Low Level Water	0.97	U		0.15	0.97	1.00000	ug/L	136171		11/28/04 0216	dpk
	Carbazole, Low Level Water	4.9	U		0.28	4.9	1.00000	ug/L	136171		11/28/04 0216	dpk
	Di-n-butyl phthalate, Low Level Water	4.9	U		0.35	4.9	1.00000	ug/L	136171		11/28/04 0216	dpk
	Fluoranthene, Low Level Water	0.97	U		0.14	0.97	1.00000	ug/L	136171		11/28/04 0216	dpk
	Pyrene, Low Level Water	0.97	U		0.12	0.97	1.00000	ug/L	136171		11/28/04 0216	dpk
	Butyl benzyl phthalate, Low Level Water	1.9	U		0.38	1.9	1.00000	ug/L	136171		11/28/04 0216	dpk
	Benzo(a)anthracene, Low Level Water	0.19	U		0.048	0.19	1.00000	ug/L	136171		11/28/04 0216	dpk
	Chrysene, Low Level Water	0.49	U		0.044	0.49	1.00000	ug/L	136171		11/28/04 0216	dpk

* In Description = Dry Wgt.

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Job Number: 231832

LABORATORY TEST RESULTS

Date:12/06/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: CBLsw-001-SW
Date Sampled.....: 11/09/2004
Time Sampled.....: 14:40
Sample Matrix.....: Water

Laboratory Sample ID: 231832-4
Date Received.....: 11/10/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	3,3-Dichlorobenzidine, Low Level Water	4.9	U		0.70	4.9	1.00000	ug/L	136171		11/28/04 0216	dpk
	Bis(2-ethylhexyl)phthalate, Low Level Water	130			19	73	5.00000	ug/L	136171	D1	11/29/04 1505	dpk
	Di-n-octyl phthalate, Low Level Water	9.7	U		2.4	9.7	1.00000	ug/L	136171		11/28/04 0216	dpk
	Benzo(b)fluoranthene, Low Level Water	0.39	U		0.065	0.39	1.00000	ug/L	136171		11/28/04 0216	dpk
	Benzo(k)fluoranthene, Low Level Water	0.39	U		0.070	0.39	1.00000	ug/L	136171		11/28/04 0216	dpk
	Benzo(a)pyrene, Low Level Water	0.39	U		0.082	0.39	1.00000	ug/L	136171		11/28/04 0216	dpk
	Indeno(1,2,3-cd)pyrene, Low Level Water	0.39	U		0.083	0.39	1.00000	ug/L	136171		11/28/04 0216	dpk
	Dibenzo(a,h)anthracene, Low Level Water	0.39	U		0.13	0.39	1.00000	ug/L	136171		11/28/04 0216	dpk
	Benzo(ghi)perylene, Low Level Water	0.97	U		0.18	0.97	1.00000	ug/L	136171		11/28/04 0216	dpk

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

LABORATORY TEST RESULTS

Job Number: 231832

Date:12/02/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: CBLsw-001-SW
Date Sampled.....: 11/09/2004
Time Sampled.....: 14:40
Sample Matrix.....: Water

Laboratory Sample ID: 231832-4
Date Received.....: 11/10/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8330	Explosives by 8330 (HPLC)											
	HMX	0.39	U		0.085	0.39	1.00000	ug/L	135917		11/15/04 0813	san
	RDX	0.25	U		0.080	0.25	1.00000	ug/L	135917		11/15/04 0813	san
	1,3,5-Trinitrobenzene	0.25	U		0.072	0.25	1.00000	ug/L	135917		11/15/04 0813	san
	1,3-Dinitrobenzene	0.25	U		0.069	0.25	1.00000	ug/L	135917		11/15/04 0813	san
	Nitrobenzene	0.20	U		0.055	0.20	1.00000	ug/L	135917		11/15/04 0813	san
	2,4,6-TNT	0.31	U		0.098	0.31	1.00000	ug/L	135917		11/15/04 0813	san
	Tetryl	0.98	U		0.20	0.98	1.00000	ug/L	135917		11/15/04 0813	san
	2,4-Dinitrotoluene	0.45	U		0.15	0.45	1.00000	ug/L	135917		11/15/04 0813	san
	2,6-Dinitrotoluene	0.54	U		0.18	0.54	1.00000	ug/L	135917		11/15/04 0813	san
	2-Amino-4,6-Dinitrotoluene	0.45	U		0.15	0.45	1.00000	ug/L	135917		11/15/04 0813	san
	4-Amino-2,6-Dinitrotoluene	0.41	U		0.14	0.41	1.00000	ug/L	135917		11/15/04 0813	san
	2-Nitrotoluene	0.39	U		0.12	0.39	1.00000	ug/L	135917		11/15/04 0813	san
	4-Nitrotoluene	0.39	U		0.12	0.39	1.00000	ug/L	135917		11/15/04 0813	san
	3-Nitrotoluene	0.39	U		0.13	0.39	1.00000	ug/L	135917		11/15/04 0813	san
8332M	NG/PETN by 8332M (HPLC)											
	Nitroglycerine	1.2	U		0.19	1.2	1.00000	ug/L	135908		11/20/04 1803	san

* In Description = Dry Wgt.

STL CHICAGO

Client Sample ID: CBLsw-001-SW

Trace Level Organic Compounds

Lot-Sample #...:	G4K100349-012	**Work Order #...:**	GWNG91AC	**Matrix.....:**	WATER
Date Sampled...:	11/09/04 14:40	**Date Received..:**	11/10/04		
Prep Date.....:	11/12/04	**Analysis Date..:**	11/17/04		
Prep Batch #...:	4317345				
Dilution Factor:	1	**Initial Wgt/Vol:**	10 mL	**Final Wgt/Vol..:**	10 mL

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
Nitroguanidine	ND	20	ug/L	NONE UV/HPLC per

STL CHICAGO

Client Sample ID: CBLsw-001-SW

General Chemistry

Lot-Sample #...: G4K100349-012 Work Order #...: GWNG9 Matrix.....: WATER
Date Sampled...: 11/09/04 14:40 Date Received..: 11/10/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	ND	0.50	mg/L	MCAWW 353.2	11/20-11/23/04	4325114

Dilution Factor: 1 Initial Wgt/Vol: 100 mL Final Wgt/Vol..: 40 mL
MDL.....: 0.12

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LABORATORY TEST RESULTS

Job Number: 231832

Date:12/01/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: CBLsw-002-SW
Date Sampled.....: 11/09/2004
Time Sampled.....: 12:50
Sample Matrix.....: Water

Laboratory Sample ID: 231832-3
Date Received.....: 11/10/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
7196A	Hexavalent Chromium Hexavalent Chromium	0.010	U	H	0.0016	0.010	1	mg/L	133892		11/10/04 1233	pmf

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

LABORATORY TEST RESULTS

Job Number: 231832

Date:11/29/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: CBLsw-002-SW
Date Sampled.....: 11/09/2004
Time Sampled.....: 12:50
Sample Matrix.....: Water

Laboratory Sample ID: 231832-3
Date Received.....: 11/10/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
7041	Antimony (GFAA)											
	Antimony	7.5	U		2.5	7.5	1	ug/L	134574		11/16/04 1833	daj
7060A	Arsenic (GFAA)											
	Arsenic	4.4			0.51	2.0	1	ug/L	134614		11/15/04 1439	daj
7421	Lead (GFAA)											
	Lead	3.0	U		0.79	3.0	1	ug/L	134350		11/13/04 0600	daj
7841	Thallium (GFAA)											
	Thallium	1.7	B		1.3	4.0	1	ug/L	134456		11/16/04 0459	daj
7470A	Mercury (CVAA)											
	Mercury	0.20	U		0.049	0.20	1	ug/L	134946		11/19/04 1644	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum	160			24	150	1	ug/L	134566		11/16/04 2209	tds
	Barium	32			1.5	10	1	ug/L	134566		11/16/04 2209	tds
	Beryllium	2.0	U		0.17	2.0	1	ug/L	134566		11/16/04 2209	tds
	Cadmium	2.0	U		0.44	2.0	1	ug/L	134566		11/16/04 2209	tds
	Calcium	11000			24	100	1	ug/L	134566		11/16/04 2209	tds
	Chromium	10	U		1.5	10	1	ug/L	134566		11/16/04 2209	tds
	Cobalt	2.0	B		1.0	5.0	1	ug/L	134566		11/16/04 2209	tds
	Copper	2.1	B		1.6	10	1	ug/L	134566		11/16/04 2209	tds
	Iron	2900			40	120	1	ug/L	134566		11/16/04 2209	tds
	Magnesium	2300			12	100	1	ug/L	134566		11/16/04 2209	tds
	Manganese	1400			0.71	10	1	ug/L	134566		11/16/04 2209	tds
	Nickel	10	U		1.9	10	1	ug/L	134566		11/16/04 2209	tds
	Potassium	4500			110	500	1	ug/L	134566		11/16/04 2209	tds

* In Description = Dry Wgt.

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Job Number: 231832

LABORATORY TEST RESULTS

Date:11/29/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP T4 AOCs ATTN: Eric Ellis

Customer Sample ID: CBLsw-002-SW
Date Sampled.....: 11/09/2004
Time Sampled.....: 12:50
Sample Matrix.....: Water

Laboratory Sample ID: 231832-3
Date Received.....: 11/10/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium	15	U		5.0	15	1	ug/L	134566		11/16/04 2209	tds
	Silver	10	U		3.1	10	1	ug/L	134566		11/16/04 2209	tds
	Sodium	1500	U		500	1500	1	ug/L	134566		11/16/04 2209	tds
	Vanadium	10	U		2.1	10	1	ug/L	134566		11/16/04 2209	tds
	Zinc	30	U		10	30	1	ug/L	134566		11/16/04 2209	tds

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231832

Date:12/03/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: CBLsw-002-SW
Date Sampled.....: 11/09/2004
Time Sampled.....: 12:50
Sample Matrix.....: Water

Laboratory Sample ID: 231832-3
Date Received.....: 11/10/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DF	DATE/TIME	TECH
8081A	Organochlorine Pesticide Analysis											
	alpha-BHC	0.15	U		0.047	0.15	1.00000	ug/L	136059		11/16/04 0554	kdl
	beta-BHC	0.10	U		0.028	0.10	1.00000	ug/L	136059		11/16/04 0554	kdl
	delta-BHC	0.10	U		0.025	0.10	1.00000	ug/L	136059		11/16/04 0554	kdl
	gamma-BHC (Lindane)	0.15	U		0.042	0.15	1.00000	ug/L	136059		11/16/04 0554	kdl
	Heptachlor	0.15	U		0.041	0.15	1.00000	ug/L	136059		11/16/04 0554	kdl
	Aldrin	0.10	U		0.028	0.10	1.00000	ug/L	136059		11/16/04 0554	kdl
	Heptachlor epoxide	0.15	U		0.036	0.15	1.00000	ug/L	136059		11/16/04 0554	kdl
	Endosulfan I	0.10	U		0.021	0.10	1.00000	ug/L	136059		11/16/04 0554	kdl
	Dieldrin	0.10	U		0.018	0.10	1.00000	ug/L	136059		11/16/04 0554	kdl
	4,4'-DDE	0.10	U		0.023	0.10	1.00000	ug/L	136059		11/16/04 0554	kdl
	Endrin	0.10	U		0.017	0.10	1.00000	ug/L	136059		11/16/04 0554	kdl
	Endosulfan II	0.15	U		0.042	0.15	1.00000	ug/L	136059		11/16/04 0554	kdl
	4,4'-DDD	0.11	U		0.036	0.11	1.00000	ug/L	136059		11/16/04 0554	kdl
	Endosulfan sulfate	0.15	U		0.044	0.15	1.00000	ug/L	136059		11/16/04 0554	kdl
	4,4'-DDT	0.15	U		0.049	0.15	1.00000	ug/L	136059		11/16/04 0554	kdl
	Methoxychlor	0.60	U		0.17	0.60	1.00000	ug/L	136059		11/16/04 0554	kdl
	alpha-Chlordane	0.050	U		0.016	0.050	1.00000	ug/L	136059		11/16/04 0554	kdl
	gamma-Chlordane	0.10	U		0.017	0.10	1.00000	ug/L	136059		11/16/04 0554	kdl
	Endrin aldehyde	0.15	U		0.035	0.15	1.00000	ug/L	136059		11/16/04 0554	kdl
	Endrin ketone	0.10	U		0.029	0.10	1.00000	ug/L	136059		11/16/04 0554	kdl
	Toxaphene	0.50	U		0.14	0.50	1.00000	ug/L	136059		11/16/04 0554	kdl

* In Description = Dry Wgt.

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Job Number: 231832

LABORATORY TEST RESULTS

Date: 12/01/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP T4 AOCS ATTN: Eric Ellis

Customer Sample ID: CBLsw-002-SW
Date Sampled.....: 11/09/2004
Time Sampled.....: 12:50
Sample Matrix.....: Water

Laboratory Sample ID: 231832-3
Date Received.....: 11/10/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8082	PCB Analysis											
	Aroclor 1016	0.60	U		0.18	0.60	1.00000	ug/L	135575		11/19/04 2221	bjt
	Aroclor 1221	1.3	U		0.42	1.3	1.00000	ug/L	135575		11/19/04 2221	bjt
	Aroclor 1232	1.3	U		0.35	1.3	1.00000	ug/L	135575		11/19/04 2221	bjt
	Aroclor 1242	1.3	U		0.43	1.3	1.00000	ug/L	135575		11/19/04 2221	bjt
	Aroclor 1248	1.5	U		0.48	1.5	1.00000	ug/L	135575		11/19/04 2221	bjt
	Aroclor 1254	1.3	U		0.35	1.3	1.00000	ug/L	135575		11/19/04 2221	bjt
	Aroclor 1260	0.60	U		0.17	0.60	1.00000	ug/L	135575		11/19/04 2221	bjt

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231832 Date:11/20/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: CBLsw-002-SW
Date Sampled.....: 11/09/2004
Time Sampled.....: 12:50
Sample Matrix.....: Water

Laboratory Sample ID: 231832-3
Date Received.....: 11/10/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics											
	Chloromethane	1.0	U		0.080	1.0	1.00000	ug/L	134612		11/16/04 1852	jdn
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	134612		11/16/04 1852	jdn
	Bromomethane	1.0	U		0.10	1.0	1.00000	ug/L	134612		11/16/04 1852	jdn
	Chloroethane	1.0	U		0.080	1.0	1.00000	ug/L	134612		11/16/04 1852	jdn
	1,1-Dichloroethene	1.0	U	*	0.12	1.0	1.00000	ug/L	134612		11/16/04 1852	jdn
	Carbon disulfide	5.0	U	*	0.20	5.0	1.00000	ug/L	134612		11/16/04 1852	jdn
	Acetone	8.6	J		1.8	10	1.00000	ug/L	134612		11/16/04 1852	jdn
	Methylene chloride	1.5	U		0.35	1.5	1.00000	ug/L	134612		11/16/04 1852	jdn
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	134612		11/16/04 1852	jdn
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	134612		11/16/04 1852	jdn
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	134612		11/16/04 1852	jdn
	2-Butanone (MEK)	10	U		1.2	10	1.00000	ug/L	134612		11/16/04 1852	jdn
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	134612		11/16/04 1852	jdn
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	134612		11/16/04 1852	jdn
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	134612		11/16/04 1852	jdn
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	134612		11/16/04 1852	jdn
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	134612		11/16/04 1852	jdn
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	134612		11/16/04 1852	jdn
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	134612		11/16/04 1852	jdn
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	134612		11/16/04 1852	jdn
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	134612		11/16/04 1852	jdn
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	134612		11/16/04 1852	jdn
	4-Methyl-2-pentanone (MIBK)	10	U		0.65	10	1.00000	ug/L	134612		11/16/04 1852	jdn
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	134612		11/16/04 1852	jdn
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	134612		11/16/04 1852	jdn
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	134612		11/16/04 1852	jdn
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	134612		11/16/04 1852	jdn
	2-Hexanone	10	U		0.53	10	1.00000	ug/L	134612		11/16/04 1852	jdn

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

LABORATORY TEST RESULTS

Job Number: 231832 Date:11/20/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: CBLsw-002-SW
Date Sampled.....: 11/09/2004
Time Sampled.....: 12:50
Sample Matrix.....: Water

Laboratory Sample ID: 231832-3
Date Received.....: 11/10/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	1.0	U		0.060	1.0	1.00000	ug/L	134612		11/16/04 1852	jdn
	1,2-Dibromoethane (EDB)	1.0	U		0.13	1.0	1.00000	ug/L	134612		11/16/04 1852	jdn
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	134612		11/16/04 1852	jdn
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	134612		11/16/04 1852	jdn
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	134612		11/16/04 1852	jdn
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	134612		11/16/04 1852	jdn
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	134612		11/16/04 1852	jdn
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	134612		11/16/04 1852	jdn
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	134612		11/16/04 1852	jdn
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	134612		11/16/04 1852	jdn
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	134612		11/16/04 1852	jdn

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231832

Date: 12/06/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: CBLsw-002-SW
Date Sampled.....: 11/09/2004
Time Sampled.....: 12:50
Sample Matrix.....: Water

Laboratory Sample ID: 231832-3
Date Received.....: 11/10/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8270C	Semivolatile Organics											
	Phenol, Low Level Water	5.1	U		0.35	5.1	1.00000	ug/L	136171		11/29/04 1532	dpk
	Bis(2-chloroethyl)ether, Low Level Water	2.0	U		0.30	2.0	1.00000	ug/L	136171		11/29/04 1532	dpk
	1,3-Dichlorobenzene, Low Level Water	2.0	U		0.43	2.0	1.00000	ug/L	136171		11/29/04 1532	dpk
	1,4-Dichlorobenzene, Low Level Water	2.0	U		0.33	2.0	1.00000	ug/L	136171		11/29/04 1532	dpk
	1,2-Dichlorobenzene, Low Level Water	2.0	U		0.35	2.0	1.00000	ug/L	136171		11/29/04 1532	dpk
	Benzyl alcohol, Low Level Water	20	U		2.2	20	1.00000	ug/L	136171		11/29/04 1532	dpk
	2-Methylphenol (o-cresol), Low Level Water	2.0	U		0.26	2.0	1.00000	ug/L	136171		11/29/04 1532	dpk
	2,2-oxybis (1-chloropropane), Low Level Water	2.0	U		0.28	2.0	1.00000	ug/L	136171		11/29/04 1532	dpk
	n-Nitroso-di-n-propylamine, Low Level Water	0.51	U		0.082	0.51	1.00000	ug/L	136171		11/29/04 1532	dpk
	Hexachloroethane, Low Level Water	5.1	U		0.62	5.1	1.00000	ug/L	136171		11/29/04 1532	dpk
	4-Methylphenol (m/p-cresol), Low Level Water	2.0	U		0.10	2.0	1.00000	ug/L	136171		11/29/04 1532	dpk
	2-Chlorophenol, Low Level Water	5.1	U		0.12	5.1	1.00000	ug/L	136171		11/29/04 1532	dpk
	Nitrobenzene, Low Level Water	1.0	U		0.16	1.0	1.00000	ug/L	136171		11/29/04 1532	dpk
	Bis(2-chloroethoxy)methane, Low Level Water	2.0	U		0.31	2.0	1.00000	ug/L	136171		11/29/04 1532	dpk
	1,2,4-Trichlorobenzene, Low Level Water	2.0	U		0.34	2.0	1.00000	ug/L	136171		11/29/04 1532	dpk
	Benzoic acid, Low Level Water	20	U		3.0	20	1.00000	ug/L	136171		11/29/04 1532	dpk
	Isophorone, Low Level Water	2.0	U		0.26	2.0	1.00000	ug/L	136171		11/29/04 1532	dpk
	2,4-Dimethylphenol, Low Level Water	10	U		1.3	10	1.00000	ug/L	136171		11/29/04 1532	dpk
	Hexachlorobutadiene, Low Level Water	5.1	U		0.65	5.1	1.00000	ug/L	136171		11/29/04 1532	dpk
	Naphthalene, Low Level Water	1.0	U		0.16	1.0	1.00000	ug/L	136171		11/29/04 1532	dpk
	2,4-Dichlorophenol, Low Level Water	10	U		0.92	10	1.00000	ug/L	136171		11/29/04 1532	dpk
	4-Chloroaniline, Low Level Water	10	U		2.8	10	1.00000	ug/L	136171		11/29/04 1532	dpk
	2,4,6-Trichlorophenol, Low Level Water	5.1	U		0.21	5.1	1.00000	ug/L	136171		11/29/04 1532	dpk
	2,4,5-Trichlorophenol, Low Level Water	10	U		1.4	10	1.00000	ug/L	136171		11/29/04 1532	dpk
	Hexachlorocyclopentadiene, Low Level Water	20	U	*	0.66	20	1.00000	ug/L	136171		11/29/04 1532	dpk
	2-Methylnaphthalene, Low Level Water	0.51	U		0.13	0.51	1.00000	ug/L	136171		11/29/04 1532	dpk
	2-Nitroaniline, Low Level Water	5.1	U		0.22	5.1	1.00000	ug/L	136171		11/29/04 1532	dpk
	2-Chloronaphthalene, Low Level Water	2.0	U		0.26	2.0	1.00000	ug/L	136171		11/29/04 1532	dpk

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231832 Date:12/06/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: CBLsw-002-SW
Date Sampled.....: 11/09/2004
Time Sampled.....: 12:50
Sample Matrix.....: Water

Laboratory Sample ID: 231832-3
Date Received.....: 11/10/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	4-Chloro-3-methylphenol, Low Level Water	10	U		2.4	10	1.00000	ug/L	136171		11/29/04 1532	dpk
	2,6-Dinitrotoluene, Low Level Water	0.51	U		0.11	0.51	1.00000	ug/L	136171		11/29/04 1532	dpk
	2-Nitrophenol, Low Level Water	10	U		0.83	10	1.00000	ug/L	136171		11/29/04 1532	dpk
	3-Nitroaniline, Low Level Water	10	U		2.1	10	1.00000	ug/L	136171		11/29/04 1532	dpk
	Dimethyl phthalate, Low Level Water	2.0	U		0.21	2.0	1.00000	ug/L	136171		11/29/04 1532	dpk
	2,4-Dinitrophenol, Low Level Water	20	U		3.3	20	1.00000	ug/L	136171		11/29/04 1532	dpk
	Acenaphthylene, Low Level Water	1.0	U		0.12	1.0	1.00000	ug/L	136171		11/29/04 1532	dpk
	2,4-Dinitrotoluene, Low Level Water	1.0	U		0.13	1.0	1.00000	ug/L	136171		11/29/04 1532	dpk
	Acenaphthene, Low Level Water	1.0	U		0.12	1.0	1.00000	ug/L	136171		11/29/04 1532	dpk
	Dibenzofuran, Low Level Water	2.0	U		0.13	2.0	1.00000	ug/L	136171		11/29/04 1532	dpk
	4-Nitrophenol, Low Level Water	20	U		3.7	20	1.00000	ug/L	136171		11/29/04 1532	dpk
	Fluorene, Low Level Water	1.0	U		0.13	1.0	1.00000	ug/L	136171		11/29/04 1532	dpk
	4-Nitroaniline, Low Level Water	10	U		2.3	10	1.00000	ug/L	136171		11/29/04 1532	dpk
	4-Bromophenyl phenyl ether, Low Level Water	5.1	U		0.19	5.1	1.00000	ug/L	136171		11/29/04 1532	dpk
	Hexachlorobenzene, Low Level Water	0.51	U		0.098	0.51	1.00000	ug/L	136171		11/29/04 1532	dpk
	Diethyl phthalate, Low Level Water	2.0	U		0.15	2.0	1.00000	ug/L	136171		11/29/04 1532	dpk
	4-Chlorophenyl phenyl ether, Low Level Water	5.1	U		0.76	5.1	1.00000	ug/L	136171		11/29/04 1532	dpk
	Pentachlorophenol, Low Level Water	10	U		1.7	10	1.00000	ug/L	136171		11/29/04 1532	dpk
	n-Nitrosodiphenylamine, Low Level Water	1.0	U		0.13	1.0	1.00000	ug/L	136171		11/29/04 1532	dpk
	4,6-Dinitro-2-methylphenol, Low Level Water	20	U		2.4	20	1.00000	ug/L	136171		11/29/04 1532	dpk
	Phenanthrene, Low Level Water	1.0	U		0.14	1.0	1.00000	ug/L	136171		11/29/04 1532	dpk
	Anthracene, Low Level Water	1.0	U		0.15	1.0	1.00000	ug/L	136171		11/29/04 1532	dpk
	Carbazole, Low Level Water	5.1	U		0.29	5.1	1.00000	ug/L	136171		11/29/04 1532	dpk
	Di-n-butyl phthalate, Low Level Water	5.1	U		0.36	5.1	1.00000	ug/L	136171		11/29/04 1532	dpk
	Fluoranthene, Low Level Water	1.0	U		0.14	1.0	1.00000	ug/L	136171		11/29/04 1532	dpk
	Pyrene, Low Level Water	1.0	U		0.12	1.0	1.00000	ug/L	136171		11/29/04 1532	dpk
	Butyl benzyl phthalate, Low Level Water	2.0	U		0.39	2.0	1.00000	ug/L	136171		11/29/04 1532	dpk
	Benzo(a)anthracene, Low Level Water	0.20	U		0.049	0.20	1.00000	ug/L	136171		11/29/04 1532	dpk
	Chrysene, Low Level Water	0.51	U		0.045	0.51	1.00000	ug/L	136171		11/29/04 1532	dpk

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231832

Date:12/06/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: CBLsw-002-SW
Date Sampled.....: 11/09/2004
Time Sampled.....: 12:50
Sample Matrix.....: Water

Laboratory Sample ID: 231832-3
Date Received.....: 11/10/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	3,3-Dichlorobenzidine, Low Level Water	5.1	U		0.73	5.1	1.00000	ug/L	136171		11/29/04 1532	dpk
	Bis(2-ethylhexyl)phthalate, Low Level Water	15	U		3.9	15	1.00000	ug/L	136171		11/29/04 1532	dpk
	Di-n-octyl phthalate, Low Level Water	10	U		2.5	10	1.00000	ug/L	136171		11/29/04 1532	dpk
	Benzo(b)fluoranthene, Low Level Water	0.40	U		0.068	0.40	1.00000	ug/L	136171		11/29/04 1532	dpk
	Benzo(k)fluoranthene, Low Level Water	0.40	U		0.073	0.40	1.00000	ug/L	136171		11/29/04 1532	dpk
	Benzo(a)pyrene, Low Level Water	0.40	U		0.085	0.40	1.00000	ug/L	136171		11/29/04 1532	dpk
	Indeno(1,2,3-cd)pyrene, Low Level Water	0.40	U		0.087	0.40	1.00000	ug/L	136171		11/29/04 1532	dpk
	Dibenzo(a,h)anthracene, Low Level Water	0.40	U		0.13	0.40	1.00000	ug/L	136171		11/29/04 1532	dpk
	Benzo(ghi)perylene, Low Level Water	1.0	U		0.19	1.0	1.00000	ug/L	136171		11/29/04 1532	dpk

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231832

Date:12/02/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: CBLsw-002-SW
Date Sampled.....: 11/09/2004
Time Sampled.....: 12:50
Sample Matrix.....: Water

Laboratory Sample ID: 231832-3
Date Received.....: 11/10/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8330	Explosives by 8330 (HPLC)											
	HMX	0.35	U		0.077	0.35	1.00000	ug/L	135917		11/13/04 1826	san
	RDX	0.23	U		0.073	0.23	1.00000	ug/L	135917		11/13/04 1826	san
	1,3,5-Trinitrobenzene	0.23	U		0.066	0.23	1.00000	ug/L	135917		11/13/04 1826	san
	1,3-Dinitrobenzene	0.23	U		0.062	0.23	1.00000	ug/L	135917		11/13/04 1826	san
	Nitrobenzene	0.18	U		0.050	0.18	1.00000	ug/L	135917		11/13/04 1826	san
	2,4,6-TNT	0.28	U		0.088	0.28	1.00000	ug/L	135917		11/13/04 1826	san
	Tetryl	0.88	U		0.19	0.88	1.00000	ug/L	135917		11/13/04 1826	san
	2,4-Dinitrotoluene	0.41	U		0.14	0.41	1.00000	ug/L	135917		11/13/04 1826	san
	2,6-Dinitrotoluene	0.49	U		0.16	0.49	1.00000	ug/L	135917		11/13/04 1826	san
	2-Amino-4,6-Dinitrotoluene	0.41	U		0.13	0.41	1.00000	ug/L	135917		11/13/04 1826	san
	4-Amino-2,6-Dinitrotoluene	0.37	U		0.13	0.37	1.00000	ug/L	135917		11/13/04 1826	san
	2-Nitrotoluene	0.35	U		0.11	0.35	1.00000	ug/L	135917		11/13/04 1826	san
	4-Nitrotoluene	0.35	U		0.11	0.35	1.00000	ug/L	135917		11/13/04 1826	san
	3-Nitrotoluene	0.35	U		0.11	0.35	1.00000	ug/L	135917		11/13/04 1826	san
8332M	NG/PETN by 8332M (HPLC)											
	Nitroglycerine	1.1	U		0.17	1.1	1.00000	ug/L	135908		11/20/04 1727	san

* In Description = Dry Wgt.

STL CHICAGO

Client Sample ID: CBLsw-002-SW

Trace Level Organic Compounds

Lot-Sample #...:	G4K100349-011	**Work Order #...:**	GWNG51AC	**Matrix.....:**	WATER
Date Sampled...:	11/09/04 12:50	**Date Received..:**	11/10/04		
Prep Date.....:	11/12/04	**Analysis Date..:**	11/17/04		
Prep Batch #...:	4317345				
Dilution Factor:	1	**Initial Wgt/Vol:**	10 mL	**Final Wgt/Vol..:**	10 mL

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
Nitroguanidine	ND	20	ug/L	NONE UV/HPLC per

STL CHICAGO

Client Sample ID: CBLsw-002-SW

General Chemistry

Lot-Sample #...: G4K100349-011 Work Order #...: GWNG5 Matrix.....: WATER
Date Sampled...: 11/09/04 12:50 Date Received..: 11/10/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	ND	0.50	mg/L	MCAWW 353.2	11/20-11/23/04	4325114

Dilution Factor: 1 Initial Wgt/Vol: 100 mL Final Wgt/Vol..: 40 mL
MDL.....: 0.12

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Job Number: 231832

LABORATORY TEST RESULTS

Date:12/01/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 ADCS ATTN: Eric Ellis

Customer Sample ID: CBLsw-002-DUP
Date Sampled.....: 11/09/2004
Time Sampled.....: 12:50
Sample Matrix.....: Water

Laboratory Sample ID: 231832-2
Date Received.....: 11/10/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
7196A	Hexavalent Chromium Hexavalent Chromium	0.010	U	H	0.0016	0.010	1	mg/L	133892		11/10/04 1232	pmf

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231832

Date:11/29/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: CBLsw-002-DUP
Date Sampled.....: 11/09/2004
Time Sampled.....: 12:50
Sample Matrix.....: Water

Laboratory Sample ID: 231832-2
Date Received.....: 11/10/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
7041	Antimony (GFAA)											
	Antimony	7.5	U		2.5	7.5	1	ug/L	134574		11/16/04 1823	daj
7060A	Arsenic (GFAA)											
	Arsenic	4.0			0.51	2.0	1	ug/L	134614		11/15/04 1416	daj
7421	Lead (GFAA)											
	Lead	3.0	U		0.79	3.0	1	ug/L	134350		11/13/04 0548	daj
7841	Thallium (GFAA)											
	Thallium	4.0	U		1.3	4.0	1	ug/L	134456		11/16/04 0427	daj
7470A	Mercury (CVAA)											
	Mercury	0.20	U		0.049	0.20	1	ug/L	134946		11/19/04 1642	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum	160			24	150	1	ug/L	134566		11/16/04 2203	tds
	Barium	28			1.5	10	1	ug/L	134566		11/16/04 2203	tds
	Beryllium	2.0	U		0.17	2.0	1	ug/L	134566		11/16/04 2203	tds
	Cadmium	2.0	U		0.44	2.0	1	ug/L	134566		11/16/04 2203	tds
	Calcium	11000			24	100	1	ug/L	134566		11/16/04 2203	tds
	Chromium	10	U		1.5	10	1	ug/L	134566		11/16/04 2203	tds
	Cobalt	1.9	B		1.0	5.0	1	ug/L	134566		11/16/04 2203	tds
	Copper	2.3	B		1.6	10	1	ug/L	134566		11/16/04 2203	tds
	Iron	2700			40	120	1	ug/L	134566		11/16/04 2203	tds
	Magnesium	2300			12	100	1	ug/L	134566		11/16/04 2203	tds
	Manganese	1400			0.71	10	1	ug/L	134566		11/16/04 2203	tds
	Nickel	10	U		1.9	10	1	ug/L	134566		11/16/04 2203	tds
	Potassium	4400			110	500	1	ug/L	134566		11/16/04 2203	tds

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

Job Number: 231832

LABORATORY TEST RESULTS

Date:11/29/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: CBLsw-002-DUP
Date Sampled.....: 11/09/2004
Time Sampled.....: 12:50
Sample Matrix.....: Water

Laboratory Sample ID: 231832-2
Date Received.....: 11/10/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium	15	U		5.0	15	1	ug/L	134566		11/16/04 2203	tds
	Silver	10	U		3.1	10	1	ug/L	134566		11/16/04 2203	tds
	Sodium	1500	U		500	1500	1	ug/L	134566		11/16/04 2203	tds
	Vanadium	10	U		2.1	10	1	ug/L	134566		11/16/04 2203	tds
	Zinc	30	U		10	30	1	ug/L	134566		11/16/04 2203	tds

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

Job Number: 231832

LABORATORY TEST RESULTS

Date:12/03/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: CBLsw-002-DUP
Date Sampled.....: 11/09/2004
Time Sampled.....: 12:50
Sample Matrix.....: Water

Laboratory Sample ID: 231832-2
Date Received.....: 11/10/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8081A	Organochlorine Pesticide Analysis											
	alpha-BHC	0.15	U		0.046	0.15	1.00000	ug/L	136059		11/16/04 0528	kdl
	beta-BHC	0.097	U		0.027	0.097	1.00000	ug/L	136059		11/16/04 0528	kdl
	delta-BHC	0.097	U		0.024	0.097	1.00000	ug/L	136059		11/16/04 0528	kdl
	gamma-BHC (Lindane)	0.15	U		0.041	0.15	1.00000	ug/L	136059		11/16/04 0528	kdl
	Heptachlor	0.15	U		0.040	0.15	1.00000	ug/L	136059		11/16/04 0528	kdl
	Aldrin	0.097	U		0.027	0.097	1.00000	ug/L	136059		11/16/04 0528	kdl
	Heptachlor epoxide	0.15	U		0.035	0.15	1.00000	ug/L	136059		11/16/04 0528	kdl
	Endosulfan I	0.097	U		0.020	0.097	1.00000	ug/L	136059		11/16/04 0528	kdl
	Dieldrin	0.097	U		0.017	0.097	1.00000	ug/L	136059		11/16/04 0528	kdl
	4,4'-DDE	0.097	U		0.022	0.097	1.00000	ug/L	136059		11/16/04 0528	kdl
	Endrin	0.097	U		0.017	0.097	1.00000	ug/L	136059		11/16/04 0528	kdl
	Endosulfan II	0.15	U		0.041	0.15	1.00000	ug/L	136059		11/16/04 0528	kdl
	4,4'-DDD	0.11	U		0.035	0.11	1.00000	ug/L	136059		11/16/04 0528	kdl
	Endosulfan sulfate	0.15	U		0.043	0.15	1.00000	ug/L	136059		11/16/04 0528	kdl
	4,4'-DDT	0.15	U		0.048	0.15	1.00000	ug/L	136059		11/16/04 0528	kdl
	Methoxychlor	0.58	U		0.17	0.58	1.00000	ug/L	136059		11/16/04 0528	kdl
	alpha-Chlordane	0.049	U		0.016	0.049	1.00000	ug/L	136059		11/16/04 0528	kdl
	gamma-Chlordane	0.097	U		0.017	0.097	1.00000	ug/L	136059		11/16/04 0528	kdl
	Endrin aldehyde	0.15	U		0.034	0.15	1.00000	ug/L	136059		11/16/04 0528	kdl
	Endrin ketone	0.097	U		0.028	0.097	1.00000	ug/L	136059		11/16/04 0528	kdl
	Toxaphene	0.49	U		0.14	0.49	1.00000	ug/L	136059		11/16/04 0528	kdl

* In Description = Dry Wgt.

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Job Number: 231832

LABORATORY TEST RESULTS

Date:12/01/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP T4 AOCs ATTN: Eric Ellis

Customer Sample ID: CBLsw-002-DUP
Date Sampled.....: 11/09/2004
Time Sampled.....: 12:50
Sample Matrix.....: Water

Laboratory Sample ID: 231832-2
Date Received.....: 11/10/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8082	PCB Analysis											
	Aroclor 1016	0.58	U		0.17	0.58	1.00000	ug/L	135575		11/19/04 2146	bjt
	Aroclor 1221	1.3	U		0.41	1.3	1.00000	ug/L	135575		11/19/04 2146	bjt
	Aroclor 1232	1.3	U		0.34	1.3	1.00000	ug/L	135575		11/19/04 2146	bjt
	Aroclor 1242	1.3	U		0.42	1.3	1.00000	ug/L	135575		11/19/04 2146	bjt
	Aroclor 1248	1.5	U		0.47	1.5	1.00000	ug/L	135575		11/19/04 2146	bjt
	Aroclor 1254	1.3	U		0.34	1.3	1.00000	ug/L	135575		11/19/04 2146	bjt
	Aroclor 1260	0.58	U		0.17	0.58	1.00000	ug/L	135575		11/19/04 2146	bjt

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

LABORATORY TEST RESULTS

Job Number: 231832 Date: 11/20/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: CBLsw-002-DUP
Date Sampled.....: 11/09/2004
Time Sampled.....: 12:50
Sample Matrix.....: Water

Laboratory Sample ID: 231832-2
Date Received.....: 11/10/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	TQ	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DI	DATE/TIME	TECH
8260B	Volatile Organics											
	Chloromethane	1.0	U		0.080	1.0	1.00000	ug/L	134612		11/16/04 1830	jdn
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	134612		11/16/04 1830	jdn
	Bromomethane	1.0	U		0.10	1.0	1.00000	ug/L	134612		11/16/04 1830	jdn
	Chloroethane	1.0	U		0.080	1.0	1.00000	ug/L	134612		11/16/04 1830	jdn
	1,1-Dichloroethene	1.0	U	*	0.12	1.0	1.00000	ug/L	134612		11/16/04 1830	jdn
	Carbon disulfide	5.0	U	*	0.20	5.0	1.00000	ug/L	134612		11/16/04 1830	jdn
	Acetone	8.2	J		1.8	10	1.00000	ug/L	134612		11/16/04 1830	jdn
	Methylene chloride	1.5	U		0.35	1.5	1.00000	ug/L	134612		11/16/04 1830	jdn
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	134612		11/16/04 1830	jdn
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	134612		11/16/04 1830	jdn
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	134612		11/16/04 1830	jdn
	2-Butanone (MEK)	10	U		1.2	10	1.00000	ug/L	134612		11/16/04 1830	jdn
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	134612		11/16/04 1830	jdn
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	134612		11/16/04 1830	jdn
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	134612		11/16/04 1830	jdn
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	134612		11/16/04 1830	jdn
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	134612		11/16/04 1830	jdn
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	134612		11/16/04 1830	jdn
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	134612		11/16/04 1830	jdn
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	134612		11/16/04 1830	jdn
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	134612		11/16/04 1830	jdn
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	134612		11/16/04 1830	jdn
	4-Methyl-2-pentanone (MIBK)	10	U		0.65	10	1.00000	ug/L	134612		11/16/04 1830	jdn
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	134612		11/16/04 1830	jdn
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	134612		11/16/04 1830	jdn
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	134612		11/16/04 1830	jdn
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	134612		11/16/04 1830	jdn
	2-Hexanone	10	U		0.53	10	1.00000	ug/L	134612		11/16/04 1830	jdn

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231832

Date:11/20/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: CBLsw-002-DUP
Date Sampled.....: 11/09/2004
Time Sampled.....: 12:50
Sample Matrix.....: Water

Laboratory Sample ID: 231832-2
Date Received.....: 11/10/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	1.0	U		0.060	1.0	1.00000	ug/L	134612		11/16/04 1830	jdn
	1,2-Dibromoethane (EDB)	1.0	U		0.13	1.0	1.00000	ug/L	134612		11/16/04 1830	jdn
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	134612		11/16/04 1830	jdn
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	134612		11/16/04 1830	jdn
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	134612		11/16/04 1830	jdn
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	134612		11/16/04 1830	jdn
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	134612		11/16/04 1830	jdn
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	134612		11/16/04 1830	jdn
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	134612		11/16/04 1830	jdn
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	134612		11/16/04 1830	jdn
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	134612		11/16/04 1830	jdn

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231832 Date:12/06/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: CBLsw-002-DUP
Date Sampled.....: 11/09/2004
Time Sampled.....: 12:50
Sample Matrix.....: Water

Laboratory Sample ID: 231832-2
Date Received.....: 11/10/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8270C	Semivolatile Organics											
	Phenol, Low Level Water	4.9	U		0.34	4.9	1.00000	ug/L	136171		11/29/04 1412	dpk
	Bis(2-chloroethyl)ether, Low Level Water	2.0	U		0.29	2.0	1.00000	ug/L	136171		11/29/04 1412	dpk
	1,3-Dichlorobenzene, Low Level Water	2.0	U		0.42	2.0	1.00000	ug/L	136171		11/29/04 1412	dpk
	1,4-Dichlorobenzene, Low Level Water	2.0	U		0.32	2.0	1.00000	ug/L	136171		11/29/04 1412	dpk
	1,2-Dichlorobenzene, Low Level Water	2.0	U		0.34	2.0	1.00000	ug/L	136171		11/29/04 1412	dpk
	Benzyl alcohol, Low Level Water	20	U		2.2	20	1.00000	ug/L	136171		11/29/04 1412	dpk
	2-Methylphenol (o-cresol), Low Level Water	2.0	U		0.25	2.0	1.00000	ug/L	136171		11/29/04 1412	dpk
	2,2-oxybis (1-chloropropane), Low Level Water	2.0	U		0.27	2.0	1.00000	ug/L	136171		11/29/04 1412	dpk
	n-Nitroso-di-n-propylamine, Low Level Water	0.49	U		0.079	0.49	1.00000	ug/L	136171		11/29/04 1412	dpk
	Hexachloroethane, Low Level Water	4.9	U		0.60	4.9	1.00000	ug/L	136171		11/29/04 1412	dpk
	4-Methylphenol (m/p-cresol), Low Level Water	2.0	U		0.098	2.0	1.00000	ug/L	136171		11/29/04 1412	dpk
	2-Chlorophenol, Low Level Water	4.9	U		0.12	4.9	1.00000	ug/L	136171		11/29/04 1412	dpk
	Nitrobenzene, Low Level Water	0.98	U		0.16	0.98	1.00000	ug/L	136171		11/29/04 1412	dpk
	Bis(2-chloroethoxy)methane, Low Level Water	2.0	U		0.30	2.0	1.00000	ug/L	136171		11/29/04 1412	dpk
	1,2,4-Trichlorobenzene, Low Level Water	2.0	U		0.33	2.0	1.00000	ug/L	136171		11/29/04 1412	dpk
	Benzoic acid, Low Level Water	20	U		2.9	20	1.00000	ug/L	136171		11/29/04 1412	dpk
	Isophorone, Low Level Water	2.0	U		0.25	2.0	1.00000	ug/L	136171		11/29/04 1412	dpk
	2,4-Dimethylphenol, Low Level Water	9.8	U		1.3	9.8	1.00000	ug/L	136171		11/29/04 1412	dpk
	Hexachlorobutadiene, Low Level Water	4.9	U		0.63	4.9	1.00000	ug/L	136171		11/29/04 1412	dpk
	Naphthalene, Low Level Water	0.98	U		0.16	0.98	1.00000	ug/L	136171		11/29/04 1412	dpk
	2,4-Dichlorophenol, Low Level Water	9.8	U		0.89	9.8	1.00000	ug/L	136171		11/29/04 1412	dpk
	4-Chloroaniline, Low Level Water	9.8	U		2.7	9.8	1.00000	ug/L	136171		11/29/04 1412	dpk
	2,4,6-Trichlorophenol, Low Level Water	4.9	U		0.21	4.9	1.00000	ug/L	136171		11/29/04 1412	dpk
	2,4,5-Trichlorophenol, Low Level Water	9.8	U		1.4	9.8	1.00000	ug/L	136171		11/29/04 1412	dpk
	Hexachlorocyclopentadiene, Low Level Water	20	U	*	0.64	20	1.00000	ug/L	136171		11/29/04 1412	dpk
	2-Methylnaphthalene, Low Level Water	0.49	U		0.13	0.49	1.00000	ug/L	136171		11/29/04 1412	dpk
	2-Nitroaniline, Low Level Water	4.9	U		0.22	4.9	1.00000	ug/L	136171		11/29/04 1412	dpk
	2-Chloronaphthalene, Low Level Water	2.0	U		0.25	2.0	1.00000	ug/L	136171		11/29/04 1412	dpk

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231832 Date: 12/06/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCs ATTN: Eric Ellis

Customer Sample ID: CBLsw-002-DUP
Date Sampled.....: 11/09/2004
Time Sampled.....: 12:50
Sample Matrix.....: Water

Laboratory Sample ID: 231832-2
Date Received.....: 11/10/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	4-Chloro-3-methylphenol, Low Level Water	9.8	U		2.4	9.8	1.00000	ug/L	136171		11/29/04 1412	dpk
	2,6-Dinitrotoluene, Low Level Water	0.49	U		0.11	0.49	1.00000	ug/L	136171		11/29/04 1412	dpk
	2-Nitrophenol, Low Level Water	9.8	U		0.80	9.8	1.00000	ug/L	136171		11/29/04 1412	dpk
	3-Nitroaniline, Low Level Water	9.8	U		2.1	9.8	1.00000	ug/L	136171		11/29/04 1412	dpk
	Dimethyl phthalate, Low Level Water	2.0	U		0.21	2.0	1.00000	ug/L	136171		11/29/04 1412	dpk
	2,4-Dinitrophenol, Low Level Water	20	U		3.2	20	1.00000	ug/L	136171		11/29/04 1412	dpk
	Acenaphthylene, Low Level Water	0.98	U		0.12	0.98	1.00000	ug/L	136171		11/29/04 1412	dpk
	2,4-Dinitrotoluene, Low Level Water	0.98	U		0.13	0.98	1.00000	ug/L	136171		11/29/04 1412	dpk
	Acenaphthene, Low Level Water	0.98	U		0.12	0.98	1.00000	ug/L	136171		11/29/04 1412	dpk
	Dibenzofuran, Low Level Water	2.0	U		0.13	2.0	1.00000	ug/L	136171		11/29/04 1412	dpk
	4-Nitrophenol, Low Level Water	20	U		3.6	20	1.00000	ug/L	136171		11/29/04 1412	dpk
	Fluorene, Low Level Water	0.98	U		0.13	0.98	1.00000	ug/L	136171		11/29/04 1412	dpk
	4-Nitroaniline, Low Level Water	9.8	U		2.3	9.8	1.00000	ug/L	136171		11/29/04 1412	dpk
	4-Bromophenyl phenyl ether, Low Level Water	4.9	U		0.19	4.9	1.00000	ug/L	136171		11/29/04 1412	dpk
	Hexachlorobenzene, Low Level Water	0.49	U		0.095	0.49	1.00000	ug/L	136171		11/29/04 1412	dpk
	Diethyl phthalate, Low Level Water	2.0	U		0.15	2.0	1.00000	ug/L	136171		11/29/04 1412	dpk
	4-Chlorophenyl phenyl ether, Low Level Water	4.9	U		0.74	4.9	1.00000	ug/L	136171		11/29/04 1412	dpk
	Pentachlorophenol, Low Level Water	9.8	U		1.7	9.8	1.00000	ug/L	136171		11/29/04 1412	dpk
	n-Nitrosodiphenylamine, Low Level Water	0.98	U		0.13	0.98	1.00000	ug/L	136171		11/29/04 1412	dpk
	4,6-Dinitro-2-methylphenol, Low Level Water	20	U		2.4	20	1.00000	ug/L	136171		11/29/04 1412	dpk
	Phenanthrene, Low Level Water	0.98	U		0.14	0.98	1.00000	ug/L	136171		11/29/04 1412	dpk
	Anthracene, Low Level Water	0.98	U		0.15	0.98	1.00000	ug/L	136171		11/29/04 1412	dpk
	Carbazole, Low Level Water	4.9	U		0.28	4.9	1.00000	ug/L	136171		11/29/04 1412	dpk
	Di-n-butyl phthalate, Low Level Water	4.9	U		0.35	4.9	1.00000	ug/L	136171		11/29/04 1412	dpk
	Fluoranthene, Low Level Water	0.98	U		0.14	0.98	1.00000	ug/L	136171		11/29/04 1412	dpk
	Pyrene, Low Level Water	0.98	U		0.12	0.98	1.00000	ug/L	136171		11/29/04 1412	dpk
	Butyl benzyl phthalate, Low Level Water	2.0	U		0.38	2.0	1.00000	ug/L	136171		11/29/04 1412	dpk
	Benzo(a)anthracene, Low Level Water	0.20	U		0.048	0.20	1.00000	ug/L	136171		11/29/04 1412	dpk
	Chrysene, Low Level Water	0.49	U		0.044	0.49	1.00000	ug/L	136171		11/29/04 1412	dpk

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231832

Date:12/06/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: CBLsw-002-DUP
Date Sampled.....: 11/09/2004
Time Sampled.....: 12:50
Sample Matrix.....: Water

Laboratory Sample ID: 231832-2
Date Received.....: 11/10/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	3,3-Dichlorobenzidine, Low Level Water	4.9	U		0.71	4.9	1.00000	ug/L	136171		11/29/04 1412	dpk
	Bis(2-ethylhexyl)phthalate, Low Level Water	15	U		3.8	15	1.00000	ug/L	136171		11/29/04 1412	dpk
	Di-n-octyl phthalate, Low Level Water	9.8	U		2.5	9.8	1.00000	ug/L	136171		11/29/04 1412	dpk
	Benzo(b)fluoranthene, Low Level Water	0.39	U		0.066	0.39	1.00000	ug/L	136171		11/29/04 1412	dpk
	Benzo(k)fluoranthene, Low Level Water	0.39	U		0.071	0.39	1.00000	ug/L	136171		11/29/04 1412	dpk
	Benzo(a)pyrene, Low Level Water	0.39	U		0.082	0.39	1.00000	ug/L	136171		11/29/04 1412	dpk
	Indeno(1,2,3-cd)pyrene, Low Level Water	0.39	U		0.084	0.39	1.00000	ug/L	136171		11/29/04 1412	dpk
	Dibenzo(a,h)anthracene, Low Level Water	0.39	U		0.13	0.39	1.00000	ug/L	136171		11/29/04 1412	dpk
	Benzo(ghi)perylene, Low Level Water	0.98	U		0.19	0.98	1.00000	ug/L	136171		11/29/04 1412	dpk

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

Job Number: 231832

LABORATORY TEST RESULTS

Date: 12/02/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 ADCS ATTN: Eric Ellis

Customer Sample ID: CBLsw-002-DUP
Date Sampled.....: 11/09/2004
Time Sampled.....: 12:50
Sample Matrix.....: Water

Laboratory Sample ID: 231832-2
Date Received.....: 11/10/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8330	Explosives by 8330 (HPLC)											
	HMX	0.31	U		0.068	0.31	1.00000	ug/L	135917		11/13/04 1753	san
	RDX	0.20	U		0.064	0.20	1.00000	ug/L	135917		11/13/04 1753	san
	1,3,5-Trinitrobenzene	0.20	U		0.058	0.20	1.00000	ug/L	135917		11/13/04 1753	san
	1,3-Dinitrobenzene	0.20	U		0.055	0.20	1.00000	ug/L	135917		11/13/04 1753	san
	Nitrobenzene	0.16	U		0.044	0.16	1.00000	ug/L	135917		11/13/04 1753	san
	2,4,6-TNT	0.25	U		0.078	0.25	1.00000	ug/L	135917		11/13/04 1753	san
	Tetryl	0.78	U		0.16	0.78	1.00000	ug/L	135917		11/13/04 1753	san
	2,4-Dinitrotoluene	0.36	U		0.12	0.36	1.00000	ug/L	135917		11/13/04 1753	san
	2,6-Dinitrotoluene	0.43	U		0.14	0.43	1.00000	ug/L	135917		11/13/04 1753	san
	2-Amino-4,6-Dinitrotoluene	0.36	U		0.12	0.36	1.00000	ug/L	135917		11/13/04 1753	san
	4-Amino-2,6-Dinitrotoluene	0.33	U		0.11	0.33	1.00000	ug/L	135917		11/13/04 1753	san
	2-Nitrotoluene	0.31	U		0.093	0.31	1.00000	ug/L	135917		11/13/04 1753	san
	4-Nitrotoluene	0.31	U		0.10	0.31	1.00000	ug/L	135917		11/13/04 1753	san
	3-Nitrotoluene	0.31	U		0.10	0.31	1.00000	ug/L	135917		11/13/04 1753	san
8332M	NG/PETN by 8332M (HPLC)											
	Nitroglycerine	1.0	U		0.15	1.0	1.00000	ug/L	135908		11/20/04 1652	san

* In Description = Dry Wgt.

STL CHICAGO

Client Sample ID: CBLsw-002-DUP

Trace Level Organic Compounds

Lot-Sample #...:	G4K100349-010	**Work Order #...:**	GWNGW1AC	**Matrix.....:**	WATER
Date Sampled...:	11/09/04 12:50	**Date Received..:**	11/10/04		
Prep Date.....:	11/12/04	**Analysis Date..:**	11/17/04		
Prep Batch #...:	4317345				
Dilution Factor:	1	**Initial Wgt/Vol:**	10 mL	**Final Wgt/Vol..:**	10 mL

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
Nitroguanidine	ND	20	ug/L	NONE UV/HPLC per

STL CHICAGO

Client Sample ID: CBLsw-002-DUP

General Chemistry

Lot-Sample #...: G4K100349-010 Work Order #...: GWNGW Matrix.....: WATER
Date Sampled...: 11/09/04 12:50 Date Received..: 11/10/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	ND	0.50	mg/L	MCAWW 353.2	11/20-11/23/04	4325114

Dilution Factor: 1 Initial Wgt/Vol: 100 mL Final Wgt/Vol..: 40 mL
MDL.....: 0.12

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Job Number: 231793

LABORATORY TEST RESULTS

Date:12/01/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: CBLsw-003-SW
Date Sampled.....: 11/08/2004
Time Sampled.....: 14:30
Sample Matrix.....: Water

Laboratory Sample ID: 231793-19
Date Received.....: 11/09/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
7196A	Hexavalent Chromium Hexavalent Chromium	0.022	B		0.0080	0.050	5	mg/L	133663		11/09/04 1133	pmf

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

Job Number: 231793

LABORATORY TEST RESULTS

Date:11/24/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: CBLsw-003-SW
Date Sampled.....: 11/08/2004
Time Sampled.....: 14:30
Sample Matrix.....: Water

Laboratory Sample ID: 231793-19
Date Received.....: 11/09/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
7041	Antimony (GFAA)											
	Antimony	7.5	U		2.5	7.5	1	ug/L	134574		11/16/04 1803	daj
7060A	Arsenic (GFAA)											
	Arsenic	11			0.51	2.0	1	ug/L	134614		11/15/04 1354	daj
7421	Lead (GFAA)											
	Lead	3.0	U		0.79	3.0	1	ug/L	134350		11/13/04 0513	daj
7841	Thallium (GFAA)											
	Thallium	4.0	U		1.3	4.0	1	ug/L	134456		11/16/04 0402	daj
7470A	Mercury (CVAA)											
	Mercury	0.056	B		0.049	0.20	1	ug/L	134946		11/19/04 1637	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum	350			24	150	1	ug/L	134566		11/16/04 2150	tds
	Barium	120			1.5	10	1	ug/L	134566		11/16/04 2150	tds
	Beryllium	2.0	U		0.17	2.0	1	ug/L	134566		11/16/04 2150	tds
	Cadmium	2.0	U		0.44	2.0	1	ug/L	134566		11/16/04 2150	tds
	Calcium	17000			24	100	1	ug/L	134566		11/16/04 2150	tds
	Chromium	2.0	B		1.5	10	1	ug/L	134566		11/16/04 2150	tds
	Cobalt	9.4			1.0	5.0	1	ug/L	134566		11/16/04 2150	tds
	Copper	3.4	B		1.6	10	1	ug/L	134566		11/16/04 2150	tds
	Iron	23000			40	120	1	ug/L	134566		11/16/04 2150	tds
	Magnesium	3500			12	100	1	ug/L	134566		11/16/04 2150	tds
	Manganese	4100			0.71	10	1	ug/L	134566		11/16/04 2150	tds
	Nickel	3.9	B		1.9	10	1	ug/L	134566		11/16/04 2150	tds
	Potassium	12000			110	500	1	ug/L	134566		11/16/04 2150	tds

* In Description = Dry Wgt.

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Job Number: 231793

LABORATORY TEST RESULTS

Date:11/24/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: CBLsw-003-SW
Date Sampled.....: 11/08/2004
Time Sampled.....: 14:30
Sample Matrix.....: Water

Laboratory Sample ID: 231793-19
Date Received.....: 11/09/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium	15	U		5.0	15	1	ug/L	134566		11/16/04 2150	tds
	Silver	10	U		3.1	10	1	ug/L	134566		11/16/04 2150	tds
	Sodium	1500	U		500	1500	1	ug/L	134566		11/16/04 2150	tds
	Vanadium	10	U		2.1	10	1	ug/L	134566		11/16/04 2150	tds
	Zinc	19	B		10	30	1	ug/L	134566		11/16/04 2150	tds

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

LABORATORY TEST RESULTS

Job Number: 231793

Date:12/02/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: CBLsw-003-SW
Date Sampled.....: 11/08/2004
Time Sampled.....: 14:30
Sample Matrix.....: Water

Laboratory Sample ID: 231793-19
Date Received.....: 11/09/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8081A	Organochlorine Pesticide Analysis											
	alpha-BHC	0.29	U		0.090	0.29	2.00000	ug/L	135979		11/16/04 1223	kdl
	beta-BHC	0.19	U		0.054	0.19	2.00000	ug/L	135979		11/16/04 1223	kdl
	delta-BHC	0.19	U		0.048	0.19	2.00000	ug/L	135979		11/16/04 1223	kdl
	gamma-BHC (Lindane)	0.29	U		0.081	0.29	2.00000	ug/L	135979		11/16/04 1223	kdl
	Heptachlor	0.29	U		0.079	0.29	2.00000	ug/L	135979		11/16/04 1223	kdl
	Aldrin	0.19	U		0.054	0.19	2.00000	ug/L	135979		11/16/04 1223	kdl
	Heptachlor epoxide	0.29	U		0.069	0.29	2.00000	ug/L	135979		11/16/04 1223	kdl
	Endosulfan I	0.19	U		0.040	0.19	2.00000	ug/L	135979		11/16/04 1223	kdl
	Dieldrin	0.19	U		0.035	0.19	2.00000	ug/L	135979		11/16/04 1223	kdl
	4,4'-DDE	0.19	U		0.044	0.19	2.00000	ug/L	135979		11/16/04 1223	kdl
	Endrin	0.19	U		0.033	0.19	2.00000	ug/L	135979		11/16/04 1223	kdl
	Endosulfan II	0.29	U		0.081	0.29	2.00000	ug/L	135979		11/16/04 1223	kdl
	4,4'-DDD	0.21	U		0.069	0.21	2.00000	ug/L	135979		11/16/04 1223	kdl
	Endosulfan sulfate	0.29	U		0.085	0.29	2.00000	ug/L	135979		11/16/04 1223	kdl
	4,4'-DDT	0.29	U		0.094	0.29	2.00000	ug/L	135979		11/16/04 1223	kdl
	Methoxychlor	1.2	U		0.33	1.2	2.00000	ug/L	135979		11/16/04 1223	kdl
	alpha-Chlordane	0.096	U		0.031	0.096	2.00000	ug/L	135979		11/16/04 1223	kdl
	gamma-Chlordane	0.19	U		0.033	0.19	2.00000	ug/L	135979		11/16/04 1223	kdl
	Endrin aldehyde	0.29	U		0.067	0.29	2.00000	ug/L	135979		11/16/04 1223	kdl
	Endrin ketone	0.19	U		0.056	0.19	2.00000	ug/L	135979		11/16/04 1223	kdl
	Toxaphene	0.96	U		0.27	0.96	2.00000	ug/L	135979		11/16/04 1223	kdl

* In Description = Dry Wgt.

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Job Number: 231793

LABORATORY TEST RESULTS

Date:12/01/2004

CUSTOMER: MKN Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: CBLsw-003-SW
Date Sampled.....: 11/08/2004
Time Sampled.....: 14:30
Sample Matrix.....: Water

Laboratory Sample ID: 231793-19
Date Received.....: 11/09/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8082	PCB Analysis											
	Aroclor 1016	0.58	U		0.17	0.58	1.00000	ug/L	135575		11/19/04 2036	bjt
	Aroclor 1221	1.2	U		0.40	1.2	1.00000	ug/L	135575		11/19/04 2036	bjt
	Aroclor 1232	1.2	U		0.34	1.2	1.00000	ug/L	135575		11/19/04 2036	bjt
	Aroclor 1242	1.2	U		0.41	1.2	1.00000	ug/L	135575		11/19/04 2036	bjt
	Aroclor 1248	1.4	U		0.46	1.4	1.00000	ug/L	135575		11/19/04 2036	bjt
	Aroclor 1254	1.2	U		0.34	1.2	1.00000	ug/L	135575		11/19/04 2036	bjt
	Aroclor 1260	0.58	U		0.16	0.58	1.00000	ug/L	135575		11/19/04 2036	bjt

* In Description = Dry Wgt.

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Job Number: 231793

LABORATORY TEST RESULTS

Date:11/18/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: CBLsw-003-SW
Date Sampled.....: 11/08/2004
Time Sampled.....: 14:30
Sample Matrix.....: Water

Laboratory Sample ID: 231793-19
Date Received.....: 11/09/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics											
	Chloromethane	1.0	U		0.080	1.0	1.00000	ug/L	134097		11/12/04 0641	jdn
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	134097		11/12/04 0641	jdn
	Bromomethane	1.0	U		0.10	1.0	1.00000	ug/L	134097		11/12/04 0641	jdn
	Chloroethane	1.0	U		0.080	1.0	1.00000	ug/L	134097		11/12/04 0641	jdn
	1,1-Dichloroethene	1.0	U		0.12	1.0	1.00000	ug/L	134097		11/12/04 0641	jdn
	Carbon disulfide	3.7			0.20	5.0	1.00000	ug/L	134097		11/12/04 0641	jdn
	Acetone	14			1.8	10	1.00000	ug/L	134097		11/12/04 0641	jdn
	Methylene chloride	1.5			0.35	1.5	1.00000	ug/L	134097		11/12/04 0641	jdn
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	134097		11/12/04 0641	jdn
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	134097		11/12/04 0641	jdn
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	134097		11/12/04 0641	jdn
	2-Butanone (MEK)	10			1.2	10	1.00000	ug/L	134097		11/12/04 0641	jdn
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	134097		11/12/04 0641	jdn
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	134097		11/12/04 0641	jdn
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	134097		11/12/04 0641	jdn
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	134097		11/12/04 0641	jdn
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	134097		11/12/04 0641	jdn
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	134097		11/12/04 0641	jdn
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	134097		11/12/04 0641	jdn
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	134097		11/12/04 0641	jdn
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	134097		11/12/04 0641	jdn
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	134097		11/12/04 0641	jdn
	4-Methyl-2-pentanone (MIBK)	10			0.65	10	1.00000	ug/L	134097		11/12/04 0641	jdn
	Toluene	64			0.10	1.0	1.00000	ug/L	134097		11/12/04 0641	jdn
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	134097		11/12/04 0641	jdn
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	134097		11/12/04 0641	jdn
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	134097		11/12/04 0641	jdn
	2-Hexanone	10	U		0.53	10	1.00000	ug/L	134097		11/12/04 0641	jdn

* In Description = Dry Wgt.

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Job Number: 231793

LABORATORY TEST RESULTS

Date:11/18/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 ADCS ATTN: Eric Ellis

Customer Sample ID: CBLsw-003-SW
Date Sampled.....: 11/08/2004
Time Sampled.....: 14:30
Sample Matrix.....: Water

Laboratory Sample ID: 231793-19
Date Received.....: 11/09/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	*	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	1.0	U		0.060	1.0	1.00000	ug/L	134097		11/12/04 0641	jdn
	1,2-Dibromoethane (EDB)	1.0	U		0.13	1.0	1.00000	ug/L	134097		11/12/04 0641	jdn
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	134097		11/12/04 0641	jdn
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	134097		11/12/04 0641	jdn
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	134097		11/12/04 0641	jdn
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	134097		11/12/04 0641	jdn
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	134097		11/12/04 0641	jdn
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	134097		11/12/04 0641	jdn
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	134097		11/12/04 0641	jdn
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	134097		11/12/04 0641	jdn
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	134097		11/12/04 0641	jdn

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231793 Date:12/06/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCs ATTN: Eric Ellis

Customer Sample ID: CBLsw-003-SW
Date Sampled.....: 11/08/2004
Time Sampled.....: 14:30
Sample Matrix.....: Water

Laboratory Sample ID: 231793-19
Date Received.....: 11/09/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8270C	Semivolatile Organics											
	Phenol, Low Level Water	68			0.35	5.0	1.00000	ug/L	135729		11/26/04 2041	glr
	Bis(2-chloroethyl)ether, Low Level Water	2.0	U		0.30	2.0	1.00000	ug/L	135729		11/26/04 2041	glr
	1,3-Dichlorobenzene, Low Level Water	2.0	U		0.43	2.0	1.00000	ug/L	135729		11/26/04 2041	glr
	1,4-Dichlorobenzene, Low Level Water	2.0	U		0.33	2.0	1.00000	ug/L	135729		11/26/04 2041	glr
	1,2-Dichlorobenzene, Low Level Water	2.0	U		0.35	2.0	1.00000	ug/L	135729		11/26/04 2041	glr
	Benzyl alcohol, Low Level Water	12	J		2.2	20	1.00000	ug/L	135729		11/26/04 2041	glr
	2-Methylphenol (o-cresol), Low Level Water	72			0.26	2.0	1.00000	ug/L	135729		11/26/04 2041	glr
	2,2-oxybis (1-chloropropane), Low Level Water	2.0	U	*	0.28	2.0	1.00000	ug/L	135729		11/26/04 2041	glr
	n-Nitroso-di-n-propylamine, Low Level Water	0.50	U		0.080	0.50	1.00000	ug/L	135729		11/26/04 2041	glr
	Hexachloroethane, Low Level Water	5.0	U		0.60	5.0	1.00000	ug/L	135729		11/26/04 2041	glr
	4-Methylphenol (m/p-cresol), Low Level Water	86			0.099	2.0	1.00000	ug/L	135729		11/26/04 2041	glr
	2-Chlorophenol, Low Level Water	5.0	U		0.12	5.0	1.00000	ug/L	135729		11/26/04 2041	glr
	Nitrobenzene, Low Level Water	0.99	U		0.16	0.99	1.00000	ug/L	135729		11/26/04 2041	glr
	Bis(2-chloroethoxy)methane, Low Level Water	2.0	U		0.31	2.0	1.00000	ug/L	135729		11/26/04 2041	glr
	1,2,4-Trichlorobenzene, Low Level Water	2.0	U		0.34	2.0	1.00000	ug/L	135729		11/26/04 2041	glr
	Benzoic acid, Low Level Water	410			30	200	10.00000	ug/L	135729	D1	12/03/04 1734	glr
	Isophorone, Low Level Water	2.2			0.26	2.0	1.00000	ug/L	135729		11/26/04 2041	glr
	2,4-Dimethylphenol, Low Level Water	88			1.3	9.9	1.00000	ug/L	135729		11/26/04 2041	glr
	Hexachlorobutadiene, Low Level Water	5.0	U		0.63	5.0	1.00000	ug/L	135729		11/26/04 2041	glr
	Naphthalene, Low Level Water	0.99	U		0.16	0.99	1.00000	ug/L	135729		11/26/04 2041	glr
	2,4-Dichlorophenol, Low Level Water	9.9	U		0.90	9.9	1.00000	ug/L	135729		11/26/04 2041	glr
	4-Chloroaniline, Low Level Water	9.9	U		2.8	9.9	1.00000	ug/L	135729		11/26/04 2041	glr
	2,4,6-Trichlorophenol, Low Level Water	5.0	U		0.21	5.0	1.00000	ug/L	135729		11/26/04 2041	glr
	2,4,5-Trichlorophenol, Low Level Water	9.9	U		1.4	9.9	1.00000	ug/L	135729		11/26/04 2041	glr
	Hexachlorocyclopentadiene, Low Level Water	20	U	*	0.64	20	1.00000	ug/L	135729		11/26/04 2041	glr
	2-Methylnaphthalene, Low Level Water	0.50	U		0.13	0.50	1.00000	ug/L	135729		11/26/04 2041	glr
	2-Nitroaniline, Low Level Water	5.0	U		0.22	5.0	1.00000	ug/L	135729		11/26/04 2041	glr
	2-Chloronaphthalene, Low Level Water	2.0	U		0.26	2.0	1.00000	ug/L	135729		11/26/04 2041	glr

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231793

Date:12/06/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: CBLsw-003-SW
Date Sampled.....: 11/08/2004
Time Sampled.....: 14:30
Sample Matrix.....: Water

Laboratory Sample ID: 231793-19
Date Received.....: 11/09/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	4-Chloro-3-methylphenol, Low Level Water	9.9	U		2.4	9.9	1.00000	ug/L	135729		11/26/04 2041	glr
	2,6-Dinitrotoluene, Low Level Water	0.50	U		0.11	0.50	1.00000	ug/L	135729		11/26/04 2041	glr
	2-Nitrophenol, Low Level Water	9.9	U		0.81	9.9	1.00000	ug/L	135729		11/26/04 2041	glr
	3-Nitroaniline, Low Level Water	9.9	U		2.1	9.9	1.00000	ug/L	135729		11/26/04 2041	glr
	Dimethyl phthalate, Low Level Water	2.0	U		0.21	2.0	1.00000	ug/L	135729		11/26/04 2041	glr
	2,4-Dinitrophenol, Low Level Water	20	U		3.3	20	1.00000	ug/L	135729		11/26/04 2041	glr
	Acenaphthylene, Low Level Water	0.99	U		0.12	0.99	1.00000	ug/L	135729		11/26/04 2041	glr
	2,4-Dinitrotoluene, Low Level Water	0.99	U		0.13	0.99	1.00000	ug/L	135729		11/26/04 2041	glr
	Acenaphthene, Low Level Water	0.99	U		0.12	0.99	1.00000	ug/L	135729		11/26/04 2041	glr
	Dibenzofuran, Low Level Water	2.0	U		0.13	2.0	1.00000	ug/L	135729		11/26/04 2041	glr
	4-Nitrophenol, Low Level Water	20	U		3.7	20	1.00000	ug/L	135729		11/26/04 2041	glr
	Fluorene, Low Level Water	0.99	U		0.13	0.99	1.00000	ug/L	135729		11/26/04 2041	glr
	4-Nitroaniline, Low Level Water	9.9	U		2.3	9.9	1.00000	ug/L	135729		11/26/04 2041	glr
	4-Bromophenyl phenyl ether, Low Level Water	5.0	U		0.19	5.0	1.00000	ug/L	135729		11/26/04 2041	glr
	Hexachlorobenzene, Low Level Water	0.50	U		0.096	0.50	1.00000	ug/L	135729		11/26/04 2041	glr
	Diethyl phthalate, Low Level Water	2.0	U		0.15	2.0	1.00000	ug/L	135729		11/26/04 2041	glr
	4-Chlorophenyl phenyl ether, Low Level Water	5.0	U		0.74	5.0	1.00000	ug/L	135729		11/26/04 2041	glr
	Pentachlorophenol, Low Level Water	9.9	U		1.7	9.9	1.00000	ug/L	135729		11/26/04 2041	glr
	n-Nitrosodiphenylamine, Low Level Water	0.99	U		0.13	0.99	1.00000	ug/L	135729		11/26/04 2041	glr
	4,6-Dinitro-2-methylphenol, Low Level Water	20	U		2.4	20	1.00000	ug/L	135729		11/26/04 2041	glr
	Phenanthrene, Low Level Water	0.99	U		0.14	0.99	1.00000	ug/L	135729		11/26/04 2041	glr
	Anthracene, Low Level Water	0.99	U		0.15	0.99	1.00000	ug/L	135729		11/26/04 2041	glr
	Carbazole, Low Level Water	5.0	U		0.29	5.0	1.00000	ug/L	135729		11/26/04 2041	glr
	Di-n-butyl phthalate, Low Level Water	5.0	U		0.36	5.0	1.00000	ug/L	135729		11/26/04 2041	glr
	Fluoranthene, Low Level Water	0.99	U		0.14	0.99	1.00000	ug/L	135729		11/26/04 2041	glr
	Pyrene, Low Level Water	0.99	U		0.12	0.99	1.00000	ug/L	135729		11/26/04 2041	glr
	Butyl benzyl phthalate, Low Level Water	2.0	U		0.39	2.0	1.00000	ug/L	135729		11/26/04 2041	glr
	Benzo(a)anthracene, Low Level Water	0.20	U		0.049	0.20	1.00000	ug/L	135729		11/26/04 2041	glr
	Chrysene, Low Level Water	0.50	U		0.045	0.50	1.00000	ug/L	135729		11/26/04 2041	glr

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231793 Date: 12/06/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: CBLsw-003-SW
Date Sampled.....: 11/08/2004
Time Sampled.....: 14:30
Sample Matrix.....: Water

Laboratory Sample ID: 231793-19
Date Received.....: 11/09/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	3,3-Dichlorobenzidine, Low Level Water	5.0	U		0.71	5.0	1.00000	ug/L	135729		11/26/04 2041	glr
	Bis(2-ethylhexyl)phthalate, Low Level Water	15	U		3.9	15	1.00000	ug/L	135729		11/26/04 2041	glr
	Di-n-octyl phthalate, Low Level Water	9.9	U		2.5	9.9	1.00000	ug/L	135729		11/26/04 2041	glr
	Benzo(b)fluoranthene, Low Level Water	0.40	U		0.066	0.40	1.00000	ug/L	135729		11/26/04 2041	glr
	Benzo(k)fluoranthene, Low Level Water	0.40	U		0.071	0.40	1.00000	ug/L	135729		11/26/04 2041	glr
	Benzo(a)pyrene, Low Level Water	0.40	U		0.083	0.40	1.00000	ug/L	135729		11/26/04 2041	glr
	Indeno(1,2,3-cd)pyrene, Low Level Water	0.40	U		0.085	0.40	1.00000	ug/L	135729		11/26/04 2041	glr
	Dibenzo(a,h)anthracene, Low Level Water	0.40	U		0.13	0.40	1.00000	ug/L	135729		11/26/04 2041	glr
	Benzo(ghi)perylene, Low Level Water	0.99	U		0.19	0.99	1.00000	ug/L	135729		11/26/04 2041	glr

* In Description = Dry Wgt.

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Job Number: 231793

LABORATORY TEST RESULTS

Date:11/23/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP T4 ADCS ATTN: Eric Ellis

Customer Sample ID: CBLsw-003-SW
Date Sampled.....: 11/08/2004
Time Sampled.....: 14:30
Sample Matrix.....: Water

Laboratory Sample ID: 231793-19
Date Received.....: 11/09/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8330	Explosives by 8330 (HPLC)											
	HMX	0.33	U		0.073	0.33	1.00000	ug/L	135154		11/13/04 1543	san
	RDX	0.21	U		0.068	0.21	1.00000	ug/L	135154		11/13/04 1543	san
	1,3,5-Trinitrobenzene	0.21	U		0.062	0.21	1.00000	ug/L	135154		11/13/04 1543	san
	1,3-Dinitrobenzene	0.21	U		0.059	0.21	1.00000	ug/L	135154		11/13/04 1543	san
	Nitrobenzene	0.17	U		0.047	0.17	1.00000	ug/L	135154		11/13/04 1543	san
	2,4,6-TNT	0.27	U		0.083	0.27	1.00000	ug/L	135154		11/13/04 1543	san
	Tetryl	0.83	U		0.17	0.83	1.00000	ug/L	135154		11/13/04 1543	san
	2,4-Dinitrotoluene	0.38	U		0.13	0.38	1.00000	ug/L	135154		11/13/04 1543	san
	2,6-Dinitrotoluene	0.46	U		0.15	0.46	1.00000	ug/L	135154		11/13/04 1543	san
	2-Amino-4,6-Dinitrotoluene	0.38	U		0.13	0.38	1.00000	ug/L	135154		11/13/04 1543	san
	4-Amino-2,6-Dinitrotoluene	0.35	U		0.12	0.35	1.00000	ug/L	135154		11/13/04 1543	san
	2-Nitrotoluene	0.33	U		0.099	0.33	1.00000	ug/L	135154		11/13/04 1543	san
	4-Nitrotoluene	0.33	U		0.11	0.33	1.00000	ug/L	135154		11/13/04 1543	san
	3-Nitrotoluene	0.33	U		0.11	0.33	1.00000	ug/L	135154		11/13/04 1543	san
8332M	NG/PETN by 8332M (HPLC)											
	Nitroglycerine	11	U		1.6	11	10.0000	ug/L	135140		11/20/04 1914	san

* In Description = Dry Wgt.

STL CHICAGO

Client Sample ID: CBLsw-003-SW

Trace Level Organic Compounds

Lot-Sample #...:	G4K100349-009	**Work Order #...:**	GWNGQ1AC	**Matrix.....:**	WATER
Date Sampled...:	11/09/04 14:30	**Date Received..:**	11/10/04		
Prep Date.....:	11/12/04	**Analysis Date..:**	11/17/04		
Prep Batch #...:	4317345				
Dilution Factor:	1	**Initial Wgt/Vol:**	10 mL	**Final Wgt/Vol..:**	10 mL

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
Nitroguanidine	ND	20	ug/L	NONE UV/HPLC per

STL CHICAGO

Client Sample ID: CBLsw-003-SW

General Chemistry

Lot-Sample #...: G4K100349-009 Work Order #...: GWNGQ Matrix.....: WATER
Date Sampled...: 11/09/04 14:30 Date Received..: 11/10/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	ND	0.50	mg/L	MCAWW 353.2	11/20-11/23/04	4325114
		Dilution Factor: 1		Initial Wgt/Vol: 100 mL	Final Wgt/Vol..: 40 mL	
		MDL.....: 0.12				

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LABORATORY TEST RESULTS

Job Number: 231912

Date: 12/02/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCs ATTN: Eric Ellis

Customer Sample ID: CBLsw-004-SW
Date Sampled.....: 11/11/2004
Time Sampled.....: 14:15
Sample Matrix.....: Water

Laboratory Sample ID: 231912-27
Date Received.....: 11/12/2004
Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
7196A	Hexavalent Chromium Hexavalent Chromium	0.010	U		0.0016	0.010	1	mg/L	134276		11/12/04 1142	pmf

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231912 Date: 12/01/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: CBLsw-004-SW
Date Sampled.....: 11/11/2004
Time Sampled.....: 14:15
Sample Matrix.....: Water

Laboratory Sample ID: 231912-27
Date Received.....: 11/12/2004
Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	QT	DATE/TIME	TECH
7041	Antimony (GFAA)											
	Antimony	7.5	U		2.5	7.5	1	ug/L	134864		11/18/04 2023	daj
7060A	Arsenic (GFAA)											
	Arsenic	2.0	U		0.51	2.0	1	ug/L	134620		11/17/04 1141	daj
7421	Lead (GFAA)											
	Lead	3.0	U		0.79	3.0	1	ug/L	134494		11/16/04 1218	daj
7841	Thallium (GFAA)											
	Thallium	4.0	U		1.3	4.0	1	ug/L	134623		11/17/04 0820	daj
7470A	Mercury (CVAA)											
	Mercury	0.20	U		0.049	0.20	1	ug/L	134946		11/19/04 1651	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum	200			24	150	1	ug/L	134566		11/16/04 2228	tds
	Barium	36			1.5	10	1	ug/L	134566		11/16/04 2228	tds
	Beryllium	2.0	U		0.17	2.0	1	ug/L	134566		11/16/04 2228	tds
	Cadmium	2.0	U		0.44	2.0	1	ug/L	134566		11/16/04 2228	tds
	Calcium	4900			24	100	1	ug/L	134566		11/16/04 2228	tds
	Chromium	10	U		1.5	10	1	ug/L	134566		11/16/04 2228	tds
	Cobalt	3.4	B		1.0	5.0	1	ug/L	134566		11/16/04 2228	tds
	Copper	10	U		1.6	10	1	ug/L	134566		11/16/04 2228	tds
	Iron	4500			40	120	1	ug/L	134566		11/16/04 2228	tds
	Magnesium	1500			12	100	1	ug/L	134566		11/16/04 2228	tds
	Manganese	690			0.71	10	1	ug/L	134566		11/16/04 2228	tds
	Nickel	3.0	B		1.9	10	1	ug/L	134566		11/16/04 2228	tds
	Potassium	1400			110	500	1	ug/L	134566		11/16/04 2228	tds

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231912

Date:12/01/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCs ATTN: Eric Ellis

Customer Sample ID: CBLsw-004-SW
Date Sampled.....: 11/11/2004
Time Sampled.....: 14:15
Sample Matrix.....: Water

Laboratory Sample ID: 231912-27
Date Received.....: 11/12/2004
Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium	15	U		5.0	15	1	ug/L	134566		11/16/04 2228	tds
	Silver	10	U		3.1	10	1	ug/L	134566		11/16/04 2228	tds
	Sodium	1600			500	1500	1	ug/L	134566		11/16/04 2228	tds
	Vanadium	10	U		2.1	10	1	ug/L	134566		11/16/04 2228	tds
	Zinc	30	U		10	30	1	ug/L	134566		11/16/04 2228	tds

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231912 Date:12/07/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP T4 AOCS ATTN: Eric Ellis

Customer Sample ID: CBLsw-004-SW
Date Sampled.....: 11/11/2004
Time Sampled.....: 14:15
Sample Matrix.....: Water

Laboratory Sample ID: 231912-27
Date Received.....: 11/12/2004
Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8081A	Organochlorine Pesticide Analysis											
	alpha-BHC	0.29	U		0.090	0.29	2.00000	ug/L	136412		11/18/04 0619	kdl
	beta-BHC	0.19	U		0.054	0.19	2.00000	ug/L	136412		11/18/04 0619	kdl
	delta-BHC	0.19	U		0.048	0.19	2.00000	ug/L	136412		11/18/04 0619	kdl
	gamma-BHC (Lindane)	0.29	U		0.081	0.29	2.00000	ug/L	136412		11/18/04 0619	kdl
	Heptachlor	0.29	U		0.079	0.29	2.00000	ug/L	136412		11/18/04 0619	kdl
	Aldrin	0.19	U		0.054	0.19	2.00000	ug/L	136412		11/18/04 0619	kdl
	Heptachlor epoxide	0.29	U		0.069	0.29	2.00000	ug/L	136412		11/18/04 0619	kdl
	Endosulfan I	0.19	U		0.040	0.19	2.00000	ug/L	136412		11/18/04 0619	kdl
	Dieldrin	0.19	U		0.035	0.19	2.00000	ug/L	136412		11/18/04 0619	kdl
	4,4'-DDE	0.19	U		0.044	0.19	2.00000	ug/L	136412		11/18/04 0619	kdl
	Endrin	0.19	U		0.033	0.19	2.00000	ug/L	136412		11/18/04 0619	kdl
	Endosulfan II	0.29	U		0.081	0.29	2.00000	ug/L	136412		11/18/04 0619	kdl
	4,4'-DDD	0.21	U		0.069	0.21	2.00000	ug/L	136412		11/18/04 0619	kdl
	Endosulfan sulfate	0.29	U		0.085	0.29	2.00000	ug/L	136412		11/18/04 0619	kdl
	4,4'-DDT	0.29	U		0.094	0.29	2.00000	ug/L	136412		11/18/04 0619	kdl
	Methoxychlor	1.2	U		0.33	1.2	2.00000	ug/L	136412		11/18/04 0619	kdl
	alpha-Chlordane	0.096	U		0.031	0.096	2.00000	ug/L	136412		11/18/04 0619	kdl
	gamma-Chlordane	0.19	U		0.033	0.19	2.00000	ug/L	136412		11/18/04 0619	kdl
	Endrin aldehyde	0.29	U		0.067	0.29	2.00000	ug/L	136412		11/18/04 0619	kdl
	Endrin ketone	0.19	U		0.056	0.19	2.00000	ug/L	136412		11/18/04 0619	kdl
	Toxaphene	0.96	U		0.27	0.96	2.00000	ug/L	136412		11/18/04 0619	kdl

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231912

Date:12/02/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: CBLsw-004-SW
Date Sampled.....: 11/11/2004
Time Sampled.....: 14:15
Sample Matrix.....: Water

Laboratory Sample ID: 231912-27
Date Received.....: 11/12/2004
Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8082	PCB Analysis											
	Aroclor 1016	0.58	U		0.17	0.58	1.00000	ug/L	135582		11/21/04 0710	bjt
	Aroclor 1221	1.2	U		0.40	1.2	1.00000	ug/L	135582		11/21/04 0710	bjt
	Aroclor 1232	1.2	U		0.34	1.2	1.00000	ug/L	135582		11/21/04 0710	bjt
	Aroclor 1242	1.2	U		0.41	1.2	1.00000	ug/L	135582		11/21/04 0710	bjt
	Aroclor 1248	1.4	U		0.46	1.4	1.00000	ug/L	135582		11/21/04 0710	bjt
	Aroclor 1254	1.2	U		0.34	1.2	1.00000	ug/L	135582		11/21/04 0710	bjt
	Aroclor 1260	0.58	U		0.16	0.58	1.00000	ug/L	135582		11/21/04 0710	bjt

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231912 Date: 11/29/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: CBLsw-004-SW
Date Sampled.....: 11/11/2004
Time Sampled.....: 14:15
Sample Matrix.....: Water

Laboratory Sample ID: 231912-27
Date Received.....: 11/12/2004
Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics											
	Chloromethane	1.0	U		0.080	1.0	1.00000	ug/L	134937		11/18/04 1554	lm
	Vinyl chloride	1.0	U	*	0.080	1.0	1.00000	ug/L	134937		11/18/04 1554	lm
	Bromomethane	1.0	U		0.10	1.0	1.00000	ug/L	134937		11/18/04 1554	lm
	Chloroethane	1.0	U		0.080	1.0	1.00000	ug/L	134937		11/18/04 1554	lm
	1,1-Dichloroethene	1.0	U	*	0.12	1.0	1.00000	ug/L	134937		11/18/04 1554	lm
	Carbon disulfide	5.0	U	*	0.20	5.0	1.00000	ug/L	134937		11/18/04 1554	lm
	Acetone	10	U	*	1.8	10	1.00000	ug/L	134937		11/18/04 1554	lm
	Methylene chloride	6.4			0.35	1.5	1.00000	ug/L	134937		11/18/04 1554	lm
	trans-1,2-Dichloroethene	1.0	U	*	0.14	1.0	1.00000	ug/L	134937		11/18/04 1554	lm
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	134937		11/18/04 1554	lm
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	134937		11/18/04 1554	lm
	2-Butanone (MEK)	10	U		1.2	10	1.00000	ug/L	134937		11/18/04 1554	lm
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	134937		11/18/04 1554	lm
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	134937		11/18/04 1554	lm
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	134937		11/18/04 1554	lm
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	134937		11/18/04 1554	lm
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	134937		11/18/04 1554	lm
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	134937		11/18/04 1554	lm
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	134937		11/18/04 1554	lm
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	134937		11/18/04 1554	lm
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	134937		11/18/04 1554	lm
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	134937		11/18/04 1554	lm
	4-Methyl-2-pentanone (MIBK)	10	U		0.65	10	1.00000	ug/L	134937		11/18/04 1554	lm
	Toluene	14		H	0.10	1.0	1.00000	ug/L	134937		11/18/04 1554	lm
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	134937		11/18/04 1554	lm
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	134937		11/18/04 1554	lm
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	134937		11/18/04 1554	lm
	2-Hexanone	10	U		0.53	10	1.00000	ug/L	134937		11/18/04 1554	lm

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231912 Date:11/29/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: CBLsw-004-SW
Date Sampled.....: 11/11/2004
Time Sampled.....: 14:15
Sample Matrix.....: Water

Laboratory Sample ID: 231912-27
Date Received.....: 11/12/2004
Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	1.0	U		0.060	1.0	1.00000	ug/L	134937		11/18/04 1554	lm
	1,2-Dibromoethane (EDB)	1.0	U		0.13	1.0	1.00000	ug/L	134937		11/18/04 1554	lm
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	134937		11/18/04 1554	lm
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	134937		11/18/04 1554	lm
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	134937		11/18/04 1554	lm
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	134937		11/18/04 1554	lm
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	134937		11/18/04 1554	lm
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	134937		11/18/04 1554	lm
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	134937		11/18/04 1554	lm
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	134937		11/18/04 1554	lm
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	134937		11/18/04 1554	lm

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

Job Number: 231912

LABORATORY TEST RESULTS

Date: 12/07/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: CBLsw-004-SW
Date Sampled.....: 11/11/2004
Time Sampled.....: 14:15
Sample Matrix.....: Water

Laboratory Sample ID: 231912-27
Date Received.....: 11/12/2004
Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8270C	Semivolatile Organics											
	Phenol, Low Level Water	4.3	J		0.34	4.8	1.00000	ug/L	135947		11/29/04 1216	dpk
	Bis(2-chloroethyl)ether, Low Level Water	1.9	U		0.29	1.9	1.00000	ug/L	135947		11/29/04 1216	dpk
	1,3-Dichlorobenzene, Low Level Water	1.9	U		0.41	1.9	1.00000	ug/L	135947		11/29/04 1216	dpk
	1,4-Dichlorobenzene, Low Level Water	1.9	U		0.32	1.9	1.00000	ug/L	135947		11/29/04 1216	dpk
	1,2-Dichlorobenzene, Low Level Water	1.9	U		0.34	1.9	1.00000	ug/L	135947		11/29/04 1216	dpk
	Benzyl alcohol, Low Level Water	8.6	J		2.1	19	1.00000	ug/L	135947		11/29/04 1216	dpk
	2-Methylphenol (o-cresol), Low Level Water	1.9	U		0.25	1.9	1.00000	ug/L	135947		11/29/04 1216	dpk
	2,2-oxybis (1-chloropropane), Low Level Water	1.9	U		0.27	1.9	1.00000	ug/L	135947		11/29/04 1216	dpk
	n-Nitroso-di-n-propylamine, Low Level Water	0.48	U		0.078	0.48	1.00000	ug/L	135947		11/29/04 1216	dpk
	Hexachloroethane, Low Level Water	4.8	U		0.59	4.8	1.00000	ug/L	135947		11/29/04 1216	dpk
	4-Methylphenol (m/p-cresol), Low Level Water	32			0.096	1.9	1.00000	ug/L	135947		11/29/04 1216	dpk
	2-Chlorophenol, Low Level Water	4.8	U		0.12	4.8	1.00000	ug/L	135947		11/29/04 1216	dpk
	Nitrobenzene, Low Level Water	0.96	U		0.15	0.96	1.00000	ug/L	135947		11/29/04 1216	dpk
	Bis(2-chloroethoxy)methane, Low Level Water	1.9	U		0.30	1.9	1.00000	ug/L	135947		11/29/04 1216	dpk
	1,2,4-Trichlorobenzene, Low Level Water	1.9	U		0.33	1.9	1.00000	ug/L	135947		11/29/04 1216	dpk
	Benzoic acid, Low Level Water	19	U		2.9	19	1.00000	ug/L	135947		11/29/04 1216	dpk
	Isophorone, Low Level Water	1.9	U		0.25	1.9	1.00000	ug/L	135947		11/29/04 1216	dpk
	2,4-Dimethylphenol, Low Level Water	9.6	U		1.2	9.6	1.00000	ug/L	135947		11/29/04 1216	dpk
	Hexachlorobutadiene, Low Level Water	4.8	U		0.62	4.8	1.00000	ug/L	135947		11/29/04 1216	dpk
	Naphthalene, Low Level Water	0.96	U		0.15	0.96	1.00000	ug/L	135947		11/29/04 1216	dpk
	2,4-Dichlorophenol, Low Level Water	9.6	U		0.87	9.6	1.00000	ug/L	135947		11/29/04 1216	dpk
	4-Chloroaniline, Low Level Water	9.6	U		2.7	9.6	1.00000	ug/L	135947		11/29/04 1216	dpk
	2,4,6-Trichlorophenol, Low Level Water	4.8	U		0.20	4.8	1.00000	ug/L	135947		11/29/04 1216	dpk
	2,4,5-Trichlorophenol, Low Level Water	9.6	U		1.3	9.6	1.00000	ug/L	135947		11/29/04 1216	dpk
	Hexachlorocyclopentadiene, Low Level Water	19	U	*	0.62	19	1.00000	ug/L	135947		11/29/04 1216	dpk
	2-Methylnaphthalene, Low Level Water	0.48	U		0.12	0.48	1.00000	ug/L	135947		11/29/04 1216	dpk
	2-Nitroaniline, Low Level Water	4.8	U		0.21	4.8	1.00000	ug/L	135947		11/29/04 1216	dpk
	2-Chloronaphthalene, Low Level Water	1.9	U		0.25	1.9	1.00000	ug/L	135947		11/29/04 1216	dpk

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

Job Number: 231912

LABORATORY TEST RESULTS

Date:12/07/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: CBLsw-004-SW
Date Sampled.....: 11/11/2004
Time Sampled.....: 14:15
Sample Matrix.....: Water

Laboratory Sample ID: 231912-27
Date Received.....: 11/12/2004
Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	4-Chloro-3-methylphenol, Low Level Water	9.6	U		2.3	9.6	1.00000	ug/L	135947		11/29/04 1216	dpk
	2,6-Dinitrotoluene, Low Level Water	0.48	U		0.11	0.48	1.00000	ug/L	135947		11/29/04 1216	dpk
	2-Nitrophenol, Low Level Water	9.6	U		0.79	9.6	1.00000	ug/L	135947		11/29/04 1216	dpk
	3-Nitroaniline, Low Level Water	9.6	U		2.0	9.6	1.00000	ug/L	135947		11/29/04 1216	dpk
	Dimethyl phthalate, Low Level Water	1.9	U		0.20	1.9	1.00000	ug/L	135947		11/29/04 1216	dpk
	2,4-Dinitrophenol, Low Level Water	19	U		3.2	19	1.00000	ug/L	135947		11/29/04 1216	dpk
	Acenaphthylene, Low Level Water	0.96	U		0.12	0.96	1.00000	ug/L	135947		11/29/04 1216	dpk
	2,4-Dinitrotoluene, Low Level Water	0.96	U		0.12	0.96	1.00000	ug/L	135947		11/29/04 1216	dpk
	Acenaphthene, Low Level Water	0.96	U		0.12	0.96	1.00000	ug/L	135947		11/29/04 1216	dpk
	Dibenzofuran, Low Level Water	1.9	U		0.12	1.9	1.00000	ug/L	135947		11/29/04 1216	dpk
	4-Nitrophenol, Low Level Water	19	U		3.6	19	1.00000	ug/L	135947		11/29/04 1216	dpk
	Fluorene, Low Level Water	0.96	U		0.12	0.96	1.00000	ug/L	135947		11/29/04 1216	dpk
	4-Nitroaniline, Low Level Water	9.6	U		2.2	9.6	1.00000	ug/L	135947		11/29/04 1216	dpk
	4-Bromophenyl phenyl ether, Low Level Water	4.8	U		0.18	4.8	1.00000	ug/L	135947		11/29/04 1216	dpk
	Hexachlorobenzene, Low Level Water	0.48	U		0.093	0.48	1.00000	ug/L	135947		11/29/04 1216	dpk
	Diethyl phthalate, Low Level Water	1.9	U		0.14	1.9	1.00000	ug/L	135947		11/29/04 1216	dpk
	4-Chlorophenyl phenyl ether, Low Level Water	4.8	U		0.72	4.8	1.00000	ug/L	135947		11/29/04 1216	dpk
	Pentachlorophenol, Low Level Water	9.6	U		1.6	9.6	1.00000	ug/L	135947		11/29/04 1216	dpk
	n-Nitrosodiphenylamine, Low Level Water	0.96	U		0.12	0.96	1.00000	ug/L	135947		11/29/04 1216	dpk
	4,6-Dinitro-2-methylphenol, Low Level Water	19	U		2.3	19	1.00000	ug/L	135947		11/29/04 1216	dpk
	Phenanthrene, Low Level Water	0.96	U		0.13	0.96	1.00000	ug/L	135947		11/29/04 1216	dpk
	Anthracene, Low Level Water	0.96	U		0.14	0.96	1.00000	ug/L	135947		11/29/04 1216	dpk
	Carbazole, Low Level Water	4.8	U		0.28	4.8	1.00000	ug/L	135947		11/29/04 1216	dpk
	Di-n-butyl phthalate, Low Level Water	4.8	U		0.35	4.8	1.00000	ug/L	135947		11/29/04 1216	dpk
	Fluoranthene, Low Level Water	0.96	U		0.13	0.96	1.00000	ug/L	135947		11/29/04 1216	dpk
	Pyrene, Low Level Water	0.96	U		0.12	0.96	1.00000	ug/L	135947		11/29/04 1216	dpk
	Butyl benzyl phthalate, Low Level Water	1.9	U		0.37	1.9	1.00000	ug/L	135947		11/29/04 1216	dpk
	Benzo(a)anthracene, Low Level Water	0.19	U		0.047	0.19	1.00000	ug/L	135947		11/29/04 1216	dpk
	Chrysene, Low Level Water	0.48	U		0.043	0.48	1.00000	ug/L	135947		11/29/04 1216	dpk

* In Description = Dry Wgt.

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Job Number: 231912

LABORATORY TEST RESULTS

Date:12/07/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: CBLsw-004-SW
Date Sampled.....: 11/11/2004
Time Sampled.....: 14:15
Sample Matrix.....: Water

Laboratory Sample ID: 231912-27
Date Received.....: 11/12/2004
Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	3,3-Dichlorobenzidine, Low Level Water	4.8	U		0.69	4.8	1.00000	ug/L	135947		11/29/04 1216	dpk
	Bis(2-ethylhexyl)phthalate, Low Level Water	14	U		3.7	14	1.00000	ug/L	135947		11/29/04 1216	dpk
	Di-n-octyl phthalate, Low Level Water	9.6	U		2.4	9.6	1.00000	ug/L	135947		11/29/04 1216	dpk
	Benzo(b)fluoranthene, Low Level Water	0.38	U		0.064	0.38	1.00000	ug/L	135947		11/29/04 1216	dpk
	Benzo(k)fluoranthene, Low Level Water	0.38	U		0.069	0.38	1.00000	ug/L	135947		11/29/04 1216	dpk
	Benzo(a)pyrene, Low Level Water	0.38	U		0.081	0.38	1.00000	ug/L	135947		11/29/04 1216	dpk
	Indeno(1,2,3-cd)pyrene, Low Level Water	0.38	U		0.083	0.38	1.00000	ug/L	135947		11/29/04 1216	dpk
	Dibenzo(a,h)anthracene, Low Level Water	0.38	U		0.12	0.38	1.00000	ug/L	135947		11/29/04 1216	dpk
	Benzo(ghi)perylene, Low Level Water	0.96	U		0.18	0.96	1.00000	ug/L	135947		11/29/04 1216	dpk

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

Job Number: 231912

LABORATORY TEST RESULTS

Date:11/30/2004

CUSTOMER: NKM Engineers, Inc. PROJECT: USACE RVAAP 14 ACCS ATTN: Eric Ellis

Customer Sample ID: CBLsw-004-SW
Date Sampled.....: 11/11/2004
Time Sampled.....: 14:15
Sample Matrix.....: Water

Laboratory Sample ID: 231912-27
Date Received.....: 11/12/2004
Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8330	Explosives by 8330 (HPLC)											
	HMX	0.31	U		0.068	0.31	1.00000	ug/L	135676		11/20/04 0938	san
	RDX	0.20	U		0.064	0.20	1.00000	ug/L	135676		11/20/04 0938	san
	1,3,5-Trinitrobenzene	0.20	U		0.058	0.20	1.00000	ug/L	135676		11/20/04 0938	san
	1,3-Dinitrobenzene	0.20	U		0.055	0.20	1.00000	ug/L	135676		11/20/04 0938	san
	Nitrobenzene	0.16	U		0.044	0.16	1.00000	ug/L	135676		11/20/04 0938	san
	2,4,6-TNT	0.25	U		0.078	0.25	1.00000	ug/L	135676		11/20/04 0938	san
	Tetryl	0.78	U		0.16	0.78	1.00000	ug/L	135676		11/20/04 0938	san
	2,4-Dinitrotoluene	0.36	U		0.12	0.36	1.00000	ug/L	135676		11/20/04 0938	san
	2,6-Dinitrotoluene	0.43	U		0.14	0.43	1.00000	ug/L	135676		11/20/04 0938	san
	2-Amino-4,6-Dinitrotoluene	0.36	U		0.12	0.36	1.00000	ug/L	135676		11/20/04 0938	san
	4-Amino-2,6-Dinitrotoluene	0.33	U		0.11	0.33	1.00000	ug/L	135676		11/20/04 0938	san
	2-Nitrotoluene	0.31	U		0.093	0.31	1.00000	ug/L	135676		11/20/04 0938	san
	4-Nitrotoluene	0.31	U		0.10	0.31	1.00000	ug/L	135676		11/20/04 0938	san
	3-Nitrotoluene	0.31	U		0.10	0.31	1.00000	ug/L	135676		11/20/04 0938	san
8332M	NG/PETN by 8332M (HPLC)											
	Nitroglycerine	1.0	U	*	0.15	1.0	1.00000	ug/L	135660		11/16/04 1201	san

* In Description = Dry Wgt.

STL CHICAGO

Client Sample ID: CBLsw-004M-SW

Trace Level Organic Compounds

Lot-Sample #...:	G4K120333-005	Work Order #...:	GWW791AC	Matrix.....:	WATER
Date Sampled...:	11/11/04 14:15	Date Received..:	11/12/04		
Prep Date.....:	11/16/04	Analysis Date..:	11/17/04		
Prep Batch #...:	4321498				
Dilution Factor:	1	Initial Wgt/Vol:	10 mL	Final Wgt/Vol..:	10 mL

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
Nitroguanidine	ND	20	ug/L	NONE UV/HPLC per

STL CHICAGO

Client Sample ID: CBLsw-004M-SW

General Chemistry

Lot-Sample #...: G4K120333-005 Work Order #...: GWW79 Matrix.....: WATER
Date Sampled...: 11/11/04 14:15 Date Received..: 11/12/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	ND	0.50	mg/L	MCAWW 353.2	11/20-11/23/04	4325114
		Dilution Factor: 1		Initial Wgt/Vol: 100 mL	Final Wgt/Vol..: 40 mL	
		MDL.....: 0.12				

STL Chicago is part of Severn Trent Laboratories, Inc.

Job Number: 231757

LABORATORY TEST RESULTS

Date:11/19/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: B12sw-025-SW
Date Sampled.....: 11/05/2004
Time Sampled.....: 08:45
Sample Matrix.....: Water

Laboratory Sample ID: 231757-1
Date Received.....: 11/06/2004
Time Received.....: 11:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
7041	Antimony (GFAA)											
	Antimony	7.5	U		2.5	7.5	1	ug/L	134574		11/16/04 1316	daj
7060A	Arsenic (GFAA)											
	Arsenic	1.7	B		0.51	2.0	1	ug/L	134614		11/15/04 1045	daj
7421	Lead (GFAA)											
	Lead	3.0	U		0.79	3.0	1	ug/L	134350		11/13/04 0237	daj
7841	Thallium (GFAA)											
	Thallium	4.0	U		1.3	4.0	1	ug/L	134623		11/16/04 1532	daj
7470A	Mercury (CVAA)											
	Mercury	0.20	U		0.049	0.20	1	ug/L	134293		11/12/04 1421	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum	440			24	150	1	ug/L	134280		11/13/04 1407	tds
	Barium	86			1.5	10	1	ug/L	134280		11/13/04 1407	tds
	Beryllium	2.0	U		0.17	2.0	1	ug/L	134280		11/13/04 1407	tds
	Cadmium	2.0	U		0.44	2.0	1	ug/L	134280		11/13/04 1407	tds
	Calcium	48000			24	100	1	ug/L	134280		11/13/04 1407	tds
	Chromium	1.8	B		1.5	10	1	ug/L	134280		11/13/04 1407	tds
	Cobalt	5.0	U		1.0	5.0	1	ug/L	134280		11/13/04 1407	tds
	Copper	10	U		1.6	10	1	ug/L	134280		11/13/04 1407	tds
	Iron	3100			40	120	1	ug/L	134280		11/13/04 1407	tds
	Magnesium	5700			12	100	1	ug/L	134280		11/13/04 1407	tds
	Manganese	4500			0.71	10	1	ug/L	134280		11/13/04 1407	tds
	Nickel	2.4	B		1.9	10	1	ug/L	134280		11/13/04 1407	tds
	Potassium	6500			110	500	1	ug/L	134280		11/13/04 1407	tds

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

Job Number: 231757

LABORATORY TEST RESULTS

Date:11/19/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: B12sw-025-SW
Date Sampled.....: 11/05/2004
Time Sampled.....: 08:45
Sample Matrix.....: Water

Laboratory Sample ID: 231757-1
Date Received.....: 11/06/2004
Time Received.....: 11:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium	15	U		5.0	15	1	ug/L	134280		11/13/04 1407	tds
	Silver	10	U		3.1	10	1	ug/L	134280		11/13/04 1407	tds
	Sodium	1000	B		500	1500	1	ug/L	134280		11/13/04 1407	tds
	Vanadium	10	U		2.1	10	1	ug/L	134280		11/13/04 1407	tds
	Zinc	30	U		10	30	1	ug/L	134280		11/13/04 1407	tds

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231757 Date: 12/02/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: B12sw-025-SW
Date Sampled.....: 11/05/2004
Time Sampled.....: 08:45
Sample Matrix.....: Water

Laboratory Sample ID: 231757-1
Date Received.....: 11/06/2004
Time Received.....: 11:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8081A	Organochlorine Pesticide Analysis											
	alpha-BHC	0.15	U		0.047	0.15	1.00000	ug/L	135869		11/10/04 0404	kdl
	beta-BHC	0.099	U		0.028	0.099	1.00000	ug/L	135869		11/10/04 0404	kdl
	delta-BHC	0.099	U		0.025	0.099	1.00000	ug/L	135869		11/10/04 0404	kdl
	gamma-BHC (Lindane)	0.15	U		0.042	0.15	1.00000	ug/L	135869		11/10/04 0404	kdl
	Heptachlor	0.15	U		0.041	0.15	1.00000	ug/L	135869		11/10/04 0404	kdl
	Aldrin	0.099	U		0.028	0.099	1.00000	ug/L	135869		11/10/04 0404	kdl
	Heptachlor epoxide	0.15	U		0.036	0.15	1.00000	ug/L	135869		11/10/04 0404	kdl
	Endosulfan I	0.099	U		0.021	0.099	1.00000	ug/L	135869		11/10/04 0404	kdl
	Dieldrin	0.099	U		0.018	0.099	1.00000	ug/L	135869		11/10/04 0404	kdl
	4,4'-DDE	0.099	U		0.023	0.099	1.00000	ug/L	135869		11/10/04 0404	kdl
	Endrin	0.099	U		0.017	0.099	1.00000	ug/L	135869		11/10/04 0404	kdl
	Endosulfan II	0.15	U		0.042	0.15	1.00000	ug/L	135869		11/10/04 0404	kdl
	4,4'-DDD	0.11	U		0.036	0.11	1.00000	ug/L	135869		11/10/04 0404	kdl
	Endosulfan sulfate	0.15	U		0.044	0.15	1.00000	ug/L	135869		11/10/04 0404	kdl
	4,4'-DDT	0.15	U		0.049	0.15	1.00000	ug/L	135869		11/10/04 0404	kdl
	Methoxychlor	0.59	U		0.17	0.59	1.00000	ug/L	135869		11/10/04 0404	kdl
	alpha-Chlordane	0.050	U		0.016	0.050	1.00000	ug/L	135869		11/10/04 0404	kdl
	gamma-Chlordane	0.099	U		0.017	0.099	1.00000	ug/L	135869		11/10/04 0404	kdl
	Endrin aldehyde	0.15	U		0.035	0.15	1.00000	ug/L	135869		11/10/04 0404	kdl
	Endrin ketone	0.099	U		0.029	0.099	1.00000	ug/L	135869		11/10/04 0404	kdl
	Toxaphene	0.50	U		0.14	0.50	1.00000	ug/L	135869		11/10/04 0404	kdl

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231757

Date:12/01/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: B12sw-025-SW
Date Sampled.....: 11/05/2004
Time Sampled.....: 08:45
Sample Matrix.....: Water

Laboratory Sample ID: 231757-1
Date Received.....: 11/06/2004
Time Received.....: 11:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8082	PCB Analysis											
	Aroclor 1016	0.59	U		0.18	0.59	1.00000	ug/L	135625		11/10/04 1157	bjt
	Aroclor 1221	1.3	U		0.42	1.3	1.00000	ug/L	135625		11/10/04 1157	bjt
	Aroclor 1232	1.3	U		0.35	1.3	1.00000	ug/L	135625		11/10/04 1157	bjt
	Aroclor 1242	1.3	U		0.43	1.3	1.00000	ug/L	135625		11/10/04 1157	bjt
	Aroclor 1248	1.5	U		0.48	1.5	1.00000	ug/L	135625		11/10/04 1157	bjt
	Aroclor 1254	1.3	U		0.35	1.3	1.00000	ug/L	135625		11/10/04 1157	bjt
	Aroclor 1260	0.59	U		0.17	0.59	1.00000	ug/L	135625		11/10/04 1157	bjt

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

Job Number: 231757

LABORATORY TEST RESULTS

Date:11/18/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP T4 AOCS ATTN: Eric Ellis

Customer Sample ID: B12sw-025-SW
Date Sampled.....: 11/05/2004
Time Sampled.....: 08:45
Sample Matrix.....: Water

Laboratory Sample ID: 231757-1
Date Received.....: 11/06/2004
Time Received.....: 11:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DF	DATE/TIME	TECH
8260B	Volatile Organics											
	Chloromethane	1.0	U		0.080	1.0	1.00000	ug/L	134097		11/12/04 0251	jdn
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	134097		11/12/04 0251	jdn
	Bromomethane	1.0	U		0.10	1.0	1.00000	ug/L	134097		11/12/04 0251	jdn
	Chloroethane	1.0	U		0.080	1.0	1.00000	ug/L	134097		11/12/04 0251	jdn
	1,1-Dichloroethene	1.0	U		0.12	1.0	1.00000	ug/L	134097		11/12/04 0251	jdn
	Carbon disulfide	5.0	U		0.20	5.0	1.00000	ug/L	134097		11/12/04 0251	jdn
	Acetone	7.2	J		1.8	10	1.00000	ug/L	134097		11/12/04 0251	jdn
	Methylene chloride	1.5	U		0.35	1.5	1.00000	ug/L	134097		11/12/04 0251	jdn
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	134097		11/12/04 0251	jdn
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	134097		11/12/04 0251	jdn
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	134097		11/12/04 0251	jdn
	2-Butanone (MEK)	10	U		1.2	10	1.00000	ug/L	134097		11/12/04 0251	jdn
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	134097		11/12/04 0251	jdn
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	134097		11/12/04 0251	jdn
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	134097		11/12/04 0251	jdn
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	134097		11/12/04 0251	jdn
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	134097		11/12/04 0251	jdn
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	134097		11/12/04 0251	jdn
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	134097		11/12/04 0251	jdn
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	134097		11/12/04 0251	jdn
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	134097		11/12/04 0251	jdn
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	134097		11/12/04 0251	jdn
	4-Methyl-2-pentanone (MIBK)	10	U		0.65	10	1.00000	ug/L	134097		11/12/04 0251	jdn
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	134097		11/12/04 0251	jdn
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	134097		11/12/04 0251	jdn
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	134097		11/12/04 0251	jdn
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	134097		11/12/04 0251	jdn
	2-Hexanone	10	U		0.53	10	1.00000	ug/L	134097		11/12/04 0251	jdn

* In Description = Dry Wgt.

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Job Number: 231757

LABORATORY TEST RESULTS

Date:11/18/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 ADGS ATTN: Eric Ellis

Customer Sample ID: B12sw-025-SW
Date Sampled.....: 11/05/2004
Time Sampled.....: 08:45
Sample Matrix.....: Water

Laboratory Sample ID: 231757-1
Date Received.....: 11/06/2004
Time Received.....: 11:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	1.0	U		0.060	1.0	1.00000	ug/L	134097		11/12/04 0251	jdn
	1,2-Dibromoethane (EDB)	1.0	U		0.13	1.0	1.00000	ug/L	134097		11/12/04 0251	jdn
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	134097		11/12/04 0251	jdn
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	134097		11/12/04 0251	jdn
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	134097		11/12/04 0251	jdn
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	134097		11/12/04 0251	jdn
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	134097		11/12/04 0251	jdn
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	134097		11/12/04 0251	jdn
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	134097		11/12/04 0251	jdn
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	134097		11/12/04 0251	jdn
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	134097		11/12/04 0251	jdn

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

Job Number: 231757

LABORATORY TEST RESULTS

Date:11/30/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCs ATTN: Eric Ellis

Customer Sample ID: B12sw-025-SW
Date Sampled.....: 11/05/2004
Time Sampled.....: 08:45
Sample Matrix.....: Water

Laboratory Sample ID: 231757-1
Date Received.....: 11/06/2004
Time Received.....: 11:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8270C	Semivolatile Organics											
	Phenol, Low Level Water	7.7			0.35	5.0	1.00000	ug/L	135729		11/26/04 1733	glr
	Bis(2-chloroethyl)ether, Low Level Water	2.0	U		0.30	2.0	1.00000	ug/L	135729		11/26/04 1733	glr
	1,3-Dichlorobenzene, Low Level Water	2.0	U		0.43	2.0	1.00000	ug/L	135729		11/26/04 1733	glr
	1,4-Dichlorobenzene, Low Level Water	2.0	U		0.33	2.0	1.00000	ug/L	135729		11/26/04 1733	glr
	1,2-Dichlorobenzene, Low Level Water	2.0	U		0.35	2.0	1.00000	ug/L	135729		11/26/04 1733	glr
	Benzyl alcohol, Low Level Water	8.5	J	a	2.2	20	1.00000	ug/L	135729		11/26/04 1733	glr
	2-Methylphenol (o-cresol), Low Level Water	1.8	J	a	0.26	2.0	1.00000	ug/L	135729		11/26/04 1733	glr
	2,2-oxybis (1-chloropropane), Low Level Water	2.0	U	*	0.28	2.0	1.00000	ug/L	135729		11/26/04 1733	glr
	n-Nitroso-di-n-propylamine, Low Level Water	0.50	U		0.081	0.50	1.00000	ug/L	135729		11/26/04 1733	glr
	Hexachloroethane, Low Level Water	5.0	U		0.61	5.0	1.00000	ug/L	135729		11/26/04 1733	glr
	4-Methylphenol (m/p-cresol), Low Level Water	6.5			0.10	2.0	1.00000	ug/L	135729		11/26/04 1733	glr
	2-Chlorophenol, Low Level Water	5.0	U		0.12	5.0	1.00000	ug/L	135729		11/26/04 1733	glr
	Nitrobenzene, Low Level Water	1.0	U		0.16	1.0	1.00000	ug/L	135729		11/26/04 1733	glr
	Bis(2-chloroethoxy)methane, Low Level Water	2.0	U		0.31	2.0	1.00000	ug/L	135729		11/26/04 1733	glr
	1,2,4-Trichlorobenzene, Low Level Water	2.0	U		0.34	2.0	1.00000	ug/L	135729		11/26/04 1733	glr
	Benzoic acid, Low Level Water	79		H	3.0	20	1.00000	ug/L	135729		11/26/04 1733	glr
	Isophorone, Low Level Water	2.0	U		0.26	2.0	1.00000	ug/L	135729		11/26/04 1733	glr
	2,4-Dimethylphenol, Low Level Water	10	U		1.3	10	1.00000	ug/L	135729		11/26/04 1733	glr
	Hexachlorobutadiene, Low Level Water	5.0	U		0.64	5.0	1.00000	ug/L	135729		11/26/04 1733	glr
	Naphthalene, Low Level Water	1.0	U		0.16	1.0	1.00000	ug/L	135729		11/26/04 1733	glr
	2,4-Dichlorophenol, Low Level Water	10	U		0.91	10	1.00000	ug/L	135729		11/26/04 1733	glr
	4-Chloroaniline, Low Level Water	10	U		2.8	10	1.00000	ug/L	135729		11/26/04 1733	glr
	2,4,6-Trichlorophenol, Low Level Water	5.0	U		0.21	5.0	1.00000	ug/L	135729		11/26/04 1733	glr
	2,4,5-Trichlorophenol, Low Level Water	10	U		1.4	10	1.00000	ug/L	135729		11/26/04 1733	glr
	Hexachlorocyclopentadiene, Low Level Water	20	U	*	0.65	20	1.00000	ug/L	135729		11/26/04 1733	glr
	2-Methylnaphthalene, Low Level Water	0.50	U		0.13	0.50	1.00000	ug/L	135729		11/26/04 1733	glr
	2-Nitroaniline, Low Level Water	5.0	U		0.22	5.0	1.00000	ug/L	135729		11/26/04 1733	glr
	2-Chloronaphthalene, Low Level Water	2.0	U		0.26	2.0	1.00000	ug/L	135729		11/26/04 1733	glr

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

Job Number: 231757

LABORATORY TEST RESULTS

Date:11/30/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: B12sw-025-SW
Date Sampled.....: 11/05/2004
Time Sampled.....: 08:45
Sample Matrix.....: Water

Laboratory Sample ID: 231757-1
Date Received.....: 11/06/2004
Time Received.....: 11:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	4-Chloro-3-methylphenol, Low Level Water	10	U		2.4	10	1.00000	ug/L	135729		11/26/04 1733	glr
	2,6-Dinitrotoluene, Low Level Water	0.50	U		0.11	0.50	1.00000	ug/L	135729		11/26/04 1733	glr
	2-Nitrophenol, Low Level Water	10	U		0.82	10	1.00000	ug/L	135729		11/26/04 1733	glr
	3-Nitroaniline, Low Level Water	10	U		2.1	10	1.00000	ug/L	135729		11/26/04 1733	glr
	Dimethyl phthalate, Low Level Water	2.0	U		0.21	2.0	1.00000	ug/L	135729		11/26/04 1733	glr
	2,4-Dinitrophenol, Low Level Water	20	U		3.3	20	1.00000	ug/L	135729		11/26/04 1733	glr
	Acenaphthylene, Low Level Water	1.0	U		0.12	1.0	1.00000	ug/L	135729		11/26/04 1733	glr
	2,4-Dinitrotoluene, Low Level Water	1.0	U		0.13	1.0	1.00000	ug/L	135729		11/26/04 1733	glr
	Acenaphthene, Low Level Water	1.0	U		0.12	1.0	1.00000	ug/L	135729		11/26/04 1733	glr
	Dibenzofuran, Low Level Water	2.0	U		0.13	2.0	1.00000	ug/L	135729		11/26/04 1733	glr
	4-Nitrophenol, Low Level Water	20	U		3.7	20	1.00000	ug/L	135729		11/26/04 1733	glr
	Fluorene, Low Level Water	1.0	U		0.13	1.0	1.00000	ug/L	135729		11/26/04 1733	glr
	4-Nitroaniline, Low Level Water	10	U		2.3	10	1.00000	ug/L	135729		11/26/04 1733	glr
	4-Bromophenyl phenyl ether, Low Level Water	5.0	U		0.19	5.0	1.00000	ug/L	135729		11/26/04 1733	glr
	Hexachlorobenzene, Low Level Water	0.50	U		0.097	0.50	1.00000	ug/L	135729		11/26/04 1733	glr
	Diethyl phthalate, Low Level Water	2.0	U		0.15	2.0	1.00000	ug/L	135729		11/26/04 1733	glr
	4-Chlorophenyl phenyl ether, Low Level Water	5.0	U		0.75	5.0	1.00000	ug/L	135729		11/26/04 1733	glr
	Pentachlorophenol, Low Level Water	10	U		1.7	10	1.00000	ug/L	135729		11/26/04 1733	glr
	n-Nitrosodiphenylamine, Low Level Water	1.0	U		0.13	1.0	1.00000	ug/L	135729		11/26/04 1733	glr
	4,6-Dinitro-2-methylphenol, Low Level Water	20	U		2.4	20	1.00000	ug/L	135729		11/26/04 1733	glr
	Phenanthrene, Low Level Water	1.0	U		0.14	1.0	1.00000	ug/L	135729		11/26/04 1733	glr
	Anthracene, Low Level Water	1.0	U		0.15	1.0	1.00000	ug/L	135729		11/26/04 1733	glr
	Carbazole, Low Level Water	5.0	U		0.29	5.0	1.00000	ug/L	135729		11/26/04 1733	glr
	Di-n-butyl phthalate, Low Level Water	5.0	U		0.36	5.0	1.00000	ug/L	135729		11/26/04 1733	glr
	Fluoranthene, Low Level Water	1.0	U		0.14	1.0	1.00000	ug/L	135729		11/26/04 1733	glr
	Pyrene, Low Level Water	1.0	U		0.12	1.0	1.00000	ug/L	135729		11/26/04 1733	glr
	Butyl benzyl phthalate, Low Level Water	2.0	U		0.39	2.0	1.00000	ug/L	135729		11/26/04 1733	glr
	Benzo(a)anthracene, Low Level Water	0.20	U		0.049	0.20	1.00000	ug/L	135729		11/26/04 1733	glr
	Chrysene, Low Level Water	0.50	U		0.045	0.50	1.00000	ug/L	135729		11/26/04 1733	glr

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

Job Number: 231757

LABORATORY TEST RESULTS

Date:11/30/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: B12sw-025-SW
Date Sampled.....: 11/05/2004
Time Sampled.....: 08:45
Sample Matrix.....: Water

Laboratory Sample ID: 231757-1
Date Received.....: 11/06/2004
Time Received.....: 11:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	3,3-Dichlorobenzidine, Low Level Water	5.0	U		0.72	5.0	1.00000	ug/L	135729		11/26/04 1733	glr
	Bis(2-ethylhexyl)phthalate, Low Level Water	15	U		3.9	15	1.00000	ug/L	135729		11/26/04 1733	glr
	Di-n-octyl phthalate, Low Level Water	10	U		2.5	10	1.00000	ug/L	135729		11/26/04 1733	glr
	Benzo(b)fluoranthene, Low Level Water	0.40	U		0.067	0.40	1.00000	ug/L	135729		11/26/04 1733	glr
	Benzo(k)fluoranthene, Low Level Water	0.40	U		0.072	0.40	1.00000	ug/L	135729		11/26/04 1733	glr
	Benzo(a)pyrene, Low Level Water	0.40	U		0.084	0.40	1.00000	ug/L	135729		11/26/04 1733	glr
	Indeno(1,2,3-cd)pyrene, Low Level Water	0.40	U		0.086	0.40	1.00000	ug/L	135729		11/26/04 1733	glr
	Dibenzo(a,h)anthracene, Low Level Water	0.40	U		0.13	0.40	1.00000	ug/L	135729		11/26/04 1733	glr
	Benzo(ghi)perylene, Low Level Water	1.0	U		0.19	1.0	1.00000	ug/L	135729		11/26/04 1733	glr

* In Description = Dry Wgt.

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Job Number: 231757

LABORATORY TEST RESULTS

Date:11/19/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: B12sw-025-SW
Date Sampled.....: 11/05/2004
Time Sampled.....: 08:45
Sample Matrix.....: Water

Laboratory Sample ID: 231757-1
Date Received.....: 11/06/2004
Time Received.....: 11:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8330	Explosives by 8330 (HPLC)											
	HMX	29			1.5	7.0	10.0000	ug/L	134865	D1	11/14/04 2300	san
	RDX	42			1.4	4.5	10.0000	ug/L	134865	D1	11/14/04 2300	san
	1,3,5-Trinitrobenzene	0.45	U		0.13	0.45	1.00000	ug/L	134865		11/13/04 1842	san
	1,3-Dinitrobenzene	0.45	U		0.12	0.45	1.00000	ug/L	134865		11/13/04 1842	san
	Nitrobenzene	0.36	U		0.099	0.36	1.00000	ug/L	134865		11/13/04 1842	san
	2,4,6-TNT	0.56	U		0.18	0.56	1.00000	ug/L	134865		11/13/04 1842	san
	Tetryl	1.8	U		0.37	1.8	1.00000	ug/L	134865		11/13/04 1842	san
	2,4-Dinitrotoluene	0.81	U		0.27	0.81	1.00000	ug/L	134865		11/13/04 1842	san
	2,6-Dinitrotoluene	0.97	U		0.32	0.97	1.00000	ug/L	134865		11/13/04 1842	san
	2-Amino-4,6-Dinitrotoluene	0.81	U		0.27	0.81	1.00000	ug/L	134865		11/13/04 1842	san
	4-Amino-2,6-Dinitrotoluene	0.74	U		0.25	0.74	1.00000	ug/L	134865		11/13/04 1842	san
	2-Nitrotoluene	0.70	U		0.21	0.70	1.00000	ug/L	134865		11/13/04 1842	san
	4-Nitrotoluene	0.70	U		0.22	0.70	1.00000	ug/L	134865		11/13/04 1842	san
	3-Nitrotoluene	0.49	J	a	0.23	0.70	1.00000	ug/L	134865		11/13/04 1842	san
8332M	NG/PETN by 8332M (HPLC)											
	Nitroglycerine	5.9			0.34	2.2	1.00000	ug/L	134869		11/10/04 0210	san

* In Description = Dry Wgt.

STL CHICAGO

Client Sample ID: B12sw-025-SW

Trace Level Organic Compounds

Lot-Sample #...:	G4K060194-001	Work Order #...:	GWE971AC	Matrix.....:	WATER
Date Sampled...:	11/05/04 08:45	Date Received..:	11/06/04		
Prep Date.....:	11/08/04	Analysis Date..:	11/11/04		
Prep Batch #...:	4313492				
Dilution Factor:	1	Initial Wgt/Vol:	10 mL	Final Wgt/Vol..:	10 mL

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
Nitroguanidine	ND	20	ug/L	NONE UV/HPLC per

STL CHICAGO

Client Sample ID: B12sw-025-SW

General Chemistry

Lot-Sample #...: G4K060194-001 **Work Order #...:** GWE97 **Matrix.....:** WATER
Date Sampled...: 11/05/04 **Date Received..:** 11/06/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	ND	0.50	mg/L	MCAWW 353.2	11/11-11/13/04	4316571
		MDL.....: 0.12				

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Job Number: 231757

LABORATORY TEST RESULTS

Date:11/19/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: B12sw-025-DUP
Date Sampled.....: 11/05/2004
Time Sampled.....: 08:45
Sample Matrix.....: Water

Laboratory Sample ID: 231757-2
Date Received.....: 11/06/2004
Time Received.....: 11:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
7041	Antimony (GFAA)											
	Antimony	7.5	U		2.5	7.5	1	ug/L	134574		11/16/04 1358	daj
7060A	Arsenic (GFAA)											
	Arsenic	3.0			0.51	2.0	1	ug/L	134614		11/15/04 1143	daj
7421	Lead (GFAA)											
	Lead	1.2	B		0.79	3.0	1	ug/L	134350		11/13/04 0312	daj
7841	Thallium (GFAA)											
	Thallium	1.5	B		1.3	4.0	1	ug/L	134456		11/16/04 0154	daj
7470A	Mercury (CVAA)											
	Mercury	0.20	U		0.049	0.20	1	ug/L	134293		11/12/04 1430	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum	1600			24	150	1	ug/L	134280		11/13/04 1440	tds
	Barium	91			1.5	10	1	ug/L	134280		11/13/04 1440	tds
	Beryllium	2.0	U		0.17	2.0	1	ug/L	134280		11/13/04 1440	tds
	Cadmium	2.0	U		0.44	2.0	1	ug/L	134280		11/13/04 1440	tds
	Calcium	49000			24	100	1	ug/L	134280		11/13/04 1440	tds
	Chromium	2.8	B		1.5	10	1	ug/L	134280		11/13/04 1440	tds
	Cobalt	5.0	U		1.0	5.0	1	ug/L	134280		11/13/04 1440	tds
	Copper	10	U		1.6	10	1	ug/L	134280		11/13/04 1440	tds
	Iron	3900			40	120	1	ug/L	134280		11/13/04 1440	tds
	Magnesium	5900			12	100	1	ug/L	134280		11/13/04 1440	tds
	Manganese	4500			0.71	10	1	ug/L	134280		11/13/04 1440	tds
	Nickel	2.9	B		1.9	10	1	ug/L	134280		11/13/04 1440	tds
	Potassium	6700			110	500	1	ug/L	134280		11/13/04 1440	tds

* In Description = Dry Wgt.

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Job Number: 231757

LABORATORY TEST RESULTS

Date: 11/19/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: B12sw-025-DUP
Date Sampled.....: 11/05/2004
Time Sampled.....: 08:45
Sample Matrix.....: Water

Laboratory Sample ID: 231757-2
Date Received.....: 11/06/2004
Time Received.....: 11:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium	15	U		5.0	15	1	ug/L	134280		11/13/04 1440	tds
	Silver	10	U		3.1	10	1	ug/L	134280		11/13/04 1440	tds
	Sodium	1200	B		500	1500	1	ug/L	134280		11/13/04 1440	tds
	Vanadium	2.8	B		2.1	10	1	ug/L	134280		11/13/04 1440	tds
	Zinc	12	B		10	30	1	ug/L	134280		11/13/04 1440	tds

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231757 Date: 12/02/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: B12sw-025-DUP
Date Sampled.....: 11/05/2004
Time Sampled.....: 08:45
Sample Matrix.....: Water

Laboratory Sample ID: 231757-2
Date Received.....: 11/06/2004
Time Received.....: 11:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8081A	Organochlorine Pesticide Analysis											
	alpha-BHC	0.15	U		0.046	0.15	1.00000	ug/L	135869		11/10/04 0519	kdl
	beta-BHC	0.098	U		0.027	0.098	1.00000	ug/L	135869		11/10/04 0519	kdl
	delta-BHC	0.098	U		0.025	0.098	1.00000	ug/L	135869		11/10/04 0519	kdl
	gamma-BHC (Lindane)	0.15	U		0.041	0.15	1.00000	ug/L	135869		11/10/04 0519	kdl
	Heptachlor	0.15	U		0.040	0.15	1.00000	ug/L	135869		11/10/04 0519	kdl
	Aldrin	0.098	U		0.027	0.098	1.00000	ug/L	135869		11/10/04 0519	kdl
	Heptachlor epoxide	0.15	U		0.035	0.15	1.00000	ug/L	135869		11/10/04 0519	kdl
	Endosulfan I	0.098	U		0.021	0.098	1.00000	ug/L	135869		11/10/04 0519	kdl
	Dieldrin	0.098	U		0.018	0.098	1.00000	ug/L	135869		11/10/04 0519	kdl
	4,4'-DDE	0.098	U		0.023	0.098	1.00000	ug/L	135869		11/10/04 0519	kdl
	Endrin	0.098	U		0.017	0.098	1.00000	ug/L	135869		11/10/04 0519	kdl
	Endosulfan II	0.15	U		0.041	0.15	1.00000	ug/L	135869		11/10/04 0519	kdl
	4,4'-DDD	0.11	U		0.035	0.11	1.00000	ug/L	135869		11/10/04 0519	kdl
	Endosulfan sulfate	0.15	U		0.043	0.15	1.00000	ug/L	135869		11/10/04 0519	kdl
	4,4'-DDT	0.15	U		0.048	0.15	1.00000	ug/L	135869		11/10/04 0519	kdl
	Methoxychlor	0.59	U		0.17	0.59	1.00000	ug/L	135869		11/10/04 0519	kdl
	alpha-Chlordane	0.049	U		0.016	0.049	1.00000	ug/L	135869		11/10/04 0519	kdl
	gamma-Chlordane	0.098	U		0.017	0.098	1.00000	ug/L	135869		11/10/04 0519	kdl
	Endrin aldehyde	0.15	U		0.034	0.15	1.00000	ug/L	135869		11/10/04 0519	kdl
	Endrin ketone	0.098	U		0.028	0.098	1.00000	ug/L	135869		11/10/04 0519	kdl
	Toxaphene	0.49	U		0.14	0.49	1.00000	ug/L	135869		11/10/04 0519	kdl

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231757 Date:12/01/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: 812sw-025-DUP
Date Sampled.....: 11/05/2004
Time Sampled.....: 08:45
Sample Matrix.....: Water

Laboratory Sample ID: 231757-2
Date Received.....: 11/06/2004
Time Received.....: 11:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8082	PCB Analysis											
	Aroclor 1016	0.59	U		0.18	0.59	1.00000	ug/L	135625		11/10/04 1343	bjt
	Aroclor 1221	1.3	U		0.41	1.3	1.00000	ug/L	135625		11/10/04 1343	bjt
	Aroclor 1232	1.3	U		0.34	1.3	1.00000	ug/L	135625		11/10/04 1343	bjt
	Aroclor 1242	1.3	U		0.42	1.3	1.00000	ug/L	135625		11/10/04 1343	bjt
	Aroclor 1248	1.5	U		0.47	1.5	1.00000	ug/L	135625		11/10/04 1343	bjt
	Aroclor 1254	1.3	U		0.34	1.3	1.00000	ug/L	135625		11/10/04 1343	bjt
	Aroclor 1260	0.59	U		0.17	0.59	1.00000	ug/L	135625		11/10/04 1343	bjt

* In Description = Dry Wgt.

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Job Number: 231757

LABORATORY TEST RESULTS

Date:11/18/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: B12sw-025-DUP
Date Sampled.....: 11/05/2004
Time Sampled.....: 08:45
Sample Matrix.....: Water

Laboratory Sample ID: 231757-2
Date Received.....: 11/06/2004
Time Received.....: 11:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics											
	Chloromethane	1.0	U		0.080	1.0	1.00000	ug/L	134097		11/12/04 0400	jdn
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	134097		11/12/04 0400	jdn
	Bromomethane	1.0	U		0.10	1.0	1.00000	ug/L	134097		11/12/04 0400	jdn
	Chloroethane	1.0	U		0.080	1.0	1.00000	ug/L	134097		11/12/04 0400	jdn
	1,1-Dichloroethene	1.0	U		0.12	1.0	1.00000	ug/L	134097		11/12/04 0400	jdn
	Carbon disulfide	5.0	U		0.20	5.0	1.00000	ug/L	134097		11/12/04 0400	jdn
	Acetone	6.6	J		1.8	10	1.00000	ug/L	134097		11/12/04 0400	jdn
	Methylene chloride	1.5	U		0.35	1.5	1.00000	ug/L	134097		11/12/04 0400	jdn
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	134097		11/12/04 0400	jdn
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	134097		11/12/04 0400	jdn
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	134097		11/12/04 0400	jdn
	2-Butanone (MEK)	10	U		1.2	10	1.00000	ug/L	134097		11/12/04 0400	jdn
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	134097		11/12/04 0400	jdn
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	134097		11/12/04 0400	jdn
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	134097		11/12/04 0400	jdn
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	134097		11/12/04 0400	jdn
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	134097		11/12/04 0400	jdn
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	134097		11/12/04 0400	jdn
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	134097		11/12/04 0400	jdn
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	134097		11/12/04 0400	jdn
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	134097		11/12/04 0400	jdn
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	134097		11/12/04 0400	jdn
	4-Methyl-2-pentanone (MIBK)	10	U		0.65	10	1.00000	ug/L	134097		11/12/04 0400	jdn
	Toluene	1.3			0.10	1.0	1.00000	ug/L	134097		11/12/04 0400	jdn
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	134097		11/12/04 0400	jdn
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	134097		11/12/04 0400	jdn
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	134097		11/12/04 0400	jdn
	2-Hexanone	10	U		0.53	10	1.00000	ug/L	134097		11/12/04 0400	jdn

* In Description = Dry Wgt.

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Job Number: 231757

LABORATORY TEST RESULTS

Date:11/18/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: B12sw-025-DUP
Date Sampled.....: 11/05/2004
Time Sampled.....: 08:45
Sample Matrix.....: Water

Laboratory Sample ID: 231757-2
Date Received.....: 11/06/2004
Time Received.....: 11:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	1.0	U		0.060	1.0	1.00000	ug/L	134097		11/12/04 0400	jdh
	1,2-Dibromoethane (EDB)	1.0	U		0.13	1.0	1.00000	ug/L	134097		11/12/04 0400	jdh
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	134097		11/12/04 0400	jdh
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	134097		11/12/04 0400	jdh
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	134097		11/12/04 0400	jdh
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	134097		11/12/04 0400	jdh
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	134097		11/12/04 0400	jdh
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	134097		11/12/04 0400	jdh
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	134097		11/12/04 0400	jdh
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	134097		11/12/04 0400	jdh
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	134097		11/12/04 0400	jdh

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

Job Number: 231757

LABORATORY TEST RESULTS

Date:11/30/2004

CUSTOMER: HKN Engineers, Inc. PROJECT: USACE RVAAP T4 AOCS ATTN: Eric Ellis

Customer Sample ID: B12sw-025-DUP
Date Sampled.....: 11/05/2004
Time Sampled.....: 08:45
Sample Matrix.....: Water

Laboratory Sample ID: 231757-2
Date Received.....: 11/06/2004
Time Received.....: 11:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8270C	Semivolatile Organics											
	Phenol, Low Level Water	10			0.35	5.0	1.00000	ug/L	135729		11/26/04 1759	glr
	Bis(2-chloroethyl)ether, Low Level Water	2.0	U		0.30	2.0	1.00000	ug/L	135729		11/26/04 1759	glr
	1,3-Dichlorobenzene, Low Level Water	2.0	U		0.43	2.0	1.00000	ug/L	135729		11/26/04 1759	glr
	1,4-Dichlorobenzene, Low Level Water	2.0	U		0.33	2.0	1.00000	ug/L	135729		11/26/04 1759	glr
	1,2-Dichlorobenzene, Low Level Water	2.0	U		0.35	2.0	1.00000	ug/L	135729		11/26/04 1759	glr
	Benzyl alcohol, Low Level Water	7.8	J	a	2.2	20	1.00000	ug/L	135729		11/26/04 1759	glr
	2-Methylphenol (o-cresol), Low Level Water	2.2			0.26	2.0	1.00000	ug/L	135729		11/26/04 1759	glr
	2,2-oxybis (1-chloropropane), Low Level Water	2.0	U	*	0.28	2.0	1.00000	ug/L	135729		11/26/04 1759	glr
	n-Nitroso-di-n-propylamine, Low Level Water	0.50	U		0.080	0.50	1.00000	ug/L	135729		11/26/04 1759	glr
	Hexachloroethane, Low Level Water	5.0	U		0.60	5.0	1.00000	ug/L	135729		11/26/04 1759	glr
	4-Methylphenol (m/p-cresol), Low Level Water	11			0.099	2.0	1.00000	ug/L	135729		11/26/04 1759	glr
	2-Chlorophenol, Low Level Water	5.0	U		0.12	5.0	1.00000	ug/L	135729		11/26/04 1759	glr
	Nitrobenzene, Low Level Water	0.99	U		0.16	0.99	1.00000	ug/L	135729		11/26/04 1759	glr
	Bis(2-chloroethoxy)methane, Low Level Water	2.0	U		0.31	2.0	1.00000	ug/L	135729		11/26/04 1759	glr
	1,2,4-Trichlorobenzene, Low Level Water	2.0	U		0.34	2.0	1.00000	ug/L	135729		11/26/04 1759	glr
	Benzoic acid, Low Level Water	93		H	3.0	20	1.00000	ug/L	135729		11/26/04 1759	glr
	Isophorone, Low Level Water	2.0	U		0.26	2.0	1.00000	ug/L	135729		11/26/04 1759	glr
	2,4-Dimethylphenol, Low Level Water	9.9	U		1.3	9.9	1.00000	ug/L	135729		11/26/04 1759	glr
	Hexachlorobutadiene, Low Level Water	5.0	U		0.63	5.0	1.00000	ug/L	135729		11/26/04 1759	glr
	Naphthalene, Low Level Water	0.99	U		0.16	0.99	1.00000	ug/L	135729		11/26/04 1759	glr
	2,4-Dichlorophenol, Low Level Water	9.9	U		0.90	9.9	1.00000	ug/L	135729		11/26/04 1759	glr
	4-Chloroaniline, Low Level Water	9.9	U		2.8	9.9	1.00000	ug/L	135729		11/26/04 1759	glr
	2,4,6-Trichlorophenol, Low Level Water	5.0	U		0.21	5.0	1.00000	ug/L	135729		11/26/04 1759	glr
	2,4,5-Trichlorophenol, Low Level Water	9.9	U		1.4	9.9	1.00000	ug/L	135729		11/26/04 1759	glr
	Hexachlorocyclopentadiene, Low Level Water	20	U	*	0.64	20	1.00000	ug/L	135729		11/26/04 1759	glr
	2-Methylnaphthalene, Low Level Water	0.50	U		0.13	0.50	1.00000	ug/L	135729		11/26/04 1759	glr
	2-Nitroaniline, Low Level Water	5.0	U		0.22	5.0	1.00000	ug/L	135729		11/26/04 1759	glr
	2-Chloronaphthalene, Low Level Water	2.0	U		0.26	2.0	1.00000	ug/L	135729		11/26/04 1759	glr

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231757

Date: 11/30/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: B12sw-025-DUP
Date Sampled.....: 11/05/2004
Time Sampled.....: 08:45
Sample Matrix.....: Water

Laboratory Sample ID: 231757-2
Date Received.....: 11/06/2004
Time Received.....: 11:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	4-Chloro-3-methylphenol, Low Level Water	9.9	U		2.4	9.9	1.00000	ug/L	135729		11/26/04 1759	glr
	2,6-Dinitrotoluene, Low Level Water	0.50	U		0.11	0.50	1.00000	ug/L	135729		11/26/04 1759	glr
	2-Nitrophenol, Low Level Water	9.9	U		0.81	9.9	1.00000	ug/L	135729		11/26/04 1759	glr
	3-Nitroaniline, Low Level Water	9.9	U		2.1	9.9	1.00000	ug/L	135729		11/26/04 1759	glr
	Dimethyl phthalate, Low Level Water	2.0	U		0.21	2.0	1.00000	ug/L	135729		11/26/04 1759	glr
	2,4-Dinitrophenol, Low Level Water	20	U		3.3	20	1.00000	ug/L	135729		11/26/04 1759	glr
	Acenaphthylene, Low Level Water	0.99	U		0.12	0.99	1.00000	ug/L	135729		11/26/04 1759	glr
	2,4-Dinitrotoluene, Low Level Water	0.99	U		0.13	0.99	1.00000	ug/L	135729		11/26/04 1759	glr
	Acenaphthene, Low Level Water	0.99	U		0.12	0.99	1.00000	ug/L	135729		11/26/04 1759	glr
	Dibenzofuran, Low Level Water	2.0	U		0.13	2.0	1.00000	ug/L	135729		11/26/04 1759	glr
	4-Nitrophenol, Low Level Water	20	U		3.7	20	1.00000	ug/L	135729		11/26/04 1759	glr
	Fluorene, Low Level Water	0.99	U		0.13	0.99	1.00000	ug/L	135729		11/26/04 1759	glr
	4-Nitroaniline, Low Level Water	9.9	U		2.3	9.9	1.00000	ug/L	135729		11/26/04 1759	glr
	4-Bromophenyl phenyl ether, Low Level Water	5.0	U		0.19	5.0	1.00000	ug/L	135729		11/26/04 1759	glr
	Hexachlorobenzene, Low Level Water	0.50	U		0.096	0.50	1.00000	ug/L	135729		11/26/04 1759	glr
	Diethyl phthalate, Low Level Water	2.0	U		0.15	2.0	1.00000	ug/L	135729		11/26/04 1759	glr
	4-Chlorophenyl phenyl ether, Low Level Water	5.0	U		0.74	5.0	1.00000	ug/L	135729		11/26/04 1759	glr
	Pentachlorophenol, Low Level Water	9.9	U		1.7	9.9	1.00000	ug/L	135729		11/26/04 1759	glr
	n-Nitrosodiphenylamine, Low Level Water	0.99	U		0.13	0.99	1.00000	ug/L	135729		11/26/04 1759	glr
	4,6-Dinitro-2-methylphenol, Low Level Water	20	U		2.4	20	1.00000	ug/L	135729		11/26/04 1759	glr
	Phenanthrene, Low Level Water	0.99	U		0.14	0.99	1.00000	ug/L	135729		11/26/04 1759	glr
	Anthracene, Low Level Water	0.99	U		0.15	0.99	1.00000	ug/L	135729		11/26/04 1759	glr
	Carbazole, Low Level Water	5.0	U		0.29	5.0	1.00000	ug/L	135729		11/26/04 1759	glr
	Di-n-butyl phthalate, Low Level Water	5.0	U		0.36	5.0	1.00000	ug/L	135729		11/26/04 1759	glr
	Fluoranthene, Low Level Water	0.99	U		0.14	0.99	1.00000	ug/L	135729		11/26/04 1759	glr
	Pyrene, Low Level Water	0.99	U		0.12	0.99	1.00000	ug/L	135729		11/26/04 1759	glr
	Butyl benzyl phthalate, Low Level Water	2.0	U		0.39	2.0	1.00000	ug/L	135729		11/26/04 1759	glr
	Benzo(a)anthracene, Low Level Water	0.20	U		0.049	0.20	1.00000	ug/L	135729		11/26/04 1759	glr
	Chrysene, Low Level Water	0.50	U		0.045	0.50	1.00000	ug/L	135729		11/26/04 1759	glr

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231757

Date: 11/30/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: B12sw-025-DUP
Date Sampled.....: 11/05/2004
Time Sampled.....: 08:45
Sample Matrix.....: Water

Laboratory Sample ID: 231757-2
Date Received.....: 11/06/2004
Time Received.....: 11:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	3,3-Dichlorobenzidine, Low Level Water	5.0	U		0.71	5.0	1.00000	ug/L	135729		11/26/04 1759	glr
	Bis(2-ethylhexyl)phthalate, Low Level Water	15	U		3.9	15	1.00000	ug/L	135729		11/26/04 1759	glr
	Di-n-octyl phthalate, Low Level Water	9.9	U		2.5	9.9	1.00000	ug/L	135729		11/26/04 1759	glr
	Benzo(b)fluoranthene, Low Level Water	0.40	U		0.066	0.40	1.00000	ug/L	135729		11/26/04 1759	glr
	Benzo(k)fluoranthene, Low Level Water	0.40	U		0.071	0.40	1.00000	ug/L	135729		11/26/04 1759	glr
	Benzo(a)pyrene, Low Level Water	0.40	U		0.083	0.40	1.00000	ug/L	135729		11/26/04 1759	glr
	Indeno(1,2,3-cd)pyrene, Low Level Water	0.40	U		0.085	0.40	1.00000	ug/L	135729		11/26/04 1759	glr
	Dibenzo(a,h)anthracene, Low Level Water	0.40	U		0.13	0.40	1.00000	ug/L	135729		11/26/04 1759	glr
	Benzo(ghi)perylene, Low Level Water	0.99	U		0.19	0.99	1.00000	ug/L	135729		11/26/04 1759	glr

* In Description = Dry Wgt.

STL CHICAGO

Client Sample ID: B12sw-025-DUP

Trace Level Organic Compounds

Lot-Sample #...: G4K060194-002 Work Order #...: GWE991AC Matrix.....: WATER
Date Sampled...: 11/05/04 08:45 Date Received..: 11/06/04
Prep Date.....: 11/08/04 Analysis Date..: 11/11/04
Prep Batch #...: 4313492
Dilution Factor: 1 Initial Wgt/Vol: 10 mL Final Wgt/Vol..: 10 mL

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
Nitroguanidine	ND	20	ug/L	NONE UV/HPLC per

STL CHICAGO

Client Sample ID: B12sw-025-DUP

General Chemistry

Lot-Sample #...: G4K060194-002 **Work Order #...:** GWE99 **Matrix.....:** WATER
Date Sampled...: 11/05/04 **Date Received..:** 11/06/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	ND	0.50	mg/L	MCAWW 353.2	11/11-11/13/04	4316571
	MDL.....: 0.12					

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Job Number: 231757

LABORATORY TEST RESULTS

Date:11/19/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: B12sw-025-DUP
Date Sampled.....: 11/05/2004
Time Sampled.....: 08:45
Sample Matrix.....: Water

Laboratory Sample ID: 231757-2
Date Received.....: 11/06/2004
Time Received.....: 11:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8330	Explosives by 8330 (HPLC)											
	HMX	24			1.1	4.9	10.0000	ug/L	134865	D1	11/15/04 0037	san
	RDX	35			1.0	3.2	10.0000	ug/L	134865	D1	11/15/04 0037	san
	1,3,5-Trinitrobenzene	0.32	U		0.092	0.32	1.00000	ug/L	134865		11/13/04 2131	san
	1,3-Dinitrobenzene	0.32	U		0.087	0.32	1.00000	ug/L	134865		11/13/04 2131	san
	Nitrobenzene	0.25	U		0.070	0.25	1.00000	ug/L	134865		11/13/04 2131	san
	2,4,6-TNT	0.40	U		0.12	0.40	1.00000	ug/L	134865		11/13/04 2131	san
	Tetryl	1.2	U		0.26	1.2	1.00000	ug/L	134865		11/13/04 2131	san
	2,4-Dinitrotoluene	0.57	U		0.19	0.57	1.00000	ug/L	134865		11/13/04 2131	san
	2,6-Dinitrotoluene	0.68	U		0.23	0.68	1.00000	ug/L	134865		11/13/04 2131	san
	2-Amino-4,6-Dinitrotoluene	0.57	U		0.19	0.57	1.00000	ug/L	134865		11/13/04 2131	san
	4-Amino-2,6-Dinitrotoluene	0.52	U		0.18	0.52	1.00000	ug/L	134865		11/13/04 2131	san
	2-Nitrotoluene	0.49	U		0.15	0.49	1.00000	ug/L	134865		11/13/04 2131	san
	4-Nitrotoluene	0.49	U		0.16	0.49	1.00000	ug/L	134865		11/13/04 2131	san
	3-Nitrotoluene	0.34	J	a	0.16	0.49	1.00000	ug/L	134865		11/13/04 2131	san
8332M	NG/PETN by 8332M (HPLC)											
	Nitroglycerine	5.4			0.24	1.6	1.00000	ug/L	134869		11/10/04 0432	san

* In Description = Dry Wgt.

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Job Number: 231757

LABORATORY TEST RESULTS

Date:11/19/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: B12sw-026-SW
Date Sampled.....: 11/05/2004
Time Sampled.....: 10:45
Sample Matrix.....: Water

Laboratory Sample ID: 231757-15
Date Received.....: 11/06/2004
Time Received.....: 11:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
7041	Antimony (GFAA)											
	Antimony	7.5	U		2.5	7.5	1	ug/L	134574		11/16/04 1419	daj
7060A	Arsenic (GFAA)											
	Arsenic	2.0	U		0.51	2.0	1	ug/L	134614		11/15/04 1206	daj
7421	Lead (GFAA)											
	Lead	3.0	U		0.79	3.0	1	ug/L	134350		11/13/04 0352	daj
7841	Thallium (GFAA)											
	Thallium	4.0	U		1.3	4.0	1	ug/L	134456		11/16/04 0220	daj
7470A	Mercury (CVAA)											
	Mercury	0.051	B		0.049	0.20	1	ug/L	134293		11/12/04 1439	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum	670			24	150	1	ug/L	134280		11/13/04 1453	tds
	Barium	34			1.5	10	1	ug/L	134280		11/13/04 1453	tds
	Beryllium	2.0	U		0.17	2.0	1	ug/L	134280		11/13/04 1453	tds
	Cadmium	2.0	U		0.44	2.0	1	ug/L	134280		11/13/04 1453	tds
	Calcium	26000			24	100	1	ug/L	134280		11/13/04 1453	tds
	Chromium	1.7	B		1.5	10	1	ug/L	134280		11/13/04 1453	tds
	Cobalt	5.0	U		1.0	5.0	1	ug/L	134280		11/13/04 1453	tds
	Copper	10	U		1.6	10	1	ug/L	134280		11/13/04 1453	tds
	Iron	1200			40	120	1	ug/L	134280		11/13/04 1453	tds
	Magnesium	3800			12	100	1	ug/L	134280		11/13/04 1453	tds
	Manganese	480			0.71	10	1	ug/L	134280		11/13/04 1453	tds
	Nickel	2.0	B		1.9	10	1	ug/L	134280		11/13/04 1453	tds
	Potassium	4600			110	500	1	ug/L	134280		11/13/04 1453	tds

* In Description = Dry Wgt.

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Job Number: 231757

LABORATORY TEST RESULTS

Date: 11/19/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: B12sw-026-SW
Date Sampled.....: 11/05/2004
Time Sampled.....: 10:45
Sample Matrix.....: Water

Laboratory Sample ID: 231757-15
Date Received.....: 11/06/2004
Time Received.....: 11:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium	15	U		5.0	15	1	ug/L	134280		11/13/04 1453	tds
	Silver	10	U		3.1	10	1	ug/L	134280		11/13/04 1453	tds
	Sodium	940	B		500	1500	1	ug/L	134280		11/13/04 1453	tds
	Vanadium	10	U		2.1	10	1	ug/L	134280		11/13/04 1453	tds
	Zinc	30	U		10	30	1	ug/L	134280		11/13/04 1453	tds

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

Job Number: 231757

LABORATORY TEST RESULTS

Date:12/02/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: B12sw-026-SW
Date Sampled.....: 11/05/2004
Time Sampled.....: 10:45
Sample Matrix.....: Water

Laboratory Sample ID: 231757-15
Date Received.....: 11/06/2004
Time Received.....: 11:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8081A	Organochlorine Pesticide Analysis											
	alpha-BHC	0.15	U		0.046	0.15	1.00000	ug/L	135869		11/10/04 0609	kdl
	beta-BHC	0.097	U		0.027	0.097	1.00000	ug/L	135869		11/10/04 0609	kdl
	delta-BHC	0.097	U		0.024	0.097	1.00000	ug/L	135869		11/10/04 0609	kdl
	gamma-BHC (Lindane)	0.15	U		0.041	0.15	1.00000	ug/L	135869		11/10/04 0609	kdl
	Heptachlor	0.15	U		0.040	0.15	1.00000	ug/L	135869		11/10/04 0609	kdl
	Aldrin	0.097	U		0.027	0.097	1.00000	ug/L	135869		11/10/04 0609	kdl
	Heptachlor epoxide	0.15	U		0.035	0.15	1.00000	ug/L	135869		11/10/04 0609	kdl
	Endosulfan I	0.097	U		0.020	0.097	1.00000	ug/L	135869		11/10/04 0609	kdl
	Dieldrin	0.097	U		0.017	0.097	1.00000	ug/L	135869		11/10/04 0609	kdl
	4,4'-DDE	0.097	U		0.022	0.097	1.00000	ug/L	135869		11/10/04 0609	kdl
	Endrin	0.097	U		0.017	0.097	1.00000	ug/L	135869		11/10/04 0609	kdl
	Endosulfan II	0.15	U		0.041	0.15	1.00000	ug/L	135869		11/10/04 0609	kdl
	4,4'-DDD	0.11	U		0.035	0.11	1.00000	ug/L	135869		11/10/04 0609	kdl
	Endosulfan sulfate	0.15	U		0.043	0.15	1.00000	ug/L	135869		11/10/04 0609	kdl
	4,4'-DDT	0.15	U		0.048	0.15	1.00000	ug/L	135869		11/10/04 0609	kdl
	Methoxychlor	0.58	U		0.17	0.58	1.00000	ug/L	135869		11/10/04 0609	kdl
	alpha-Chlordane	0.049	U		0.016	0.049	1.00000	ug/L	135869		11/10/04 0609	kdl
	gamma-Chlordane	0.097	U		0.017	0.097	1.00000	ug/L	135869		11/10/04 0609	kdl
	Endrin aldehyde	0.15	U		0.034	0.15	1.00000	ug/L	135869		11/10/04 0609	kdl
	Endrin ketone	0.097	U		0.028	0.097	1.00000	ug/L	135869		11/10/04 0609	kdl
	Toxaphene	0.49	U		0.14	0.49	1.00000	ug/L	135869		11/10/04 0609	kdl

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231757 Date: 12/01/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: B12sw-026-SW
Date Sampled.....: 11/05/2004
Time Sampled.....: 10:45
Sample Matrix.....: Water

Laboratory Sample ID: 231757-15
Date Received.....: 11/06/2004
Time Received.....: 11:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DI	DATE/TIME	TECH
8082	PCB Analysis											
	Aroclor 1016	0.58	U		0.17	0.58	1.00000	ug/L	135625		11/10/04 1453	bjt
	Aroclor 1221	1.3	U		0.41	1.3	1.00000	ug/L	135625		11/10/04 1453	bjt
	Aroclor 1232	1.3	U		0.34	1.3	1.00000	ug/L	135625		11/10/04 1453	bjt
	Aroclor 1242	1.3	U		0.42	1.3	1.00000	ug/L	135625		11/10/04 1453	bjt
	Aroclor 1248	1.5	U		0.47	1.5	1.00000	ug/L	135625		11/10/04 1453	bjt
	Aroclor 1254	1.3	U		0.34	1.3	1.00000	ug/L	135625		11/10/04 1453	bjt
	Aroclor 1260	0.58	U		0.17	0.58	1.00000	ug/L	135625		11/10/04 1453	bjt

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231757

Date:11/18/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: B12sw-026-SW
Date Sampled.....: 11/05/2004
Time Sampled.....: 10:45
Sample Matrix.....: Water

Laboratory Sample ID: 231757-15
Date Received.....: 11/06/2004
Time Received.....: 11:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics											
	Chloromethane	1.0	U		0.080	1.0	1.00000	ug/L	134097		11/12/04 0445	jdn
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	134097		11/12/04 0445	jdn
	Bromomethane	1.0	U		0.10	1.0	1.00000	ug/L	134097		11/12/04 0445	jdn
	Chloroethane	1.0	U		0.080	1.0	1.00000	ug/L	134097		11/12/04 0445	jdn
	1,1-Dichloroethene	1.0	U		0.12	1.0	1.00000	ug/L	134097		11/12/04 0445	jdn
	Carbon disulfide	5.0	U		0.20	5.0	1.00000	ug/L	134097		11/12/04 0445	jdn
	Acetone	5.5	L		1.8	10	1.00000	ug/L	134097		11/12/04 0445	jdn
	Methylene chloride	1.5	U		0.35	1.5	1.00000	ug/L	134097		11/12/04 0445	jdn
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	134097		11/12/04 0445	jdn
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	134097		11/12/04 0445	jdn
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	134097		11/12/04 0445	jdn
	2-Butanone (MEK)	10	U		1.2	10	1.00000	ug/L	134097		11/12/04 0445	jdn
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	134097		11/12/04 0445	jdn
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	134097		11/12/04 0445	jdn
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	134097		11/12/04 0445	jdn
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	134097		11/12/04 0445	jdn
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	134097		11/12/04 0445	jdn
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	134097		11/12/04 0445	jdn
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	134097		11/12/04 0445	jdn
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	134097		11/12/04 0445	jdn
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	134097		11/12/04 0445	jdn
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	134097		11/12/04 0445	jdn
	4-Methyl-2-pentanone (MIBK)	10	U		0.65	10	1.00000	ug/L	134097		11/12/04 0445	jdn
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	134097		11/12/04 0445	jdn
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	134097		11/12/04 0445	jdn
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	134097		11/12/04 0445	jdn
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	134097		11/12/04 0445	jdn
	2-Hexanone	10	U		0.53	10	1.00000	ug/L	134097		11/12/04 0445	jdn

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231757

Date:11/18/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 ADCS ATTN: Eric Ellis

Customer Sample ID: B12sw-026-SW
Date Sampled.....: 11/05/2004
Time Sampled.....: 10:45
Sample Matrix.....: Water

Laboratory Sample ID: 231757-15
Date Received.....: 11/06/2004
Time Received.....: 11:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	1.0	U		0.060	1.0	1.00000	ug/L	134097		11/12/04 0445	jdn
	1,2-Dibromoethane (EDB)	1.0	U		0.13	1.0	1.00000	ug/L	134097		11/12/04 0445	jdn
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	134097		11/12/04 0445	jdn
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	134097		11/12/04 0445	jdn
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	134097		11/12/04 0445	jdn
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	134097		11/12/04 0445	jdn
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	134097		11/12/04 0445	jdn
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	134097		11/12/04 0445	jdn
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	134097		11/12/04 0445	jdn
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	134097		11/12/04 0445	jdn
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	134097		11/12/04 0445	jdn

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231757

Date:11/30/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: B12sw-026-SW
Date Sampled.....: 11/05/2004
Time Sampled.....: 10:45
Sample Matrix.....: Water

Laboratory Sample ID: 231757-15
Date Received.....: 11/06/2004
Time Received.....: 11:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8270C	Semivolatile Organics											
	Phenol, Low Level Water	4.9	U		0.34	4.9	1.00000	ug/L	135729		11/26/04 1853	glr
	Bis(2-chloroethyl)ether, Low Level Water	2.0	U		0.29	2.0	1.00000	ug/L	135729		11/26/04 1853	glr
	1,3-Dichlorobenzene, Low Level Water	2.0	U		0.42	2.0	1.00000	ug/L	135729		11/26/04 1853	glr
	1,4-Dichlorobenzene, Low Level Water	2.0	U		0.32	2.0	1.00000	ug/L	135729		11/26/04 1853	glr
	1,2-Dichlorobenzene, Low Level Water	2.0	U		0.34	2.0	1.00000	ug/L	135729		11/26/04 1853	glr
	Benzyl alcohol, Low Level Water	20	U		2.2	20	1.00000	ug/L	135729		11/26/04 1853	glr
	2-Methylphenol (o-cresol), Low Level Water	2.0	U		0.25	2.0	1.00000	ug/L	135729		11/26/04 1853	glr
	2,2-oxybis (1-chloropropane), Low Level Water	2.0	U	*	0.27	2.0	1.00000	ug/L	135729		11/26/04 1853	glr
	n-Nitroso-di-n-propylamine, Low Level Water	0.49	U		0.079	0.49	1.00000	ug/L	135729		11/26/04 1853	glr
	Hexachloroethane, Low Level Water	4.9	U		0.60	4.9	1.00000	ug/L	135729		11/26/04 1853	glr
	4-Methylphenol (m/p-cresol), Low Level Water	2.0	U		0.098	2.0	1.00000	ug/L	135729		11/26/04 1853	glr
	2-Chlorophenol, Low Level Water	4.9	U		0.12	4.9	1.00000	ug/L	135729		11/26/04 1853	glr
	Nitrobenzene, Low Level Water	0.98	U		0.16	0.98	1.00000	ug/L	135729		11/26/04 1853	glr
	Bis(2-chloroethoxy)methane, Low Level Water	2.0	U		0.30	2.0	1.00000	ug/L	135729		11/26/04 1853	glr
	1,2,4-Trichlorobenzene, Low Level Water	2.0	U		0.33	2.0	1.00000	ug/L	135729		11/26/04 1853	glr
	Benzoic acid, Low Level Water	20	U		2.9	20	1.00000	ug/L	135729		11/26/04 1853	glr
	Isophorone, Low Level Water	2.0	U		0.25	2.0	1.00000	ug/L	135729		11/26/04 1853	glr
	2,4-Dimethylphenol, Low Level Water	9.8	U		1.3	9.8	1.00000	ug/L	135729		11/26/04 1853	glr
	Hexachlorobutadiene, Low Level Water	4.9	U		0.63	4.9	1.00000	ug/L	135729		11/26/04 1853	glr
	Naphthalene, Low Level Water	0.98	U		0.16	0.98	1.00000	ug/L	135729		11/26/04 1853	glr
	2,4-Dichlorophenol, Low Level Water	9.8	U		0.89	9.8	1.00000	ug/L	135729		11/26/04 1853	glr
	4-Chloroaniline, Low Level Water	9.8	U		2.7	9.8	1.00000	ug/L	135729		11/26/04 1853	glr
	2,4,6-Trichlorophenol, Low Level Water	4.9	U		0.21	4.9	1.00000	ug/L	135729		11/26/04 1853	glr
	2,4,5-Trichlorophenol, Low Level Water	9.8	U		1.4	9.8	1.00000	ug/L	135729		11/26/04 1853	glr
	Hexachlorocyclopentadiene, Low Level Water	20	U	*	0.64	20	1.00000	ug/L	135729		11/26/04 1853	glr
	2-Methylnaphthalene, Low Level Water	0.49	U		0.13	0.49	1.00000	ug/L	135729		11/26/04 1853	glr
	2-Nitroaniline, Low Level Water	4.9	U		0.22	4.9	1.00000	ug/L	135729		11/26/04 1853	glr
	2-Chloronaphthalene, Low Level Water	2.0	U		0.25	2.0	1.00000	ug/L	135729		11/26/04 1853	glr

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231757

Date:11/30/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: B12sw-026-SW
Date Sampled.....: 11/05/2004
Time Sampled.....: 10:45
Sample Matrix.....: Water

Laboratory Sample ID: 231757-15
Date Received.....: 11/06/2004
Time Received.....: 11:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	4-Chloro-3-methylphenol, Low Level Water	9.8	U		2.4	9.8	1.00000	ug/L	135729		11/26/04 1853	glr
	2,6-Dinitrotoluene, Low Level Water	0.49	U		0.11	0.49	1.00000	ug/L	135729		11/26/04 1853	glr
	2-Nitrophenol, Low Level Water	9.8	U		0.80	9.8	1.00000	ug/L	135729		11/26/04 1853	glr
	3-Nitroaniline, Low Level Water	9.8	U		2.1	9.8	1.00000	ug/L	135729		11/26/04 1853	glr
	Dimethyl phthalate, Low Level Water	2.0	U		0.21	2.0	1.00000	ug/L	135729		11/26/04 1853	glr
	2,4-Dinitrophenol, Low Level Water	20	U		3.2	20	1.00000	ug/L	135729		11/26/04 1853	glr
	Acenaphthylene, Low Level Water	0.98	U		0.12	0.98	1.00000	ug/L	135729		11/26/04 1853	glr
	2,4-Dinitrotoluene, Low Level Water	0.98	U		0.13	0.98	1.00000	ug/L	135729		11/26/04 1853	glr
	Acenaphthene, Low Level Water	0.98	U		0.12	0.98	1.00000	ug/L	135729		11/26/04 1853	glr
	Dibenzofuran, Low Level Water	2.0	U		0.13	2.0	1.00000	ug/L	135729		11/26/04 1853	glr
	4-Nitrophenol, Low Level Water	20	U		3.6	20	1.00000	ug/L	135729		11/26/04 1853	glr
	Fluorene, Low Level Water	0.98	U		0.13	0.98	1.00000	ug/L	135729		11/26/04 1853	glr
	4-Nitroaniline, Low Level Water	9.8	U		2.3	9.8	1.00000	ug/L	135729		11/26/04 1853	glr
	4-Bromophenyl phenyl ether, Low Level Water	4.9	U		0.19	4.9	1.00000	ug/L	135729		11/26/04 1853	glr
	Hexachlorobenzene, Low Level Water	0.49	U		0.095	0.49	1.00000	ug/L	135729		11/26/04 1853	glr
	Diethyl phthalate, Low Level Water	2.0	U		0.15	2.0	1.00000	ug/L	135729		11/26/04 1853	glr
	4-Chlorophenyl phenyl ether, Low Level Water	4.9	U		0.74	4.9	1.00000	ug/L	135729		11/26/04 1853	glr
	Pentachlorophenol, Low Level Water	9.8	U		1.7	9.8	1.00000	ug/L	135729		11/26/04 1853	glr
	n-Nitrosodiphenylamine, Low Level Water	0.98	U		0.13	0.98	1.00000	ug/L	135729		11/26/04 1853	glr
	4,6-Dinitro-2-methylphenol, Low Level Water	20	U		2.4	20	1.00000	ug/L	135729		11/26/04 1853	glr
	Phenanthrene, Low Level Water	0.98	U		0.14	0.98	1.00000	ug/L	135729		11/26/04 1853	glr
	Anthracene, Low Level Water	0.98	U		0.15	0.98	1.00000	ug/L	135729		11/26/04 1853	glr
	Carbazole, Low Level Water	4.9	U		0.28	4.9	1.00000	ug/L	135729		11/26/04 1853	glr
	Di-n-butyl phthalate, Low Level Water	4.9	U		0.35	4.9	1.00000	ug/L	135729		11/26/04 1853	glr
	Fluoranthene, Low Level Water	0.98	U		0.14	0.98	1.00000	ug/L	135729		11/26/04 1853	glr
	Pyrene, Low Level Water	0.98	U		0.12	0.98	1.00000	ug/L	135729		11/26/04 1853	glr
	Butyl benzyl phthalate, Low Level Water	2.0	U		0.38	2.0	1.00000	ug/L	135729		11/26/04 1853	glr
	Benzo(a)anthracene, Low Level Water	0.20	U		0.048	0.20	1.00000	ug/L	135729		11/26/04 1853	glr
	Chrysene, Low Level Water	0.49	U		0.044	0.49	1.00000	ug/L	135729		11/26/04 1853	glr

* In Description = Dry Wgt.

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Job Number: 231757

LABORATORY TEST RESULTS

Date:11/30/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: B12sw-026-SW
Date Sampled.....: 11/05/2004
Time Sampled.....: 10:45
Sample Matrix.....: Water

Laboratory Sample ID: 231757-15
Date Received.....: 11/06/2004
Time Received.....: 11:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	3,3-Dichlorobenzidine, Low Level Water	4.9	U		0.71	4.9	1.00000	ug/L	135729		11/26/04 1853	glr
	Bis(2-ethylhexyl)phthalate, Low Level Water	4.5	J	a	3.8	15	1.00000	ug/L	135729		11/26/04 1853	glr
	Di-n-octyl phthalate, Low Level Water	9.8	U		2.5	9.8	1.00000	ug/L	135729		11/26/04 1853	glr
	Benzo(b)fluoranthene, Low Level Water	0.39	U		0.066	0.39	1.00000	ug/L	135729		11/26/04 1853	glr
	Benzo(k)fluoranthene, Low Level Water	0.39	U		0.071	0.39	1.00000	ug/L	135729		11/26/04 1853	glr
	Benzo(a)pyrene, Low Level Water	0.39	U		0.082	0.39	1.00000	ug/L	135729		11/26/04 1853	glr
	Indeno(1,2,3-cd)pyrene, Low Level Water	0.39	U		0.084	0.39	1.00000	ug/L	135729		11/26/04 1853	glr
	Dibenzo(a,h)anthracene, Low Level Water	0.39	U		0.13	0.39	1.00000	ug/L	135729		11/26/04 1853	glr
	Benzo(ghi)perylene, Low Level Water	0.98	U		0.19	0.98	1.00000	ug/L	135729		11/26/04 1853	glr

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231757

Date:11/19/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCs ATTN: Eric Ellis

Customer Sample ID: B12sw-026-SW
Date Sampled.....: 11/05/2004
Time Sampled.....: 10:45
Sample Matrix.....: Water

Laboratory Sample ID: 231757-15
Date Received.....: 11/06/2004
Time Received.....: 11:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8330	Explosives by 8330 (HPLC)											
	HMX	3.7			0.074	0.34	1.00000	ug/L	134865		11/13/04 2236	san
	RDX	2.8			0.069	0.22	1.00000	ug/L	134865		11/13/04 2236	san
	1,3,5-Trinitrobenzene	0.22	U		0.063	0.22	1.00000	ug/L	134865		11/13/04 2236	san
	1,3-Dinitrobenzene	0.22	U		0.060	0.22	1.00000	ug/L	134865		11/13/04 2236	san
	Nitrobenzene	0.17	U		0.048	0.17	1.00000	ug/L	134865		11/13/04 2236	san
	2,4,6-TNT	0.27	U		0.085	0.27	1.00000	ug/L	134865		11/13/04 2236	san
	Tetryl	0.85	U		0.18	0.85	1.00000	ug/L	134865		11/13/04 2236	san
	2,4-Dinitrotoluene	0.39	U		0.13	0.39	1.00000	ug/L	134865		11/13/04 2236	san
	2,6-Dinitrotoluene	0.47	U		0.15	0.47	1.00000	ug/L	134865		11/13/04 2236	san
	2-Amino-4,6-Dinitrotoluene	0.39	U		0.13	0.39	1.00000	ug/L	134865		11/13/04 2236	san
	4-Amino-2,6-Dinitrotoluene	0.36	U		0.12	0.36	1.00000	ug/L	134865		11/13/04 2236	san
	2-Nitrotoluene	0.34	U		0.10	0.34	1.00000	ug/L	134865		11/13/04 2236	san
	4-Nitrotoluene	0.34	U		0.11	0.34	1.00000	ug/L	134865		11/13/04 2236	san
	3-Nitrotoluene	0.34	U		0.11	0.34	1.00000	ug/L	134865		11/13/04 2236	san
8332M	NG/PETN by 8332M (HPLC)											
	Nitroglycerine	1.1	U		0.16	1.1	1.00000	ug/L	134869		11/10/04 0543	san

* In Description = Dry Wgt.

STL CHICAGO

Client Sample ID: B12sw-026-SW

Trace Level Organic Compounds

Lot-Sample #...:	G4K060194-006	Work Order #...:	GWFAK1AC	Matrix.....:	WATER
Date Sampled...:	11/05/04 10:45	Date Received..:	11/06/04		
Prep Date.....:	11/08/04	Analysis Date..:	11/11/04		
Prep Batch #...:	4313492				
Dilution Factor:	1	Initial Wgt/Vol:	10 mL	Final Wgt/Vol..:	10 mL

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
Nitroguanidine	ND	20	ug/L	NONE UV/HPLC per

STL CHICAGO

Client Sample ID: B12sw-026-SW

General Chemistry

Lot-Sample #...: G4K060194-006 Work Order #...: GWFAK Matrix.....: WATER
Date Sampled...: 11/05/04 Date Received..: 11/06/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	ND	0.50	mg/L	MCAWW 353.2	11/11-11/13/04	4316571
		MDL.....: 0.12				

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LABORATORY TEST RESULTS

Job Number: 231657

Date:11/18/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LNWsw-047-SW
Date Sampled.....: 11/03/2004
Time Sampled.....: 10:10
Sample Matrix.....: Water

Laboratory Sample ID: 231657-4
Date Received.....: 11/04/2004
Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DI	DATE/TIME	TECH
7041	Antimony (GFAA)											
	Antimony	7.5	U		2.5	7.5	1	ug/L	133763		11/09/04 2211	daj
7060A	Arsenic (GFAA)											
	Arsenic	0.63	B		0.51	2.0	1	ug/L	134121		11/11/04 2339	daj
7421	Lead (GFAA)											
	Lead	3.0	U		0.79	3.0	1	ug/L	134350		11/12/04 2307	daj
7841	Thallium (GFAA)											
	Thallium	4.0	U		1.3	4.0	1	ug/L	134082		11/11/04 0347	daj
7470A	Mercury (CVAA)											
	Mercury	0.20	U		0.049	0.20	1	ug/L	134293		11/12/04 1401	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum	120	B		24	150	1	ug/L	134280		11/13/04 1155	tds
	Barium	33			1.5	10	1	ug/L	134280		11/13/04 1155	tds
	Beryllium	2.0	U		0.17	2.0	1	ug/L	134280		11/13/04 1155	tds
	Cadmium	2.0	U		0.44	2.0	1	ug/L	134280		11/13/04 1155	tds
	Calcium	38000			24	100	1	ug/L	134280		11/13/04 1155	tds
	Chromium	10	U		1.5	10	1	ug/L	134280		11/13/04 1155	tds
	Cobalt	5.0	U		1.0	5.0	1	ug/L	134280		11/13/04 1155	tds
	Copper	10	U		1.6	10	1	ug/L	134280		11/13/04 1155	tds
	Iron	890			40	120	1	ug/L	134280		11/13/04 1155	tds
	Magnesium	8700			12	100	1	ug/L	134280		11/13/04 1155	tds
	Manganese	310			0.71	10	1	ug/L	134280		11/13/04 1155	tds
	Nickel	10	U		1.9	10	1	ug/L	134280		11/13/04 1155	tds
	Potassium	2800			110	500	1	ug/L	134280		11/13/04 1155	tds

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231657

Date:11/18/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LNWsw-047-SW
Date Sampled.....: 11/03/2004
Time Sampled.....: 10:10
Sample Matrix.....: Water

Laboratory Sample ID: 231657-4
Date Received.....: 11/04/2004
Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium	15	U		5.0	15	1	ug/L	134280		11/13/04 1155	tds
	Silver	10	U		3.1	10	1	ug/L	134280		11/13/04 1155	tds
	Sodium	3000			500	1500	1	ug/L	134280		11/13/04 1155	tds
	Vanadium	10	U		2.1	10	1	ug/L	134280		11/13/04 1155	tds
	Zinc	30	U		10	30	1	ug/L	134280		11/13/04 1155	tds

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

LABORATORY TEST RESULTS

Job Number: 231657

Date: 11/28/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP T4 AOCS ATTN: Eric Ellis

Customer Sample ID: LNWsw-047-SW
Date Sampled.....: 11/03/2004
Time Sampled.....: 10:10
Sample Matrix.....: Water

Laboratory Sample ID: 231657-4
Date Received.....: 11/04/2004
Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8081A	Organochlorine Pesticide Analysis											
	alpha-BHC	0.14	U		0.045	0.14	1.00000	ug/L	135511		11/08/04 2357	pjg
	beta-BHC	0.095	U		0.027	0.095	1.00000	ug/L	135511		11/08/04 2357	pjg
	delta-BHC	0.095	U		0.024	0.095	1.00000	ug/L	135511		11/08/04 2357	pjg
	gamma-BHC (Lindane)	0.14	U		0.040	0.14	1.00000	ug/L	135511		11/08/04 2357	pjg
	Heptachlor	0.14	U		0.039	0.14	1.00000	ug/L	135511		11/08/04 2357	pjg
	Aldrin	0.095	U		0.027	0.095	1.00000	ug/L	135511		11/08/04 2357	pjg
	Heptachlor epoxide	0.14	U		0.034	0.14	1.00000	ug/L	135511		11/08/04 2357	pjg
	Endosulfan I	0.095	U		0.020	0.095	1.00000	ug/L	135511		11/08/04 2357	pjg
	Dieldrin	0.095	U		0.017	0.095	1.00000	ug/L	135511		11/08/04 2357	pjg
	4,4'-DDE	0.095	U		0.022	0.095	1.00000	ug/L	135511		11/08/04 2357	pjg
	Endrin	0.095	U		0.016	0.095	1.00000	ug/L	135511		11/08/04 2357	pjg
	Endosulfan II	0.14	U		0.040	0.14	1.00000	ug/L	135511		11/08/04 2357	pjg
	4,4'-DDD	0.10	U		0.034	0.10	1.00000	ug/L	135511		11/08/04 2357	pjg
	Endosulfan sulfate	0.14	U		0.042	0.14	1.00000	ug/L	135511		11/08/04 2357	pjg
	4,4'-DDT	0.14	U		0.047	0.14	1.00000	ug/L	135511		11/08/04 2357	pjg
	Methoxychlor	0.57	U		0.16	0.57	1.00000	ug/L	135511		11/08/04 2357	pjg
	alpha-Chlordane	0.048	U		0.015	0.048	1.00000	ug/L	135511		11/08/04 2357	pjg
	gamma-Chlordane	0.095	U		0.016	0.095	1.00000	ug/L	135511		11/08/04 2357	pjg
	Endrin aldehyde	0.14	U		0.033	0.14	1.00000	ug/L	135511		11/08/04 2357	pjg
	Endrin ketone	0.095	U		0.028	0.095	1.00000	ug/L	135511		11/08/04 2357	pjg
	Toxaphene	0.48	U		0.13	0.48	1.00000	ug/L	135511		11/08/04 2357	pjg

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

Job Number: 231657

LABORATORY TEST RESULTS

Date:11/24/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LNWsw-047-SW
Date Sampled.....: 11/03/2004
Time Sampled.....: 10:10
Sample Matrix.....: Water

Laboratory Sample ID: 231657-4
Date Received.....: 11/04/2004
Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8082	PCB Analysis											
	Aroclor 1016	0.57	U		0.17	0.57	1.00000	ug/L	135436		11/10/04 0345	bjt
	Aroclor 1221	1.2	U		0.40	1.2	1.00000	ug/L	135436		11/10/04 0345	bjt
	Aroclor 1232	1.2	U		0.33	1.2	1.00000	ug/L	135436		11/10/04 0345	bjt
	Aroclor 1242	1.2	U		0.41	1.2	1.00000	ug/L	135436		11/10/04 0345	bjt
	Aroclor 1248	1.4	U		0.46	1.4	1.00000	ug/L	135436		11/10/04 0345	bjt
	Aroclor 1254	1.2	U		0.33	1.2	1.00000	ug/L	135436		11/10/04 0345	bjt
	Aroclor 1260	0.57	U		0.16	0.57	1.00000	ug/L	135436		11/10/04 0345	bjt

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

LABORATORY TEST RESULTS

Job Number: 231657 Date:11/18/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LNWsw-047-SW
Date Sampled.....: 11/03/2004
Time Sampled.....: 10:10
Sample Matrix.....: Water

Laboratory Sample ID: 231657-4
Date Received.....: 11/04/2004
Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics											
	Chloromethane	1.0	U		0.080	1.0	1.00000	ug/L	134097		11/11/04 2324	jdn
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	134097		11/11/04 2324	jdn
	Bromomethane	1.0	U		0.10	1.0	1.00000	ug/L	134097		11/11/04 2324	jdn
	Chloroethane	1.0	U		0.080	1.0	1.00000	ug/L	134097		11/11/04 2324	jdn
	1,1-Dichloroethene	1.0	U		0.12	1.0	1.00000	ug/L	134097		11/11/04 2324	jdn
	Carbon disulfide	5.0	U		0.20	5.0	1.00000	ug/L	134097		11/11/04 2324	jdn
	Acetone	10	U		1.8	10	1.00000	ug/L	134097		11/11/04 2324	jdn
	Methylene chloride	1.5	U		0.35	1.5	1.00000	ug/L	134097		11/11/04 2324	jdn
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	134097		11/11/04 2324	jdn
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	134097		11/11/04 2324	jdn
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	134097		11/11/04 2324	jdn
	2-Butanone (MEK)	10	U		1.2	10	1.00000	ug/L	134097		11/11/04 2324	jdn
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	134097		11/11/04 2324	jdn
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	134097		11/11/04 2324	jdn
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	134097		11/11/04 2324	jdn
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	134097		11/11/04 2324	jdn
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	134097		11/11/04 2324	jdn
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	134097		11/11/04 2324	jdn
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	134097		11/11/04 2324	jdn
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	134097		11/11/04 2324	jdn
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	134097		11/11/04 2324	jdn
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	134097		11/11/04 2324	jdn
	4-Methyl-2-pentanone (MIBK)	10	U		0.65	10	1.00000	ug/L	134097		11/11/04 2324	jdn
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	134097		11/11/04 2324	jdn
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	134097		11/11/04 2324	jdn
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	134097		11/11/04 2324	jdn
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	134097		11/11/04 2324	jdn
	2-Hexanone	10	U		0.53	10	1.00000	ug/L	134097		11/11/04 2324	jdn

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231657 Date: 11/18/2004

CUSTOMER: NKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LNWsw-047-SW
Date Sampled.....: 11/03/2004
Time Sampled.....: 10:10
Sample Matrix.....: Water

Laboratory Sample ID: 231657-4
Date Received.....: 11/04/2004
Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	1.0	U		0.060	1.0	1.00000	ug/L	134097		11/11/04 2324	jdn
	1,2-Dibromoethane (EDB)	1.0	U		0.13	1.0	1.00000	ug/L	134097		11/11/04 2324	jdn
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	134097		11/11/04 2324	jdn
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	134097		11/11/04 2324	jdn
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	134097		11/11/04 2324	jdn
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	134097		11/11/04 2324	jdn
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	134097		11/11/04 2324	jdn
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	134097		11/11/04 2324	jdn
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	134097		11/11/04 2324	jdn
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	134097		11/11/04 2324	jdn
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	134097		11/11/04 2324	jdn

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231657

Date:11/19/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LNWsw-047-SW
Date Sampled.....: 11/03/2004
Time Sampled.....: 10:10
Sample Matrix.....: Water

Laboratory Sample ID: 231657-4
Date Received.....: 11/04/2004
Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8270C	Semivolatile Organics											
	Phenol, Low Level Water	4.9	U		0.34	4.9	1.00000	ug/L	134790		11/18/04 1503	dpk
	Bis(2-chloroethyl)ether, Low Level Water	1.9	U		0.29	1.9	1.00000	ug/L	134790		11/18/04 1503	dpk
	1,3-Dichlorobenzene, Low Level Water	1.9	U		0.42	1.9	1.00000	ug/L	134790		11/18/04 1503	dpk
	1,4-Dichlorobenzene, Low Level Water	1.9	U		0.32	1.9	1.00000	ug/L	134790		11/18/04 1503	dpk
	1,2-Dichlorobenzene, Low Level Water	1.9	U		0.34	1.9	1.00000	ug/L	134790		11/18/04 1503	dpk
	Benzyl alcohol, Low Level Water	19			2.1	19	1.00000	ug/L	134790		11/18/04 1503	dpk
	2-Methylphenol (o-cresol), Low Level Water	1.9	U		0.25	1.9	1.00000	ug/L	134790		11/18/04 1503	dpk
	2,2-oxybis (1-chloropropane), Low Level Water	1.9	U		0.27	1.9	1.00000	ug/L	134790		11/18/04 1503	dpk
	n-Nitroso-di-n-propylamine, Low Level Water	0.49	U		0.079	0.49	1.00000	ug/L	134790		11/18/04 1503	dpk
	Hexachloroethane, Low Level Water	4.9	U		0.59	4.9	1.00000	ug/L	134790		11/18/04 1503	dpk
	4-Methylphenol (m/p-cresol), Low Level Water	1.9	U		0.097	1.9	1.00000	ug/L	134790		11/18/04 1503	dpk
	2-Chlorophenol, Low Level Water	4.9	U		0.12	4.9	1.00000	ug/L	134790		11/18/04 1503	dpk
	Nitrobenzene, Low Level Water	0.97	U		0.16	0.97	1.00000	ug/L	134790		11/18/04 1503	dpk
	Bis(2-chloroethoxy)methane, Low Level Water	1.9	U		0.30	1.9	1.00000	ug/L	134790		11/18/04 1503	dpk
	1,2,4-Trichlorobenzene, Low Level Water	1.9	U		0.33	1.9	1.00000	ug/L	134790		11/18/04 1503	dpk
	Benzoic acid, Low Level Water	19			2.9	19	1.00000	ug/L	134790		11/18/04 1503	dpk
	Isophorone, Low Level Water	1.9	U		0.25	1.9	1.00000	ug/L	134790		11/18/04 1503	dpk
	2,4-Dimethylphenol, Low Level Water	9.7	U		1.3	9.7	1.00000	ug/L	134790		11/18/04 1503	dpk
	Hexachlorobutadiene, Low Level Water	4.9	U		0.62	4.9	1.00000	ug/L	134790		11/18/04 1503	dpk
	Naphthalene, Low Level Water	0.97	U		0.16	0.97	1.00000	ug/L	134790		11/18/04 1503	dpk
	2,4-Dichlorophenol, Low Level Water	9.7	U		0.88	9.7	1.00000	ug/L	134790		11/18/04 1503	dpk
	4-Chloroaniline, Low Level Water	9.7	U		2.7	9.7	1.00000	ug/L	134790		11/18/04 1503	dpk
	2,4,6-Trichlorophenol, Low Level Water	4.9	U		0.20	4.9	1.00000	ug/L	134790		11/18/04 1503	dpk
	2,4,5-Trichlorophenol, Low Level Water	9.7	U		1.4	9.7	1.00000	ug/L	134790		11/18/04 1503	dpk
	Hexachlorocyclopentadiene, Low Level Water	19	U	*	0.63	19	1.00000	ug/L	134790		11/18/04 1503	dpk
	2-Methylnaphthalene, Low Level Water	0.49	U		0.13	0.49	1.00000	ug/L	134790		11/18/04 1503	dpk
	2-Nitroaniline, Low Level Water	4.9	U		0.21	4.9	1.00000	ug/L	134790		11/18/04 1503	dpk
	2-Chloronaphthalene, Low Level Water	1.9	U		0.25	1.9	1.00000	ug/L	134790		11/18/04 1503	dpk

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

LABORATORY TEST RESULTS

Job Number: 231657

Date:11/19/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LNWsw-047-SW
Date Sampled.....: 11/03/2004
Time Sampled.....: 10:10
Sample Matrix.....: Water

Laboratory Sample ID: 231657-4
Date Received.....: 11/04/2004
Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	4-Chloro-3-methylphenol, Low Level Water	9.7	U		2.3	9.7	1.00000	ug/L	134790		11/18/04 1503	dpk
	2,6-Dinitrotoluene, Low Level Water	0.49	U		0.11	0.49	1.00000	ug/L	134790		11/18/04 1503	dpk
	2-Nitrophenol, Low Level Water	9.7	U		0.80	9.7	1.00000	ug/L	134790		11/18/04 1503	dpk
	3-Nitroaniline, Low Level Water	9.7	U		2.0	9.7	1.00000	ug/L	134790		11/18/04 1503	dpk
	Dimethyl phthalate, Low Level Water	1.9	U		0.20	1.9	1.00000	ug/L	134790		11/18/04 1503	dpk
	2,4-Dinitrophenol, Low Level Water	19		*	3.2	19	1.00000	ug/L	134790		11/18/04 1503	dpk
	Acenaphthylene, Low Level Water	0.97	U		0.12	0.97	1.00000	ug/L	134790		11/18/04 1503	dpk
	2,4-Dinitrotoluene, Low Level Water	0.97	U		0.13	0.97	1.00000	ug/L	134790		11/18/04 1503	dpk
	Acenaphthene, Low Level Water	0.97	U		0.12	0.97	1.00000	ug/L	134790		11/18/04 1503	dpk
	Dibenzofuran, Low Level Water	1.9	U		0.13	1.9	1.00000	ug/L	134790		11/18/04 1503	dpk
	4-Nitrophenol, Low Level Water	19	U		3.6	19	1.00000	ug/L	134790		11/18/04 1503	dpk
	Fluorene, Low Level Water	0.97	U		0.13	0.97	1.00000	ug/L	134790		11/18/04 1503	dpk
	4-Nitroaniline, Low Level Water	9.7	U	*	2.2	9.7	1.00000	ug/L	134790		11/18/04 1503	dpk
	4-Bromophenyl phenyl ether, Low Level Water	4.9	U		0.18	4.9	1.00000	ug/L	134790		11/18/04 1503	dpk
	Hexachlorobenzene, Low Level Water	0.49	U		0.094	0.49	1.00000	ug/L	134790		11/18/04 1503	dpk
	Diethyl phthalate, Low Level Water	1.9	U		0.15	1.9	1.00000	ug/L	134790		11/18/04 1503	dpk
	4-Chlorophenyl phenyl ether, Low Level Water	4.9	U		0.73	4.9	1.00000	ug/L	134790		11/18/04 1503	dpk
	Pentachlorophenol, Low Level Water	9.7	U		1.7	9.7	1.00000	ug/L	134790		11/18/04 1503	dpk
	n-Nitrosodiphenylamine, Low Level Water	0.97	U		0.13	0.97	1.00000	ug/L	134790		11/18/04 1503	dpk
	4,6-Dinitro-2-methylphenol, Low Level Water	19	U		2.3	19	1.00000	ug/L	134790		11/18/04 1503	dpk
	Phenanthrene, Low Level Water	0.97	U		0.14	0.97	1.00000	ug/L	134790		11/18/04 1503	dpk
	Anthracene, Low Level Water	0.97	U		0.15	0.97	1.00000	ug/L	134790		11/18/04 1503	dpk
	Carbazole, Low Level Water	4.9	U		0.28	4.9	1.00000	ug/L	134790		11/18/04 1503	dpk
	Di-n-butyl phthalate, Low Level Water	4.9	U		0.35	4.9	1.00000	ug/L	134790		11/18/04 1503	dpk
	Fluoranthene, Low Level Water	0.14	J		0.14	0.97	1.00000	ug/L	134790		11/18/04 1503	dpk
	Pyrene, Low Level Water	0.16	J		0.12	0.97	1.00000	ug/L	134790		11/18/04 1503	dpk
	Butyl benzyl phthalate, Low Level Water	1.9	U		0.38	1.9	1.00000	ug/L	134790		11/18/04 1503	dpk
	Benzo(a)anthracene, Low Level Water	0.17	J		0.048	0.19	1.00000	ug/L	134790		11/18/04 1503	dpk
	Chrysene, Low Level Water	0.17	J		0.044	0.49	1.00000	ug/L	134790		11/18/04 1503	dpk

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231657

Date: 11/19/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LNWsw-047-SW
Date Sampled.....: 11/03/2004
Time Sampled.....: 10:10
Sample Matrix.....: Water

Laboratory Sample ID: 231657-4
Date Received.....: 11/04/2004
Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	3,3-Dichlorobenzidine, Low Level Water	4.9	U		0.70	4.9	1.00000	ug/L	134790		11/18/04 1503	dpk
	Bis(2-ethylhexyl)phthalate, Low Level Water	15	U		3.8	15	1.00000	ug/L	134790		11/18/04 1503	dpk
	Di-n-octyl phthalate, Low Level Water	9.7	U	*	2.4	9.7	1.00000	ug/L	134790		11/18/04 1503	dpk
	Benzo(b)fluoranthene, Low Level Water	0.11	J		0.065	0.39	1.00000	ug/L	134790		11/18/04 1503	dpk
	Benzo(k)fluoranthene, Low Level Water	0.14	J		0.070	0.39	1.00000	ug/L	134790		11/18/04 1503	dpk
	Benzo(a)pyrene, Low Level Water	0.12	J		0.062	0.39	1.00000	ug/L	134790		11/18/04 1503	dpk
	Indeno(1,2,3-cd)pyrene, Low Level Water	0.13	J		0.083	0.39	1.00000	ug/L	134790		11/18/04 1503	dpk
	Dibenzo(a,h)anthracene, Low Level Water	0.13	J	*	0.13	0.39	1.00000	ug/L	134790		11/18/04 1503	dpk
	Benzo(ghi)perylene, Low Level Water	0.97	U		0.18	0.97	1.00000	ug/L	134790		11/18/04 1503	dpk

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231657

Date:11/18/2004

CUSTOMER: NKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LNWsw-047-SW
Date Sampled.....: 11/03/2004
Time Sampled.....: 10:10
Sample Matrix.....: Water

Laboratory Sample ID: 231657-4
Date Received.....: 11/04/2004
Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8330	Explosives by 8330 (HPLC)											
	HMX	0.31	U		0.068	0.31	1.00000	ug/L	134706		11/06/04 0513	san
	RDX	0.20	U		0.064	0.20	1.00000	ug/L	134706		11/06/04 0513	san
	1,3,5-Trinitrobenzene	0.20	U		0.058	0.20	1.00000	ug/L	134706		11/06/04 0513	san
	1,3-Dinitrobenzene	0.20	U		0.055	0.20	1.00000	ug/L	134706		11/06/04 0513	san
	Nitrobenzene	0.16	U		0.044	0.16	1.00000	ug/L	134706		11/06/04 0513	san
	2,4,6-TNT	0.25	U		0.078	0.25	1.00000	ug/L	134706		11/06/04 0513	san
	Tetryl	0.78	U		0.16	0.78	1.00000	ug/L	134706		11/06/04 0513	san
	2,4-Dinitrotoluene	0.36	U		0.12	0.36	1.00000	ug/L	134706		11/06/04 0513	san
	2,6-Dinitrotoluene	0.43	U		0.14	0.43	1.00000	ug/L	134706		11/06/04 0513	san
	2-Amino-4,6-Dinitrotoluene	0.36	U		0.12	0.36	1.00000	ug/L	134706		11/06/04 0513	san
	4-Amino-2,6-Dinitrotoluene	0.33	U		0.11	0.33	1.00000	ug/L	134706		11/06/04 0513	san
	2-Nitrotoluene	0.31	U		0.093	0.31	1.00000	ug/L	134706		11/06/04 0513	san
	4-Nitrotoluene	0.31	U		0.10	0.31	1.00000	ug/L	134706		11/06/04 0513	san
	3-Nitrotoluene	0.31	U		0.10	0.31	1.00000	ug/L	134706		11/06/04 0513	san
8332M	NG/PETN by 8332M (HPLC)											
	Nitroglycerine	1.0	U		0.15	1.0	1.00000	ug/L	134713		11/09/04 0438	san

* In Description = Dry Wgt.

STL CHICAGO

Client Sample ID: LNWsw-047-SW

Trace Level Organic Compounds

Lot-Sample #...:	G4K040343-002	Work Order #...:	GV9KE1AC	Matrix.....:	WATER
Date Sampled...:	11/03/04 10:10	Date Received..:	11/04/04		
Prep Date.....:	11/08/04	Analysis Date..:	11/11/04		
Prep Batch #...:	4313492				
Dilution Factor:	1	Initial Wgt/Vol:	10 mL	Final Wgt/Vol..:	10 mL

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
Nitroguanidine	ND	20	ug/L	NONE UV/HPLC per

STL CHICAGO

Client Sample ID: LNWsw-047-SW

General Chemistry

Lot-Sample #...: G4K040343-002 Work Order #...: GV9KE Matrix.....: WATER
Date Sampled...: 11/03/04 Date Received..: 11/04/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	ND	0.50	mg/L	MCAWW 353.2	11/11-11/13/04	4316571
	MDL.....: 0.12					

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LABORATORY TEST RESULTS

Job Number: 231657

Date:11/18/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LNWsw-048-SW
Date Sampled.....: 11/03/2004
Time Sampled.....: 09:10
Sample Matrix.....: Water

Laboratory Sample ID: 231657-5
Date Received.....: 11/04/2004
Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
7041	Antimony (GFAA)											
	Antimony	7.5	U		2.5	7.5	1	ug/L	133763		11/09/04 2231	daj
7060A	Arsenic (GFAA)											
	Arsenic	0.57	B		0.51	2.0	1	ug/L	134121		11/11/04 2350	daj
7421	Lead (GFAA)											
	Lead	3.0	U		0.79	3.0	1	ug/L	134350		11/12/04 2319	daj
7841	Thallium (GFAA)											
	Thallium	4.0	U		1.3	4.0	1	ug/L	134082		11/11/04 0400	daj
7470A	Mercury (CVAA)											
	Mercury	0.20	U		0.049	0.20	1	ug/L	134293		11/12/04 1403	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum	120	B		24	150	1	ug/L	134280		11/13/04 1201	tds
	Barium	35			1.5	10	1	ug/L	134280		11/13/04 1201	tds
	Beryllium	2.0	U		0.17	2.0	1	ug/L	134280		11/13/04 1201	tds
	Cadmium	2.0	U		0.44	2.0	1	ug/L	134280		11/13/04 1201	tds
	Calcium	39000			24	100	1	ug/L	134280		11/13/04 1201	tds
	Chromium	10	U		1.5	10	1	ug/L	134280		11/13/04 1201	tds
	Cobalt	5.0	U		1.0	5.0	1	ug/L	134280		11/13/04 1201	tds
	Copper	10	U		1.6	10	1	ug/L	134280		11/13/04 1201	tds
	Iron	1100			40	120	1	ug/L	134280		11/13/04 1201	tds
	Magnesium	9000			12	100	1	ug/L	134280		11/13/04 1201	tds
	Manganese	470			0.71	10	1	ug/L	134280		11/13/04 1201	tds
	Nickel	10	U		1.9	10	1	ug/L	134280		11/13/04 1201	tds
	Potassium	2800			110	500	1	ug/L	134280		11/13/04 1201	tds

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231657

Date: 11/18/2004

CUSTOMER: MKN Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LNWsw-048-SW
Date Sampled.....: 11/03/2004
Time Sampled.....: 09:10
Sample Matrix.....: Water

Laboratory Sample ID: 231657-5
Date Received.....: 11/04/2004
Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium	15	U		5.0	15	1	ug/L	134280		11/13/04 1201	tds
	Silver	10	U		3.1	10	1	ug/L	134280		11/13/04 1201	tds
	Sodium	3100			500	1500	1	ug/L	134280		11/13/04 1201	tds
	Vanadium	10	U		2.1	10	1	ug/L	134280		11/13/04 1201	tds
	Zinc	30	U		10	30	1	ug/L	134280		11/13/04 1201	tds

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231657 Date:11/28/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LNWsw-048-SW
Date Sampled.....: 11/03/2004
Time Sampled.....: 09:10
Sample Matrix.....: Water

Laboratory Sample ID: 231657-5
Date Received.....: 11/04/2004
Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8081A	Organochlorine Pesticide Analysis											
	alpha-BHC	0.14	U		0.045	0.14	1.00000	ug/L	135511		11/09/04 0022	pjg
	beta-BHC	0.096	U		0.027	0.096	1.00000	ug/L	135511		11/09/04 0022	pjg
	delta-BHC	0.096	U		0.024	0.096	1.00000	ug/L	135511		11/09/04 0022	pjg
	gamma-BHC (Lindane)	0.14	U		0.040	0.14	1.00000	ug/L	135511		11/09/04 0022	pjg
	Heptachlor	0.14	U		0.039	0.14	1.00000	ug/L	135511		11/09/04 0022	pjg
	Aldrin	0.096	U		0.027	0.096	1.00000	ug/L	135511		11/09/04 0022	pjg
	Heptachlor epoxide	0.14	U		0.035	0.14	1.00000	ug/L	135511		11/09/04 0022	pjg
	Endosulfan I	0.096	U		0.020	0.096	1.00000	ug/L	135511		11/09/04 0022	pjg
	Dieldrin	0.096	U		0.017	0.096	1.00000	ug/L	135511		11/09/04 0022	pjg
	4,4'-DDE	0.096	U		0.022	0.096	1.00000	ug/L	135511		11/09/04 0022	pjg
	Endrin	0.096	U		0.016	0.096	1.00000	ug/L	135511		11/09/04 0022	pjg
	Endosulfan II	0.14	U		0.040	0.14	1.00000	ug/L	135511		11/09/04 0022	pjg
	4,4'-DDD	0.11	U		0.035	0.11	1.00000	ug/L	135511		11/09/04 0022	pjg
	Endosulfan sulfate	0.14	U		0.042	0.14	1.00000	ug/L	135511		11/09/04 0022	pjg
	4,4'-DDT	0.14	U		0.047	0.14	1.00000	ug/L	135511		11/09/04 0022	pjg
	Methoxychlor	0.58	U		0.16	0.58	1.00000	ug/L	135511		11/09/04 0022	pjg
	alpha-Chlordane	0.048	U		0.015	0.048	1.00000	ug/L	135511		11/09/04 0022	pjg
	gamma-Chlordane	0.096	U		0.016	0.096	1.00000	ug/L	135511		11/09/04 0022	pjg
	Endrin aldehyde	0.14	U		0.034	0.14	1.00000	ug/L	135511		11/09/04 0022	pjg
	Endrin ketone	0.096	U		0.028	0.096	1.00000	ug/L	135511		11/09/04 0022	pjg
	Toxaphene	0.48	U		0.13	0.48	1.00000	ug/L	135511		11/09/04 0022	pjg

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231657

Date:11/24/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP IA AOCS ATTN: Eric Ellis

Customer Sample ID: LNWsw-048-SW
Date Sampled.....: 11/03/2004
Time Sampled.....: 09:10
Sample Matrix.....: Water

Laboratory Sample ID: 231657-5
Date Received.....: 11/04/2004
Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8082	PCB Analysis											
	Aroclor 1016	0.58	U		0.17	0.58	1.00000	ug/L	135436		11/10/04 0420	bjt
	Aroclor 1221	1.2	U		0.40	1.2	1.00000	ug/L	135436		11/10/04 0420	bjt
	Aroclor 1232	1.2	U		0.34	1.2	1.00000	ug/L	135436		11/10/04 0420	bjt
	Aroclor 1242	1.2	U		0.41	1.2	1.00000	ug/L	135436		11/10/04 0420	bjt
	Aroclor 1248	1.4	U		0.46	1.4	1.00000	ug/L	135436		11/10/04 0420	bjt
	Aroclor 1254	1.2	U		0.34	1.2	1.00000	ug/L	135436		11/10/04 0420	bjt
	Aroclor 1260	0.58	U		0.16	0.58	1.00000	ug/L	135436		11/10/04 0420	bjt

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231657 Date:11/18/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LNWsw-048-SW
Date Sampled.....: 11/03/2004
Time Sampled.....: 09:10
Sample Matrix.....: Water

Laboratory Sample ID: 231657-5
Date Received.....: 11/04/2004
Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics											
	Chloromethane	1.0	U		0.080	1.0	1.00000	ug/L	134097		11/11/04 2347	jdn
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	134097		11/11/04 2347	jdn
	Bromomethane	1.0	U		0.10	1.0	1.00000	ug/L	134097		11/11/04 2347	jdn
	Chloroethane	1.0	U		0.080	1.0	1.00000	ug/L	134097		11/11/04 2347	jdn
	1,1-Dichloroethene	1.0	U		0.12	1.0	1.00000	ug/L	134097		11/11/04 2347	jdn
	Carbon disulfide	5.0	U		0.20	5.0	1.00000	ug/L	134097		11/11/04 2347	jdn
	Acetone	10	U		1.8	10	1.00000	ug/L	134097		11/11/04 2347	jdn
	Methylene chloride	1.5	U		0.35	1.5	1.00000	ug/L	134097		11/11/04 2347	jdn
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	134097		11/11/04 2347	jdn
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	134097		11/11/04 2347	jdn
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	134097		11/11/04 2347	jdn
	2-Butanone (MEK)	10	U		1.2	10	1.00000	ug/L	134097		11/11/04 2347	jdn
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	134097		11/11/04 2347	jdn
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	134097		11/11/04 2347	jdn
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	134097		11/11/04 2347	jdn
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	134097		11/11/04 2347	jdn
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	134097		11/11/04 2347	jdn
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	134097		11/11/04 2347	jdn
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	134097		11/11/04 2347	jdn
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	134097		11/11/04 2347	jdn
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	134097		11/11/04 2347	jdn
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	134097		11/11/04 2347	jdn
	4-Methyl-2-pentanone (MIBK)	10	U		0.65	10	1.00000	ug/L	134097		11/11/04 2347	jdn
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	134097		11/11/04 2347	jdn
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	134097		11/11/04 2347	jdn
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	134097		11/11/04 2347	jdn
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	134097		11/11/04 2347	jdn
	2-Hexanone	10	U		0.53	10	1.00000	ug/L	134097		11/11/04 2347	jdn

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231657

Date:11/18/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LMWsw-048-SW
Date Sampled.....: 11/03/2004
Time Sampled.....: 09:10
Sample Matrix.....: Water

Laboratory Sample ID: 231657-5
Date Received.....: 11/04/2004
Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	1.0	U		0.060	1.0	1.00000	ug/L	134097		11/11/04 2347	jdn
	1,2-Dibromoethane (EDB)	1.0	U		0.13	1.0	1.00000	ug/L	134097		11/11/04 2347	jdn
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	134097		11/11/04 2347	jdn
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	134097		11/11/04 2347	jdn
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	134097		11/11/04 2347	jdn
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	134097		11/11/04 2347	jdn
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	134097		11/11/04 2347	jdn
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	134097		11/11/04 2347	jdn
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	134097		11/11/04 2347	jdn
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	134097		11/11/04 2347	jdn
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	134097		11/11/04 2347	jdn

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231657

Date:11/19/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LNWsw-048-SW
Date Sampled.....: 11/03/2004
Time Sampled.....: 09:10
Sample Matrix.....: Water

Laboratory Sample ID: 231657-5
Date Received.....: 11/04/2004
Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	LQ	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8270C	Semivolatile Organics											
	Phenol, Low Level Water	4.9	U		0.34	4.9	1.00000	ug/L	134790		11/18/04 1526	dpk
	Bis(2-chloroethyl)ether, Low Level Water	1.9	U		0.29	1.9	1.00000	ug/L	134790		11/18/04 1526	dpk
	1,3-Dichlorobenzene, Low Level Water	1.9	U		0.42	1.9	1.00000	ug/L	134790		11/18/04 1526	dpk
	1,4-Dichlorobenzene, Low Level Water	1.9	U		0.32	1.9	1.00000	ug/L	134790		11/18/04 1526	dpk
	1,2-Dichlorobenzene, Low Level Water	1.9	U		0.34	1.9	1.00000	ug/L	134790		11/18/04 1526	dpk
	Benzyl alcohol, Low Level Water	19	U		2.1	19	1.00000	ug/L	134790		11/18/04 1526	dpk
	2-Methylphenol (o-cresol), Low Level Water	1.9	U		0.25	1.9	1.00000	ug/L	134790		11/18/04 1526	dpk
	2,2-oxybis (1-chloropropane), Low Level Water	1.9	U		0.27	1.9	1.00000	ug/L	134790		11/18/04 1526	dpk
	n-Nitroso-di-n-propylamine, Low Level Water	0.49	U		0.079	0.49	1.00000	ug/L	134790		11/18/04 1526	dpk
	Hexachloroethane, Low Level Water	4.9	U		0.59	4.9	1.00000	ug/L	134790		11/18/04 1526	dpk
	4-Methylphenol (m/p-cresol), Low Level Water	1.9	U		0.097	1.9	1.00000	ug/L	134790		11/18/04 1526	dpk
	2-Chlorophenol, Low Level Water	4.9	U		0.12	4.9	1.00000	ug/L	134790		11/18/04 1526	dpk
	Nitrobenzene, Low Level Water	0.97	U		0.16	0.97	1.00000	ug/L	134790		11/18/04 1526	dpk
	Bis(2-chloroethoxy)methane, Low Level Water	1.9	U		0.30	1.9	1.00000	ug/L	134790		11/18/04 1526	dpk
	1,2,4-Trichlorobenzene, Low Level Water	1.9	U		0.33	1.9	1.00000	ug/L	134790		11/18/04 1526	dpk
	Benzoic acid, Low Level Water	19	U		2.9	19	1.00000	ug/L	134790		11/18/04 1526	dpk
	Isophorone, Low Level Water	1.9	U		0.25	1.9	1.00000	ug/L	134790		11/18/04 1526	dpk
	2,4-Dimethylphenol, Low Level Water	9.7	U		1.3	9.7	1.00000	ug/L	134790		11/18/04 1526	dpk
	Hexachlorobutadiene, Low Level Water	4.9	U		0.62	4.9	1.00000	ug/L	134790		11/18/04 1526	dpk
	Naphthalene, Low Level Water	0.97	U		0.16	0.97	1.00000	ug/L	134790		11/18/04 1526	dpk
	2,4-Dichlorophenol, Low Level Water	9.7	U		0.88	9.7	1.00000	ug/L	134790		11/18/04 1526	dpk
	4-Chloroaniline, Low Level Water	9.7	U		2.7	9.7	1.00000	ug/L	134790		11/18/04 1526	dpk
	2,4,6-Trichlorophenol, Low Level Water	4.9	U		0.20	4.9	1.00000	ug/L	134790		11/18/04 1526	dpk
	2,4,5-Trichlorophenol, Low Level Water	9.7	U		1.4	9.7	1.00000	ug/L	134790		11/18/04 1526	dpk
	Hexachlorocyclopentadiene, Low Level Water	19	U	*	0.63	19	1.00000	ug/L	134790		11/18/04 1526	dpk
	2-Methylnaphthalene, Low Level Water	0.49	U		0.13	0.49	1.00000	ug/L	134790		11/18/04 1526	dpk
	2-Nitroaniline, Low Level Water	4.9	U		0.21	4.9	1.00000	ug/L	134790		11/18/04 1526	dpk
	2-Chloronaphthalene, Low Level Water	1.9	U		0.25	1.9	1.00000	ug/L	134790		11/18/04 1526	dpk

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231657

Date: 11/19/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LNWsw-048-SW
Date Sampled.....: 11/03/2004
Time Sampled.....: 09:10
Sample Matrix.....: Water

Laboratory Sample ID: 231657-5
Date Received.....: 11/04/2004
Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	4-Chloro-3-methylphenol, Low Level Water	9.7	U		2.3	9.7	1.00000	ug/L	134790		11/18/04 1526	dpk
	2,6-Dinitrotoluene, Low Level Water	0.49	U		0.11	0.49	1.00000	ug/L	134790		11/18/04 1526	dpk
	2-Nitrophenol, Low Level Water	9.7	U		0.80	9.7	1.00000	ug/L	134790		11/18/04 1526	dpk
	3-Nitroaniline, Low Level Water	9.7	U		2.0	9.7	1.00000	ug/L	134790		11/18/04 1526	dpk
	Dimethyl phthalate, Low Level Water	1.9	U		0.20	1.9	1.00000	ug/L	134790		11/18/04 1526	dpk
	2,4-Dinitrophenol, Low Level Water	19	U	*	3.2	19	1.00000	ug/L	134790		11/18/04 1526	dpk
	Acenaphthylene, Low Level Water	0.97	U		0.12	0.97	1.00000	ug/L	134790		11/18/04 1526	dpk
	2,4-Dinitrotoluene, Low Level Water	0.97	U		0.13	0.97	1.00000	ug/L	134790		11/18/04 1526	dpk
	Acenaphthene, Low Level Water	0.97	U		0.12	0.97	1.00000	ug/L	134790		11/18/04 1526	dpk
	Dibenzofuran, Low Level Water	1.9	U		0.13	1.9	1.00000	ug/L	134790		11/18/04 1526	dpk
	4-Nitrophenol, Low Level Water	19	U		3.6	19	1.00000	ug/L	134790		11/18/04 1526	dpk
	Fluorene, Low Level Water	0.97	U		0.13	0.97	1.00000	ug/L	134790		11/18/04 1526	dpk
	4-Nitroaniline, Low Level Water	9.7	U	*	2.2	9.7	1.00000	ug/L	134790		11/18/04 1526	dpk
	4-Bromophenyl phenyl ether, Low Level Water	4.9	U		0.18	4.9	1.00000	ug/L	134790		11/18/04 1526	dpk
	Hexachlorobenzene, Low Level Water	0.49	U		0.094	0.49	1.00000	ug/L	134790		11/18/04 1526	dpk
	Diethyl phthalate, Low Level Water	1.9	U		0.15	1.9	1.00000	ug/L	134790		11/18/04 1526	dpk
	4-Chlorophenyl phenyl ether, Low Level Water	4.9	U		0.73	4.9	1.00000	ug/L	134790		11/18/04 1526	dpk
	Pentachlorophenol, Low Level Water	9.7	U		1.7	9.7	1.00000	ug/L	134790		11/18/04 1526	dpk
	n-Nitrosodiphenylamine, Low Level Water	0.97	U		0.13	0.97	1.00000	ug/L	134790		11/18/04 1526	dpk
	4,6-Dinitro-2-methylphenol, Low Level Water	19	U		2.3	19	1.00000	ug/L	134790		11/18/04 1526	dpk
	Phenanthrene, Low Level Water	0.97	U		0.14	0.97	1.00000	ug/L	134790		11/18/04 1526	dpk
	Anthracene, Low Level Water	0.97	U		0.15	0.97	1.00000	ug/L	134790		11/18/04 1526	dpk
	Carbazole, Low Level Water	4.9	U		0.28	4.9	1.00000	ug/L	134790		11/18/04 1526	dpk
	Di-n-butyl phthalate, Low Level Water	4.9	U		0.35	4.9	1.00000	ug/L	134790		11/18/04 1526	dpk
	Fluoranthene, Low Level Water	0.97	U		0.14	0.97	1.00000	ug/L	134790		11/18/04 1526	dpk
	Pyrene, Low Level Water	0.97	U		0.12	0.97	1.00000	ug/L	134790		11/18/04 1526	dpk
	Butyl benzyl phthalate, Low Level Water	1.9	U		0.38	1.9	1.00000	ug/L	134790		11/18/04 1526	dpk
	Benzo(a)anthracene, Low Level Water	0.19	U		0.048	0.19	1.00000	ug/L	134790		11/18/04 1526	dpk
	Chrysene, Low Level Water	0.49	U		0.044	0.49	1.00000	ug/L	134790		11/18/04 1526	dpk

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231657

Date:11/19/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LNWsw-048-SW
Date Sampled.....: 11/03/2004
Time Sampled.....: 09:10
Sample Matrix.....: Water

Laboratory Sample ID: 231657-5
Date Received.....: 11/04/2004
Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	3,3-Dichlorobenzidine, Low Level Water	4.9	U		0.70	4.9	1.00000	ug/L	134790		11/18/04 1526	dpk
	Bis(2-ethylhexyl)phthalate, Low Level Water	15	U		3.8	15	1.00000	ug/L	134790		11/18/04 1526	dpk
	Di-n-octyl phthalate, Low Level Water	9.7	U	*	2.4	9.7	1.00000	ug/L	134790		11/18/04 1526	dpk
	Benzo(b)fluoranthene, Low Level Water	0.39	U		0.065	0.39	1.00000	ug/L	134790		11/18/04 1526	dpk
	Benzo(k)fluoranthene, Low Level Water	0.39	U		0.070	0.39	1.00000	ug/L	134790		11/18/04 1526	dpk
	Benzo(a)pyrene, Low Level Water	0.39	U		0.082	0.39	1.00000	ug/L	134790		11/18/04 1526	dpk
	Indeno(1,2,3-cd)pyrene, Low Level Water	0.39	U		0.083	0.39	1.00000	ug/L	134790		11/18/04 1526	dpk
	Dibenzo(a,h)anthracene, Low Level Water	0.39	U	*	0.13	0.39	1.00000	ug/L	134790		11/18/04 1526	dpk
	Benzo(ghi)perylene, Low Level Water	0.97	U		0.18	0.97	1.00000	ug/L	134790		11/18/04 1526	dpk

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231657

Date:11/18/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LNWsw-048-SW
Date Sampled.....: 11/03/2004
Time Sampled.....: 09:10
Sample Matrix.....: Water

Laboratory Sample ID: 231657-5
Date Received.....: 11/04/2004
Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8330	Explosives by 8330 (HPLC)											
	HMX	0.32	U		0.069	0.32	1.00000	ug/L	134706		11/06/04 0546	san
	RDX	0.20	U		0.065	0.20	1.00000	ug/L	134706		11/06/04 0546	san
	1,3,5-Trinitrobenzene	0.20	U		0.059	0.20	1.00000	ug/L	134706		11/06/04 0546	san
	1,3-Dinitrobenzene	0.20	U		0.056	0.20	1.00000	ug/L	134706		11/06/04 0546	san
	Nitrobenzene	0.16	U		0.045	0.16	1.00000	ug/L	134706		11/06/04 0546	san
	2,4,6-TNT	0.25	U		0.079	0.25	1.00000	ug/L	134706		11/06/04 0546	san
	Tetryl	0.79	U		0.17	0.79	1.00000	ug/L	134706		11/06/04 0546	san
	2,4-Dinitrotoluene	0.37	U		0.12	0.37	1.00000	ug/L	134706		11/06/04 0546	san
	2,6-Dinitrotoluene	0.44	U		0.15	0.44	1.00000	ug/L	134706		11/06/04 0546	san
	2-Amino-4,6-Dinitrotoluene	0.37	U		0.12	0.37	1.00000	ug/L	134706		11/06/04 0546	san
	4-Amino-2,6-Dinitrotoluene	0.34	U		0.11	0.34	1.00000	ug/L	134706		11/06/04 0546	san
	2-Nitrotoluene	0.32	U		0.095	0.32	1.00000	ug/L	134706		11/06/04 0546	san
	4-Nitrotoluene	0.32	U		0.10	0.32	1.00000	ug/L	134706		11/06/04 0546	san
	3-Nitrotoluene	0.32	U		0.10	0.32	1.00000	ug/L	134706		11/06/04 0546	san
8332M	NG/PETN by 8332M* (HPLC)											
	Nitroglycerine	1.0	U		0.15	1.0	1.00000	ug/L	134713		11/09/04 0513	san

* In Description = Dry Wgt.

STL CHICAGO

Client Sample ID: LNWsw-048-SW

Trace Level Organic Compounds

Lot-Sample #...:	G4K040343-004	Work Order #...:	GV9KH1AC	Matrix.....:	WATER
Date Sampled...:	11/03/04 09:10	Date Received..:	11/04/04		
Prep Date.....:	11/08/04	Analysis Date..:	11/11/04		
Prep Batch #...:	4313492				
Dilution Factor:	1	Initial Wgt/Vol:	10 mL	Final Wgt/Vol..:	10 mL

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
Nitroguanidine	ND	20	ug/L	NONE UV/HPLC per

STL CHICAGO

Client Sample ID: LNWsw-048-SW

General Chemistry

Lot-Sample #...: G4K040343-004 **Work Order #...:** GV9KH **Matrix.....:** WATER
Date Sampled...: 11/03/04 **Date Received..:** 11/04/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	ND	0.50	mg/L	MCAWW 353.2	11/11-11/13/04	4316571
		MDL.....: 0.12				

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LABORATORY TEST RESULTS

Job Number: 231657

Date:11/18/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 ADCS ATTN: Eric Ellis

Customer Sample ID: LNWsw-049-SW
Date Sampled.....: 11/03/2004
Time Sampled.....: 14:35
Sample Matrix.....: Water

Laboratory Sample ID: 231657-3
Date Received.....: 11/04/2004
Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	BT	DATE/TIME	TECH
7041	Antimony (GFAA)											
	Antimony	7.5	U		2.5	7.5	1	ug/L	133763		11/09/04 2151	daj
7060A	Arsenic (GFAA)											
	Arsenic	1.0	B		0.51	2.0	1	ug/L	134121		11/11/04 2316	daj
7421	Lead (GFAA)											
	Lead	3.0	U		0.79	3.0	1	ug/L	134350		11/12/04 2256	daj
7841	Thallium (GFAA)											
	Thallium	1.5	B		1.3	4.0	1	ug/L	134082		11/11/04 0334	daj
7470A	Mercury (CVAA)											
	Mercury	0.050	B		0.049	0.20	1	ug/L	134293		11/12/04 1359	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum	300			24	150	1	ug/L	134280		11/13/04 1148	tds
	Barium	36			1.5	10	1	ug/L	134280		11/13/04 1148	tds
	Beryllium	2.0	U		0.17	2.0	1	ug/L	134280		11/13/04 1148	tds
	Cadmium	2.0	U		0.44	2.0	1	ug/L	134280		11/13/04 1148	tds
	Calcium	38000			24	100	1	ug/L	134280		11/13/04 1148	tds
	Chromium	10	U		1.5	10	1	ug/L	134280		11/13/04 1148	tds
	Cobalt	5.0	U		1.0	5.0	1	ug/L	134280		11/13/04 1148	tds
	Copper	10	U		1.6	10	1	ug/L	134280		11/13/04 1148	tds
	Iron	1600			40	120	1	ug/L	134280		11/13/04 1148	tds
	Magnesium	8900			12	100	1	ug/L	134280		11/13/04 1148	tds
	Manganese	450			0.71	10	1	ug/L	134280		11/13/04 1148	tds
	Nickel	10	U		1.9	10	1	ug/L	134280		11/13/04 1148	tds
	Potassium	3500			110	500	1	ug/L	134280		11/13/04 1148	tds

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231657 Date:11/18/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LNWsw-049-SW
Date Sampled.....: 11/03/2004
Time Sampled.....: 14:35
Sample Matrix.....: Water

Laboratory Sample ID: 231657-3
Date Received.....: 11/04/2004
Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium	15	U		5.0	15	1	ug/L	134280		11/13/04 1148	tds
	Silver	10	U		3.1	10	1	ug/L	134280		11/13/04 1148	tds
	Sodium	3100			500	1500	1	ug/L	134280		11/13/04 1148	tds
	Vanadium	10	U		2.1	10	1	ug/L	134280		11/13/04 1148	tds
	Zinc	30	U		10	30	1	ug/L	134280		11/13/04 1148	tds

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231657

Date: 11/28/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LNWsw-049-SW
Date Sampled.....: 11/03/2004
Time Sampled.....: 14:35
Sample Matrix.....: Water

Laboratory Sample ID: 231657-3
Date Received.....: 11/04/2004
Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8081A	Organochlorine Pesticide Analysis											
	alpha-BHC	0.15	U		0.047	0.15	1.00000	ug/L	135511		11/08/04 2332	pjg
	beta-BHC	0.10	U		0.028	0.10	1.00000	ug/L	135511		11/08/04 2332	pjg
	delta-BHC	0.10	U		0.025	0.10	1.00000	ug/L	135511		11/08/04 2332	pjg
	gamma-BHC (Lindane)	0.15	U		0.042	0.15	1.00000	ug/L	135511		11/08/04 2332	pjg
	Heptachlor	0.15	U		0.041	0.15	1.00000	ug/L	135511		11/08/04 2332	pjg
	Aldrin	0.10	U		0.028	0.10	1.00000	ug/L	135511		11/08/04 2332	pjg
	Heptachlor epoxide	0.15	U		0.036	0.15	1.00000	ug/L	135511		11/08/04 2332	pjg
	Endosulfan I	0.10	U		0.021	0.10	1.00000	ug/L	135511		11/08/04 2332	pjg
	Dieldrin	0.10	U		0.018	0.10	1.00000	ug/L	135511		11/08/04 2332	pjg
	4,4'-DDE	0.10	U		0.023	0.10	1.00000	ug/L	135511		11/08/04 2332	pjg
	Endrin	0.10	U		0.017	0.10	1.00000	ug/L	135511		11/08/04 2332	pjg
	Endosulfan II	0.15	U		0.042	0.15	1.00000	ug/L	135511		11/08/04 2332	pjg
	4,4'-DDD	0.11	U		0.036	0.11	1.00000	ug/L	135511		11/08/04 2332	pjg
	Endosulfan sulfate	0.15	U		0.044	0.15	1.00000	ug/L	135511		11/08/04 2332	pjg
	4,4'-DDT	0.15	U		0.049	0.15	1.00000	ug/L	135511		11/08/04 2332	pjg
	Methoxychlor	0.60	U		0.17	0.60	1.00000	ug/L	135511		11/08/04 2332	pjg
	alpha-Chlordane	0.050	U		0.016	0.050	1.00000	ug/L	135511		11/08/04 2332	pjg
	gamma-Chlordane	0.10	U		0.017	0.10	1.00000	ug/L	135511		11/08/04 2332	pjg
	Endrin aldehyde	0.15	U		0.035	0.15	1.00000	ug/L	135511		11/08/04 2332	pjg
	Endrin ketone	0.10	U		0.029	0.10	1.00000	ug/L	135511		11/08/04 2332	pjg
	Toxaphene	0.50	U		0.14	0.50	1.00000	ug/L	135511		11/08/04 2332	pjg

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231657

Date:11/24/2004

CUSTOMER: NKN Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LNWsw-049-SW
Date Sampled.....: 11/03/2004
Time Sampled.....: 14:35
Sample Matrix.....: Water

Laboratory Sample ID: 231657-3
Date Received.....: 11/04/2004
Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DF	DATE/TIME	TECH
8082	PCB Analysis											
	Aroclor 1016	0.60	U		0.18	0.60	1.00000	ug/L	135436		11/10/04 0309	bjt
	Aroclor 1221	1.3	U		0.42	1.3	1.00000	ug/L	135436		11/10/04 0309	bjt
	Aroclor 1232	1.3	U		0.35	1.3	1.00000	ug/L	135436		11/10/04 0309	bjt
	Aroclor 1242	1.3	U		0.43	1.3	1.00000	ug/L	135436		11/10/04 0309	bjt
	Aroclor 1248	1.5	U		0.48	1.5	1.00000	ug/L	135436		11/10/04 0309	bjt
	Aroclor 1254	1.3	U		0.35	1.3	1.00000	ug/L	135436		11/10/04 0309	bjt
	Aroclor 1260	0.60	U		0.17	0.60	1.00000	ug/L	135436		11/10/04 0309	bjt

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231657

Date: 11/18/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LNWsw-049-SW
Date Sampled.....: 11/03/2004
Time Sampled.....: 14:35
Sample Matrix.....: Water

Laboratory Sample ID: 231657-3
Date Received.....: 11/04/2004
Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics											
	Chloromethane	1.0	U		0.080	1.0	1.00000	ug/L	134097		11/11/04 2301	jdn
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	134097		11/11/04 2301	jdn
	Bromomethane	1.0	U		0.10	1.0	1.00000	ug/L	134097		11/11/04 2301	jdn
	Chloroethane	1.0	U		0.080	1.0	1.00000	ug/L	134097		11/11/04 2301	jdn
	1,1-Dichloroethene	1.0	U		0.12	1.0	1.00000	ug/L	134097		11/11/04 2301	jdn
	Carbon disulfide	5.0	U		0.20	5.0	1.00000	ug/L	134097		11/11/04 2301	jdn
	Acetone	10	U		1.8	10	1.00000	ug/L	134097		11/11/04 2301	jdn
	Methylene chloride	1.5	U		0.35	1.5	1.00000	ug/L	134097		11/11/04 2301	jdn
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	134097		11/11/04 2301	jdn
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	134097		11/11/04 2301	jdn
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	134097		11/11/04 2301	jdn
	2-Butanone (MEK)	10	U		1.2	10	1.00000	ug/L	134097		11/11/04 2301	jdn
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	134097		11/11/04 2301	jdn
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	134097		11/11/04 2301	jdn
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	134097		11/11/04 2301	jdn
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	134097		11/11/04 2301	jdn
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	134097		11/11/04 2301	jdn
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	134097		11/11/04 2301	jdn
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	134097		11/11/04 2301	jdn
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	134097		11/11/04 2301	jdn
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	134097		11/11/04 2301	jdn
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	134097		11/11/04 2301	jdn
	4-Methyl-2-pentanone (MIBK)	10	U		0.65	10	1.00000	ug/L	134097		11/11/04 2301	jdn
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	134097		11/11/04 2301	jdn
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	134097		11/11/04 2301	jdn
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	134097		11/11/04 2301	jdn
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	134097		11/11/04 2301	jdn
	2-Hexanone	10	U		0.53	10	1.00000	ug/L	134097		11/11/04 2301	jdn

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231657

Date:11/18/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LNWsw-049-SW
Date Sampled.....: 11/03/2004
Time Sampled.....: 14:35
Sample Matrix.....: Water

Laboratory Sample ID: 231657-3
Date Received.....: 11/04/2004
Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	1.0	U		0.060	1.0	1.00000	ug/L	134097		11/11/04 2301	jdn
	1,2-Dibromoethane (EDB)	1.0	U		0.13	1.0	1.00000	ug/L	134097		11/11/04 2301	jdn
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	134097		11/11/04 2301	jdn
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	134097		11/11/04 2301	jdn
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	134097		11/11/04 2301	jdn
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	134097		11/11/04 2301	jdn
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	134097		11/11/04 2301	jdn
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	134097		11/11/04 2301	jdn
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	134097		11/11/04 2301	jdn
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	134097		11/11/04 2301	jdn
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	134097		11/11/04 2301	jdn

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Date:11/19/2004

Job Number: 231657

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LNWsw-049-SW
Date Sampled.....: 11/03/2004
Time Sampled.....: 14:35
Sample Matrix.....: Water

Laboratory Sample ID: 231657-3
Date Received.....: 11/04/2004
Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DI	DATE/TIME	TECH
8270C	Semivolatile Organics											
	Phenol, Low Level Water	5.2	U		0.36	5.2	1.00000	ug/L	134790		11/18/04 1440	dpk
	Bis(2-chloroethyl)ether, Low Level Water	2.1	U		0.31	2.1	1.00000	ug/L	134790		11/18/04 1440	dpk
	1,3-Dichlorobenzene, Low Level Water	2.1	U		0.44	2.1	1.00000	ug/L	134790		11/18/04 1440	dpk
	1,4-Dichlorobenzene, Low Level Water	2.1	U		0.34	2.1	1.00000	ug/L	134790		11/18/04 1440	dpk
	1,2-Dichlorobenzene, Low Level Water	2.1	U		0.36	2.1	1.00000	ug/L	134790		11/18/04 1440	dpk
	Benzyl alcohol, Low Level Water	21	U		2.3	21	1.00000	ug/L	134790		11/18/04 1440	dpk
	2-Methylphenol (o-cresol), Low Level Water	2.1	U		0.27	2.1	1.00000	ug/L	134790		11/18/04 1440	dpk
	2,2-oxybis (1-chloropropane), Low Level Water	2.1	U		0.29	2.1	1.00000	ug/L	134790		11/18/04 1440	dpk
	n-Nitroso-di-n-propylamine, Low Level Water	0.52	U		0.084	0.52	1.00000	ug/L	134790		11/18/04 1440	dpk
	Hexachloroethane, Low Level Water	5.2	U		0.63	5.2	1.00000	ug/L	134790		11/18/04 1440	dpk
	4-Methylphenol (m/p-cresol), Low Level Water	2.1	U		0.10	2.1	1.00000	ug/L	134790		11/18/04 1440	dpk
	2-Chlorophenol, Low Level Water	5.2	U		0.12	5.2	1.00000	ug/L	134790		11/18/04 1440	dpk
	Nitrobenzene, Low Level Water	1.0	U		0.16	1.0	1.00000	ug/L	134790		11/18/04 1440	dpk
	Bis(2-chloroethoxy)methane, Low Level Water	2.1	U		0.32	2.1	1.00000	ug/L	134790		11/18/04 1440	dpk
	1,2,4-Trichlorobenzene, Low Level Water	2.1	U		0.35	2.1	1.00000	ug/L	134790		11/18/04 1440	dpk
	Benzoic acid, Low Level Water	21	U		3.1	21	1.00000	ug/L	134790		11/18/04 1440	dpk
	Isophorone, Low Level Water	2.1	U		0.27	2.1	1.00000	ug/L	134790		11/18/04 1440	dpk
	2,4-Dimethylphenol, Low Level Water	10	U		1.3	10	1.00000	ug/L	134790		11/18/04 1440	dpk
	Hexachlorobutadiene, Low Level Water	5.2	U		0.66	5.2	1.00000	ug/L	134790		11/18/04 1440	dpk
	Naphthalene, Low Level Water	1.0	U		0.16	1.0	1.00000	ug/L	134790		11/18/04 1440	dpk
	2,4-Dichlorophenol, Low Level Water	10	U		0.94	10	1.00000	ug/L	134790		11/18/04 1440	dpk
	4-Chloroaniline, Low Level Water	10	U		2.9	10	1.00000	ug/L	134790		11/18/04 1440	dpk
	2,4,6-Trichlorophenol, Low Level Water	5.2	U		0.22	5.2	1.00000	ug/L	134790		11/18/04 1440	dpk
	2,4,5-Trichlorophenol, Low Level Water	10	U		1.4	10	1.00000	ug/L	134790		11/18/04 1440	dpk
	Hexachlorocyclopentadiene, Low Level Water	21	U	*	0.67	21	1.00000	ug/L	134790		11/18/04 1440	dpk
	2-Methylnaphthalene, Low Level Water	0.52	U		0.13	0.52	1.00000	ug/L	134790		11/18/04 1440	dpk
	2-Nitroaniline, Low Level Water	5.2	U		0.23	5.2	1.00000	ug/L	134790		11/18/04 1440	dpk
	2-Chloronaphthalene, Low Level Water	2.1	U		0.27	2.1	1.00000	ug/L	134790		11/18/04 1440	dpk

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Date: 11/19/2004

Job Number: 231657

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LNWsw-049-SW
Date Sampled.....: 11/03/2004
Time Sampled.....: 14:35
Sample Matrix.....: Water

Laboratory Sample ID: 231657-3
Date Received.....: 11/04/2004
Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	4-Chloro-3-methylphenol, Low Level Water	10	U		2.5	10	1.00000	ug/L	134790		11/18/04 1440	dpk
	2,6-Dinitrotoluene, Low Level Water	0.52	U		0.11	0.52	1.00000	ug/L	134790		11/18/04 1440	dpk
	2-Nitrophenol, Low Level Water	10	U		0.85	10	1.00000	ug/L	134790		11/18/04 1440	dpk
	3-Nitroaniline, Low Level Water	10	U		2.2	10	1.00000	ug/L	134790		11/18/04 1440	dpk
	Dimethyl phthalate, Low Level Water	2.1	U		0.22	2.1	1.00000	ug/L	134790		11/18/04 1440	dpk
	2,4-Dinitrophenol, Low Level Water	21	U	*	3.4	21	1.00000	ug/L	134790		11/18/04 1440	dpk
	Acenaphthylene, Low Level Water	1.0	U		0.12	1.0	1.00000	ug/L	134790		11/18/04 1440	dpk
	2,4-Dinitrotoluene, Low Level Water	1.0	U		0.13	1.0	1.00000	ug/L	134790		11/18/04 1440	dpk
	Acenaphthene, Low Level Water	1.0	U		0.12	1.0	1.00000	ug/L	134790		11/18/04 1440	dpk
	Dibenzofuran, Low Level Water	2.1	U		0.13	2.1	1.00000	ug/L	134790		11/18/04 1440	dpk
	4-Nitrophenol, Low Level Water	21	U		3.8	21	1.00000	ug/L	134790		11/18/04 1440	dpk
	Fluorene, Low Level Water	1.0	U		0.13	1.0	1.00000	ug/L	134790		11/18/04 1440	dpk
	4-Nitroaniline, Low Level Water	10	U	*	2.4	10	1.00000	ug/L	134790		11/18/04 1440	dpk
	4-Bromophenyl phenyl ether, Low Level Water	5.2	U		0.20	5.2	1.00000	ug/L	134790		11/18/04 1440	dpk
	Hexachlorobenzene, Low Level Water	0.52	U		0.10	0.52	1.00000	ug/L	134790		11/18/04 1440	dpk
	Diethyl phthalate, Low Level Water	2.1	U		0.15	2.1	1.00000	ug/L	134790		11/18/04 1440	dpk
	4-Chlorophenyl phenyl ether, Low Level Water	5.2	U		0.77	5.2	1.00000	ug/L	134790		11/18/04 1440	dpk
	Pentachlorophenol, Low Level Water	10	U		1.8	10	1.00000	ug/L	134790		11/18/04 1440	dpk
	n-Nitrosodiphenylamine, Low Level Water	1.0	U		0.13	1.0	1.00000	ug/L	134790		11/18/04 1440	dpk
	4,6-Dinitro-2-methylphenol, Low Level Water	21	U		2.5	21	1.00000	ug/L	134790		11/18/04 1440	dpk
	Phenanthrene, Low Level Water	1.0	U		0.14	1.0	1.00000	ug/L	134790		11/18/04 1440	dpk
	Anthracene, Low Level Water	1.0	U		0.15	1.0	1.00000	ug/L	134790		11/18/04 1440	dpk
	Carbazole, Low Level Water	5.2	U		0.30	5.2	1.00000	ug/L	134790		11/18/04 1440	dpk
	Di-n-butyl phthalate, Low Level Water	5.2	U		0.37	5.2	1.00000	ug/L	134790		11/18/04 1440	dpk
	Fluoranthene, Low Level Water	1.0	U		0.14	1.0	1.00000	ug/L	134790		11/18/04 1440	dpk
	Pyrene, Low Level Water	1.0	U		0.12	1.0	1.00000	ug/L	134790		11/18/04 1440	dpk
	Butyl benzyl phthalate, Low Level Water	2.1	U		0.40	2.1	1.00000	ug/L	134790		11/18/04 1440	dpk
	Benzo(a)anthracene, Low Level Water	0.21	U		0.051	0.21	1.00000	ug/L	134790		11/18/04 1440	dpk
	Chrysene, Low Level Water	0.52	U		0.046	0.52	1.00000	ug/L	134790		11/18/04 1440	dpk

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231657

Date:11/19/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 AOCS

ATTN: Eric Ellis

Customer Sample ID: LNWsw-049-SW
Date Sampled.....: 11/03/2004
Time Sampled.....: 14:35
Sample Matrix.....: Water

Laboratory Sample ID: 231657-3
Date Received.....: 11/04/2004
Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	3,3-Dichlorobenzidine, Low Level Water	5.2	U		0.74	5.2	1.00000	ug/L	134790		11/18/04 1440	dpk
	Bis(2-ethylhexyl)phthalate, Low Level Water	15	U		4.0	15	1.00000	ug/L	134790		11/18/04 1440	dpk
	Di-n-octyl phthalate, Low Level Water	10	U	*	2.6	10	1.00000	ug/L	134790		11/18/04 1440	dpk
	Benzo(b)fluoranthene, Low Level Water	0.41	U		0.069	0.41	1.00000	ug/L	134790		11/18/04 1440	dpk
	Benzo(k)fluoranthene, Low Level Water	0.41	U		0.074	0.41	1.00000	ug/L	134790		11/18/04 1440	dpk
	Benzo(a)pyrene, Low Level Water	0.41	U		0.087	0.41	1.00000	ug/L	134790		11/18/04 1440	dpk
	Indeno(1,2,3-cd)pyrene, Low Level Water	0.41	U		0.089	0.41	1.00000	ug/L	134790		11/18/04 1440	dpk
	Dibenzo(a,h)anthracene, Low Level Water	0.41	U	*	0.13	0.41	1.00000	ug/L	134790		11/18/04 1440	dpk
	Benzo(ghi)perylene, Low Level Water	1.0	U		0.20	1.0	1.00000	ug/L	134790		11/18/04 1440	dpk

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231657

Date:11/20/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LNWsw-049-SW
Date Sampled.....: 11/03/2004
Time Sampled.....: 14:35
Sample Matrix.....: Water

Laboratory Sample ID: 231657-3
Date Received.....: 11/04/2004
Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8330	Explosives by 8330 (HPLC)											
	HMX	0.31	U		0.068	0.31	1.00000	ug/L	134706		11/06/04 0441	san
	RDX	0.099	J	a	0.064	0.20	1.00000	ug/L	134706		11/06/04 0441	san
	1,3,5-Trinitrobenzene	0.20	U		0.058	0.20	1.00000	ug/L	134706		11/06/04 0441	san
	1,3-Dinitrobenzene	0.20	U		0.055	0.20	1.00000	ug/L	134706		11/06/04 0441	san
	Nitrobenzene	0.16	U		0.044	0.16	1.00000	ug/L	134706		11/06/04 0441	san
	2,4,6-TNT	0.25	U		0.078	0.25	1.00000	ug/L	134706		11/06/04 0441	san
	Tetryl	0.78	U		0.16	0.78	1.00000	ug/L	134706		11/06/04 0441	san
	2,4-Dinitrotoluene	0.36	U		0.12	0.36	1.00000	ug/L	134706		11/06/04 0441	san
	2,6-Dinitrotoluene	0.43	U		0.14	0.43	1.00000	ug/L	134706		11/06/04 0441	san
	2-Amino-4,6-Dinitrotoluene	0.36	U		0.12	0.36	1.00000	ug/L	134706		11/06/04 0441	san
	4-Amino-2,6-Dinitrotoluene	0.33	U		0.11	0.33	1.00000	ug/L	134706		11/06/04 0441	san
	2-Nitrotoluene	0.31	U		0.093	0.31	1.00000	ug/L	134706		11/06/04 0441	san
	4-Nitrotoluene	0.31	U		0.10	0.31	1.00000	ug/L	134706		11/06/04 0441	san
	3-Nitrotoluene	0.31	U		0.10	0.31	1.00000	ug/L	134706		11/06/04 0441	san
8332M	NG/PETN by 8332M (HPLC)											
	Nitroglycerine	1.0	U		0.15	1.0	1.00000	ug/L	134713		11/09/04 0402	san

* In Description = Dry Wgt.

STL CHICAGO

Client Sample ID: LNWsw-049-SW

Trace Level Organic Compounds

Lot-Sample #...: G4K040343-003 Work Order #...: GV9KF1AC Matrix.....: WATER
Date Sampled...: 11/02/04 14:35 Date Received..: 11/04/04
Prep Date.....: 11/08/04 Analysis Date..: 11/11/04
Prep Batch #...: 4313492
Dilution Factor: 1 Initial Wgt/Vol: 10 mL Final Wgt/Vol..: 10 mL

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
Nitroguanidine	ND	20	ug/L	NONE UV/HPLC per

STL CHICAGO

Client Sample ID: LNWsw-049-SW

General Chemistry

Lot-Sample #...: G4K040343-003 Work Order #...: GV9KF Matrix.....: WATER
Date Sampled...: 11/02/04 Date Received..: 11/04/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	ND	0.50	mg/L	MCAWW 353.2	11/11-11/13/04	4316571
		MDL.....: 0.12				

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LABORATORY TEST RESULTS

Job Number: 231611

Date:11/19/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP TA ADCS ATTN: Eric Ellis

Customer Sample ID: LNWsw-050-SW
Date Sampled.....: 11/02/2004
Time Sampled.....: 11:30
Sample Matrix.....: Water

Laboratory Sample ID: 231611-3
Date Received.....: 11/03/2004
Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
7041	Antimony (GFAA)											
	Antimony	7.5	U		2.5	7.5	1	ug/L	133763		11/09/04 2050	daj
7060A	Arsenic (GFAA)											
	Arsenic	0.59	B		0.51	2.0	1	ug/L	134121		11/11/04 2208	daj
7421	Lead (GFAA)											
	Lead	3.0	U		0.79	3.0	1	ug/L	134350		11/12/04 2141	daj
7841	Thallium (GFAA)											
	Thallium	4.0	U		1.3	4.0	1	ug/L	134082		11/11/04 0203	daj
7470A	Mercury (CVAA)											
	Mercury	0.20	U		0.049	0.20	1	ug/L	134303		11/12/04 1309	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum	110	B		24	150	1	ug/L	133381		11/05/04 1649	tds
	Barium	37			1.5	10	1	ug/L	133381		11/05/04 1649	tds
	Beryllium	2.0	U		0.17	2.0	1	ug/L	133381		11/05/04 1649	tds
	Cadmium	2.0	U		0.44	2.0	1	ug/L	133381		11/05/04 1649	tds
	Calcium	35000		H	24	100	1	ug/L	133381		11/05/04 1649	tds
	Chromium	10	U		1.5	10	1	ug/L	133381		11/05/04 1649	tds
	Cobalt	5.0	U		1.0	5.0	1	ug/L	133381		11/05/04 1649	tds
	Copper	10	U		1.6	10	1	ug/L	133381		11/05/04 1649	tds
	Iron	1300			40	120	1	ug/L	133381		11/05/04 1649	tds
	Magnesium	8100			12	100	1	ug/L	133381		11/05/04 1649	tds
	Manganese	350			0.71	10	1	ug/L	133381		11/05/04 1649	tds
	Nickel	10	U		1.9	10	1	ug/L	133381		11/05/04 1649	tds
	Potassium	2800			110	500	1	ug/L	133381		11/05/04 1649	tds

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231611

Date:11/19/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 16 AOCS ATTN: Eric Ellis

Customer Sample ID: LNWsw-050-SW
Date Sampled.....: 11/02/2004
Time Sampled.....: 11:30
Sample Matrix.....: Water

Laboratory Sample ID: 231611-3
Date Received.....: 11/03/2004
Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium	15	U		5.0	15	1	ug/L	133381		11/05/04 1649	tds
	Silver	10	U		3.1	10	1	ug/L	133381		11/05/04 1649	tds
	Sodium	3000			500	1500	1	ug/L	133381		11/05/04 1649	tds
	Vanadium	10	U		2.1	10	1	ug/L	133381		11/05/04 1649	tds
	Zinc	30	U		10	30	1	ug/L	133381		11/05/04 1649	tds

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

Job Number: 231611

LABORATORY TEST RESULTS

Date:11/28/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LNWsw-050-SW
Date Sampled.....: 11/02/2004
Time Sampled.....: 11:30
Sample Matrix.....: Water

Laboratory Sample ID: 231611-3
Date Received.....: 11/03/2004
Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8081A	Organochlorine Pesticide Analysis											
	alpha-BHC	0.15	U		0.046	0.15	1.00000	ug/L	135507		11/07/04 0056	pjg
	beta-BHC	0.097	U		0.027	0.097	1.00000	ug/L	135507		11/07/04 0056	pjg
	delta-BHC	0.097	U		0.024	0.097	1.00000	ug/L	135507		11/07/04 0056	pjg
	gamma-BHC (Lindane)	0.15	U		0.041	0.15	1.00000	ug/L	135507		11/07/04 0056	pjg
	Heptachlor	0.15	U		0.040	0.15	1.00000	ug/L	135507		11/07/04 0056	pjg
	Aldrin	0.097	U		0.027	0.097	1.00000	ug/L	135507		11/07/04 0056	pjg
	Heptachlor epoxide	0.15	U		0.035	0.15	1.00000	ug/L	135507		11/07/04 0056	pjg
	Endosulfan I	0.097	U		0.020	0.097	1.00000	ug/L	135507		11/07/04 0056	pjg
	Dieldrin	0.097	U		0.017	0.097	1.00000	ug/L	135507		11/07/04 0056	pjg
	4,4'-DDE	0.097	U		0.022	0.097	1.00000	ug/L	135507		11/07/04 0056	pjg
	Endrin	0.097	U		0.017	0.097	1.00000	ug/L	135507		11/07/04 0056	pjg
	Endosulfan II	0.15	U		0.041	0.15	1.00000	ug/L	135507		11/07/04 0056	pjg
	4,4'-DDD	0.11	U		0.035	0.11	1.00000	ug/L	135507		11/07/04 0056	pjg
	Endosulfan sulfate	0.15	U		0.043	0.15	1.00000	ug/L	135507		11/07/04 0056	pjg
	4,4'-DDT	0.15	U		0.048	0.15	1.00000	ug/L	135507		11/07/04 0056	pjg
	Methoxychlor	0.58	U		0.17	0.58	1.00000	ug/L	135507		11/07/04 0056	pjg
	alpha-Chlordane	0.049	U		0.016	0.049	1.00000	ug/L	135507		11/07/04 0056	pjg
	gamma-Chlordane	0.097	U		0.017	0.097	1.00000	ug/L	135507		11/07/04 0056	pjg
	Endrin aldehyde	0.15	U		0.034	0.15	1.00000	ug/L	135507		11/07/04 0056	pjg
	Endrin ketone	0.097	U		0.028	0.097	1.00000	ug/L	135507		11/07/04 0056	pjg
	Toxaphene	0.49	U		0.14	0.49	1.00000	ug/L	135507		11/07/04 0056	pjg

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231611

Date:11/24/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LNWsw-050-SW
Date Sampled.....: 11/02/2004
Time Sampled.....: 11:30
Sample Matrix.....: Water

Laboratory Sample ID: 231611-3
Date Received.....: 11/03/2004
Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DI	DATE/TIME	TECH
8082	PCB Analysis											
	Aroclor 1016	0.58	U		0.17	0.58	1.00000	ug/L	135432		11/09/04 2228	bjt
	Aroclor 1221	1.3	U		0.41	1.3	1.00000	ug/L	135432		11/09/04 2228	bjt
	Aroclor 1232	1.3	U		0.34	1.3	1.00000	ug/L	135432		11/09/04 2228	bjt
	Aroclor 1242	1.3	U		0.42	1.3	1.00000	ug/L	135432		11/09/04 2228	bjt
	Aroclor 1248	1.5	U		0.47	1.5	1.00000	ug/L	135432		11/09/04 2228	bjt
	Aroclor 1254	1.3	U		0.34	1.3	1.00000	ug/L	135432		11/09/04 2228	bjt
	Aroclor 1260	0.58	U		0.17	0.58	1.00000	ug/L	135432		11/09/04 2228	bjt

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231611 Date:11/16/2004

CUSTOMER: NKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LNWsw-050-SW
Date Sampled.....: 11/02/2004
Time Sampled.....: 11:30
Sample Matrix.....: Water

Laboratory Sample ID: 231611-3
Date Received.....: 11/03/2004
Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics											
	Chloromethane	1.0	U		0.080	1.0	1.00000	ug/L	134095		11/11/04 1732	jdn
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	134095		11/11/04 1732	jdn
	Bromomethane	1.0	U		0.10	1.0	1.00000	ug/L	134095		11/11/04 1732	jdn
	Chloroethane	1.0	U		0.080	1.0	1.00000	ug/L	134095		11/11/04 1732	jdn
	1,1-Dichloroethene	1.0	U		0.12	1.0	1.00000	ug/L	134095		11/11/04 1732	jdn
	Carbon disulfide	5.0	U		0.20	5.0	1.00000	ug/L	134095		11/11/04 1732	jdn
	Acetone	10	U		1.8	10	1.00000	ug/L	134095		11/11/04 1732	jdn
	Methylene chloride	1.5	U		0.35	1.5	1.00000	ug/L	134095		11/11/04 1732	jdn
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	134095		11/11/04 1732	jdn
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	134095		11/11/04 1732	jdn
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	134095		11/11/04 1732	jdn
	2-Butanone (MEK)	10	U		1.2	10	1.00000	ug/L	134095		11/11/04 1732	jdn
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	134095		11/11/04 1732	jdn
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	134095		11/11/04 1732	jdn
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	134095		11/11/04 1732	jdn
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	134095		11/11/04 1732	jdn
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	134095		11/11/04 1732	jdn
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	134095		11/11/04 1732	jdn
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	134095		11/11/04 1732	jdn
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	134095		11/11/04 1732	jdn
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	134095		11/11/04 1732	jdn
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	134095		11/11/04 1732	jdn
	4-Methyl-2-pentanone (MIBK)	10	U		0.65	10	1.00000	ug/L	134095		11/11/04 1732	jdn
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	134095		11/11/04 1732	jdn
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	134095		11/11/04 1732	jdn
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	134095		11/11/04 1732	jdn
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	134095		11/11/04 1732	jdn
	2-Hexanone	10	U		0.53	10	1.00000	ug/L	134095		11/11/04 1732	jdn

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231611

Date:11/16/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LNWsw-05D-SW
Date Sampled.....: 11/02/2004
Time Sampled.....: 11:30
Sample Matrix.....: Water

Laboratory Sample ID: 231611-3
Date Received.....: 11/03/2004
Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	1.0	U		0.060	1.0	1.00000	ug/L	134095		11/11/04 1732	jdh
	1,2-Dibromoethane (EDB)	1.0	U		0.13	1.0	1.00000	ug/L	134095		11/11/04 1732	jdh
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	134095		11/11/04 1732	jdh
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	134095		11/11/04 1732	jdh
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	134095		11/11/04 1732	jdh
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	134095		11/11/04 1732	jdh
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	134095		11/11/04 1732	jdh
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	134095		11/11/04 1732	jdh
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	134095		11/11/04 1732	jdh
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	134095		11/11/04 1732	jdh
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	134095		11/11/04 1732	jdh

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

LABORATORY TEST RESULTS

Job Number: 231611 Date:11/29/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LWWsw-050-SW
Date Sampled.....: 11/02/2004
Time Sampled.....: 11:30
Sample Matrix.....: Water

Laboratory Sample ID: 231611-3
Date Received.....: 11/03/2004
Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8270C	Semivolatile Organics											
	Phenol, Low Level Water	4.9	U		0.34	4.9	1.00000	ug/L	134790		11/18/04 1354	dpk
	Bis(2-chloroethyl)ether, Low Level Water	2.0	U		0.29	2.0	1.00000	ug/L	134790		11/18/04 1354	dpk
	1,3-Dichlorobenzene, Low Level Water	2.0	U		0.42	2.0	1.00000	ug/L	134790		11/18/04 1354	dpk
	1,4-Dichlorobenzene, Low Level Water	2.0	U		0.32	2.0	1.00000	ug/L	134790		11/18/04 1354	dpk
	1,2-Dichlorobenzene, Low Level Water	2.0	U		0.34	2.0	1.00000	ug/L	134790		11/18/04 1354	dpk
	Benzyl alcohol, Low Level Water	20	U		2.2	20	1.00000	ug/L	134790		11/18/04 1354	dpk
	2-Methylphenol (o-cresol), Low Level Water	2.0	U		0.25	2.0	1.00000	ug/L	134790		11/18/04 1354	dpk
	2,2-oxybis (1-chloropropane), Low Level Water	2.0	U		0.27	2.0	1.00000	ug/L	134790		11/18/04 1354	dpk
	n-Nitroso-di-n-propylamine, Low Level Water	0.49	U		0.079	0.49	1.00000	ug/L	134790		11/18/04 1354	dpk
	Hexachloroethane, Low Level Water	4.9	U		0.60	4.9	1.00000	ug/L	134790		11/18/04 1354	dpk
	4-Methylphenol (m/p-cresol), Low Level Water	2.0	U		0.098	2.0	1.00000	ug/L	134790		11/18/04 1354	dpk
	2-Chlorophenol, Low Level Water	4.9	U		0.12	4.9	1.00000	ug/L	134790		11/18/04 1354	dpk
	Nitrobenzene, Low Level Water	0.98	U		0.16	0.98	1.00000	ug/L	134790		11/18/04 1354	dpk
	Bis(2-chloroethoxy)methane, Low Level Water	2.0	U		0.30	2.0	1.00000	ug/L	134790		11/18/04 1354	dpk
	1,2,4-Trichlorobenzene, Low Level Water	2.0	U		0.33	2.0	1.00000	ug/L	134790		11/18/04 1354	dpk
	Benzoic acid, Low Level Water	20	U		2.9	20	1.00000	ug/L	134790		11/18/04 1354	dpk
	Isophorone, Low Level Water	2.0	U		0.25	2.0	1.00000	ug/L	134790		11/18/04 1354	dpk
	2,4-Dimethylphenol, Low Level Water	9.8	U		1.3	9.8	1.00000	ug/L	134790		11/18/04 1354	dpk
	Hexachlorobutadiene, Low Level Water	4.9	U		0.63	4.9	1.00000	ug/L	134790		11/18/04 1354	dpk
	Naphthalene, Low Level Water	0.98	U		0.16	0.98	1.00000	ug/L	134790		11/18/04 1354	dpk
	2,4-Dichlorophenol, Low Level Water	9.8	U		0.89	9.8	1.00000	ug/L	134790		11/18/04 1354	dpk
	4-Chloroaniline, Low Level Water	9.8	U		2.7	9.8	1.00000	ug/L	134790		11/18/04 1354	dpk
	2,4,6-Trichlorophenol, Low Level Water	4.9	U		0.21	4.9	1.00000	ug/L	134790		11/18/04 1354	dpk
	2,4,5-Trichlorophenol, Low Level Water	9.8	U		1.4	9.8	1.00000	ug/L	134790		11/18/04 1354	dpk
	Hexachlorocyclopentadiene, Low Level Water	20	U	*	0.64	20	1.00000	ug/L	134790		11/18/04 1354	dpk
	2-Methylnaphthalene, Low Level Water	0.49	U		0.13	0.49	1.00000	ug/L	134790		11/18/04 1354	dpk
	2-Nitroaniline, Low Level Water	4.9	U		0.22	4.9	1.00000	ug/L	134790		11/18/04 1354	dpk
	2-Chloronaphthalene, Low Level Water	2.0	U		0.25	2.0	1.00000	ug/L	134790		11/18/04 1354	dpk

* In Description = Dry Wgt.

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Job Number: 231611

LABORATORY TEST RESULTS

Date:11/29/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LNWsw-050-SW
Date Sampled.....: 11/02/2004
Time Sampled.....: 11:30
Sample Matrix.....: Water

Laboratory Sample ID: 231611-3
Date Received.....: 11/03/2004
Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	4-Chloro-3-methylphenol, Low Level Water	9.8	U		2.4	9.8	1.00000	ug/L	134790		11/18/04 1354	dpk
	2,6-Dinitrotoluene, Low Level Water	0.49	U		0.11	0.49	1.00000	ug/L	134790		11/18/04 1354	dpk
	2-Nitrophenol, Low Level Water	9.8	U		0.80	9.8	1.00000	ug/L	134790		11/18/04 1354	dpk
	3-Nitroaniline, Low Level Water	9.8	U		2.1	9.8	1.00000	ug/L	134790		11/18/04 1354	dpk
	Dimethyl phthalate, Low Level Water	2.0	U		0.21	2.0	1.00000	ug/L	134790		11/18/04 1354	dpk
	2,4-Dinitrophenol, Low Level Water	20	U	*	3.2	20	1.00000	ug/L	134790		11/18/04 1354	dpk
	Acenaphthylene, Low Level Water	0.98	U		0.12	0.98	1.00000	ug/L	134790		11/18/04 1354	dpk
	2,4-Dinitrotoluene, Low Level Water	0.98	U		0.13	0.98	1.00000	ug/L	134790		11/18/04 1354	dpk
	Acenaphthene, Low Level Water	0.98	U		0.12	0.98	1.00000	ug/L	134790		11/18/04 1354	dpk
	Dibenzofuran, Low Level Water	2.0	U		0.13	2.0	1.00000	ug/L	134790		11/18/04 1354	dpk
	4-Nitrophenol, Low Level Water	20	U		3.6	20	1.00000	ug/L	134790		11/18/04 1354	dpk
	Fluorene, Low Level Water	0.98	U		0.13	0.98	1.00000	ug/L	134790		11/18/04 1354	dpk
	4-Nitroaniline, Low Level Water	9.8	U	*	2.3	9.8	1.00000	ug/L	134790		11/18/04 1354	dpk
	4-Bromophenyl phenyl ether, Low Level Water	4.9	U		0.19	4.9	1.00000	ug/L	134790		11/18/04 1354	dpk
	Hexachlorobenzene, Low Level Water	0.49	U		0.095	0.49	1.00000	ug/L	134790		11/18/04 1354	dpk
	Diethyl phthalate, Low Level Water	2.0	U		0.15	2.0	1.00000	ug/L	134790		11/18/04 1354	dpk
	4-Chlorophenyl phenyl ether, Low Level Water	4.9	U		0.74	4.9	1.00000	ug/L	134790		11/18/04 1354	dpk
	Pentachlorophenol, Low Level Water	9.8	U		1.7	9.8	1.00000	ug/L	134790		11/18/04 1354	dpk
	n-Nitrosodiphenylamine, Low Level Water	0.98	U		0.13	0.98	1.00000	ug/L	134790		11/18/04 1354	dpk
	4,6-Dinitro-2-methylphenol, Low Level Water	20	U		2.4	20	1.00000	ug/L	134790		11/18/04 1354	dpk
	Phenanthrene, Low Level Water	0.98	U		0.14	0.98	1.00000	ug/L	134790		11/18/04 1354	dpk
	Anthracene, Low Level Water	0.98	U		0.15	0.98	1.00000	ug/L	134790		11/18/04 1354	dpk
	Carbazole, Low Level Water	4.9	U		0.28	4.9	1.00000	ug/L	134790		11/18/04 1354	dpk
	Di-n-butyl phthalate, Low Level Water	4.9	U		0.35	4.9	1.00000	ug/L	134790		11/18/04 1354	dpk
	Fluoranthene, Low Level Water	0.98	U		0.14	0.98	1.00000	ug/L	134790		11/18/04 1354	dpk
	Pyrene, Low Level Water	0.98	U		0.12	0.98	1.00000	ug/L	134790		11/18/04 1354	dpk
	Butyl benzyl phthalate, Low Level Water	2.0	U		0.38	2.0	1.00000	ug/L	134790		11/18/04 1354	dpk
	Benzo(a)anthracene, Low Level Water	0.20	U		0.048	0.20	1.00000	ug/L	134790		11/18/04 1354	dpk
	Chrysene, Low Level Water	0.49	U		0.044	0.49	1.00000	ug/L	134790		11/18/04 1354	dpk

* In Description = Dry Wgt.

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Job Number: 231611

LABORATORY TEST RESULTS

Date: 11/29/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LNWsw-050-SW
Date Sampled.....: 11/02/2004
Time Sampled.....: 11:30
Sample Matrix.....: Water

Laboratory Sample ID: 231611-3
Date Received.....: 11/03/2004
Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	3,3-Dichlorobenzidine, Low Level Water	4.9	U		0.71	4.9	1.00000	ug/L	134790		11/18/04 1354	dpk
	Bis(2-ethylhexyl)phthalate, Low Level Water	15	U		3.8	15	1.00000	ug/L	134790		11/18/04 1354	dpk
	Di-n-octyl phthalate, Low Level Water	9.8	U	*	2.5	9.8	1.00000	ug/L	134790		11/18/04 1354	dpk
	Benzo(b)fluoranthene, Low Level Water	0.39	U		0.066	0.39	1.00000	ug/L	134790		11/18/04 1354	dpk
	Benzo(k)fluoranthene, Low Level Water	0.39	U		0.071	0.39	1.00000	ug/L	134790		11/18/04 1354	dpk
	Benzo(a)pyrene, Low Level Water	0.39	U		0.082	0.39	1.00000	ug/L	134790		11/18/04 1354	dpk
	Indeno(1,2,3-cd)pyrene, Low Level Water	0.39	U		0.084	0.39	1.00000	ug/L	134790		11/18/04 1354	dpk
	Dibenzo(a,h)anthracene, Low Level Water	0.39	U	*	0.13	0.39	1.00000	ug/L	134790		11/18/04 1354	dpk
	Benzo(ghi)perylene, Low Level Water	0.98	U		0.19	0.98	1.00000	ug/L	134790		11/18/04 1354	dpk

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

Job Number: 231611

LABORATORY TEST RESULTS

Date:11/17/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCs ATTN: Eric Ellis

Customer Sample ID: LNWsw-050-SW
Date Sampled.....: 11/02/2004
Time Sampled.....: 11:30
Sample Matrix.....: Water

Laboratory Sample ID: 231611-3
Date Received.....: 11/03/2004
Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8330	Explosives by 8330 (HPLC)											
	HMX	0.45	U		0.099	0.45	1.00000	ug/L	134563		11/05/04 2316	san
	RDX	0.29	U		0.093	0.29	1.00000	ug/L	134563		11/05/04 2316	san
	1,3,5-Trinitrobenzene	0.29	U		0.084	0.29	1.00000	ug/L	134563		11/05/04 2316	san
	1,3-Dinitrobenzene	0.29	U		0.080	0.29	1.00000	ug/L	134563		11/05/04 2316	san
	Nitrobenzene	0.23	U		0.064	0.23	1.00000	ug/L	134563		11/05/04 2316	san
	2,4,6-TNT	0.36	U		0.11	0.36	1.00000	ug/L	134563		11/05/04 2316	san
	Tetryl	1.1	U		0.24	1.1	1.00000	ug/L	134563		11/05/04 2316	san
	2,4-Dinitrotoluene	0.52	U		0.18	0.52	1.00000	ug/L	134563		11/05/04 2316	san
	2,6-Dinitrotoluene	0.62	U		0.21	0.62	1.00000	ug/L	134563		11/05/04 2316	san
	2-Amino-4,6-Dinitrotoluene	0.52	U		0.17	0.52	1.00000	ug/L	134563		11/05/04 2316	san
	4-Amino-2,6-Dinitrotoluene	0.48	U		0.16	0.48	1.00000	ug/L	134563		11/05/04 2316	san
	2-Nitrotoluene	0.45	U		0.13	0.45	1.00000	ug/L	134563		11/05/04 2316	san
	4-Nitrotoluene	0.45	U		0.15	0.45	1.00000	ug/L	134563		11/05/04 2316	san
	3-Nitrotoluene	0.45	U		0.15	0.45	1.00000	ug/L	134563		11/05/04 2316	san
8332M	NG/PETN by 8332M (HPLC)											
	Nitroglycerine	1.5	U		0.22	1.5	1.00000	ug/L	134577		11/09/04 0327	san

* In Description = Dry Wgt.

STL CHICAGO

Client Sample ID: LNWsw-050-SW

Trace Level Organic Compounds

Lot-Sample #...:	G4K030251-002	Work Order #...:	GV5WN1AC	Matrix.....:	WATER
Date Sampled...:	11/02/04 11:30	Date Received..:	11/03/04		
Prep Date.....:	11/08/04	Analysis Date..:	11/11/04		
Prep Batch #...:	4313492				
Dilution Factor:	1	Initial Wgt/Vol:	10 mL	Final Wgt/Vol..:	10 mL

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
Nitroguanidine	ND	20	ug/L	NONE UV/HPLC per

STL CHICAGO

Client Sample ID: LNWsw-050-SW

General Chemistry

Lot-Sample #...: G4K030251-002 **Work Order #...:** GV5WN **Matrix.....:** WATER
Date Sampled...: 11/02/04 **Date Received..:** 11/03/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	ND	0.50	mg/L	MCAWW 353.2	11/11-11/13/04	4316571
		MDL.....: 0.12				

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LABORATORY TEST RESULTS

Job Number: 231611

Date:11/19/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 ADCS ATTN: Eric Ellis

Customer Sample ID: LNWsw-051-SW
Date Sampled.....: 11/02/2004
Time Sampled.....: 09:45
Sample Matrix.....: Water

Laboratory Sample ID: 231611-1
Date Received.....: 11/03/2004
Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
7041	Antimony (GFAA)											
	Antimony	7.5	U		2.5	7.5	1	ug/L	133763		11/09/04 2019	daj
7060A	Arsenic (GFAA)											
	Arsenic	1.3	B		0.51	2.0	1	ug/L	134121		11/11/04 2146	daj
7421	Lead (GFAA)											
	Lead	3.0	U		0.79	3.0	1	ug/L	134350		11/12/04 2106	daj
7841	Thallium (GFAA)											
	Thallium	4.0	U		1.3	4.0	1	ug/L	134082		11/11/04 0137	daj
7470A	Mercury (CVAA)											
	Mercury	0.20	U		0.049	0.20	1	ug/L	134303		11/12/04 1300	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum	190			24	150	1	ug/L	133381		11/05/04 1542	tds
	Barium	53			1.5	10	1	ug/L	133381		11/05/04 1542	tds
	Beryllium	2.0	U		0.17	2.0	1	ug/L	133381		11/05/04 1542	tds
	Cadmium	2.0	U		0.44	2.0	1	ug/L	133381		11/05/04 1542	tds
	Calcium	32000		H	24	100	1	ug/L	133381		11/05/04 1542	tds
	Chromium	10	U		1.5	10	1	ug/L	133381		11/05/04 1542	tds
	Cobalt	5.0	U		1.0	5.0	1	ug/L	133381		11/05/04 1542	tds
	Copper	10	U		1.6	10	1	ug/L	133381		11/05/04 1542	tds
	Iron	1800			40	120	1	ug/L	133381		11/05/04 1542	tds
	Magnesium	8300			12	100	1	ug/L	133381		11/05/04 1542	tds
	Manganese	1700			0.71	10	1	ug/L	133381		11/05/04 1542	tds
	Nickel	10	U		1.9	10	1	ug/L	133381		11/05/04 1542	tds
	Potassium	2300			110	500	1	ug/L	133381		11/05/04 1542	tds

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231611

Date:11/19/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LHWsw-051-SW
Date Sampled.....: 11/02/2004
Time Sampled.....: 09:45
Sample Matrix.....: Water

Laboratory Sample ID: 231611-1
Date Received.....: 11/03/2004
Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DI	DATE/TIME	TECH
	Selenium	15	U		5.0	15	1	ug/L	133381		11/05/04 1542	tds
	Silver	10	U		3.1	10	1	ug/L	133381		11/05/04 1542	tds
	Sodium	3200			500	1500	1	ug/L	133381		11/05/04 1542	tds
	Vanadium	10	U		2.1	10	1	ug/L	133381		11/05/04 1542	tds
	Zinc	30	U		10	30	1	ug/L	133381		11/05/04 1542	tds

* In Description = Dry Wgt.

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Job Number: 231611

LABORATORY TEST RESULTS

Date:11/28/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LNWsw-051-SW
Date Sampled.....: 11/02/2004
Time Sampled.....: 09:45
Sample Matrix.....: Water

Laboratory Sample ID: 231611-1
Date Received.....: 11/03/2004
Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8081A	Organochlorine Pesticide Analysis											
	alpha-BHC	0.15	U		0.046	0.15	1.00000	ug/L	135507		11/07/04 0005	pjg
	beta-BHC	0.097	U		0.027	0.097	1.00000	ug/L	135507		11/07/04 0005	pjg
	delta-BHC	0.097	U		0.024	0.097	1.00000	ug/L	135507		11/07/04 0005	pjg
	gamma-BHC (Lindane)	0.15	U		0.041	0.15	1.00000	ug/L	135507		11/07/04 0005	pjg
	Heptachlor	0.15	U		0.040	0.15	1.00000	ug/L	135507		11/07/04 0005	pjg
	Aldrin	0.097	U		0.027	0.097	1.00000	ug/L	135507		11/07/04 0005	pjg
	Heptachlor epoxide	0.15	U		0.035	0.15	1.00000	ug/L	135507		11/07/04 0005	pjg
	Endosulfan I	0.097	U		0.020	0.097	1.00000	ug/L	135507		11/07/04 0005	pjg
	Dieldrin	0.097	U		0.017	0.097	1.00000	ug/L	135507		11/07/04 0005	pjg
	4,4'-DDE	0.097	U		0.022	0.097	1.00000	ug/L	135507		11/07/04 0005	pjg
	Endrin	0.097	U		0.017	0.097	1.00000	ug/L	135507		11/07/04 0005	pjg
	Endosulfan II	0.15	U		0.041	0.15	1.00000	ug/L	135507		11/07/04 0005	pjg
	4,4'-DDD	0.11	U		0.035	0.11	1.00000	ug/L	135507		11/07/04 0005	pjg
	Endosulfan sulfate	0.15	U		0.043	0.15	1.00000	ug/L	135507		11/07/04 0005	pjg
	4,4'-DDT	0.15	U		0.048	0.15	1.00000	ug/L	135507		11/07/04 0005	pjg
	Methoxychlor	0.58	U		0.17	0.58	1.00000	ug/L	135507		11/07/04 0005	pjg
	alpha-Chlordane	0.049	U		0.016	0.049	1.00000	ug/L	135507		11/07/04 0005	pjg
	gamma-Chlordane	0.097	U		0.017	0.097	1.00000	ug/L	135507		11/07/04 0005	pjg
	Endrin aldehyde	0.15	U		0.034	0.15	1.00000	ug/L	135507		11/07/04 0005	pjg
	Endrin ketone	0.097	U		0.028	0.097	1.00000	ug/L	135507		11/07/04 0005	pjg
	Toxaphene	0.49	U		0.14	0.49	1.00000	ug/L	135507		11/07/04 0005	pjg

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231611

Date:11/24/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LNWsw-051-SW
Date Sampled.....: 11/02/2004
Time Sampled.....: 09:45
Sample Matrix.....: Water

Laboratory Sample ID: 231611-1
Date Received.....: 11/03/2004
Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8082	PCB Analysis											
	Aroclor 1016	0.58	U		0.17	0.58	1.00000	ug/L	135432		11/09/04 2118	bjt
	Aroclor 1221	1.3	U		0.41	1.3	1.00000	ug/L	135432		11/09/04 2118	bjt
	Aroclor 1232	1.3	U		0.34	1.3	1.00000	ug/L	135432		11/09/04 2118	bjt
	Aroclor 1242	1.3	U		0.42	1.3	1.00000	ug/L	135432		11/09/04 2118	bjt
	Aroclor 1248	1.5	U		0.47	1.5	1.00000	ug/L	135432		11/09/04 2118	bjt
	Aroclor 1254	1.3	U		0.34	1.3	1.00000	ug/L	135432		11/09/04 2118	bjt
	Aroclor 1260	0.58	U		0.17	0.58	1.00000	ug/L	135432		11/09/04 2118	bjt

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231611 Date:11/16/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LNWsw-051-SW
Date Sampled.....: 11/02/2004
Time Sampled.....: 09:45
Sample Matrix.....: Water

Laboratory Sample ID: 231611-1
Date Received.....: 11/03/2004
Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics											
	Chloromethane	1.0	U		0.080	1.0	1.00000	ug/L	134095		11/11/04 1646	jdn
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	134095		11/11/04 1646	jdn
	Bromomethane	1.0	U		0.10	1.0	1.00000	ug/L	134095		11/11/04 1646	jdn
	Chloroethane	1.0	U		0.080	1.0	1.00000	ug/L	134095		11/11/04 1646	jdn
	1,1-Dichloroethene	1.0	U		0.12	1.0	1.00000	ug/L	134095		11/11/04 1646	jdn
	Carbon disulfide	5.0	U		0.20	5.0	1.00000	ug/L	134095		11/11/04 1646	jdn
	Acetone	10	U		1.8	10	1.00000	ug/L	134095		11/11/04 1646	jdn
	Methylene chloride	1.5	U		0.35	1.5	1.00000	ug/L	134095		11/11/04 1646	jdn
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	134095		11/11/04 1646	jdn
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	134095		11/11/04 1646	jdn
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	134095		11/11/04 1646	jdn
	2-Butanone (MEK)	10	U		1.2	10	1.00000	ug/L	134095		11/11/04 1646	jdn
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	134095		11/11/04 1646	jdn
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	134095		11/11/04 1646	jdn
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	134095		11/11/04 1646	jdn
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	134095		11/11/04 1646	jdn
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	134095		11/11/04 1646	jdn
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	134095		11/11/04 1646	jdn
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	134095		11/11/04 1646	jdn
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	134095		11/11/04 1646	jdn
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	134095		11/11/04 1646	jdn
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	134095		11/11/04 1646	jdn
	4-Methyl-2-pentanone (MIBK)	10	U		0.65	10	1.00000	ug/L	134095		11/11/04 1646	jdn
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	134095		11/11/04 1646	jdn
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	134095		11/11/04 1646	jdn
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	134095		11/11/04 1646	jdn
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	134095		11/11/04 1646	jdn
	2-Hexanone	10	U		0.53	10	1.00000	ug/L	134095		11/11/04 1646	jdn

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231611 Date:11/16/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LNWsw-051-SW
Date Sampled.....: 11/02/2004
Time Sampled.....: 09:45
Sample Matrix.....: Water

Laboratory Sample ID: 231611-1
Date Received.....: 11/03/2004
Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DI	DATE/TIME	TECH
	Dibromochloromethane	1.0	U		0.060	1.0	1.00000	ug/L	134095		11/11/04 1646	jdn
	1,2-Dibromoethane (EDB)	1.0	U		0.13	1.0	1.00000	ug/L	134095		11/11/04 1646	jdn
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	134095		11/11/04 1646	jdn
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	134095		11/11/04 1646	jdn
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	134095		11/11/04 1646	jdn
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	134095		11/11/04 1646	jdn
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	134095		11/11/04 1646	jdn
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	134095		11/11/04 1646	jdn
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	134095		11/11/04 1646	jdn
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	134095		11/11/04 1646	jdn
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	134095		11/11/04 1646	jdn

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231611

Date: 11/29/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LNWsw-051-SW
Date Sampled.....: 11/02/2004
Time Sampled.....: 09:45
Sample Matrix.....: Water

Laboratory Sample ID: 231611-1
Date Received.....: 11/03/2004
Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8270C	Semivolatile Organics											
	Phenol, Low Level Water	5.0	U		0.35	5.0	1.00000	ug/L	134790		11/18/04 1332	dpk
	Bis(2-chloroethyl)ether, Low Level Water	2.0	U		0.30	2.0	1.00000	ug/L	134790		11/18/04 1332	dpk
	1,3-Dichlorobenzene, Low Level Water	2.0	U		0.43	2.0	1.00000	ug/L	134790		11/18/04 1332	dpk
	1,4-Dichlorobenzene, Low Level Water	2.0	U		0.33	2.0	1.00000	ug/L	134790		11/18/04 1332	dpk
	1,2-Dichlorobenzene, Low Level Water	2.0	U		0.35	2.0	1.00000	ug/L	134790		11/18/04 1332	dpk
	Benzyl alcohol, Low Level Water	20	U		2.2	20	1.00000	ug/L	134790		11/18/04 1332	dpk
	2-Methylphenol (o-cresol), Low Level Water	2.0	U		0.26	2.0	1.00000	ug/L	134790		11/18/04 1332	dpk
	2,2-oxybis (1-chloropropane), Low Level Water	2.0	U		0.28	2.0	1.00000	ug/L	134790		11/18/04 1332	dpk
	n-Nitroso-di-n-propylamine, Low Level Water	0.50	U		0.081	0.50	1.00000	ug/L	134790		11/18/04 1332	dpk
	Hexachloroethane, Low Level Water	5.0	U		0.61	5.0	1.00000	ug/L	134790		11/18/04 1332	dpk
	4-Methylphenol (m/p-cresol), Low Level Water	2.0	U		0.10	2.0	1.00000	ug/L	134790		11/18/04 1332	dpk
	2-Chlorophenol, Low Level Water	5.0	U		0.12	5.0	1.00000	ug/L	134790		11/18/04 1332	dpk
	Nitrobenzene, Low Level Water	1.0	U		0.16	1.0	1.00000	ug/L	134790		11/18/04 1332	dpk
	Bis(2-chloroethoxy)methane, Low Level Water	2.0	U		0.31	2.0	1.00000	ug/L	134790		11/18/04 1332	dpk
	1,2,4-Trichlorobenzene, Low Level Water	2.0	U		0.34	2.0	1.00000	ug/L	134790		11/18/04 1332	dpk
	Benzoic acid, Low Level Water	20	U		3.0	20	1.00000	ug/L	134790		11/18/04 1332	dpk
	Isophorone, Low Level Water	2.0	U		0.26	2.0	1.00000	ug/L	134790		11/18/04 1332	dpk
	2,4-Dimethylphenol, Low Level Water	10	U		1.3	10	1.00000	ug/L	134790		11/18/04 1332	dpk
	Hexachlorobutadiene, Low Level Water	5.0	U		0.64	5.0	1.00000	ug/L	134790		11/18/04 1332	dpk
	Naphthalene, Low Level Water	1.0	U		0.16	1.0	1.00000	ug/L	134790		11/18/04 1332	dpk
	2,4-Dichlorophenol, Low Level Water	10	U		0.91	10	1.00000	ug/L	134790		11/18/04 1332	dpk
	4-Chloroaniline, Low Level Water	10	U		2.8	10	1.00000	ug/L	134790		11/18/04 1332	dpk
	2,4,6-Trichlorophenol, Low Level Water	5.0	U		0.21	5.0	1.00000	ug/L	134790		11/18/04 1332	dpk
	2,4,5-Trichlorophenol, Low Level Water	10	U		1.4	10	1.00000	ug/L	134790		11/18/04 1332	dpk
	Hexachlorocyclopentadiene, Low Level Water	20	U	*	0.65	20	1.00000	ug/L	134790		11/18/04 1332	dpk
	2-Methylnaphthalene, Low Level Water	0.50	U		0.13	0.50	1.00000	ug/L	134790		11/18/04 1332	dpk
	2-Nitroaniline, Low Level Water	5.0	U		0.22	5.0	1.00000	ug/L	134790		11/18/04 1332	dpk
	2-Chloronaphthalene, Low Level Water	2.0	U		0.26	2.0	1.00000	ug/L	134790		11/18/04 1332	dpk

* In Description = Dry Wgt.

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Job Number: 231611

LABORATORY TEST RESULTS

Date:11/29/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LNWsw-051-SW
Date Sampled.....: 11/02/2004
Time Sampled.....: 09:45
Sample Matrix.....: Water

Laboratory Sample ID: 231611-1
Date Received.....: 11/03/2004
Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	4-Chloro-3-methylphenol, Low Level Water	10	U		2.4	10	1.00000	ug/L	134790		11/18/04 1332	dpk
	2,6-Dinitrotoluene, Low Level Water	0.50	U		0.11	0.50	1.00000	ug/L	134790		11/18/04 1332	dpk
	2-Nitrophenol, Low Level Water	10	U		0.82	10	1.00000	ug/L	134790		11/18/04 1332	dpk
	3-Nitroaniline, Low Level Water	10	U		2.1	10	1.00000	ug/L	134790		11/18/04 1332	dpk
	Dimethyl phthalate, Low Level Water	2.0	U		0.21	2.0	1.00000	ug/L	134790		11/18/04 1332	dpk
	2,4-Dinitrophenol, Low Level Water	20	U	*	3.3	20	1.00000	ug/L	134790		11/18/04 1332	dpk
	Acenaphthylene, Low Level Water	1.0	U		0.12	1.0	1.00000	ug/L	134790		11/18/04 1332	dpk
	2,4-Dinitrotoluene, Low Level Water	1.0	U		0.13	1.0	1.00000	ug/L	134790		11/18/04 1332	dpk
	Acenaphthene, Low Level Water	1.0	U		0.12	1.0	1.00000	ug/L	134790		11/18/04 1332	dpk
	Dibenzofuran, Low Level Water	2.0	U		0.13	2.0	1.00000	ug/L	134790		11/18/04 1332	dpk
	4-Nitrophenol, Low Level Water	20	U		3.7	20	1.00000	ug/L	134790		11/18/04 1332	dpk
	Fluorene, Low Level Water	1.0	U		0.13	1.0	1.00000	ug/L	134790		11/18/04 1332	dpk
	4-Nitroaniline, Low Level Water	10	U	*	2.3	10	1.00000	ug/L	134790		11/18/04 1332	dpk
	4-Bromophenyl phenyl ether, Low Level Water	5.0	U		0.19	5.0	1.00000	ug/L	134790		11/18/04 1332	dpk
	Hexachlorobenzene, Low Level Water	0.50	U		0.097	0.50	1.00000	ug/L	134790		11/18/04 1332	dpk
	Diethyl phthalate, Low Level Water	2.0	U		0.15	2.0	1.00000	ug/L	134790		11/18/04 1332	dpk
	4-Chlorophenyl phenyl ether, Low Level Water	5.0	U		0.75	5.0	1.00000	ug/L	134790		11/18/04 1332	dpk
	Pentachlorophenol, Low Level Water	10	U		1.7	10	1.00000	ug/L	134790		11/18/04 1332	dpk
	n-Nitrosodiphenylamine, Low Level Water	1.0	U		0.13	1.0	1.00000	ug/L	134790		11/18/04 1332	dpk
	4,6-Dinitro-2-methylphenol, Low Level Water	20	U		2.4	20	1.00000	ug/L	134790		11/18/04 1332	dpk
	Phenanthrene, Low Level Water	1.0	U		0.14	1.0	1.00000	ug/L	134790		11/18/04 1332	dpk
	Anthracene, Low Level Water	1.0	U		0.15	1.0	1.00000	ug/L	134790		11/18/04 1332	dpk
	Carbazole, Low Level Water	5.0	U		0.29	5.0	1.00000	ug/L	134790		11/18/04 1332	dpk
	Di-n-butyl phthalate, Low Level Water	5.0	U		0.36	5.0	1.00000	ug/L	134790		11/18/04 1332	dpk
	Fluoranthene, Low Level Water	1.0	U		0.14	1.0	1.00000	ug/L	134790		11/18/04 1332	dpk
	Pyrene, Low Level Water	1.0	U		0.12	1.0	1.00000	ug/L	134790		11/18/04 1332	dpk
	Butyl benzyl phthalate, Low Level Water	2.0	U		0.39	2.0	1.00000	ug/L	134790		11/18/04 1332	dpk
	Benzo(a)anthracene, Low Level Water	0.20	U		0.049	0.20	1.00000	ug/L	134790		11/18/04 1332	dpk
	Chrysene, Low Level Water	0.50	U		0.045	0.50	1.00000	ug/L	134790		11/18/04 1332	dpk

* In Description = Dry Wgt.

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Job Number: 231611

LABORATORY TEST RESULTS

Date: 11/29/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LNWsw-051-SW
Date Sampled.....: 11/02/2004
Time Sampled.....: 09:45
Sample Matrix.....: Water

Laboratory Sample ID: 231611-1
Date Received.....: 11/03/2004
Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	3,3-Dichlorobenzidine, Low Level Water	5.0	U		0.72	5.0	1.00000	ug/L	134790		11/18/04 1332	dpk
	Bis(2-ethylhexyl)phthalate, Low Level Water	15	U		3.9	15	1.00000	ug/L	134790		11/18/04 1332	dpk
	Di-n-octyl phthalate, Low Level Water	10	U	*	2.5	10	1.00000	ug/L	134790		11/18/04 1332	dpk
	Benzo(b)fluoranthene, Low Level Water	0.40	U		0.067	0.40	1.00000	ug/L	134790		11/18/04 1332	dpk
	Benzo(k)fluoranthene, Low Level Water	0.40	U		0.072	0.40	1.00000	ug/L	134790		11/18/04 1332	dpk
	Benzo(a)pyrene, Low Level Water	0.40	U		0.084	0.40	1.00000	ug/L	134790		11/18/04 1332	dpk
	Indeno(1,2,3-cd)pyrene, Low Level Water	0.40	U		0.086	0.40	1.00000	ug/L	134790		11/18/04 1332	dpk
	Dibenzo(a,h)anthracene, Low Level Water	0.40	U	*	0.13	0.40	1.00000	ug/L	134790		11/18/04 1332	dpk
	Benzo(ghi)perylene, Low Level Water	1.0	U		0.19	1.0	1.00000	ug/L	134790		11/18/04 1332	dpk

* In Description = Dry Wgt.

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Job Number: 231611

LABORATORY TEST RESULTS

Date:11/17/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LNWsw-051-SW
Date Sampled.....: 11/02/2004
Time Sampled.....: 09:45
Sample Matrix.....: Water

Laboratory Sample ID: 231611-1
Date Received.....: 11/03/2004
Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8330	Explosives by 8330 (HPLC)											
	HMX	0.52	U		0.11	0.52	1.00000	ug/L	134563		11/05/04 2211	san
	RDX	0.33	U		0.11	0.33	1.00000	ug/L	134563		11/05/04 2211	san
	1,3,5-Trinitrobenzene	0.33	U		0.097	0.33	1.00000	ug/L	134563		11/05/04 2211	san
	1,3-Dinitrobenzene	0.33	U		0.092	0.33	1.00000	ug/L	134563		11/05/04 2211	san
	Nitrobenzene	0.27	U		0.073	0.27	1.00000	ug/L	134563		11/05/04 2211	san
	2,4,6-TNT	0.42	U		0.13	0.42	1.00000	ug/L	134563		11/05/04 2211	san
	Tetryl	1.3	U		0.27	1.3	1.00000	ug/L	134563		11/05/04 2211	san
	2,4-Dinitrotoluene	0.60	U		0.20	0.60	1.00000	ug/L	134563		11/05/04 2211	san
	2,6-Dinitrotoluene	0.72	U		0.24	0.72	1.00000	ug/L	134563		11/05/04 2211	san
	2-Amino-4,6-Dinitrotoluene	0.60	U		0.20	0.60	1.00000	ug/L	134563		11/05/04 2211	san
	4-Amino-2,6-Dinitrotoluene	0.55	U		0.19	0.55	1.00000	ug/L	134563		11/05/04 2211	san
	2-Nitrotoluene	0.52	U		0.16	0.52	1.00000	ug/L	134563		11/05/04 2211	san
	4-Nitrotoluene	0.52	U		0.17	0.52	1.00000	ug/L	134563		11/05/04 2211	san
	3-Nitrotoluene	0.52	U		0.17	0.52	1.00000	ug/L	134563		11/05/04 2211	san
8332M	NG/PETN by 8332M (HPLC)											
	Nitroglycerine	1.7	U		0.25	1.7	1.00000	ug/L	134577		11/09/04 0251	san

* In Description = Dry Wgt.

STL CHICAGO

Client Sample ID: LNWsw-051-SW

Trace Level Organic Compounds

Lot-Sample #...: G4K030251-001 Work Order #...: GV5WK1AC Matrix.....: WATER
Date Sampled...: 11/02/04 09:45 Date Received..: 11/03/04
Prep Date.....: 11/08/04 Analysis Date..: 11/11/04
Prep Batch #...: 4313492
Dilution Factor: 1 Initial Wgt/Vol: 10 mL Final Wgt/Vol..: 10 mL

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
Nitroguanidine	ND	20	ug/L	NONE UV/HPLC per

STL CHICAGO

Client Sample ID: LNWsw-051-SW

General Chemistry

Lot-Sample #...: G4K030251-001 **Work Order #...:** GV5WK **Matrix.....:** WATER
Date Sampled...: 11/02/04 **Date Received..:** 11/03/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	ND	0.50	mg/L	MCAWW 353.2	11/11-11/13/04	4316571
		MDL.....: 0.12				

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LABORATORY TEST RESULTS

Job Number: 232497

Date:12/20/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LNWsw-052-SW
Date Sampled.....: 12/06/2004
Time Sampled.....: 10:15
Sample Matrix.....: Water

Laboratory Sample ID: 232497-6
Date Received.....: 12/07/2004
Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	*	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
7041	Antimony (GFAA) Antimony	7.5		U	2.5	7.5	1	ug/L	136643		12/08/04 2046	daj
7060A	Arsenic (GFAA) Arsenic	2.0		U	0.51	2.0	1	ug/L	136622		12/08/04 1834	daj
7421	Lead (GFAA) Lead	3.0		U	0.79	3.0	1	ug/L	136730		12/09/04 1824	daj
7841	Thallium (GFAA) Thallium	4.0		U	1.3	4.0	1	ug/L	136776		12/09/04 1552	daj
7470A	Mercury (CVAA) Mercury	0.20		U	0.063	0.20	1	ug/L	137144		12/14/04 1445	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum	71		B	24	150	1	ug/L	137508		12/19/04 0629	tds
	Barium	23			1.3	10	1	ug/L	137508		12/19/04 0629	tds
	Beryllium	2.0		U	0.25	2.0	1	ug/L	137508		12/19/04 0629	tds
	Cadmium	2.0		U	0.25	2.0	1	ug/L	137508		12/19/04 0629	tds
	Calcium	28000			9.5	100	1	ug/L	137508		12/19/04 0629	tds
	Chromium	10		U	1.1	10	1	ug/L	137508		12/19/04 0629	tds
	Cobalt	5.0		U	0.80	5.0	1	ug/L	137508		12/19/04 0629	tds
	Copper	10		U	2.2	10	1	ug/L	137508		12/19/04 0629	tds
	Iron	1900			38	120	1	ug/L	137508		12/19/04 0629	tds
	Magnesium	6500			8.1	100	1	ug/L	137508		12/19/04 0629	tds
	Manganese	830			0.41	10	1	ug/L	137508		12/19/04 0629	tds
	Nickel	10		U	1.0	10	1	ug/L	137508		12/19/04 0629	tds
	Potassium	1700			66	500	1	ug/L	137508		12/19/04 0629	tds

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Date:12/20/2004

Job Number: 232497

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LNWsw-052-SW
Date Sampled.....: 12/06/2004
Time Sampled.....: 10:15
Sample Matrix.....: Water

Laboratory Sample ID: 232497-6
Date Received.....: 12/07/2004
Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium	15	U		3.0	15	1	ug/L	137508		12/19/04 0629	tds
	Silver	10	U		0.72	10	1	ug/L	137508		12/19/04 0629	tds
	Sodium	2300			490	1500	1	ug/L	137508		12/19/04 0629	tds
	Vanadium	10	U		1.0	10	1	ug/L	137508		12/19/04 0629	tds
	Zinc	3.5	B		1.6	30	1	ug/L	137508		12/19/04 0629	tds

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232497

Date: 12/21/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 AOCs

ATTN: Eric Ellis

Customer Sample ID: LNWsw-052-SW
Date Sampled.....: 12/06/2004
Time Sampled.....: 10:15
Sample Matrix.....: Water

Laboratory Sample ID: 232497-6
Date Received.....: 12/07/2004
Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8081A	Organochlorine Pesticide Analysis											
	alpha-BHC	0.14	U		0.045	0.14	1.00000	ug/L	137734		12/15/04 0106	kdl
	beta-BHC	0.095	U		0.027	0.095	1.00000	ug/L	137734		12/15/04 0106	kdl
	delta-BHC	0.095	U		0.024	0.095	1.00000	ug/L	137734		12/15/04 0106	kdl
	gamma-BHC (Lindane)	0.14	U		0.040	0.14	1.00000	ug/L	137734		12/15/04 0106	kdl
	Heptachlor	0.14	U		0.039	0.14	1.00000	ug/L	137734		12/15/04 0106	kdl
	Aldrin	0.095	U		0.027	0.095	1.00000	ug/L	137734		12/15/04 0106	kdl
	Heptachlor epoxide	0.14	U		0.034	0.14	1.00000	ug/L	137734		12/15/04 0106	kdl
	Endosulfan I	0.095	U		0.020	0.095	1.00000	ug/L	137734		12/15/04 0106	kdl
	Dieldrin	0.095	U		0.017	0.095	1.00000	ug/L	137734		12/15/04 0106	kdl
	4,4'-DDE	0.095	U		0.022	0.095	1.00000	ug/L	137734		12/15/04 0106	kdl
	Endrin	0.095	U		0.016	0.095	1.00000	ug/L	137734		12/15/04 0106	kdl
	Endosulfan II	0.14	U		0.040	0.14	1.00000	ug/L	137734		12/15/04 0106	kdl
	4,4'-DDD	0.10	U		0.034	0.10	1.00000	ug/L	137734		12/15/04 0106	kdl
	Endosulfan sulfate	0.14	U		0.042	0.14	1.00000	ug/L	137734		12/15/04 0106	kdl
	4,4'-DDT	0.14	U		0.047	0.14	1.00000	ug/L	137734		12/15/04 0106	kdl
	Methoxychlor	0.57	U		0.16	0.57	1.00000	ug/L	137734		12/15/04 0106	kdl
	alpha-Chlordane	0.048	U		0.015	0.048	1.00000	ug/L	137734		12/15/04 0106	kdl
	gamma-Chlordane	0.095	U		0.016	0.095	1.00000	ug/L	137734		12/15/04 0106	kdl
	Endrin aldehyde	0.14	U		0.033	0.14	1.00000	ug/L	137734		12/15/04 0106	kdl
	Endrin ketone	0.095	U		0.028	0.095	1.00000	ug/L	137734		12/15/04 0106	kdl
	Toxaphene	0.48	U		0.13	0.48	1.00000	ug/L	137734		12/15/04 0106	kdl

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232497

Date:12/20/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LNWsw-052-SW
Date Sampled.....: 12/06/2004
Time Sampled.....: 10:15
Sample Matrix.....: Water

Laboratory Sample ID: 232497-6
Date Received.....: 12/07/2004
Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8082	PCB Analysis											
	Aroclor 1016	0.57	U		0.17	0.57	1.00000	ug/L	137555		12/14/04 1959	bjt
	Aroclor 1221	1.2	U		0.40	1.2	1.00000	ug/L	137555		12/14/04 1959	bjt
	Aroclor 1232	1.2	U		0.33	1.2	1.00000	ug/L	137555		12/14/04 1959	bjt
	Aroclor 1242	1.2	U		0.41	1.2	1.00000	ug/L	137555		12/14/04 1959	bjt
	Aroclor 1248	1.4	U		0.46	1.4	1.00000	ug/L	137555		12/14/04 1959	bjt
	Aroclor 1254	1.2	U		0.33	1.2	1.00000	ug/L	137555		12/14/04 1959	bjt
	Aroclor 1260	0.57	U		0.16	0.57	1.00000	ug/L	137555		12/14/04 1959	bjt

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232497

Date: 12/18/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 AOCS

ATTN: Eric Ellis

Customer Sample ID: LNWsw-052-SW
Date Sampled.....: 12/06/2004
Time Sampled.....: 10:15
Sample Matrix.....: Water

Laboratory Sample ID: 232497-6
Date Received.....: 12/07/2004
Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics											
	Chloromethane	1.0	U		0.080	1.0	1.00000	ug/L	137286		12/16/04 0331	jdn
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	137286		12/16/04 0331	jdn
	Bromomethane	1.0	U		0.10	1.0	1.00000	ug/L	137286		12/16/04 0331	jdn
	Chloroethane	1.0	U		0.080	1.0	1.00000	ug/L	137286		12/16/04 0331	jdn
	1,1-Dichloroethene	1.0	U		0.12	1.0	1.00000	ug/L	137286		12/16/04 0331	jdn
	Carbon disulfide	5.0	U		0.20	5.0	1.00000	ug/L	137286		12/16/04 0331	jdn
	Acetone	10	U		1.8	10	1.00000	ug/L	137286		12/16/04 0331	jdn
	Methylene chloride	1.5	U		0.35	1.5	1.00000	ug/L	137286		12/16/04 0331	jdn
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	137286		12/16/04 0331	jdn
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	137286		12/16/04 0331	jdn
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	137286		12/16/04 0331	jdn
	2-Butanone (MEK)	10	U		1.2	10	1.00000	ug/L	137286		12/16/04 0331	jdn
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	137286		12/16/04 0331	jdn
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	137286		12/16/04 0331	jdn
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	137286		12/16/04 0331	jdn
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	137286		12/16/04 0331	jdn
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	137286		12/16/04 0331	jdn
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	137286		12/16/04 0331	jdn
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	137286		12/16/04 0331	jdn
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	137286		12/16/04 0331	jdn
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	137286		12/16/04 0331	jdn
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	137286		12/16/04 0331	jdn
	4-Methyl-2-pentanone (MIBK)	10	U		0.65	10	1.00000	ug/L	137286		12/16/04 0331	jdn
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	137286		12/16/04 0331	jdn
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	137286		12/16/04 0331	jdn
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	137286		12/16/04 0331	jdn
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	137286		12/16/04 0331	jdn
	2-Hexanone	10	U		0.53	10	1.00000	ug/L	137286		12/16/04 0331	jdn

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232497

Date:12/18/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LNWsw-052-SW
Date Sampled.....: 12/06/2004
Time Sampled.....: 10:15
Sample Matrix.....: Water

Laboratory Sample ID: 232497-6
Date Received.....: 12/07/2004
Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	1.0	U		0.060	1.0	1.00000	ug/L	137286		12/16/04 0331	jdn
	1,2-Dibromoethane (EDB)	1.0	U		0.13	1.0	1.00000	ug/L	137286		12/16/04 0331	jdn
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	137286		12/16/04 0331	jdn
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	137286		12/16/04 0331	jdn
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	137286		12/16/04 0331	jdn
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	137286		12/16/04 0331	jdn
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	137286		12/16/04 0331	jdn
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	137286		12/16/04 0331	jdn
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	137286		12/16/04 0331	jdn
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	137286		12/16/04 0331	jdn
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	137286		12/16/04 0331	jdn

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232497

Date: 12/20/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP T4 AOCS ATTN: Eric Ellis

Customer Sample ID: LNWsw-052-SW
Date Sampled.....: 12/06/2004
Time Sampled.....: 10:15
Sample Matrix.....: Water

Laboratory Sample ID: 232497-6
Date Received.....: 12/07/2004
Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8270C	Semivolatile Organics											
	Phenol, Low Level Water	4.7	U		0.33	4.7	1.00000	ug/L	137499		12/13/04 0733	dpk
	Bis(2-chloroethyl)ether, Low Level Water	1.9	U		0.28	1.9	1.00000	ug/L	137499		12/13/04 0733	dpk
	1,3-Dichlorobenzene, Low Level Water	1.9	U		0.41	1.9	1.00000	ug/L	137499		12/13/04 0733	dpk
	1,4-Dichlorobenzene, Low Level Water	1.9	U		0.31	1.9	1.00000	ug/L	137499		12/13/04 0733	dpk
	1,2-Dichlorobenzene, Low Level Water	1.9	U		0.33	1.9	1.00000	ug/L	137499		12/13/04 0733	dpk
	Benzyl alcohol, Low Level Water	19	U		2.1	19	1.00000	ug/L	137499		12/13/04 0733	dpk
	2-Methylphenol (o-cresol), Low Level Water	1.9	U		0.25	1.9	1.00000	ug/L	137499		12/13/04 0733	dpk
	2,2-oxybis (1-chloropropane), Low Level Water	1.9	U		0.26	1.9	1.00000	ug/L	137499		12/13/04 0733	dpk
	n-Nitroso-di-n-propylamine, Low Level Water	0.47	U		0.076	0.47	1.00000	ug/L	137499		12/13/04 0733	dpk
	Hexachloroethane, Low Level Water	4.7	U		0.58	4.7	1.00000	ug/L	137499		12/13/04 0733	dpk
	4-Methylphenol (m/p-cresol), Low Level Water	1.9	U		0.094	1.9	1.00000	ug/L	137499		12/13/04 0733	dpk
	2-Chlorophenol, Low Level Water	4.7	U		0.11	4.7	1.00000	ug/L	137499		12/13/04 0733	dpk
	Nitrobenzene, Low Level Water	0.94	U		0.15	0.94	1.00000	ug/L	137499		12/13/04 0733	dpk
	Bis(2-chloroethoxy)methane, Low Level Water	1.9	U		0.29	1.9	1.00000	ug/L	137499		12/13/04 0733	dpk
	1,2,4-Trichlorobenzene, Low Level Water	1.9	U		0.32	1.9	1.00000	ug/L	137499		12/13/04 0733	dpk
	Benzoic acid, Low Level Water	19	U		2.8	19	1.00000	ug/L	137499		12/13/04 0733	dpk
	Isophorone, Low Level Water	1.9	U		0.25	1.9	1.00000	ug/L	137499		12/13/04 0733	dpk
	2,4-Dimethylphenol, Low Level Water	9.4	U		1.2	9.4	1.00000	ug/L	137499		12/13/04 0733	dpk
	Hexachlorobutadiene, Low Level Water	4.7	U		0.60	4.7	1.00000	ug/L	137499		12/13/04 0733	dpk
	Naphthalene, Low Level Water	0.94	U		0.15	0.94	1.00000	ug/L	137499		12/13/04 0733	dpk
	2,4-Dichlorophenol, Low Level Water	9.4	U		0.86	9.4	1.00000	ug/L	137499		12/13/04 0733	dpk
	4-Chloroaniline, Low Level Water	9.4	U		2.6	9.4	1.00000	ug/L	137499		12/13/04 0733	dpk
	2,4,6-Trichlorophenol, Low Level Water	4.7	U		0.20	4.7	1.00000	ug/L	137499		12/13/04 0733	dpk
	2,4,5-Trichlorophenol, Low Level Water	9.4	U		1.3	9.4	1.00000	ug/L	137499		12/13/04 0733	dpk
	Hexachlorocyclopentadiene, Low Level Water	19	U	*	0.61	19	1.00000	ug/L	137499		12/13/04 0733	dpk
	2-Methylnaphthalene, Low Level Water	0.47	U		0.12	0.47	1.00000	ug/L	137499		12/13/04 0733	dpk
	2-Nitroaniline, Low Level Water	4.7	U		0.21	4.7	1.00000	ug/L	137499		12/13/04 0733	dpk
	2-Chloronaphthalene, Low Level Water	1.9	U		0.25	1.9	1.00000	ug/L	137499		12/13/04 0733	dpk

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232497

Date: 12/20/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric ELKIS

Customer Sample ID: LNWsw-052-SW
Date Sampled.....: 12/06/2004
Time Sampled.....: 10:15
Sample Matrix.....: Water

Laboratory Sample ID: 232497-6
Date Received.....: 12/07/2004
Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	4-Chloro-3-methylphenol, Low Level Water	9.4	U		2.3	9.4	1.00000	ug/L	137499		12/13/04 0733	dpk
	2,6-Dinitrotoluene, Low Level Water	0.47	U		0.10	0.47	1.00000	ug/L	137499		12/13/04 0733	dpk
	2-Nitrophenol, Low Level Water	9.4	U		0.77	9.4	1.00000	ug/L	137499		12/13/04 0733	dpk
	3-Nitroaniline, Low Level Water	9.4	U		2.0	9.4	1.00000	ug/L	137499		12/13/04 0733	dpk
	Dimethyl phthalate, Low Level Water	1.9	U		0.20	1.9	1.00000	ug/L	137499		12/13/04 0733	dpk
	2,4-Dinitrophenol, Low Level Water	19	U		3.1	19	1.00000	ug/L	137499		12/13/04 0733	dpk
	Acenaphthylene, Low Level Water	0.94	U		0.11	0.94	1.00000	ug/L	137499		12/13/04 0733	dpk
	2,4-Dinitrotoluene, Low Level Water	0.94	U		0.12	0.94	1.00000	ug/L	137499		12/13/04 0733	dpk
	Acenaphthene, Low Level Water	0.94	U		0.11	0.94	1.00000	ug/L	137499		12/13/04 0733	dpk
	Dibenzofuran, Low Level Water	1.9	U		0.12	1.9	1.00000	ug/L	137499		12/13/04 0733	dpk
	4-Nitrophenol, Low Level Water	19	U		3.5	19	1.00000	ug/L	137499		12/13/04 0733	dpk
	Fluorene, Low Level Water	0.94	U		0.12	0.94	1.00000	ug/L	137499		12/13/04 0733	dpk
	4-Nitroaniline, Low Level Water	9.4	U		2.2	9.4	1.00000	ug/L	137499		12/13/04 0733	dpk
	4-Bromophenyl phenyl ether, Low Level Water	4.7	U		0.18	4.7	1.00000	ug/L	137499		12/13/04 0733	dpk
	Hexachlorobenzene, Low Level Water	0.47	U		0.092	0.47	1.00000	ug/L	137499		12/13/04 0733	dpk
	Diethyl phthalate, Low Level Water	1.9	U		0.14	1.9	1.00000	ug/L	137499		12/13/04 0733	dpk
	4-Chlorophenyl phenyl ether, Low Level Water	4.7	U		0.71	4.7	1.00000	ug/L	137499		12/13/04 0733	dpk
	Pentachlorophenol, Low Level Water	9.4	U		1.6	9.4	1.00000	ug/L	137499		12/13/04 0733	dpk
	n-Nitrosodiphenylamine, Low Level Water	0.94	U		0.12	0.94	1.00000	ug/L	137499		12/13/04 0733	dpk
	4,6-Dinitro-2-methylphenol, Low Level Water	19	U		2.3	19	1.00000	ug/L	137499		12/13/04 0733	dpk
	Phenanthrene, Low Level Water	0.94	U		0.13	0.94	1.00000	ug/L	137499		12/13/04 0733	dpk
	Anthracene, Low Level Water	0.94	U		0.14	0.94	1.00000	ug/L	137499		12/13/04 0733	dpk
	Carbazole, Low Level Water	4.7	U		0.27	4.7	1.00000	ug/L	137499		12/13/04 0733	dpk
	Di-n-butyl phthalate, Low Level Water	4.7	U		0.34	4.7	1.00000	ug/L	137499		12/13/04 0733	dpk
	Fluoranthene, Low Level Water	0.94	U		0.13	0.94	1.00000	ug/L	137499		12/13/04 0733	dpk
	Pyrene, Low Level Water	0.94	U		0.11	0.94	1.00000	ug/L	137499		12/13/04 0733	dpk
	Butyl benzyl phthalate, Low Level Water	1.9	U		0.37	1.9	1.00000	ug/L	137499		12/13/04 0733	dpk
	Benzo(a)anthracene, Low Level Water	0.19	U		0.046	0.19	1.00000	ug/L	137499		12/13/04 0733	dpk
	Chrysene, Low Level Water	0.47	U		0.042	0.47	1.00000	ug/L	137499		12/13/04 0733	dpk

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232497

Date: 12/20/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LNWsw-052-SW
Date Sampled.....: 12/06/2004
Time Sampled.....: 10:15
Sample Matrix.....: Water

Laboratory Sample ID: 232497-6
Date Received.....: 12/07/2004
Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DI	DATE/TIME	TECH
	3,3-Dichlorobenzidine, Low Level Water	4.7	U		0.68	4.7	1.00000	ug/L	137499		12/13/04 0733	dpk
	Bis(2-ethylhexyl)phthalate, Low Level Water	14	U		3.7	14	1.00000	ug/L	137499		12/13/04 0733	dpk
	Di-n-octyl phthalate, Low Level Water	9.4	U		2.4	9.4	1.00000	ug/L	137499		12/13/04 0733	dpk
	Benzo(b)fluoranthene, Low Level Water	0.38	U		0.063	0.38	1.00000	ug/L	137499		12/13/04 0733	dpk
	Benzo(k)fluoranthene, Low Level Water	0.38	U		0.068	0.38	1.00000	ug/L	137499		12/13/04 0733	dpk
	Benzo(a)pyrene, Low Level Water	0.38	U		0.079	0.38	1.00000	ug/L	137499		12/13/04 0733	dpk
	Indeno(1,2,3-cd)pyrene, Low Level Water	0.38	U		0.081	0.38	1.00000	ug/L	137499		12/13/04 0733	dpk
	Dibenzo(a,h)anthracene, Low Level Water	0.38	U		0.12	0.38	1.00000	ug/L	137499		12/13/04 0733	dpk
	Benzo(ghi)perylene, Low Level Water	0.94	U		0.18	0.94	1.00000	ug/L	137499		12/13/04 0733	dpk

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232497

Date:12/21/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVARP 14 ADCS ATTN: Eric Ellis

Customer Sample ID: LNWsw-052-SW
Date Sampled.....: 12/06/2004
Time Sampled.....: 10:15
Sample Matrix.....: Water

Laboratory Sample ID: 232497-6
Date Received.....: 12/07/2004
Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8330	Explosives by 8330 (HPLC)											
	HMX	0.61	U		0.13	0.61	1.00000	ug/L	137651		12/15/04 1922	bdw
	RDX	0.39	U		0.13	0.39	1.00000	ug/L	137651		12/15/04 1922	bdw
	1,3,5-Trinitrobenzene	0.39	U		0.11	0.39	1.00000	ug/L	137651		12/15/04 1922	bdw
	1,3-Dinitrobenzene	0.39	U		0.11	0.39	1.00000	ug/L	137651		12/15/04 1922	bdw
	Nitrobenzene	0.31	U		0.087	0.31	1.00000	ug/L	137651		12/15/04 1922	bdw
	2,4,6-TNT	0.49	U		0.15	0.49	1.00000	ug/L	137651		12/15/04 1922	bdw
	Tetryl	1.5	U		0.32	1.5	1.00000	ug/L	137651		12/15/04 1922	bdw
	2,4-Dinitrotoluene	0.71	U		0.24	0.71	1.00000	ug/L	137651		12/15/04 1922	bdw
	2,6-Dinitrotoluene	0.85	U		0.28	0.85	1.00000	ug/L	137651		12/15/04 1922	bdw
	2-Amino-4,6-Dinitrotoluene	0.71	U		0.23	0.71	1.00000	ug/L	137651		12/15/04 1922	bdw
	4-Amino-2,6-Dinitrotoluene	0.65	U		0.22	0.65	1.00000	ug/L	137651		12/15/04 1922	bdw
	2-Nitrotoluene	0.61	U		0.18	0.61	1.00000	ug/L	137651		12/15/04 1922	bdw
	4-Nitrotoluene	0.61	U		0.20	0.61	1.00000	ug/L	137651		12/15/04 1922	bdw
	3-Nitrotoluene	0.61	U		0.20	0.61	1.00000	ug/L	137651		12/15/04 1922	bdw
8332M	NG/PETN by 8332M (HPLC)											
	Nitroglycerine	2.0	U	A MRL (2-20-04)	0.30	2.0	1.00000	ug/L	137646		12/09/04 0754	bdw

* In Description = Dry Wgt.

STL CHICAGO

Client Sample ID: LNWsw-052-SW

Trace Level Organic Compounds

Lot-Sample #...:	G4L070388-002	Work Order #...:	G0GPX1AC	Matrix.....:	WATER
Date Sampled...:	12/06/04 10:15	Date Received..:	12/07/04		
Prep Date.....:	12/13/04	Analysis Date..:	12/14/04		
Prep Batch #...:	4348574				
Dilution Factor:	1	Initial Wgt/Vol:	10 mL	Final Wgt/Vol..:	10 mL

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
Nitroguanidine	ND	20	ug/L	NONE UV/HPLC per

STL CHICAGO

Client Sample ID: LNWsw-052-SW

General Chemistry

Lot-Sample #...: G4L070388-002 Work Order #...: G0GPX Matrix.....: WATER
Date Sampled...: 12/06/04 Date Received..: 12/07/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	ND	0.50	mg/L	MCAWW 353.2	12/16-12/17/04	4352362
	MDL.....: 0.12					

STL Chicago is part of Severn Trent Laboratories, Inc.

LABORATORY TEST RESULTS

Date:12/20/2004

Job Number: 232497

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LNWsw-052-DUP
Date Sampled.....: 12/06/2004
Time Sampled.....: 10:15
Sample Matrix.....: Water

Laboratory Sample ID: 232497-7
Date Received.....: 12/07/2004
Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
7041	Antimony (GFAA) Antimony	7.5	U		2.5	7.5	1	ug/L	136643		12/08/04 2058	daj
7060A	Arsenic (GFAA) Arsenic	2.0	U		0.51	2.0	1	ug/L	136622		12/08/04 1846	daj
7421	Lead (GFAA) Lead	3.0	U		0.79	3.0	1	ug/L	136730		12/09/04 1847	daj
7841	Thallium (GFAA) Thallium	4.0	U		1.3	4.0	1	ug/L	136776		12/09/04 1605	daj
7470A	Mercury (CVAA) Mercury	0.20	U		0.063	0.20	1	ug/L	137144		12/14/04 1447	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum	71	B		24	150	1	ug/L	137508		12/19/04 0635	tds
	Barium	22			1.3	10	1	ug/L	137508		12/19/04 0635	tds
	Beryllium	2.0	U		0.25	2.0	1	ug/L	137508		12/19/04 0635	tds
	Cadmium	2.0	U		0.25	2.0	1	ug/L	137508		12/19/04 0635	tds
	Calcium	27000			9.5	100	1	ug/L	137508		12/19/04 0635	tds
	Chromium	10	U		1.1	10	1	ug/L	137508		12/19/04 0635	tds
	Cobalt	5.0	U		0.80	5.0	1	ug/L	137508		12/19/04 0635	tds
	Copper	10	U		2.2	10	1	ug/L	137508		12/19/04 0635	tds
	Iron	1900			38	120	1	ug/L	137508		12/19/04 0635	tds
	Magnesium	6400			8.1	100	1	ug/L	137508		12/19/04 0635	tds
	Manganese	820			0.41	10	1	ug/L	137508		12/19/04 0635	tds
	Nickel	10	U		1.0	10	1	ug/L	137508		12/19/04 0635	tds
	Potassium	1700			66	500	1	ug/L	137508		12/19/04 0635	tds

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232497

Date:12/20/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 ADCS

ATTN: Eric Ellis

Customer Sample ID: LNWsw-052-DUP
Date Sampled.....: 12/06/2004
Time Sampled.....: 10:15
Sample Matrix.....: Water

Laboratory Sample ID: 232497-7
Date Received.....: 12/07/2004
Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium	15	U		3.0	15	1	ug/L	137508		12/19/04 0635	tds
	Silver	10	U		0.72	10	1	ug/L	137508		12/19/04 0635	tds
	Sodium	2300			490	1500	1	ug/L	137508		12/19/04 0635	tds
	Vanadium	10	U		1.0	10	1	ug/L	137508		12/19/04 0635	tds
	Zinc	4.8	B		1.6	30	1	ug/L	137508		12/19/04 0635	tds

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

LABORATORY TEST RESULTS

Job Number: 232497

Date:12/21/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 AOCS

ATTN: Eric Ellis

Customer Sample ID: LNWsw-052-DUP
Date Sampled.....: 12/06/2004
Time Sampled.....: 10:15
Sample Matrix.....: Water

Laboratory Sample ID: 232497-7
Date Received.....: 12/07/2004
Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8081A	Organochlorine Pesticide Analysis											
	alpha-BHC	0.14	U		0.044	0.14	1.00000	ug/L	137734		12/15/04 0131	kdl
	beta-BHC	0.093	U		0.026	0.093	1.00000	ug/L	137734		12/15/04 0131	kdl
	delta-BHC	0.093	U		0.023	0.093	1.00000	ug/L	137734		12/15/04 0131	kdl
	gamma-BHC (Lindane)	0.14	U		0.039	0.14	1.00000	ug/L	137734		12/15/04 0131	kdl
	Heptachlor	0.14	U		0.038	0.14	1.00000	ug/L	137734		12/15/04 0131	kdl
	Aldrin	0.093	U		0.026	0.093	1.00000	ug/L	137734		12/15/04 0131	kdl
	Heptachlor epoxide	0.14	U		0.034	0.14	1.00000	ug/L	137734		12/15/04 0131	kdl
	Endosulfan I	0.093	U		0.020	0.093	1.00000	ug/L	137734		12/15/04 0131	kdl
	Dieldrin	0.093	U		0.017	0.093	1.00000	ug/L	137734		12/15/04 0131	kdl
	4,4'-DDE	0.093	U		0.021	0.093	1.00000	ug/L	137734		12/15/04 0131	kdl
	Endrin	0.093	U		0.016	0.093	1.00000	ug/L	137734		12/15/04 0131	kdl
	Endosulfan II	0.14	U		0.039	0.14	1.00000	ug/L	137734		12/15/04 0131	kdl
	4,4'-DDD	0.10	U		0.034	0.10	1.00000	ug/L	137734		12/15/04 0131	kdl
	Endosulfan sulfate	0.14	U		0.041	0.14	1.00000	ug/L	137734		12/15/04 0131	kdl
	4,4'-DDT	0.14	U		0.046	0.14	1.00000	ug/L	137734		12/15/04 0131	kdl
	Methoxychlor	0.56	U		0.16	0.56	1.00000	ug/L	137734		12/15/04 0131	kdl
	alpha-Chlordane	0.047	U		0.015	0.047	1.00000	ug/L	137734		12/15/04 0131	kdl
	gamma-Chlordane	0.093	U		0.016	0.093	1.00000	ug/L	137734		12/15/04 0131	kdl
	Endrin aldehyde	0.14	U		0.033	0.14	1.00000	ug/L	137734		12/15/04 0131	kdl
	Endrin ketone	0.093	U		0.027	0.093	1.00000	ug/L	137734		12/15/04 0131	kdl
	Toxaphene	0.47	U		0.13	0.47	1.00000	ug/L	137734		12/15/04 0131	kdl

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232497

Date:12/20/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LNWsw-052-DUP
Date Sampled.....: 12/06/2004
Time Sampled.....: 10:15
Sample Matrix.....: Water

Laboratory Sample ID: 232497-7
Date Received.....: 12/07/2004
Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8082	PCB Analysis											
	Aroclor 1016	0.56	U		0.17	0.56	1.00000	ug/L	137555		12/14/04 2023	bjt
	Aroclor 1221	1.2	U		0.39	1.2	1.00000	ug/L	137555		12/14/04 2023	bjt
	Aroclor 1232	1.2	U		0.33	1.2	1.00000	ug/L	137555		12/14/04 2023	bjt
	Aroclor 1242	1.2	U		0.40	1.2	1.00000	ug/L	137555		12/14/04 2023	bjt
	Aroclor 1248	1.4	U		0.45	1.4	1.00000	ug/L	137555		12/14/04 2023	bjt
	Aroclor 1254	1.2	U		0.33	1.2	1.00000	ug/L	137555		12/14/04 2023	bjt
	Aroclor 1260	0.56	U		0.16	0.56	1.00000	ug/L	137555		12/14/04 2023	bjt

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

LABORATORY TEST RESULTS

Job Number: 232497

Date:12/18/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LNWsw-052-DUP
Date Sampled.....: 12/06/2004
Time Sampled.....: 10:15
Sample Matrix.....: Water

Laboratory Sample ID: 232497-7
Date Received.....: 12/07/2004
Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics											
	Chloromethane	1.0	U		0.080	1.0	1.00000	ug/L	137286		12/16/04 0354	jdn
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	137286		12/16/04 0354	jdn
	Bromomethane	1.0	U		0.10	1.0	1.00000	ug/L	137286		12/16/04 0354	jdn
	Chloroethane	1.0	U		0.080	1.0	1.00000	ug/L	137286		12/16/04 0354	jdn
	1,1-Dichloroethene	1.0	U		0.12	1.0	1.00000	ug/L	137286		12/16/04 0354	jdn
	Carbon disulfide	5.0	U		0.20	5.0	1.00000	ug/L	137286		12/16/04 0354	jdn
	Acetone	10	U		1.8	10	1.00000	ug/L	137286		12/16/04 0354	jdn
	Methylene chloride	1.5	U		0.35	1.5	1.00000	ug/L	137286		12/16/04 0354	jdn
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	137286		12/16/04 0354	jdn
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	137286		12/16/04 0354	jdn
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	137286		12/16/04 0354	jdn
	2-Butanone (MEK)	10	U		1.2	10	1.00000	ug/L	137286		12/16/04 0354	jdn
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	137286		12/16/04 0354	jdn
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	137286		12/16/04 0354	jdn
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	137286		12/16/04 0354	jdn
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	137286		12/16/04 0354	jdn
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	137286		12/16/04 0354	jdn
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	137286		12/16/04 0354	jdn
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	137286		12/16/04 0354	jdn
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	137286		12/16/04 0354	jdn
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	137286		12/16/04 0354	jdn
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	137286		12/16/04 0354	jdn
	4-Methyl-2-pentanone (MIBK)	10	U		0.65	10	1.00000	ug/L	137286		12/16/04 0354	jdn
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	137286		12/16/04 0354	jdn
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	137286		12/16/04 0354	jdn
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	137286		12/16/04 0354	jdn
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	137286		12/16/04 0354	jdn
	2-Hexanone	10	U		0.53	10	1.00000	ug/L	137286		12/16/04 0354	jdn

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232497

Date: 12/18/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 AOCS

ATTN: Eric Ellis

Customer Sample ID: LNWsw-052-DUP
Date Sampled.....: 12/06/2004
Time Sampled.....: 10:15
Sample Matrix.....: Water

Laboratory Sample ID: 232497-7
Date Received.....: 12/07/2004
Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	1.0	U		0.060	1.0	1.00000	ug/L	137286		12/16/04 0354	jdn
	1,2-Dibromoethane (EDB)	1.0	U		0.13	1.0	1.00000	ug/L	137286		12/16/04 0354	jdn
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	137286		12/16/04 0354	jdn
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	137286		12/16/04 0354	jdn
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	137286		12/16/04 0354	jdn
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	137286		12/16/04 0354	jdn
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	137286		12/16/04 0354	jdn
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	137286		12/16/04 0354	jdn
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	137286		12/16/04 0354	jdn
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	137286		12/16/04 0354	jdn
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	137286		12/16/04 0354	jdn

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232497

Date:12/20/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP T4 AOCS

ATTN: Eric Ellis

Customer Sample ID: LNWsw-052-DUP
Date Sampled.....: 12/06/2004
Time Sampled.....: 10:15
Sample Matrix.....: Water

Laboratory Sample ID: 232497-7
Date Received.....: 12/07/2004
Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8270C	Semivolatile Organics											
	Phenol, Low Level Water	4.7	U		0.33	4.7	1.00000	ug/L	137499		12/13/04 0755	dpk
	Bis(2-chloroethyl)ether, Low Level Water	1.9	U		0.28	1.9	1.00000	ug/L	137499		12/13/04 0755	dpk
	1,3-Dichlorobenzene, Low Level Water	1.9	U		0.40	1.9	1.00000	ug/L	137499		12/13/04 0755	dpk
	1,4-Dichlorobenzene, Low Level Water	1.9	U		0.31	1.9	1.00000	ug/L	137499		12/13/04 0755	dpk
	1,2-Dichlorobenzene, Low Level Water	1.9	U		0.33	1.9	1.00000	ug/L	137499		12/13/04 0755	dpk
	Benzyl alcohol, Low Level Water	19	U		2.1	19	1.00000	ug/L	137499		12/13/04 0755	dpk
	2-Methylphenol (o-cresol), Low Level Water	1.9	U		0.24	1.9	1.00000	ug/L	137499		12/13/04 0755	dpk
	2,2-oxybis (1-chloropropane), Low Level Water	1.9	U		0.26	1.9	1.00000	ug/L	137499		12/13/04 0755	dpk
	n-Nitroso-di-n-propylamine, Low Level Water	0.47	U		0.076	0.47	1.00000	ug/L	137499		12/13/04 0755	dpk
	Hexachloroethane, Low Level Water	4.7	U		0.57	4.7	1.00000	ug/L	137499		12/13/04 0755	dpk
	4-Methylphenol (m/p-cresol), Low Level Water	1.9	U		0.093	1.9	1.00000	ug/L	137499		12/13/04 0755	dpk
	2-Chlorophenol, Low Level Water	4.7	U		0.11	4.7	1.00000	ug/L	137499		12/13/04 0755	dpk
	Nitrobenzene, Low Level Water	0.93	U		0.15	0.93	1.00000	ug/L	137499		12/13/04 0755	dpk
	Bis(2-chloroethoxy)methane, Low Level Water	1.9	U		0.29	1.9	1.00000	ug/L	137499		12/13/04 0755	dpk
	1,2,4-Trichlorobenzene, Low Level Water	1.9	U		0.32	1.9	1.00000	ug/L	137499		12/13/04 0755	dpk
	Benzoic acid, Low Level Water	19	U		2.8	19	1.00000	ug/L	137499		12/13/04 0755	dpk
	Isophorone, Low Level Water	1.9	U		0.24	1.9	1.00000	ug/L	137499		12/13/04 0755	dpk
	2,4-Dimethylphenol, Low Level Water	9.3	U		1.2	9.3	1.00000	ug/L	137499		12/13/04 0755	dpk
	Hexachlorobutadiene, Low Level Water	4.7	U		0.60	4.7	1.00000	ug/L	137499		12/13/04 0755	dpk
	Naphthalene, Low Level Water	0.93	U		0.15	0.93	1.00000	ug/L	137499		12/13/04 0755	dpk
	2,4-Dichlorophenol, Low Level Water	9.3	U		0.85	9.3	1.00000	ug/L	137499		12/13/04 0755	dpk
	4-Chloroaniline, Low Level Water	9.3	U		2.6	9.3	1.00000	ug/L	137499		12/13/04 0755	dpk
	2,4,6-Trichlorophenol, Low Level Water	4.7	U		0.20	4.7	1.00000	ug/L	137499		12/13/04 0755	dpk
	2,4,5-Trichlorophenol, Low Level Water	9.3	U		1.3	9.3	1.00000	ug/L	137499		12/13/04 0755	dpk
	Hexachlorocyclopentadiene, Low Level Water	19	U	*	0.61	19	1.00000	ug/L	137499		12/13/04 0755	dpk
	2-Methylnaphthalene, Low Level Water	0.47	U		0.12	0.47	1.00000	ug/L	137499		12/13/04 0755	dpk
	2-Nitroaniline, Low Level Water	4.7	U		0.21	4.7	1.00000	ug/L	137499		12/13/04 0755	dpk
	2-Chloronaphthalene, Low Level Water	1.9	U		0.24	1.9	1.00000	ug/L	137499		12/13/04 0755	dpk

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

LABORATORY TEST RESULTS

Job Number: 232497

Date: 12/20/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LNWsw-052-DUP
Date Sampled.....: 12/06/2004
Time Sampled.....: 10:15
Sample Matrix.....: Water

Laboratory Sample ID: 232497-7
Date Received.....: 12/07/2004
Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	4-Chloro-3-methylphenol, Low Level Water	9.3	U		2.2	9.3	1.00000	ug/L	137499		12/13/04 0755	dpk
	2,6-Dinitrotoluene, Low Level Water	0.47	U		0.10	0.47	1.00000	ug/L	137499		12/13/04 0755	dpk
	2-Nitrophenol, Low Level Water	9.3	U		0.77	9.3	1.00000	ug/L	137499		12/13/04 0755	dpk
	3-Nitroaniline, Low Level Water	9.3	U		2.0	9.3	1.00000	ug/L	137499		12/13/04 0755	dpk
	Dimethyl phthalate, Low Level Water	1.9	U		0.20	1.9	1.00000	ug/L	137499		12/13/04 0755	dpk
	2,4-Dinitrophenol, Low Level Water	19	U		3.1	19	1.00000	ug/L	137499		12/13/04 0755	dpk
	Acenaphthylene, Low Level Water	0.93	U		0.11	0.93	1.00000	ug/L	137499		12/13/04 0755	dpk
	2,4-Dinitrotoluene, Low Level Water	0.93	U		0.12	0.93	1.00000	ug/L	137499		12/13/04 0755	dpk
	Acenaphthene, Low Level Water	0.93	U		0.11	0.93	1.00000	ug/L	137499		12/13/04 0755	dpk
	Dibenzofuran, Low Level Water	1.9	U		0.12	1.9	1.00000	ug/L	137499		12/13/04 0755	dpk
	4-Nitrophenol, Low Level Water	19	U		3.5	19	1.00000	ug/L	137499		12/13/04 0755	dpk
	Fluorene, Low Level Water	0.93	U		0.12	0.93	1.00000	ug/L	137499		12/13/04 0755	dpk
	4-Nitroaniline, Low Level Water	9.3	U		2.1	9.3	1.00000	ug/L	137499		12/13/04 0755	dpk
	4-Bromophenyl phenyl ether, Low Level Water	4.7	U		0.18	4.7	1.00000	ug/L	137499		12/13/04 0755	dpk
	Hexachlorobenzene, Low Level Water	0.47	U		0.091	0.47	1.00000	ug/L	137499		12/13/04 0755	dpk
	Diethyl phthalate, Low Level Water	1.9	U		0.14	1.9	1.00000	ug/L	137499		12/13/04 0755	dpk
	4-Chlorophenyl phenyl ether, Low Level Water	4.7	U		0.70	4.7	1.00000	ug/L	137499		12/13/04 0755	dpk
	Pentachlorophenol, Low Level Water	9.3	U		1.6	9.3	1.00000	ug/L	137499		12/13/04 0755	dpk
	n-Nitrosodiphenylamine, Low Level Water	0.93	U		0.12	0.93	1.00000	ug/L	137499		12/13/04 0755	dpk
	4,6-Dinitro-2-methylphenol, Low Level Water	19	U		2.2	19	1.00000	ug/L	137499		12/13/04 0755	dpk
	Phenanthrene, Low Level Water	0.93	U		0.13	0.93	1.00000	ug/L	137499		12/13/04 0755	dpk
	Anthracene, Low Level Water	0.93	U		0.14	0.93	1.00000	ug/L	137499		12/13/04 0755	dpk
	Carbazole, Low Level Water	4.7	U		0.27	4.7	1.00000	ug/L	137499		12/13/04 0755	dpk
	Di-n-butyl phthalate, Low Level Water	4.7	U		0.34	4.7	1.00000	ug/L	137499		12/13/04 0755	dpk
	Fluoranthene, Low Level Water	0.93	U		0.13	0.93	1.00000	ug/L	137499		12/13/04 0755	dpk
	Pyrene, Low Level Water	0.93	U		0.11	0.93	1.00000	ug/L	137499		12/13/04 0755	dpk
	Butyl benzyl phthalate, Low Level Water	1.9	U		0.36	1.9	1.00000	ug/L	137499		12/13/04 0755	dpk
	Benzo(a)anthracene, Low Level Water	0.19	U		0.046	0.19	1.00000	ug/L	137499		12/13/04 0755	dpk
	Chrysene, Low Level Water	0.47	U		0.042	0.47	1.00000	ug/L	137499		12/13/04 0755	dpk

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232497

Date:12/20/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LNWsw-052-DUP
Date Sampled.....: 12/06/2004
Time Sampled.....: 10:15
Sample Matrix.....: Water

Laboratory Sample ID: 232497-7
Date Received.....: 12/07/2004
Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	3,3-Dichlorobenzidine, Low Level Water	4.7	U		0.67	4.7	1.00000	ug/L	137499		12/13/04 0755	dpk
	Bis(2-ethylhexyl)phthalate, Low Level Water	14	U		3.6	14	1.00000	ug/L	137499		12/13/04 0755	dpk
	Di-n-octyl phthalate, Low Level Water	9.3	U		2.3	9.3	1.00000	ug/L	137499		12/13/04 0755	dpk
	Benzo(b)fluoranthene, Low Level Water	0.37	U		0.063	0.37	1.00000	ug/L	137499		12/13/04 0755	dpk
	Benzo(k)fluoranthene, Low Level Water	0.37	U		0.067	0.37	1.00000	ug/L	137499		12/13/04 0755	dpk
	Benzo(a)pyrene, Low Level Water	0.37	U		0.079	0.37	1.00000	ug/L	137499		12/13/04 0755	dpk
	Indeno(1,2,3-cd)pyrene, Low Level Water	0.37	U		0.080	0.37	1.00000	ug/L	137499		12/13/04 0755	dpk
	Dibenzo(a,h)anthracene, Low Level Water	0.37	U		0.12	0.37	1.00000	ug/L	137499		12/13/04 0755	dpk
	Benzo(ghi)perylene, Low Level Water	0.93	U		0.18	0.93	1.00000	ug/L	137499		12/13/04 0755	dpk

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232497

Date:12/21/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LNWsw-052-DUP
Date Sampled.....: 12/06/2004
Time Sampled.....: 10:15
Sample Matrix.....: Water

Laboratory Sample ID: 232497-7
Date Received.....: 12/07/2004
Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8330	Explosives by 8330 (HPLC)											
	HMX	0.58	U		0.13	0.58	1.00000	ug/L	137651		12/15/04 1954	bdw
	RDX	0.37	U		0.12	0.37	1.00000	ug/L	137651		12/15/04 1954	bdw
	1,3,5-Trinitrobenzene	0.37	U		0.11	0.37	1.00000	ug/L	137651		12/15/04 1954	bdw
	1,3-Dinitrobenzene	0.37	U		0.10	0.37	1.00000	ug/L	137651		12/15/04 1954	bdw
	Nitrobenzene	0.30	U		0.082	0.30	1.00000	ug/L	137651		12/15/04 1954	bdw
	2,4,6-TNT	0.47	U		0.15	0.47	1.00000	ug/L	137651		12/15/04 1954	bdw
	Tetryl	1.5	U		0.31	1.5	1.00000	ug/L	137651		12/15/04 1954	bdw
	2,4-Dinitrotoluene	0.67	U		0.23	0.67	1.00000	ug/L	137651		12/15/04 1954	bdw
	2,6-Dinitrotoluene	0.80	U		0.27	0.80	1.00000	ug/L	137651		12/15/04 1954	bdw
	2-Amino-4,6-Dinitrotoluene	0.67	U		0.22	0.67	1.00000	ug/L	137651		12/15/04 1954	bdw
	4-Amino-2,6-Dinitrotoluene	0.62	U		0.21	0.62	1.00000	ug/L	137651		12/15/04 1954	bdw
	2-Nitrotoluene	0.58	U		0.17	0.58	1.00000	ug/L	137651		12/15/04 1954	bdw
	4-Nitrotoluene	0.58	U		0.19	0.58	1.00000	ug/L	137651		12/15/04 1954	bdw
	3-Nitrotoluene	0.58	U		0.19	0.58	1.00000	ug/L	137651		12/15/04 1954	bdw
8332M	NG/PETN by 8332M (HPLC)											
	Nitroglycerine	1.9	U	# MKC 12-30-04	0.28	1.9	1.00000	ug/L	137646		12/09/04 0830	bdw

* In Description = Dry Wgt.

STL CHICAGO

Client Sample ID: LNWsw-052-DUP

Trace Level Organic Compounds

Lot-Sample #...:	G4L070388-003	**Work Order #...:**	G0GP01AC	**Matrix.....:**	WATER
Date Sampled...:	12/06/04 10:15	**Date Received..:**	12/07/04		
Prep Date.....:	12/13/04	**Analysis Date..:**	12/14/04		
Prep Batch #...:	4348574				
Dilution Factor:	1	**Initial Wgt/Vol:**	10 mL	**Final Wgt/Vol..:**	10 mL

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
Nitroguanidine	ND	20	ug/L	NONE UV/HPLC per

STL CHICAGO

Client Sample ID: LNWsw-052-DUP

General Chemistry

Lot-Sample #...: G4L070388-003 Work Order #...: G0GP0 Matrix.....: WATER
Date Sampled...: 12/06/04 Date Received..: 12/07/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	ND	0.50	mg/L	MCAWW 353.2	12/16-12/17/04	4352362
	MDL.....: 0.12					

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Job Number: 232095

LABORATORY TEST RESULTS

Date:12/03/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: PIRsw-001-SW
Date Sampled.....: 11/17/2004
Time Sampled.....: 14:21
Sample Matrix.....: Water

Laboratory Sample ID: 232095-15
Date Received.....: 11/18/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
7041	Antimony (GFAA)											
	Antimony	7.5	U		2.5	7.5	1	ug/L	135231		11/22/04 1335	daj
7060A	Arsenic (GFAA)											
	Arsenic	0.69	B		0.51	2.0	1	ug/L	135115		11/21/04 1335	daj
7421	Lead (GFAA)											
	Lead	3.0	U		0.79	3.0	1	ug/L	135155		11/22/04 1144	daj
7841	Thallium (GFAA)											
	Thallium	4.0	U		1.3	4.0	1	ug/L	135201		11/23/04 0003	daj
7470A	Mercury (CVAA)											
	Mercury	0.20	U		0.049	0.20	1	ug/L	135633		11/29/04 1445	gak
6010B	Metals Analysis (ICAP Trace)											
	Aluminum	58	B		24	150	1	ug/L	135885		12/01/04 1844	tds
	Barium	30			1.3	10	1	ug/L	135885		12/01/04 1844	tds
	Beryllium	2.0	U		0.25	2.0	1	ug/L	135885		12/01/04 1844	tds
	Cadmium	2.0	U		0.25	2.0	1	ug/L	135885		12/01/04 1844	tds
	Calcium	35000			9.5	100	1	ug/L	135885		12/01/04 1844	tds
	Chromium	10	U		1.1	10	1	ug/L	135885		12/01/04 1844	tds
	Cobalt	5.0	U		0.80	5.0	1	ug/L	135885		12/01/04 1844	tds
	Copper	10	U		2.2	10	1	ug/L	135885		12/01/04 1844	tds
	Iron	1500			38	120	1	ug/L	135885		12/01/04 1844	tds
	Magnesium	9000			8.1	100	1	ug/L	135885		12/01/04 1844	tds
	Manganese	190			0.41	10	1	ug/L	135885		12/01/04 1844	tds
	Nickel	10	U		1.0	10	1	ug/L	135885		12/01/04 1844	tds
	Potassium	1400			66	500	1	ug/L	135885		12/01/04 1844	tds

* In Description = Dry Wgt.

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Job Number: 232095

LABORATORY TEST RESULTS

Date:12/03/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: PIRsw-001-SW
Date Sampled.....: 11/17/2004
Time Sampled.....: 14:21
Sample Matrix.....: Water

Laboratory Sample ID: 232095-15
Date Received.....: 11/18/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium	15	U		3.0	15	1	ug/L	135885		12/01/04 1844	tds
	Silver	10	U		0.72	10	1	ug/L	135885		12/01/04 1844	tds
	Sodium	4000			490	1500	1	ug/L	135885		12/01/04 1844	tds
	Vanadium	10	U		1.0	10	1	ug/L	135885		12/01/04 1844	tds
	Zinc	5.2	B		1.6	30	1	ug/L	135885		12/01/04 1844	tds

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232095 Date:12/14/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: PIRsw-001-SW
Date Sampled.....: 11/17/2004
Time Sampled.....: 14:21
Sample Matrix.....: Water

Laboratory Sample ID: 232095-15
Date Received.....: 11/18/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8081A	Organochlorine Pesticide Analysis											
	alpha-BHC	0.15	U		0.046	0.15	1.00000	ug/L	136547		11/28/04 1908	kdl
	beta-BHC	0.098	U		0.027	0.098	1.00000	ug/L	136547		11/28/04 1908	kdl
	delta-BHC	0.098	U		0.025	0.098	1.00000	ug/L	136547		11/28/04 1908	kdl
	gamma-BHC (Lindane)	0.15	U		0.041	0.15	1.00000	ug/L	136547		11/28/04 1908	kdl
	Heptachlor	0.15	U		0.040	0.15	1.00000	ug/L	136547		11/28/04 1908	kdl
	Aldrin	0.098	U		0.027	0.098	1.00000	ug/L	136547		11/28/04 1908	kdl
	Heptachlor epoxide	0.15	U		0.035	0.15	1.00000	ug/L	136547		11/28/04 1908	kdl
	Endosulfan I	0.098	U		0.021	0.098	1.00000	ug/L	136547		11/28/04 1908	kdl
	Dieldrin	0.098	U		0.018	0.098	1.00000	ug/L	136547		11/28/04 1908	kdl
	4,4'-DDE	0.098	U		0.023	0.098	1.00000	ug/L	136547		11/28/04 1908	kdl
	Endrin	0.098	U		0.017	0.098	1.00000	ug/L	136547		11/28/04 1908	kdl
	Endosulfan II	0.15	U		0.041	0.15	1.00000	ug/L	136547		11/28/04 1908	kdl
	4,4'-DDD	0.11	U		0.035	0.11	1.00000	ug/L	136547		11/28/04 1908	kdl
	Endosulfan sulfate	0.15	U		0.043	0.15	1.00000	ug/L	136547		11/28/04 1908	kdl
	4,4'-DDT	0.15	U		0.048	0.15	1.00000	ug/L	136547		11/28/04 1908	kdl
	Methoxychlor	0.59	U		0.17	0.59	1.00000	ug/L	136547		11/28/04 1908	kdl
	alpha-Chlordane	0.049	U		0.016	0.049	1.00000	ug/L	136547		11/28/04 1908	kdl
	gamma-Chlordane	0.098	U		0.017	0.098	1.00000	ug/L	136547		11/28/04 1908	kdl
	Endrin aldehyde	0.15	U		0.034	0.15	1.00000	ug/L	136547		11/28/04 1908	kdl
	Endrin ketone	0.098	U		0.028	0.098	1.00000	ug/L	136547		11/28/04 1908	kdl
	Toxaphene	0.49	U		0.14	0.49	1.00000	ug/L	136547		11/28/04 1908	kdl

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232095

Date:12/06/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCs ATTN: Eric Ellis

Customer Sample ID: PIRsw-001-SW
Date Sampled.....: 11/17/2004
Time Sampled.....: 14:21
Sample Matrix.....: Water

Laboratory Sample ID: 232095-15
Date Received.....: 11/18/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8082	PCB Analysis											
	Aroclor 1016	0.59	U		0.18	0.59	1.00000	ug/L	136116		11/24/04 1519	bjt
	Aroclor 1221	1.3	U		0.41	1.3	1.00000	ug/L	136116		11/24/04 1519	bjt
	Aroclor 1232	1.3	U		0.34	1.3	1.00000	ug/L	136116		11/24/04 1519	bjt
	Aroclor 1242	1.3	U		0.42	1.3	1.00000	ug/L	136116		11/24/04 1519	bjt
	Aroclor 1248	1.5	U		0.47	1.5	1.00000	ug/L	136116		11/24/04 1519	bjt
	Aroclor 1254	1.3	U		0.34	1.3	1.00000	ug/L	136116		11/24/04 1519	bjt
	Aroclor 1260	0.59	U		0.17	0.59	1.00000	ug/L	136116		11/24/04 1519	bjt

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232095 Date:11/30/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP T4 AOCS ATTN: Eric Ellis

Customer Sample ID: PIRsw-001-SW
Date Sampled.....: 11/17/2004
Time Sampled.....: 14:21
Sample Matrix.....: Water

Laboratory Sample ID: 232095-15
Date Received.....: 11/18/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics											
	Chloromethane	1.0	U	*	0.080	1.0	1.00000	ug/L	135563		11/24/04 0338	jdn
	Vinyl chloride	1.0	U		0.080	1.0	1.00000	ug/L	135563		11/24/04 0338	jdn
	Bromomethane	1.0	U		0.10	1.0	1.00000	ug/L	135563		11/24/04 0338	jdn
	Chloroethane	1.0	U		0.080	1.0	1.00000	ug/L	135563		11/24/04 0338	jdn
	1,1-Dichloroethene	1.0	U		0.12	1.0	1.00000	ug/L	135563		11/24/04 0338	jdn
	Carbon disulfide	5.0	U		0.20	5.0	1.00000	ug/L	135563		11/24/04 0338	jdn
	Acetone	10	U		1.8	10	1.00000	ug/L	135563		11/24/04 0338	jdn
	Methylene chloride	1.5	U		0.35	1.5	1.00000	ug/L	135563		11/24/04 0338	jdn
	trans-1,2-Dichloroethene	1.0	U		0.14	1.0	1.00000	ug/L	135563		11/24/04 0338	jdn
	1,1-Dichloroethane	1.0	U		0.11	1.0	1.00000	ug/L	135563		11/24/04 0338	jdn
	cis-1,2-Dichloroethene	1.0	U		0.090	1.0	1.00000	ug/L	135563		11/24/04 0338	jdn
	2-Butanone (MEK)	10	U		1.2	10	1.00000	ug/L	135563		11/24/04 0338	jdn
	Bromochloromethane	1.0	U		0.10	1.0	1.00000	ug/L	135563		11/24/04 0338	jdn
	Chloroform	1.0	U		0.11	1.0	1.00000	ug/L	135563		11/24/04 0338	jdn
	1,1,1-Trichloroethane	1.0	U		0.080	1.0	1.00000	ug/L	135563		11/24/04 0338	jdn
	Carbon tetrachloride	1.0	U		0.13	1.0	1.00000	ug/L	135563		11/24/04 0338	jdn
	Benzene	1.0	U		0.090	1.0	1.00000	ug/L	135563		11/24/04 0338	jdn
	1,2-Dichloroethane	1.0	U		0.090	1.0	1.00000	ug/L	135563		11/24/04 0338	jdn
	Trichloroethene	1.0	U		0.10	1.0	1.00000	ug/L	135563		11/24/04 0338	jdn
	1,2-Dichloropropane	1.0	U		0.12	1.0	1.00000	ug/L	135563		11/24/04 0338	jdn
	Bromodichloromethane	1.0	U		0.11	1.0	1.00000	ug/L	135563		11/24/04 0338	jdn
	cis-1,3-Dichloropropene	1.0	U		0.12	1.0	1.00000	ug/L	135563		11/24/04 0338	jdn
	4-Methyl-2-pentanone (MIBK)	10	U		0.65	10	1.00000	ug/L	135563		11/24/04 0338	jdn
	Toluene	1.0	U		0.10	1.0	1.00000	ug/L	135563		11/24/04 0338	jdn
	trans-1,3-Dichloropropene	1.0	U		0.15	1.0	1.00000	ug/L	135563		11/24/04 0338	jdn
	1,1,2-Trichloroethane	1.0	U		0.15	1.0	1.00000	ug/L	135563		11/24/04 0338	jdn
	Tetrachloroethene	1.0	U		0.090	1.0	1.00000	ug/L	135563		11/24/04 0338	jdn
	2-Hexanone	10	U		0.53	10	1.00000	ug/L	135563		11/24/04 0338	jdn

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232095 Date:11/30/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: PIRsw-001-SW
Date Sampled.....: 11/17/2004
Time Sampled.....: 14:21
Sample Matrix.....: Water

Laboratory Sample ID: 232095-15
Date Received.....: 11/18/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane	1.0	U		0.060	1.0	1.00000	ug/L	135563		11/24/04 0338	jdn
	1,2-Dibromoethane (EDB)	1.0	U		0.13	1.0	1.00000	ug/L	135563		11/24/04 0338	jdn
	Chlorobenzene	1.0	U		0.080	1.0	1.00000	ug/L	135563		11/24/04 0338	jdn
	Ethylbenzene	1.0	U		0.070	1.0	1.00000	ug/L	135563		11/24/04 0338	jdn
	m&p-Xylenes	2.0	U		0.18	2.0	1.00000	ug/L	135563		11/24/04 0338	jdn
	o-Xylene	1.0	U		0.080	1.0	1.00000	ug/L	135563		11/24/04 0338	jdn
	Styrene	1.0	U		0.13	1.0	1.00000	ug/L	135563		11/24/04 0338	jdn
	Bromoform	1.0	U		0.11	1.0	1.00000	ug/L	135563		11/24/04 0338	jdn
	1,1,2,2-Tetrachloroethane	1.0	U		0.090	1.0	1.00000	ug/L	135563		11/24/04 0338	jdn
	1,2-Dichloroethene (total)	1.0	U		0.23	1.0	1.00000	ug/L	135563		11/24/04 0338	jdn
	Xylenes (total)	1.0	U		0.28	1.0	1.00000	ug/L	135563		11/24/04 0338	jdn

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232095 Date: 12/08/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: PIRsw-001-SW
Date Sampled.....: 11/17/2004
Time Sampled.....: 14:21
Sample Matrix.....: Water

Laboratory Sample ID: 232095-15
Date Received.....: 11/18/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DI	DATE/TIME	TECH
8270C	Semivolatile Organics											
	Phenol, Low Level Water	4.8	U		0.34	4.8	1.00000	ug/L	136498		12/02/04 0029	dpk
	Bis(2-chloroethyl)ether, Low Level Water	1.9	U	*	0.29	1.9	1.00000	ug/L	136498		12/02/04 0029	dpk
	1,3-Dichlorobenzene, Low Level Water	1.9	U		0.41	1.9	1.00000	ug/L	136498		12/02/04 0029	dpk
	1,4-Dichlorobenzene, Low Level Water	1.9	U		0.32	1.9	1.00000	ug/L	136498		12/02/04 0029	dpk
	1,2-Dichlorobenzene, Low Level Water	1.9	U		0.34	1.9	1.00000	ug/L	136498		12/02/04 0029	dpk
	Benzyl alcohol, Low Level Water	19	U		2.1	19	1.00000	ug/L	136498		12/02/04 0029	dpk
	2-Methylphenol (o-cresol), Low Level Water	1.9	U		0.25	1.9	1.00000	ug/L	136498		12/02/04 0029	dpk
	2,2-oxybis (1-chloropropane), Low Level Water	1.9	U		0.27	1.9	1.00000	ug/L	136498		12/02/04 0029	dpk
	n-Nitroso-di-n-propylamine, Low Level Water	0.48	U		0.078	0.48	1.00000	ug/L	136498		12/02/04 0029	dpk
	Hexachloroethane, Low Level Water	4.8	U		0.59	4.8	1.00000	ug/L	136498		12/02/04 0029	dpk
	4-Methylphenol (m/p-cresol), Low Level Water	1.9	U		0.096	1.9	1.00000	ug/L	136498		12/02/04 0029	dpk
	2-Chlorophenol, Low Level Water	4.8	U		0.12	4.8	1.00000	ug/L	136498		12/02/04 0029	dpk
	Nitrobenzene, Low Level Water	0.96	U		0.15	0.96	1.00000	ug/L	136498		12/02/04 0029	dpk
	Bis(2-chloroethoxy)methane, Low Level Water	1.9	U		0.30	1.9	1.00000	ug/L	136498		12/02/04 0029	dpk
	1,2,4-Trichlorobenzene, Low Level Water	1.9	U		0.33	1.9	1.00000	ug/L	136498		12/02/04 0029	dpk
	Benzoic acid, Low Level Water	19	U		2.9	19	1.00000	ug/L	136498		12/02/04 0029	dpk
	Isophorone, Low Level Water	1.9	U		0.25	1.9	1.00000	ug/L	136498		12/02/04 0029	dpk
	2,4-Dimethylphenol, Low Level Water	9.6	U		1.2	9.6	1.00000	ug/L	136498		12/02/04 0029	dpk
	Hexachlorobutadiene, Low Level Water	4.8	U		0.62	4.8	1.00000	ug/L	136498		12/02/04 0029	dpk
	Naphthalene, Low Level Water	0.96	U		0.15	0.96	1.00000	ug/L	136498		12/02/04 0029	dpk
	2,4-Dichlorophenol, Low Level Water	9.6	U		0.87	9.6	1.00000	ug/L	136498		12/02/04 0029	dpk
	4-Chloroaniline, Low Level Water	9.6	U		2.7	9.6	1.00000	ug/L	136498		12/02/04 0029	dpk
	2,4,6-Trichlorophenol, Low Level Water	4.8	U		0.20	4.8	1.00000	ug/L	136498		12/02/04 0029	dpk
	2,4,5-Trichlorophenol, Low Level Water	9.6	U		1.3	9.6	1.00000	ug/L	136498		12/02/04 0029	dpk
	Hexachlorocyclopentadiene, Low Level Water	19	U	*	0.62	19	1.00000	ug/L	136498		12/02/04 0029	dpk
	2-Methylnaphthalene, Low Level Water	0.48	U		0.12	0.48	1.00000	ug/L	136498		12/02/04 0029	dpk
	2-Nitroaniline, Low Level Water	4.8	U		0.21	4.8	1.00000	ug/L	136498		12/02/04 0029	dpk
	2-Chloronaphthalene, Low Level Water	1.9	U		0.25	1.9	1.00000	ug/L	136498		12/02/04 0029	dpk

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232095 Date: 12/08/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: PIRsw-001-SW
Date Sampled.....: 11/17/2004
Time Sampled.....: 14:21
Sample Matrix.....: Water

Laboratory Sample ID: 232095-15
Date Received.....: 11/18/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	4-Chloro-3-methylphenol, Low Level Water	9.6	U		2.3	9.6	1.00000	ug/L	136498		12/02/04 0029	dpk
	2,6-Dinitrotoluene, Low Level Water	0.48	U		0.11	0.48	1.00000	ug/L	136498		12/02/04 0029	dpk
	2-Nitrophenol, Low Level Water	9.6	U		0.79	9.6	1.00000	ug/L	136498		12/02/04 0029	dpk
	3-Nitroaniline, Low Level Water	9.6	U		2.0	9.6	1.00000	ug/L	136498		12/02/04 0029	dpk
	Dimethyl phthalate, Low Level Water	1.9	U		0.20	1.9	1.00000	ug/L	136498		12/02/04 0029	dpk
	2,4-Dinitrophenol, Low Level Water	19	U		3.2	19	1.00000	ug/L	136498		12/02/04 0029	dpk
	Acenaphthylene, Low Level Water	0.96	U		0.12	0.96	1.00000	ug/L	136498		12/02/04 0029	dpk
	2,4-Dinitrotoluene, Low Level Water	0.96	U		0.12	0.96	1.00000	ug/L	136498		12/02/04 0029	dpk
	Acenaphthene, Low Level Water	0.96	U		0.12	0.96	1.00000	ug/L	136498		12/02/04 0029	dpk
	Dibenzofuran, Low Level Water	1.9	U		0.12	1.9	1.00000	ug/L	136498		12/02/04 0029	dpk
	4-Nitrophenol, Low Level Water	19	U		3.6	19	1.00000	ug/L	136498		12/02/04 0029	dpk
	Fluorene, Low Level Water	0.96	U		0.12	0.96	1.00000	ug/L	136498		12/02/04 0029	dpk
	4-Nitroaniline, Low Level Water	9.6	U		2.2	9.6	1.00000	ug/L	136498		12/02/04 0029	dpk
	4-Bromophenyl phenyl ether, Low Level Water	4.8	U		0.18	4.8	1.00000	ug/L	136498		12/02/04 0029	dpk
	Hexachlorobenzene, Low Level Water	0.48	U		0.093	0.48	1.00000	ug/L	136498		12/02/04 0029	dpk
	Diethyl phthalate, Low Level Water	1.9	U		0.14	1.9	1.00000	ug/L	136498		12/02/04 0029	dpk
	4-Chlorophenyl phenyl ether, Low Level Water	4.8	U		0.72	4.8	1.00000	ug/L	136498		12/02/04 0029	dpk
	Pentachlorophenol, Low Level Water	9.6	U		1.6	9.6	1.00000	ug/L	136498		12/02/04 0029	dpk
	n-Nitrosodiphenylamine, Low Level Water	0.96	U		0.12	0.96	1.00000	ug/L	136498		12/02/04 0029	dpk
	4,6-Dinitro-2-methylphenol, Low Level Water	19	U	*	2.3	19	1.00000	ug/L	136498		12/02/04 0029	dpk
	Phenanthrene, Low Level Water	0.96	U		0.13	0.96	1.00000	ug/L	136498		12/02/04 0029	dpk
	Anthracene, Low Level Water	0.96	U		0.14	0.96	1.00000	ug/L	136498		12/02/04 0029	dpk
	Carbazole, Low Level Water	4.8	U		0.28	4.8	1.00000	ug/L	136498		12/02/04 0029	dpk
	Di-n-butyl phthalate, Low Level Water	4.8	U		0.35	4.8	1.00000	ug/L	136498		12/02/04 0029	dpk
	Fluoranthene, Low Level Water	0.96	U		0.13	0.96	1.00000	ug/L	136498		12/02/04 0029	dpk
	Pyrene, Low Level Water	0.96	U		0.12	0.96	1.00000	ug/L	136498		12/02/04 0029	dpk
	Butyl benzyl phthalate, Low Level Water	1.9	U		0.37	1.9	1.00000	ug/L	136498		12/02/04 0029	dpk
	Benzo(a)anthracene, Low Level Water	0.19	U		0.047	0.19	1.00000	ug/L	136498		12/02/04 0029	dpk
	Chrysene, Low Level Water	0.48	U		0.043	0.48	1.00000	ug/L	136498		12/02/04 0029	dpk

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232095 Date: 12/08/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: PIRsw-001-SW
Date Sampled.....: 11/17/2004
Time Sampled.....: 14:21
Sample Matrix.....: Water

Laboratory Sample ID: 232095-15
Date Received.....: 11/18/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	3,3-Dichlorobenzidine, Low Level Water	4.8	U		0.69	4.8	1.00000	ug/L	136498		12/02/04 0029	dpk
	Bis(2-ethylhexyl)phthalate, Low Level Water	14	U	*	3.7	14	1.00000	ug/L	136498		12/02/04 0029	dpk
	Di-n-octyl phthalate, Low Level Water	9.6	U		2.4	9.6	1.00000	ug/L	136498		12/02/04 0029	dpk
	Benzo(b)fluoranthene, Low Level Water	0.38	U		0.064	0.38	1.00000	ug/L	136498		12/02/04 0029	dpk
	Benzo(k)fluoranthene, Low Level Water	0.38	U		0.069	0.38	1.00000	ug/L	136498		12/02/04 0029	dpk
	Benzo(a)pyrene, Low Level Water	0.38	U		0.081	0.38	1.00000	ug/L	136498		12/02/04 0029	dpk
	Indeno(1,2,3-cd)pyrene, Low Level Water	0.38	U		0.083	0.38	1.00000	ug/L	136498		12/02/04 0029	dpk
	Dibenzo(a,h)anthracene, Low Level Water	0.38	U		0.12	0.38	1.00000	ug/L	136498		12/02/04 0029	dpk
	Benzo(ghi)perylene, Low Level Water	0.96	U		0.18	0.96	1.00000	ug/L	136498		12/02/04 0029	dpk

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232095 Date:12/06/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCs ATTN: Eric Ellis

Customer Sample ID: PIRsw-001-SW
Date Sampled.....: 11/17/2004
Time Sampled.....: 14:21
Sample Matrix.....: Water

Laboratory Sample ID: 232095-15
Date Received.....: 11/18/2004
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8330	Explosives by 8330 (HPLC)											
	HMX	0.31	U		0.068	0.31	1.00000	ug/L	136193		11/30/04 1011	san
	RDX	0.20	U	*	0.064	0.20	1.00000	ug/L	136193		11/30/04 1011	san
	1,3,5-Trinitrobenzene	0.20	U		0.058	0.20	1.00000	ug/L	136193		11/30/04 1011	san
	1,3-Dinitrobenzene	0.20	U		0.055	0.20	1.00000	ug/L	136193		11/30/04 1011	san
	Nitrobenzene	0.16	U		0.044	0.16	1.00000	ug/L	136193		11/30/04 1011	san
	2,4,6-TNT	0.25	U		0.078	0.25	1.00000	ug/L	136193		11/30/04 1011	san
	Tetryl	0.78	U		0.16	0.78	1.00000	ug/L	136193		11/30/04 1011	san
	2,4-Dinitrotoluene	0.36	U		0.12	0.36	1.00000	ug/L	136193		11/30/04 1011	san
	2,6-Dinitrotoluene	0.43	U		0.14	0.43	1.00000	ug/L	136193		11/30/04 1011	san
	2-Amino-4,6-Dinitrotoluene	0.36	U		0.12	0.36	1.00000	ug/L	136193		11/30/04 1011	san
	4-Amino-2,6-Dinitrotoluene	0.33	U		0.11	0.33	1.00000	ug/L	136193		11/30/04 1011	san
	2-Nitrotoluene	0.31	U		0.093	0.31	1.00000	ug/L	136193		11/30/04 1011	san
	4-Nitrotoluene	0.31	U		0.10	0.31	1.00000	ug/L	136193		11/30/04 1011	san
	3-Nitrotoluene	0.31	U		0.10	0.31	1.00000	ug/L	136193		11/30/04 1011	san
8332M	NG/PETN by 8332M (HPLC)											
	Nitroglycerine	1.0	U		0.15	1.0	1.00000	ug/L	136195		11/21/04 1147	san

* In Description = Dry Wgt.

STL CHICAGO

Client Sample ID: PIRsw-001-SW

Trace Level Organic Compounds

Lot-Sample #...:	G4K180473-003	Work Order #...:	GXC901AC	Matrix.....:	WATER
Date Sampled...:	11/17/04 14:21	Date Received..:	11/18/04		
Prep Date.....:	11/30/04	Analysis Date..:	11/30/04		
Prep Batch #...:	4335319				
Dilution Factor:	1	Initial Wgt/Vol:	10 mL	Final Wgt/Vol..:	10 mL

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
Nitroguanidine	ND	20	ug/L	NONE UV/HPLC per

STL CHICAGO

Client Sample ID: PIRsw-001-SW

General Chemistry

Lot-Sample #...: G4K180473-003 **Work Order #...:** GXC90 **Matrix.....:** WATER
Date Sampled...: 11/17/04 14:21 **Date Received..:** 11/18/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	ND	0.50	mg/L	MCAWW 353.2	11/20-11/23/04	4325114

Dilution Factor: 1 Initial Wgt/Vol: 100 mL Final Wgt/Vol..: 40 mL
MDL.....: 0.12

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Job Number: 232497

LABORATORY TEST RESULTS

Date:01/04/2005

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LL5sw-007-SW
Date Sampled.....: 12/06/2004
Time Sampled.....: 09:30
Sample Matrix.....: Water

Laboratory Sample ID: 232497-3
Date Received.....: 12/07/2004
Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
353.2	Nitrogen, NO2, NO3 (Auto Cd Red.) Nitrate as N (NO3-N)	2600			110	400	2000	mg/L	137399		12/17/04 1443	kd

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232497

Date:12/20/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCS ATTN: Eric Ellis

Customer Sample ID: LL5sw-007-SW
Date Sampled.....: 12/06/2004
Time Sampled.....: 09:30
Sample Matrix.....: Water

Laboratory Sample ID: 232497-3
Date Received.....: 12/07/2004
Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
7041	Antimony (GFAA)											
	Antimony	7.5	U		2.5	7.5	1	ug/L	136643		12/08/04 1548	daj
7060A	Arsenic (GFAA)											
	Arsenic	2.0	U		0.51	2.0	1	ug/L	136622		12/08/04 1723	daj
7421	Lead (GFAA)											
	Lead	3.0	U		0.79	3.0	1	ug/L	136730		12/09/04 1709	daj
7841	Thallium (GFAA)											
	Thallium	4.0	U		1.3	4.0	1	ug/L	136776		12/09/04 1429	daj
7470A	Mercury (CVAA)											
	Mercury	0.20	U		0.063	0.20	1	ug/L	137144		12/14/04 1434	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum	620			24	150	1	ug/L	137508		12/19/04 0521	tds
	Barium	28			1.3	10	1	ug/L	137508		12/19/04 0521	tds
	Beryllium	2.0	U		0.25	2.0	1	ug/L	137508		12/19/04 0521	tds
	Cadmium	2.0	U		0.25	2.0	1	ug/L	137508		12/19/04 0521	tds
	Calcium	33000			9.5	100	1	ug/L	137508		12/19/04 0521	tds
	Chromium	1.2	B		1.1	10	1	ug/L	137508		12/19/04 0521	tds
	Cobalt	5.0	U		0.80	5.0	1	ug/L	137508		12/19/04 0521	tds
	Copper	10	U		2.2	10	1	ug/L	137508		12/19/04 0521	tds
	Iron	530			38	120	1	ug/L	137508		12/19/04 0521	tds
	Magnesium	1800			8.1	100	1	ug/L	137508		12/19/04 0521	tds
	Manganese	63			0.41	10	1	ug/L	137508		12/19/04 0521	tds
	Nickel	10	U		1.0	10	1	ug/L	137508		12/19/04 0521	tds
	Potassium	1100			66	500	1	ug/L	137508		12/19/04 0521	tds

* In Description = Dry Wgt.