ppb
ENVIRONMENTAL LABORATORIES, INC.

June 23, 2000

Mr. Jim Riley
P.D. Environmental Branch
400 West Bay Street
CESAJ-PD-E
Jacksonville, FL 32202-0019

RE: Contract DACW17-97-D-0001, Delivery Order 0053

Dear Mr. Riley:

Enclosed are the results of the analytical testing for 31 groundwater samples from the S-332B Project Site. These samples were collected March 30 - April 4, 2000. Note that all of these samples were collected before pumping operations were started. Specific monitoring well locations are indicated on the enclosed map. A list of well names and descriptions is also provided.

If you have any questions concerning this report, please contact me at (352) 377-2349.

Sincerely,

Tom Park

Tom Park
President

MTP:ddc

Enclosures

5821 SW ARCHER ROAD, GAINESVILLE, FL 32608 (352) 377-2349 Fax (352) 395-6639 ppb@ppb-envlabs.cor

S332B Project Site Wells

Well Names	Descriptions
RET-ND	Deep well inside the retention area, slightly north of the center of the retention area.
RET-NS	Shallow well inside the retention area, slightly north of the center of the retention area.
RET-SW	Well inside the retention area located near the southwest corner.
RET-SE	Well inside the retention area located near the southeast corner.
North Well	Well directly north of the retention area.
South Well	Well directly south of the retention area.
West-D	Deep well directly west of the retention area.
West-S	Shallow well directly west of the retention area.
NE-S	Shallow well approximately midway between the northeast corner of the retention area and S332B.
NE-D	Deep well approximately midway between the northeast corner of the retention area and S332B.

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S332B WELL LOCATIONS MAP

(IN PROGRESS)

321 SW ARCHER ROAD, GAINESVILLE, FL 32608 (352) 377-2349 Fax (352) 395-6639 ppb@ppb-envlabs.c

Table 1. COE S332B Monitoring Wells Samples March 30, 2000 (Page 1 of 6)

STATION ID	LAB NO.	TOC	CL_	COLOR	COLIF_FEC	F__UND_	NH3	NH3_UNION
		mg/L	mg/L	cpu	col./100mL	mg/L	mg/L	mg/L
RET-ND	182701	9.74	45.8	15	<1	<0.20	0.452	<0.002
RET-NS	182702	9.68	43.5	25	2	0.24	0.442	0.004
RET-SW	182703	12.5	44.2	25	<1	<0.20	0.462	<0.002
RET-SE	182704	9.93	39.7	20	<1	<0.20	0.445	<0.002

Table 1. COE S332B Monitoring Wells Samples March 30, 2000 (Page 2 of 6)

STATION ID	LAB NO.	TKN	TON	NO2_NO3	NO2	NO3	NITROGEN_T	TP
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
RET-ND	182701	0.92	0.47	<0.004	<0.003	<0.004	0.92	0.076
RET-NS	182702	1.00	0.56	0.005	<0.003	0.005	1.00	0.171
RET-SW	182703	0.92	0.46	<0.004	<0.003	<0.004	0.92	0.151
RET-SE	182704	0.96	0.52	0.009	<0.003	0.009	0.97	0.145

Table 1. COE S332B Monitoring Wells Samples March 30, 2000 (Page 3 of 6)

STATION ID	LAB NO.	OP	TSS	SO4	TURB	AS_T_ICP	BA_T_ICP	BE_T_ICP	CD_T_ICP
		mg/L	mg/L	mg/L	ntu	ug/L	ug/L	ug/L	ug/L
RET-ND	182701	0.046	4	<1.0	2.5	<10	35.4	<0.4	<0.5
RET-NS	182702	0.122	55	4.8	54	<10	44.6	<0.4	<0.5
RET-SW	182703	0.104	8	3.4	4.4	<10	43.8	<0.4	<0.5
RET-SE	182704	0.109	34	<1.0	19	<10	43.3	<0.4	<0.5

Table 1. COE S332B Monitoring Wells Samples March 30, 2000 (Page 4 of 6)

STATION ID	LAB NO.
RET-ND	182701

Table 1. COE S332B Monitoring Wells Samples March 30, 2000 (Page 5 of 6)

STATION ID	LAB NO.	MN_T_ICP	HG_T_CVAA	NI_T_ICP	K_T_FLAA	SE_T_ICP	AG_T_ICP
		ug/L	ug/L	ug/L	mg/L	ug/L	ug/L
RET-ND	182701	7.9	<0.10	<2.0	0.38	<2.0	<0.10
RET-NS	182702	5.4	<0.10	<2.0	1.47	<2.0	<0.10
RET-SW	182703	8.0	<0.10	<2.0	0.57	<2.0	<0.10
RET-SE	182704	10.6	<0.10	<2.0	0.53	<2.0	<0.10

Table 1. COE S332B Monitoring Wells Samples March 30, 2000 (Page 6 of 6)

STATION ID	LAB NO.	NA_T_ICP	TL_T_ICP	ZN_T_ICP
		mg/L	ug/L	ug/L
RET-ND	182701	27.8	<5.0	<2.0
RET-NS	182702	28.4	<5.0	2.2
RET-SW	182703	27.6	<5.0	2.3
RET-SE	182704	24.0	<5.0	2.2

Table 2. COE S332B Monitoring Wells Sampled March 31, 2000 (Page 1 of 7)

STATION ID	LAB NO.	TOC	CL_	COLOR	COLIF_FEC	F__UND_	NH3
		mg/L	mg/L	cpu	col./100mL	mg/L	mg/L
RET-ND	182824	9.24	44.9	20	<1	<0.20	0.436
RET-NS	182825	9.47	42.6	20	<1	0.20	0.456
RET-SW	182826	9.04	41.7	20	<1	<0.20	0.447
RET-SE	182827	9.14	38.6	20	<1	<0.20	0.416
NORTH WELL	182828	9.95	43.4	20	<1	<0.20	0.452
SOUTH WELL	182829	8.51	37.3	20	<1	<0.20	0.446
WEST-D	182830	9.43	47.3	15	2	<0.20	0.504
WEST-S	182831	13.0	47.6	20	1	<0.20	0.481

Table 2. COE S332B Monitoring Wells Sampled March 31, 2000 (Page 2 of 7)

STATION ID	LAB NO.	NH3_UNION	TKN	TON	NO2_NO3	NO2	NO3
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
RET-ND	182824	<0.002	1.00	0.56	<0.004	<0.003	<0.004
RET-NS	182825	0.003	0.98	0.52	<0.004	<0.003	<0.004
RET-SW	182826	<0.002	0.91	0.46	<0.004	<0.003	<0.004
RET-SE	182827	<0.002	0.89	0.47	<0.004	<0.003	<0.004
NORTH WELL	182828	<0.002	0.93	0.48	<0.004	<0.003	<0.004
SOUTH WELL	182829	0.004	1.39	0.94	<0.004	<0.003	<0.004
WEST-D	182830	<0.002	1.01	0.51	0.004	<0.003	0.004
WEST-S	182831	<0.002	1.07	0.59	<0.004	<0.003	<0.004

Table 2. COE S332B Monitoring Wells Sampled March 31, 2000 (Page 3 of 7)

STATION ID	LAB NO.	NITROGEN_T	TP	OP	TSS	SO4	TURB
		mg/L	mg/L	mg/L	mg/L	mg/L	ntu
RET-ND	182824	1.00	0.122	0.074	2	<1.0	1.1
RET-NS	182825	0.98	0.220	0.144	24	3.8	15
RET-SW	182826	0.91	0.190	0.140	2	2.0	1.0
RET-SE	182827	0.89	0.201	0.129	8	<1.0	1.9
NORTH WELL	182828	0.93	0.139	0.085	28	<1.0	22
SOUTH WELL	182829	1.39	0.141	0.110	20	3.5	2.6
WEST-D	182830	1.01	0.091	0.049	14	<1.0	8.4
WEST-S	182831	1.07	0.130	0.065	32	<1.0	8.4

Table 2. COE S332B Monitoring Wells Sampled March 31, 2000 (Page 4 of 7)

STATION ID	LAB NO.	AS_T_ICP	BA_T_ICP	BE_T_ICP	CD_T_ICP	CA_T_ICP
		ug/L	ug/L	ug/L	ug/L	mg/L
RET-ND	182824	<10	41.6	<0.4	<0.5	81.7
RET-NS	182825	<10	37.2	<0.4	<0.5	57.6
RET-SW	182826	<10	50.2	<0.4	<0.5	76.7
RET-SE	182827	<10	73.4	<0.4	<0.5	77.9
NORTH WELL	182828	<10	41.3	<0.4	<0.5	88.4
SOUTH WELL	182829	<10	34.6	<0.4	<0.5	71.9
WEST-D	182830	<10	32.2	<0.4	<0.5	81.4
WEST-S	182831	<10	36.2	<0.4	<0.5	83.4

Table 2. COE S332B Monitoring Wells Sampled March 31, 2000 (Page 5 of 7)

STATION ID	LAB NO.	CR_T_ICP	CU_T_ICP	FE_T_ICP	PB_T_ICP	MG_T_ICP
		ug/L	ug/L	ug/L	ug/L	mg/L
RET-ND	182824	<3.0	<1.0	138	<3.0	3.60
RET-NS	182825	<3.0	<1.0	150	<3.0	2.52
RET-SW	182826	<3.0	<1.0	216	<3.0	3.42
RET-SE	182827	<3.0	<1.0	151	<3.0	2.95
NORTH WELL	182828	<3.0	<1.0	213	<3.0	3.40
SOUTH WELL	182829	<3.0	<1.0	440	<3.0	2.43
WEST-D	182830	<3.0	<1.0	290	<3.0	3.50
WEST-S	182831	<3.0	<1.0	296	<3.0	3.40

Table 2. COE S332B Monitoring Wells Sampled March 31, 2000 (Page 6 of 7)

STATION ID	LAB NO.	MN_T_ICP	HG_T_CVAA	NI_T_ICP	K_T_FLAA	SE_T_ICP
		ug/L	ug/L	ug/L	mg/L	ug/L
RET-ND	182824	8.3	<0.10	<2.0	0.38	<2.0
RET-NS	182825	4.4	<0.10	<2.0	1.10	<2.0
RET-SW	182826	9.2	<0.10	<2.0	0.41	<2.0
RET-SE	182827	8.7	<0.10	<2.0	1.06	<2.0
NORTH WELL	182828	11.2	<0.10	<2.0	0.39	<2.0
SOUTH WELL	182829	7.4	<0.10	<2.0	0.72	<2.0
WEST-D	182830	8.4	<0.10	<2.0	0.41	<2.0
WEST-S	182831	9.7	<0.10	<2.0	0.44	<2.0

Table 2. COE S332B Monitoring Wells Sampled March 31, 2000 (Page 7 of 7)

STATION ID	LAB NO.	AG_T_ICP	NA_T_ICP	TL_T_ICP	ZN_T_ICP
		ug/L	mg/L	ug/L	ug/L
RET-ND	182824	<0.10	29.1	<5.0	3.2
RET-NS	182825	<0.10	26.8	<5.0	<2.0
RET-SW	182826	<0.10	27.8	<5.0	3.0
RET-SE	182827	<0.10	23.0	<5.0	2.2
NORTH WELL	182828	<0.10	25.4	<5.0	2.5
SOUTH WELL	182829	<0.10	21.7	<5.0	<2.0
WEST-D	182830	<0.10	27.8	<5.0	2.8
WEST-S	182831	<0.10	26.6	<5.0	4.0

Table 3. COE S332B Monitoring Wells Sampled April 1, 2000 (Page 1 of 7)

STATION ID	LAB NO.	TOC	CL_	COLOR	COLIF_FEC	F__UND_	NH3
		mg/L	mg/L	cpu	col./100mL	mg/L	mg/L
RET-ND	182852	8.20	44.0	20	<1	<0.20	0.419
RET-NS	182853	8.64	43.0	25	<1	<0.20	0.444
RET-SW	182854	7.97	43.4	25	<1	<0.20	0.452
RET-SE	182855	8.42	39.1	25	<1	<0.20	0.411
SOUTH WELL	182856	8.43	40.4	20	<1	<0.20	0.455
WEST-D	182857	9.87	49.2	20	<1	0.21	0.502
WEST-S	182858	9.62	45.7	20	<1	<0.20	0.440
NORTH WELL	182859	9.42	45.7	20	<1	0.26	0.462

Table 3. COE S332B Monitoring Wells Sampled April 1, 2000 (Page 2 of 7)

STATION ID	LAB NO.	NH3_UNION	TKN	TON	NO2_NO3	NO2	NO3
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
RET-ND	182852	<0.002	0.84	0.42	<0.004	<0.003	<0.004
RET-NS	182853	<0.002	0.97	0.53	<0.004	<0.003	<0.004
RET-SW	182854	<0.002	0.95	0.50	<0.004	<0.003	<0.004
RET-SE	182855	<0.002	0.97	0.56	<0.004	<0.003	<0.004
SOUTH WELL	182856	0.089	0.98	0.52	0.004	0.003	<0.004
WEST-D	182857	<0.002	1.15	0.65	<0.004	<0.003	<0.004
WEST-S	182858	<0.002	0.96	0.52	<0.004	<0.003	<0.004
NORTH WELL	182859	<0.002	0.98	0.52	<0.004	<0.003	<0.004

Table 3. COE S332B Monitoring Wells Sampled April 1, 2000 (Page 3 of 7)

STATION ID	LAB NO.	NITROGEN_T	TP	OP	TSS	SO4	TURB
		mg/L	mg/L	mg/L	mg/L	mg/L	ntu
RET-ND	182852	0.84	0.145	0.082	3	<1.0	1.0
RET-NS	182853	0.97	0.186	0.157	10	1.6	5.6
RET-SW	182854	0.95	0.171	0.148	<2	<1.0	1.1
RET-SE	182855	0.97	0.185	0.148	3	<1.0	1.7
SOUTH WELL	182856	0.98	0.234	0.140	38	2.6	31
WEST-D	182857	1.15	0.093	0.068	13	<1.0	9.6
WEST-S	182858	0.96	0.149	0.112	21	1.1	9.7
NORTH WELL	182859	0.98	0.169	0.099	40	5.3	15

Table 3. COE S332B Monitoring Wells Sampled April 1, 2000 (Page 4 of 7)

STATION ID	LAB NO.	AS_T_ICP	BA_T_ICP	BE_T_ICP	CD_T_ICP	CA_T_ICP	CR_T_ICP
		ug/L	ug/L	ug/L	ug/L	mg/L	ug/L
RET-ND	182852	<10	38.9	<0.4	<0.5	78.7	<3.0
RET-NS	182853	<10	35.4	<0.4	<0.5	56.9	<3.0
RET-SW	182854	<10	50.8	<0.4	<0.5	81.3	<3.0
RET-SE	182855	<10	56.4	<0.4	<0.5	79.0	<3.0
SOUTH WELL	182856	<10	75.0	<0.4	<0.5	86.0	<3.0
WEST-D	182857	<10	34.0	<0.4	<0.5	84.8	<3.0
WEST-S	182858	<10	47.9	<0.4	<0.5	86.5	<3.0
NORTH WELL	182859	<10	60.4	<0.4	<0.5	94.2	<3.0

Table 3. COE S332B Monitoring Wells Sampled April 1, 2000 (Page 5 of 7)

STATION ID	LAB NO.	CU_T_ICP	FE_T_ICP	PB_T_ICP	MG_T_ICP	MN_T_ICP	HG_T_CVAA
		ug/L	ug/L	ug/L	mg/L	ug/L	ug/L
RET-ND	182852	<1.0	170	<3.0	3.40	7.8	<0.10
RET-NS	182853	<1.0	149	<3.0	2.81	4.4	<0.10
RET-SW	182854	<1.0	287	<3.0	3.55	9.1	<0.10
RET-SE	182855	<1.0	243	<3.0	3.20	9.6	<0.10
SOUTH WELL	182856	<1.0	307	<3.0	2.32	4.7	<0.10
WEST-D	182857	1.8	267	<3.0	3.64	9.0	<0.10
WEST-S	182858	<1.0	286	<3.0	3.60	11.1	<0.10
NORTH WELL	182859	<1.0	214	<3.0	3.25	10.7	<0.10

Table 3. COE S332B Monitoring Wells Sampled April 1, 2000 (Page 6 of 7)

STATION ID	LAB NO.	NI_T_ICP	K_T_FLAA	SE_T_ICP	AG_T_ICP	NA_T_ICP	TL_T_ICP
		ug/L	mg/L	ug/L	ug/L	mg/L	ug/L
RET-ND	182852	<2.0	0.27	<2.0	<0.10	26.3	<5.0
RET-NS	182853	<2.0	0.55	<2.0	<0.10	26.6	<5.0
RET-SW	182854	<2.0	0.35	<2.0	<0.10	28.1	<5.0
RET-SE	182855	<2.0	0.54	<2.0	<0.10	24.2	<5.0
SOUTH WELL	182856	<2.0	1.18	2.4	<0.10	24.1	<5.0
WEST-D	182857	<2.0	0.37	<2.0	<0.10	28.2	<5.0
WEST-S	182858	<2.0	0.39	<2.0	<0.10	28.1	<5.0
NORTH WELL	182859	<2.0	1.26	2.2	<0.10	26.2	<5.0

Table 3. COE S332B Monitoring Wells Sampled April 1, 2000 (Page 7 of 7)

STATION ID	LAB NO.	ZN_T_ICP
		ug/L
RET-ND	182852	<2.0
RET-NS	182853	3.5
RET-SW	182854	<2.0
RET-SE	182855	3.0
SOUTH WELL	182856	<2.0
WEST-D	182857	3.1
WEST-S	182858	2.1
NORTH WELL	182859	2.2

Table 4. COE S332B Monitoring Wells Sampled April 2, 2000 (Page 1 of 6)

STATION ID	LAB NO.	TOC	CL_	COLOR	COLIF_FEC	F__UND_	NH3	NH3_UNION
		mg/L	mg/L	cpu	col./100mL	mg/L	mg/L	mg/L
RET-NS	182865	7.66	41.9	20	2	<0.20	0.446	0.002
RET-ND	182866	7.35	45.2	20	<1	<0.20	0.416	<0.002
RET-SW	182867	7.78	45.0	25	<1	<0.20	0.443	<0.002
RET-SE	182868	8.07	41.8	15	<1	<0.20	0.431	0.003
SOUTH WELL	182869	7.79	38.3	25	<1	<0.20	0.452	0.076
WEST-D	182870	5.57	47.9	15	1	<0.20	0.494	0.002
WEST-S	182871	8.25	47.4	25	7	<0.20	0.454	0.003
NORTH WELL	182872	8.01	45.2	15	<1	0.23	0.469	<0.002

Table 4. COE S332B Monitoring Wells Sampled April 2, 2000 (Page 2 of 6)

STATION ID	LAB NO.	TKN	TON	NO2_NO3	NO2	NO3	NITROGEN_T
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
RET-NS	182865	0.92	0.47	0.027	<0.003	0.027	0.95
RET-ND	182866	0.89	0.47	<0.004	<0.003	<0.004	0.89
RET-SW	182867	0.85	0.41	<0.004	<0.003	<0.004	0.85
RET-SE	182868	0.80	0.37	<0.004	<0.003	<0.004	0.80
SOUTH WELL	182869	1.00	0.55	<0.004	<0.003	<0.004	1.00
WEST-D	182870	0.96	0.47	<0.004	<0.003	<0.004	0.96
WEST-S	182871	1.06	0.61	<0.004	<0.003	<0.004	1.06
NORTH WELL	182872	0.94	0.47	<0.004	<0.003	<0.004	0.94

Table 4. COE S332B Monitoring Wells Sampled April 2, 2000 (Page 3 of 6)

STATION ID	LAB NO.	TP	OP	TSS	SO4	TURB	AS_T_ICP	BA_T_ICP
		mg/L	mg/L	mg/L	mg/L	ntu	ug/L	ug/L
RET-NS	182865	0.186	0.117	5	1.8	2.5	<10	36.6
RET-ND	182866	0.105	0.090	2	<1.0	0.7	<10	41.4
RET-SW	182867	0.151	0.142	2	<1.0	0.8	<10	47.5
RET-SE	182868	0.184	0.170	7	<1.0	1.5	<10	56.0
SOUTH WELL	182869	0.274	0.193	14	1.6	2.3	<10	73.9
WEST-D	182870	0.131	0.054	4	<1.0	1.4	<10	35.1
WEST-S	182871	0.136	0.113	8	<1.0	1.7	<10	48.9
NORTH WELL	182872	0.173	0.108	19	2.6	5.0	<10	57.8

Table 4. COE S332B Monitoring Wells Sampled April 2, 2000 (Page 4 of 6)

STATION ID	LAB NO.	BE_T_ICP	CD_T_ICP	CA_T_ICP	CR_T_ICP	CU_T_ICP	FE_T_ICP
		ug/L	ug/L	mg/L	ug/L	ug/L	ug/L
RET-NS	182865	<0.4	<0.5	57.3	<3.0	1.2	176
RET-ND	182866	<0.4	<0.5	82.4	<3.0	<1.0	234
RET-SW	182867	<0.4	<0.5	77.2	<3.0	<1.0	331
RET-SE	182868	<0.4	<0.5	78.7	<3.0	<1.0	282
SOUTH WELL	182869	<0.4	<0.5	82.4	<3.0	1.1	239
WEST-D	182870	<0.4	<0.5	82.2	<3.0	1.4	332
WEST-S	182871	<0.4	<0.5	83.9	<3.0	1.1	342
NORTH WELL	182872	<0.4	<0.5	86.0	<3.0	1.2	248

Table 4. COE S332B Monitoring Wells Sampled April 2, 2000 (Page 5 of 6)

STATION ID	LAB NO.	PB_T_ICP	MG_T_ICP	MN_T_ICP	HG_T_CVAA	NI_T_ICP	K_T_FLAA
		ug/L	mg/L	ug/L	ug/L	ug/L	mg/L
RET-NS	182865	<3.0	2.85	4.3	<0.10	<2.0	0.53
RET-ND	182866	<3.0	3.62	8.2	<0.10	<2.0	0.27
RET-SW	182867	<3.0	3.44	8.6	<0.10	<2.0	0.26
RET-SE	182868	<3.0	3.31	9.1	<0.10	<2.0	0.45
SOUTH WELL	182869	<3.0	2.68	5.7	<0.10	<2.0	1.43
WEST-D	182870	<3.0	3.64	8.6	<0.10	<2.0	0.38
WEST-S	182871	<3.0	3.67	10.3	<0.10	<2.0	0.35
NORTH WELL	182872	<3.0	3.20	9.7	<0.10	<2.0	0.97

Table 4. COE S332B Monitoring Wells Sampled April 2, 2000 (Page 6 of 6)

STATION ID	LAB NO.	SE_T_ICP	AG_T_ICP	NA_T_ICP	TL_T_ICP	ZN_T_ICP
		ug/L	ug/L	mg/L	ug/L	ug/L
RET-NS	182865	<2.0	<0.10	25.7	<5.0	2.6
RET-ND	182866	<2.0	<0.10	28.3	<5.0	3.2
RET-SW	182867	<2.0	<0.10	27.0	<5.0	<2.0
RET-SE	182868	<2.0	<0.10	25.1	<5.0	3.9
SOUTH WELL	182869	<2.0	<0.10	26.4	<5.0	2.8
WEST-D	182870	<2.0	<0.10	29.0	<5.0	3.4
WEST-S	182871	<2.0	<0.10	29.0	<5.0	8.4
NORTH WELL	182872	<2.0	<0.10	26.3	<5.0	4.1

Table 5. COE S332B Monitoring Wells Sampled April 4, 2000 (Page 1 of 6)

STATION ID	LAB NO.	TOC	CL_	COLOR	COLIF_FEC	F__UND_	NH3	NH3_UNION
		mg/L	mg/L	cpu	col./100mL	mg/L	mg/L	mg/L
NE-S	182981	10.4	39.2	20	1	0.24	0.374	<0.002
NE-S(DUPLICATE)	182982	18.2	36.4	20	2	0.24	0.384	<0.002
NE-D	182983	7.97	37.0	10	<1	<0.20	0.443	>0.372
		NOTE: Due to operational constraints, well NE-S was sampled immediately after installation. This schedule did not allow for proper well development. In all likelihood, this accounted for the poor agreement between well NE-S and a duplicate sample for the same well.						

Table 5. COE S332B Monitoring Wells Sampled April 4, 2000 (Page 2 of 6)

STATION ID	LAB NO.	TKN	TON	NO2_NO3	NO2	NO3	NITROGEN_T
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
NE-S	182981	1.00	0.63	<0.004	<0.003	<0.004	1.00
NE-S(DUPLICATE)	182982	0.92	0.54	0.004	<0.003	0.004	0.92
NE-D	182983	1.32	0.88	<0.004	<0.003	<0.004	1.32

Table 5. COE S332B Monitoring Wells Sampled April 4, 2000 (Page 3 of 6)

STATION ID	LAB NO.	TP	OP	TSS	SO4	TURB	AS_T_ICP	BA_T_ICP
		mg/L	mg/L	mg/L	mg/L	ntu	ug/L	ug/L
NE-S	182981	0.154	0.086	102	2.4	60	<10	44.6
NE-S(DUPLICATE)	182982	0.191	0.101	77	4.9	85	<10	45.0
NE-D	182983	0.194	0.031	43	24.2	17	<10	67.0

Table 5. COE S332B Monitoring Wells Sampled April 4, 2000 (Page 4 of 6)

STATION ID	LAB NO.	BE_T_ICP	CD_T_ICP	CA_T_ICP	CR_T_ICP	CU_T_ICP	FE_T_ICP
		ug/L	ug/L	mg/L	ug/L	ug/L	ug/L
NE-S	182981	<0.4	<0.5	117	3.1	3.1	411
NE-S(DUPLICATE)	182982	<0.4	<0.5	111	<3.0	2.7	348
NE-D	182983	<0.4	<0.5	95.7	4.4	<1.0	48.6

Table 5. COE S332B Monitoring Wells Sampled April 4, 2000 (Page 5 of 6)

STATION ID	LAB NO.	PB_T_ICP	MG_T_ICP	MN_T_ICP	HG_T_CVAA	NI_T_ICP	K_T_FLAA
		ug/L	mg/L	ug/L	ug/L	ug/L	mg/L
NE-S	182981	<3.0	3.33	9.1	<0.10	<2.0	0.81
NE-S(DUPLICATE)	182982	<3.0	3.43	9.0	<0.10	<2.0	0.50
NE-D	182983	<3.0	1.62	0.6	<0.10	<2.0	4.02

Table 5. COE S332B Monitoring Wells Sampled April 4, 2000 (Page 6 of 6)

STATION ID	LAB NO.	SE_T_ICP	AG_T_ICP	NA_T_ICP	TL_T_ICP	ZN_T_ICP
		ug/L	ug/L	mg/L	ug/L	ug/L
NE-S	182981	<2.0	<0.10	22.1	<5.0	4.5
NE-S(DUPLICATE)	182982	<2.0	<0.10	23.0	<5.0	3.2
NE-D	182983	<2.0	<0.10	24.2	<5.0	<2.0

Table 6. Pesticides for COE 332B Monitoring Wells Sampled March 30-April 4, 2000. All data reported as micrograms per liter, ug/L (Page 1 of 4)

Station ID:	RET-ND	RET-NS	RET-SW	RET-SE	RET-ND	RET-NS	RET-SW	RET-SE
PPB #:	182701	182702	182703	182704	182824	182825	182826	182827
Sampling Date:	3/30/00	3/30/00	3/30/00	3/30/00	3/31/00	3/31/00	3/31/00	3/31/00
Aldrin	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016
alpha-BHC	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016
beta-BHC	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018
delta-BHC	<0.0091	<0.0091	<0.0091	<0.0091	<0.0091	<0.0091	<0.0091	<0.0091
gamma-BHC (Lindane)	<0.0096	<0.0096	<0.0096	<0.0096	<0.0096	<0.0096	<0.0096	<0.0096
Chlordane	<0.029	<0.029	<0.029	<0.029	<0.029	<0.029	<0.029	<0.029
4,4' -DDD	<0.0076	<0.0076	<0.0076	<0.0076	<0.0076	<0.0076	<0.0076	<0.0076
4,4' -DDE	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
4,4' -DDT	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047
Dieldrin	<0.014	<0.014	<0.014	<0.014	<0.014	<0.014	<0.014	<0.014
Endosulfan I	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013
Endosulfan II	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064
Endosulfan Sulfate	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064
Endrin	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Endrin aldehyde	<0.0087	<0.0087	<0.0087	<0.0087	<0.0087	<0.0087	<0.0087	<0.0087
Heptachlor	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018
Heptachlor epoxide	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011
Methoxychlor	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042
Toxaphene	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16

Table 6. Pesticides for COE 332B Monitoring Wells Sampled March 30-April 4, 2000. All data reported as micrograms per liter, ug/L (Page 2 of 4)

Station ID:	NORTH WELL	SOUTH WELL	WEST-D	WEST-S	RET-ND	RET-NS	RET-SW	RET-SE	SOUTH WELL
PPB #:	182828	182829	182830	182831	182852	182853	182854	182855	182856
Sampling Date:	3/31/00	3/31/00	3/31/00	3/31/00	4/1/00	4/1/00	4/1/00	4/1/00	4/1/00
Aldrin	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016
alpha-BHC	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016
beta-BHC	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018
delta-BHC	<0.0091	<0.0091	<0.0091	<0.0091	<0.0091	<0.0091	<0.0091	<0.0091	<0.0091
gamma-BHC (Lindane)	<0.0096	<0.0096	<0.0096	<0.0096	<0.0096	<0.0096	<0.0096	<0.0096	<0.0096
Chlordane	<0.029	<0.029	<0.029	<0.029	<0.029	<0.029	<0.029	<0.029	<0.029
4,4' -DDD	<0.0076	<0.0076	<0.0076	<0.0076	<0.0076	<0.0076	<0.0076	<0.0076	<0.0076
4,4' -DDE	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
4,4' -DDT	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047
Dieldrin	<0.014	<0.014	<0.014	<0.014	<0.014	<0.014	<0.014	<0.014	<0.014
Endosulfan I	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013
Endosulfan II	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064
Endosulfan Sulfate	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064
Endrin	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Endrin aldehyde	<0.0087	<0.0087	<0.0087	<0.0087	<0.0087	<0.0087	<0.0087	<0.0087	<0.0087
Heptachlor	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018
Heptachlor epoxide	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011
Methoxychlor	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042
Toxaphene	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16

Table 6. Pesticides for COE 332B Monitoring Wells Sampled March 30-April 4, 2000. All data reported as micrograms per liter, ug/L (Page 3 of 4)

Station ID:	WEST-D	WEST-S	NORTH WELL	RET-NS	RET-ND	RET-SW	RET-SE	SOUTH WELL	WEST-D
PPB #:	182857	182858	182859	182865	182866	182867	182868	182869	182870
Sampling Date:	4/1/00	4/1/00	4/1/00	4/1/00	4/2/00	4/2/00	4/2/00	4/2/00	4/2/00
Aldrin	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016
alpha-BHC	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016
beta-BHC	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018
delta-BHC	<0.0091	<0.0091	<0.0091	<0.0091	<0.0091	<0.0091	<0.0091	<0.0091	<0.0091
gamma-BHC (Lindane)	<0.0096	<0.0096	<0.0096	<0.0096	<0.0096	<0.0096	<0.0096	<0.0096	<0.0096
Chlordane	<0.029	<0.029	<0.029	<0.029	<0.029	<0.029	<0.029	<0.029	<0.029
4,4' -DDD	<0.0076	<0.0076	<0.0076	<0.0076	<0.0076	<0.0076	<0.0076	<0.0076	<0.0076
4,4' -DDE	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
4,4' -DDT	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047
Dieldrin	<0.014	<0.014	<0.014	<0.014	<0.014	<0.014	<0.014	<0.014	<0.014
Endosulfan I	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013
Endosulfan II	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064
Endosulfan Sulfate	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064
Endrin	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Endrin aldehyde	<0.0087	<0.0087	<0.0087	<0.0087	<0.0087	<0.0087	<0.0087	<0.0087	<0.0087
Heptachlor	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018
Heptachlor epoxide	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011
Methoxychlor	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042
Toxaphene	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16

Table 6. Pesticides for COE 332B Monitoring Wells Sampled March 30-April 4, 2000. All data reported as micrograms per liter, ug/L (Page 4 of 4)

Station ID:	WEST-S	NORTH WELL	NE-S	NE-S (Duplicate)	NE-D
PPB #:	182871	182872	182981	182982	182983
Sampling Date:	4/2/00	4/2/00	4/4/00	4/4/00	4/4/00
Aldrin	<0.016	<0.016	<0.016	<0.016	<0.016
alpha-BHC	<0.016	<0.016	<0.016	<0.016	<0.016
beta-BHC	<0.018	<0.018	<0.018	<0.018	<0.018
delta-BHC	<0.0091	<0.0091	<0.0091	<0.0091	<0.0091
gamma-BHC (Lindane)	<0.0096	<0.0096	<0.0096	<0.0096	<0.0096
Chlordane	<0.029	<0.029	<0.029	<0.029	<0.029
4,4' -DDD	<0.0076	<0.0076	<0.0076	<0.0076	<0.0076
4,4' -DDE	<0.015	<0.015	<0.015	<0.015	<0.015
4,4' -DDT	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047
Dieldrin	<0.014	<0.014	<0.014	<0.014	<0.014
Endosulfan I	<0.013	<0.013	<0.013	<0.013	<0.013
Endosulfan II	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064
Endosulfan Sulfate	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064
Endrin	<0.010	<0.010	<0.010	<0.010	<0.010
Endrin aldehyde	<0.0087	<0.0087	<0.0087	<0.0087	<0.0087
Heptachlor	<0.018	<0.018	<0.018	<0.018	<0.018
Heptachlor epoxide	<0.011	<0.011	<0.011	<0.011	<0.011
Methoxychlor	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042
Toxaphene	<0.16	<0.16	<0.16	<0.16	<0.16

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TOT.ORGANIC CARBON mg/L WA Method: EPA 415.1 Alt. Method: None

Duplicates

PPB Number	Client ID	Value 1	Value 2	Range	% RSD	QC Control Limit
182702	RET-NS	9.88	9.48	0.40	2.92	14.06
182829	SOUTH WELL	8.15	8.87	0.72	5.98	13.92
182853	RET-NS	8.65	8.62	0.030	0.25	13.90
182866	RET-ND	7.38	7.32	0.060	0.58	NO DATA
182869	SOUTH WELL	7.98	7.60	0.38	3.45	NO DATA
182982	NE-S(DUPLICATE)	17.2	19.1	1.9	7.40	13.95

Spikes

PPB Number	Client ID	% MS	% MSD	Spike Recovery Control Limits	% RSD	% RSD Control Limit
182703	RET-SW	104	---	87 TO 116	----	----
182830	WEST-D	110	---	87 TO 116	----	----
182854	RET-SW	105	---	87 TO 116	----	----
182867	RET-SW	104	---	87 TO 117	----	----
182870	WEST-D	92	---	88 TO 116	----	----

References

Reference ID	Target	Found	% Recovery	Control Limits
WW9987	68.8	75.2	109	85 TO 130
WW9987	68.8	73.2	106	85 TO 130
WW9987	68.8	75.8	110	85 TO 130
WW9987	68.8	72.9	106	85 TO 130
WW9987	68.8	62.3	90	83 TO 131

5821 SW ARCHER ROAD, GAINESVILLE, FL 32608 (352) 377-2349 Fax (352) 395-6639 ppb@ppb-envlabs.com

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CHLORIDE mg/L WA Method: EPA 325.2 Alt. Method: None

Duplicates

PPB Number	Client ID	Value 1	Value 2	Range	% RSD	QC Control Limit
182702	RET-NS	42.8	44.2	1.4	2.28	7.09
182825	RET-NS	42.8	42.3	0.50	0.83	7.09
182853	RET-NS	44.4	41.6	2.8	4.60	7.10
182867	RET-SW	44.2	45.9	1.7	2.67	7.29
182981	NE-S	39.1	39.2	0.10	0.18	7.67

Spikes

PPB Number	Client ID	% MS	% MSD	Spike Recovery Control Limits	% RSD	% RSD Control Limit
182703	RET-SW	100	---	73 TO 124	----	----
182826	RET-SW	106	---	73 TO 124	----	----
182854	RET-SW	105	---	73 TO 124	----	----
182868	RET-SE	96	---	73 TO 125	----	----
182982	NE-S(DUPLICATE)	99	---	73 TO 125	----	----

References

Reference ID	Target	Found	% Recovery	Control Limits
WW9984	173	185	107	88 TO 116

COLOR cpu WA Method: EPA 110.2 Alt. Method: None

Duplicates

PPB Number	Client ID	Value 1	Value 2	Range	% RSD	QC Control Limit
182704	RET-SE	20	20	0	0.00	NO DATA
182826	RET-SW	20	20	0	0.00	NO DATA
182852	RET-ND	20	20	0	0.00	NO DATA
182867	RET-SW	25	25	0	0.00	NO DATA
182983	NE-D	10	10	0	0.00	NO DATA

NO SPIKE QC DATA FOUND

NO REFERENCE QC DATA FOUND

S , I N C.

hod: None

hod: None

QC Control Limit

NO DATA
NO DATA
6.22

% RSD
ontrol Limit

---

hod: None

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Duplicates

PPB Number	Client ID	Value 1	Value 2	Range	% RSD	QC Control Limit
182702	RET-NS	0.445	0.440	0.0050	0.80	4.79
182852	RET-ND	0.417	0.421	0.0040	0.68	4.70
182857	WEST-D	0.502	0.501	0.0010	0.14	4.61
182981	NE-S	0.373	0.375	0.0020	0.38	15.79

Spikes

PPB Number	Client ID	% MS	% MSD	Spike Recovery Control Limits	% RSD	% RSD Control Limit
182704	RET-SE	112	---	88 TO 123	----	----
182829	SOUTH WELL	109	---	88 TO 123	----	----
182868	RET-SE	112	---	89 TO 123	----	----
182982	NE-S(DUPLICATE)	97	---	89 TO 123	----	----

References

Reference ID	Target	Found	% Recovery	Control Limits
WW9983	13.1	15.5	118	89 TO 121
WW9983	13.1	13.7	104	89 TO 122

UN-IONIZED AMMONIA N mg/L WA Method: EPA 350.1 Alt. Method: None

NO DUPLICATE QC DATA FOUND

NO SPIKE QC DATA FOUND

NO REFERENCE QC DATA FOUND

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KJELDAHL NITROGEN mg/L WA Method: EPA 351.2 Alt. Method: None

Duplicates

PPB Number	Client ID	Value 1	Value 2	Range	% RSD	QC Control Limit
182825	RET-NS	0.98	0.97	0.010	0.73	20.10
182855	RET-SE	0.98	0.96	0.020	1.46	20.09
182867	RET-SW	0.97	0.79	0.18	14.46	20.09
182982	NE-S(DUPLICATE)	0.90	0.93	0.030	2.32	20.98

Spikes

PPB Number	Client ID	% MS	% MSD	Spike Recovery Control Limits	% RSD	% RSD Control Limit
182826	RET-SW	102	---	70 TO 135	----	----
182856	SOUTH WELL	109	---	70 TO 135	----	----
182982	NE-S(DUPLICATE)	100	0	60 TO 139	141.42	NO DATA

References

Reference ID	Target	Found	% Recovery	Control Limits
WW9987	10.9	11.7	107	81 TO 124
WW9987	10.9	12.1	111	83 TO 122
WW9987	10.9	12.1	111	82 TO 123
WW9987	10.9	11.8	109	82 TO 123
WW9987	10.9	11.6	106	83 TO 124
WW9987	10.9	11.8	109	83 TO 123

TOTAL ORGANIC N mg/L WA Method: SM 4500N Alt. Method: None

NO DUPLICATE QC DATA FOUND

NO SPIKE QC DATA FOUND

NO REFERENCE QC DATA FOUND

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NITRATE/NITRITE mg/L WA Method: EPA 353.2 Alt. Method: None

Duplicates

PPB Number	Client ID	Value 1	Value 2	Range	% RSD	QC Control Limit
182701	RET-ND	<0.004	<0.004	0	0.00	NO DATA
182824	RET-ND	<0.004	<0.004	0	0.00	NO DATA
182853	RET-NS	<0.004	<0.004	0	0.00	NO DATA
182869	SOUTH WELL	<0.004	<0.004	0	0.00	NO DATA
182981	NE-S	<0.004	<0.004	0	0.00	NO DATA

Spikes

PPB Number	Client ID	% MS	% MSD	Spike Recovery Control Limits	% RSD	% RSD Control Limit
182702	RET-NS	98	---	79 TO 106	----	----
182825	RET-NS	94	---	79 TO 107	----	----
182854	RET-SW	97	---	79 TO 107	----	----
182870	WEST-D	94	---	79 TO 107	----	----
182982	NE-S(DUPLICATE)	97	---	79 TO 107	----	----

References

Reference ID	Target	Found	% Recovery	Control Limits
WW9983	8.35	8.25	99	89 TO 122
WW9983	8.35	8.75	105	88 TO 123

NITRITE mg/L WA Method: EPA 353.3 Alt. Method: None

Duplicates

PPB Number	Client ID	Value 1	Value 2	Range	% RSD	QC Control Limit
182702	RET-NS	<0.003	<0.003	0	0.00	NO DATA
182825	RET-NS	<0.003	<0.003	0	0.00	NO DATA
182852	RET-ND	<0.003	<0.003	0	0.00	NO DATA
182867	RET-SW	<0.003	<0.003	0	0.00	NO DATA

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Spikes

PPB Number	Client ID	% MS	% MSD	Spike Recovery Control Limits	% RSD	% RSD Control Limit
182703	RET-SW	108	---	75 TO 123	----	----
182828	NORTH WELL	104	---	75 TO 123	----	----
182853	RET-NS	90	---	75 TO 123	----	----
182868	RET-SE	90	---	75 TO 123	----	----
182983	NE-D	89	---	74 TO 124	----	----

References

Reference ID	Target	Found	% Recovery	Control Limits
ALDRICH	107	118	110	82 TO 118
1619EF	107	111	104	82 TO 118
ALDRICH	107	118	110	82 TO 118
Aldrich	107	98.2	92	82 TO 119
1619EF	107	112	104	82 TO 119

NITRATE mg/L WA Method: EPA 353.2 Alt. Method: None

NO DUPLICATE QC DATA FOUND

NO SPIKE QC DATA FOUND

NO REFERENCE QC DATA FOUND

NITROGEN,TOTAL mg/L WA Method: SM 4500N Alt. Method: None

NO DUPLICATE QC DATA FOUND

NO SPIKE QC DATA FOUND

NO REFERENCE QC DATA FOUND

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TOTAL PHOSPHORUS mg/L WA Method: EPA 365.3 Alt. Method: None

Duplicates

PPB Number	Client ID	Value 1	Value 2	Range	% RSD	QC Control Limit
182701	RET-ND	0.075	0.076	0.0010	0.94	21.80
182829	SOUTH WELL	0.140	0.142	0.0020	1.00	25.22
182853	RET-NS	0.185	0.186	0.0010	0.38	25.27
182865	RET-NS	0.183	0.188	0.0050	1.91	25.37
182981	NE-S	0.150	0.159	0.0090	4.12	25.59

Spikes

PPB Number	Client ID	% MS	% MSD	Spike Recovery Control Limits	% RSD	% RSD Control Limit
182702	RET-NS	111	---	77 TO 134	----	----
182824	RET-ND	118	---	79 TO 138	----	----
182831	WEST-S	119	---	79 TO 139	----	----
182854	RET-SW	109	---	79 TO 139	----	----
182866	RET-ND	108	---	79 TO 138	----	----
182982	NE-S(DUPLICATE)	113	---	82 TO 137	----	----

References

Reference ID	Target	Found	% Recovery	Control Limits
WW9987	5.42	5.87	108	85 TO 124
WW9987	5.42	5.86	108	85 TO 124
WW9987	5.42	5.68	105	85 TO 124
WW9987	5.42	5.70	105	85 TO 124
WW9987	5.42	5.60	103	86 TO 123
WW9987	5.42	5.85	108	86 TO 123
WW9987	5.42	5.85	108	87 TO 123
WW9987	5.42	5.43	100	87 TO 123

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ORTHO-PHOSPHORUS mg/L WA Method: EPA 365.2 Alt. Method: None

Duplicates

PPB Number	Client ID	Value 1	Value 2	Range	% RSD	QC Control Limit
182702	RET-NS	0.122	0.121	0.0010	0.58	14.68
182829	SOUTH WELL	0.110	0.111	0.0010	0.64	14.32
182852	RET-ND	0.080	0.083	0.0030	2.60	13.95
182867	RET-SW	0.143	0.142	0.0010	0.50	13.63

Spikes

PPB Number	Client ID	% MS	% MSD	Spike Recovery Control Limits	% RSD	% RSD Control Limit
182703	RET-SW	101	---	79 TO 119	----	----
182827	RET-SE	99	---	80 TO 119	----	----
182853	RET-NS	112	---	80 TO 119	----	----
182868	RET-SE	117	---	80 TO 119	----	----

References

Reference ID	Target	Found	% Recovery	Control Limits
WW9983	5.47	5.67	104	81 TO 125
ww9983	5.47	5.82	106	81 TO 125
WW9983	5.47	5.67	104	82 TO 125
WW9983	5.47	4.38	80	82 TO 125
WW9983	5.47	6.13	112	79 TO 126

TOTAL SUSP. SOLIDS mg/L WA Method: EPA 160.2 Alt. Method: None

Duplicates

PPB Number	Client ID	Value 1	Value 2	Range	% RSD	QC Control Limit
182703	RET-SW	9	8	1.0	8.32	37.29
182826	RET-SW	2	2	0	0.00	NO DATA
182853	RET-NS	12	7	5.0	37.22	37.29
182867	RET-SW	<2	2	1.0	47.14	NO DATA

NO SPIKE QC DATA FOUND

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References

Reference ID	Target	Found	% Recovery	Control Limits
WW9984	24.5	28	114	19 TO 205
9984	24.5	20	82	21 TO 205

SULFATE mg/L WA Method: EPA 375.4 Alt. Method: None

Duplicates

PPB Number	Client ID	Value 1	Value 2	Range	% RSD	QC Control Limit
182703	RET-SW	3.3	3.5	0.20	4.16	NO DATA
182831	WEST-S	1.0	0.6	0.40	35.36	NO DATA
182857	WEST-D	<1	<1	0	0.00	NO DATA
182871	WEST-S	<1.0	<1.0	0	0.00	NO DATA

Spikes

PPB Number	Client ID	% MS	% MSD	Spike Recovery Control Limits	% RSD	% RSD Control Limit
182704	RET-SE	92	---	76 TO 125	----	----
182829	SOUTH WELL	100	---	75 TO 124	----	----
182859	NORTH WELL	107	---	75 TO 124	----	----
182872	NORTH WELL	101	---	76 TO 123	----	----

References

Reference ID	Target	Found	% Recovery	Control Limits
WW9984	182	193	106	84 TO 125
WW9984	182	184	101	84 TO 124
WW9984	182	199	109	84 TO 123
WW9984	182	196	108	84 TO 123
WW9984	182	183	101	84 TO 123

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TURBIDITY ntu WA Method: EPA 180.1 Alt. Method: None

Duplicates

PPB Number	Client ID	Value 1	Value 2	Range	% RSD	QC Control Limit
182702	RET-NS	55.6	52.4	3.2	4.19	13.00
182828	NORTH WELL	20	24	4.0	12.86	12.68
182852	RET-ND	1.0	1.0	0	0.00	14.03
182867	RET-SW	0.8	0.8	0	0.00	14.03

NO SPIKE QC DATA FOUND

References

Reference ID	Target	Found	% Recovery	Control Limits
FORMAZIN	4000	3700	92	79 TO 134
HACH4000	4000	4500	112	78 TO 134
FORMAZIN	20.0	20.8	103	78 TO 134
FORMAZIN	4000	4100	103	78 TO 133
HACH 4000	4000	3300	82	78 TO 133

ARSENIC,TOTAL ug/L WA Method: EPA 200.7 Alt. Method: EPA 6010

Duplicates

PPB Number	Client ID	Value 1	Value 2	Range	% RSD	QC Control Limit
182703	RET-SW	<10	<10	0	0.00	36.66
182825	RET-NS	<10	<10	0	0.00	35.69
182855	RET-SE	<10	<10	0	0.00	34.74
182867	RET-SW	<10	<10	0	0.00	33.79
182983	NE-D	<10	<10	0	0.00	32.92

Spikes

PPB Number	Client ID	% MS	% MSD	Spike Recovery Control Limits	% RSD	% RSD Control Limit
182704	RET-SE	90	96	70 TO 125	4.56	NO DATA
182826	RET-SW	72	90	70 TO 124	15.71	12.53

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Spikes

PPB Number	Client ID	% MS	% MSD	Spike Recovery Control Limits	% RSD	% RSD Control Limit
182826	RET-SW	105	---	70 TO 124	----	----
182856	SOUTH WELL	102	106	65 TO 126	2.72	26.57
182868	RET-SE	100	102	67 TO 127	1.40	24.87

References

Reference ID	Target	Found	% Recovery	Control Limits
PPBMULTI	200	191	96	76 TO 132
PPBMULTI	200	186	93	76 TO 131
PPBMULTI	200	206	103	75 TO 130
PPBMULTI	200	206	103	76 TO 128

BARIUM,TOTAL ug/L WA Method: EPA 200.7 Alt. Method: EPA 6010

Duplicates

PPB Number	Client ID	Value 1	Value 2	Range	% RSD	QC Control Limit
182703	RET-SW	44.0	43.6	0.40	0.65	13.09
182825	RET-NS	36.6	37.8	1.2	2.28	12.95
182855	RET-SE	58.3	54.4	3.9	4.89	12.82
182867	RET-SW	47.4	47.6	0.20	0.30	12.81
182983	NE-D	67.4	66.6	0.80	0.84	12.69

Spikes

PPB Number	Client ID	% MS	% MSD	Spike Recovery Control Limits	% RSD	% RSD Control Limit
182704	RET-SE	101	99	81 TO 117	1.41	NO DATA
182826	RET-SW	72	94	82 TO 116	18.74	NO DATA
182826	RET-SW	106	---	82 TO 116	----	----
182856	SOUTH WELL	97	99	78 TO 118	1.44	46.83
182868	RET-SE	99	100	78 TO 118	0.71	37.20

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References

Reference ID	Target	Found	% Recovery	Control Limits
PPBMULTI	1000	979	98	92 TO 111
PPBMULTI	1000	975	98	92 TO 111
PPBMULTI	1000	1040	104	92 TO 111
PPBMULTI	1000	1040	104	92 TO 111

BERYLLIUM,TOTAL ug/L WA Method: EPA 200.7 Alt. Method: EPA 6010

Duplicates

PPB Number	Client ID	Value 1	Value 2	Range	% RSD	QC Control Limit
182703	RET-SW	<0.4	<0.4	0	0.00	NO DATA
182825	RET-NS	<0.4	<0.4	0	0.00	NO DATA
182855	RET-SE	<0.4	<0.4	0	0.00	NO DATA
182867	RET-SW	<0.4	<0.4	0	0.00	NO DATA
182983	NE-D	<0.4	<0.4	0	0.00	NO DATA

Spikes

PPB Number	Client ID	% MS	% MSD	Spike Recovery Control Limits	% RSD	% RSD Control Limit
182704	RET-SE	105	104	64 TO 133	0.68	NO DATA
182826	RET-SW	83	99	65 TO 132	12.43	NO DATA
182826	RET-SW	104	---	65 TO 132	----	----
182856	SOUTH WELL	102	102	65 TO 132	0.00	31.49
182868	RET-SE	103	105	65 TO 132	1.36	25.34

References

Reference ID	Target	Found	% Recovery	Control Limits
PPBMULTI	200	207	104	90 TO 122
PPBMULTI	200	204	102	90 TO 121

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CADMIUM,TOTAL ug/L WA Method: EPA 200.7 Alt. Method: EPA 6010

Duplicates

PPB Number	Client ID	Value 1	Value 2	Range	% RSD	QC Control Limit
182703	RET-SW	<0.5	<0.5	0	0.00	49.14
182825	RET-NS	<0.5	<0.5	0	0.00	48.54
182855	RET-SE	<0.5	<0.5	0	0.00	47.38
182867	RET-SW	<0.5	<0.5	0	0.00	46.32
182983	NE-D	<0.5	<0.5	0	0.00	45.81

Spikes

PPB Number	Client ID	% MS	% MSD	Spike Recovery Control Limits	% RSD	% RSD Control Limit
182704	RET-SE	94	92	56 TO 133	1.52	13.68
182826	RET-SW	76	94	56 TO 132	14.97	13.05
182826	RET-SW	102	---	56 TO 132	----	----
182856	SOUTH WELL	92	100	56 TO 132	5.89	18.48
182868	RET-SE	98	106	60 TO 131	5.55	17.44

References

Reference ID	Target	Found	% Recovery	Control Limits
PPBMULTI	200	195	98	91 TO 112
PPBMULTI	200	192	96	91 TO 112
PPBMULTI	200	210	105	91 TO 112
PPBMULTI	200	210	105	91 TO 112

CALCIUM,TOTAL mg/L WA Method: EPA 200.7 Alt. Method: EPA 6010

Duplicates

PPB Number	Client ID	Value 1	Value 2	Range	% RSD	QC Control Limit
182703	RET-SW	76.1	75.9	0.20	0.19	7.04
182825	RET-NS	56.8	58.4	1.6	1.96	6.98
182855	RET-SE	81.5	76.4	5.1	4.57	6.92
182867	RET-SW	77.7	76.8	0.90	0.82	7.07

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Duplicates

PPB Number	Client ID	Value 1	Value 2	Range	% RSD	QC Control Limit
182983	NE-D	96.8	94.6	2.2	1.63	12.37

Spikes

PPB Number	Client ID	% MS	% MSD	Spike Recovery Control Limits	% RSD	% RSD Control Limit
182704	RET-SE	96	101	57 TO 141	3.59	NO DATA
182826	RET-SW	74	---	57 TO 141	----	----
182826	RET-SW	94	---	57 TO 141	----	----
182856	SOUTH WELL	115	137	68 TO 133	12.35	NO DATA
182856	SOUTH WELL	92	---	68 TO 133	----	----
182868	RET-SE	98	109	68 TO 134	7.52	26.54

References

Reference ID	Target	Found	% Recovery	Control Limits
PPBMULTI	20.0	19.4	97	91 TO 111
PPBMULTI	20.0	19.2	96	91 TO 111
PPBMULTI	20.0	20.4	102	91 TO 110

CHROMIUM,TOTAL ug/L WA Method: EPA 200.7 Alt. Method: EPA 6010

Duplicates

PPB Number	Client ID	Value 1	Value 2	Range	% RSD	QC Control Limit
182703	RET-SW	<3	<3	0	0.00	NO DATA
182825	RET-NS	<3	<3	0	0.00	NO DATA
182855	RET-SE	<3.0	<3.0	0	0.00	NO DATA
182867	RET-SW	<3.0	<3.0	0	0.00	NO DATA
182983	NE-D	4.4	4.5	0.10	1.59	NO DATA

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Spikes

PPB Number	Client ID	% MS	% MSD	Spike Recovery Control Limits	% RSD	% RSD Control Limit
182704	RET-SE	93	93	76 TO 116	0.00	13.89
182826	RET-SW	74	91	76 TO 115	14.57	13.56
182826	RET-SW	104	---	76 TO 115	----	----
182856	SOUTH WELL	92	93	76 TO 115	0.76	18.07
182868	RET-SE	93	94	76 TO 112	0.76	17.00

References

Reference ID	Target	Found	% Recovery	Control Limits
PPBMULTI	1000	966	97	92 TO 111
PPBMULTI	1000	966	97	92 TO 111
PPBMULTI	1000	952	95	92 TO 111
PPBMULTI	1000	1020	102	91 TO 111
PPBMULTI	1000	1020	102	91 TO 111

COPPER,TOTAL ug/L WA Method: EPA 200.7 Alt. Method: EPA 6010

Duplicates

PPB Number	Client ID	Value 1	Value 2	Range	% RSD	QC Control Limit
182703	RET-SW	<1	<1	0	0.00	NO DATA
182825	RET-NS	<1	<1	0	0.00	NO DATA
182855	RET-SE	<1	<1	0	0.00	NO DATA
182867	RET-SW	<1.0	<1.0	0	0.00	NO DATA
182983	NE-D	<1.0	<1.0	0	0.00	NO DATA

Spikes

PPB Number	Client ID	% MS	% MSD	Spike Recovery Control Limits	% RSD	% RSD Control Limit
182704	RET-SE	98	96	74 TO 124	1.46	14.03
182826	RET-SW	78	94	74 TO 123	13.16	13.26
182826	RET-SW	108	---	74 TO 123	----	----
182856	SOUTH WELL	93	94	72 TO 123	0.76	18.25

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Spikes

PPB Number	Client ID	% MS	% MSD	Spike Recovery Control Limits	% RSD	% RSD Control Limit
182868	RET-SE	96	97	74 TO 119	0.73	17.11

References

Reference ID	Target	Found	% Recovery	Control Limits
PPBMULTI	1000	976	98	87 TO 115
PPBMULTI	1000	975	98	88 TO 114
PPBMULTI	1000	1010	101	88 TO 113
PPBMULTI	1000	1010	101	88 TO 113

IRON,TOTAL ug/L WA Method: EPA 200.7 Alt. Method: EPA 6010

Duplicates

PPB Number	Client ID	Value 1	Value 2	Range	% RSD	QC Control Limit
182703	RET-SW	258	256	2.0	0.55	16.58
182825	RET-NS	148	153	5.0	2.35	16.61
182855	RET-SE	252	234	18	5.24	16.56
182867	RET-SW	334	328	6.0	1.28	16.59
182983	NE-D	49.6	47.6	2.0	2.91	16.60

Spikes

PPB Number	Client ID	% MS	% MSD	Spike Recovery Control Limits	% RSD	% RSD Control Limit
182704	RET-SE	75	73	67 TO 121	1.91	14.40
182704	RET-SE	98	---	67 TO 121	----	----
182826	RET-SW	88	---	65 TO 122	----	----
182826	RET-SW	102	---	65 TO 122	----	----
182856	SOUTH WELL	136	102	65 TO 122	20.20	14.05
182856	SOUTH WELL	98	---	65 TO 122	----	----
182868	RET-SE	96	99	61 TO 126	2.18	20.14

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References

Reference ID	Target	Found	% Recovery	Control Limits
PPBMULTI	20000	18700	94	85 TO 118
PPBMULTI	20000	18400	92	85 TO 118
PPBMULTI	1000	1030	103	84 TO 119

LEAD,TOTAL ug/L WA Method: EPA 200.7 Alt. Method: EPA 6010

Duplicates

PPB Number	Client ID	Value 1	Value 2	Range	% RSD	QC Control Limit
182703	RET-SW	<3.0	<3.0	0	0.00	21.11
182825	RET-NS	<3.0	<3.0	0	0.00	20.81
182855	RET-SE	<3.0	<3.0	0	0.00	20.23
182867	RET-SW	<3.0	<3.0	0	0.00	19.71
182983	NE-D	<3.0	<3.0	0	0.00	19.47

Spikes

PPB Number	Client ID	% MS	% MSD	Spike Recovery Control Limits	% RSD	% RSD Control Limit
182704	RET-SE	102	96	65 TO 132	4.29	15.48
182826	RET-SW	84	100	66 TO 131	12.30	14.49
182826	RET-SW	104	---	66 TO 131	----	----
182856	SOUTH WELL	92	91	67 TO 131	0.77	17.70
182868	RET-SE	96	98	66 TO 130	1.46	16.92

References

Reference ID	Target	Found	% Recovery	Control Limits
PB/T/ICP	1000	985	98	89 TO 114
PB/T/ICP	10.0	9.2	92	89 TO 114
PPBMULTI	1000	1040	104	87 TO 114
PPBMULTI	1000	1040	104	88 TO 114

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MAGNESIUM,TOTAL mg/L WA Method: EPA 200.7 Alt. Method: EPA 6010

Duplicates

PPB Number	Client ID	Value 1	Value 2	Range	% RSD	QC Control Limit
182703	RET-SW	3.27	3.28	0.010	0.22	8.02
182825	RET-NS	2.47	2.57	0.10	2.81	7.97
182855	RET-SE	3.30	3.09	0.21	4.65	7.93
182867	RET-SW	3.46	3.42	0.040	0.82	8.06
182983	NE-D	1.63	1.60	0.030	1.31	7.97

Spikes

PPB Number	Client ID	% MS	% MSD	Spike Recovery Control Limits	% RSD	% RSD Control Limit
182704	RET-SE	99	99	74 TO 134	0.00	NO DATA
182826	RET-SW	72	94	75 TO 134	18.74	5.71
182826	RET-SW	100	---	75 TO 134	----	----
182856	SOUTH WELL	97	98	71 TO 136	0.73	37.72
182868	RET-SE	100	102	71 TO 136	1.40	32.20

References

Reference ID	Target	Found	% Recovery	Control Limits
PPBMULTI	20.0	18.9	94	89 TO 109
PPBMULTI	20.0	18.7	94	89 TO 109
PPBMULTI	20.0	20.3	102	89 TO 109

MANGANESE,TOTAL ug/L WA Method: EPA 200.7 Alt. Method: EPA 6010

Duplicates

PPB Number	Client ID	Value 1	Value 2	Range	% RSD	QC Control Limit
182703	RET-SW	8.0	8.0	0	0.00	11.21
182825	RET-NS	4.3	4.4	0.10	1.63	11.20
182855	RET-SE	9.9	9.3	0.60	4.42	11.21
182867	RET-SW	8.7	8.5	0.20	1.64	11.26
182983	NE-D	0.6	0.6	0	0.00	NO DATA

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Spikes

PPB Number	Client ID	% MS	% MSD	Spike Recovery Control Limits	% RSD	% RSD Control Limit
182704	RET-SE	94	94	73 TO 111	0.00	10.95
182826	RET-SW	74	91	73 TO 111	14.57	10.81
182826	RET-SW	104	---	73 TO 111	----	----
182856	SOUTH WELL	92	93	71 TO 113	0.76	14.86
182868	RET-SE	94	97	72 TO 112	2.22	14.24

References

Reference ID	Target	Found	% Recovery	Control Limits
PPBMULTI	1000	959	96	90 TO 112
PPBMULTI	1000	949	95	90 TO 112
PPBMULTI	1000	1010	101	90 TO 112

MERCURY,TOTAL ug/L WA Method: EPA 245.1 Alt. Method: EPA 7470

Duplicates

PPB Number	Client ID	Value 1	Value 2	Range	% RSD	QC Control Limit
182702	RET-NS	<0.10	<0.10	0	0.00	NO DATA
182829	SOUTH WELL	<0.10	<0.10	0	0.00	NO DATA
182982	NE-S(DUPLICATE)	<0.10	<0.10	0	0.00	NO DATA

Spikes

PPB Number	Client ID	% MS	% MSD	Spike Recovery Control Limits	% RSD	% RSD Control Limit
182703	RET-SW	90	---	40 TO 140	----	----
182830	WEST-D	83	---	40 TO 140	----	----
182866	RET-ND	78	---	39 TO 140	----	----
182983	NE-D	86	---	39 TO 140	----	----

QC REPORT FOR US ARMY CORPS OF ENGINEERS 07/01/00 PAGE 21

References

Reference ID	Target	Found	% Recovery	Control Limits
FISHER 3.0	3.00	2.83	94	63 TO 142

NICKEL,TOTAL ug/L WA Method: EPA 200.7 Alt. Method: EPA 6010

Duplicates

PPB Number	Client ID	Value 1	Value 2	Range	% RSD	QC Control Limit
182703	RET-SW	<2.0	<2.0	0	0.00	NO DATA
182825	RET-NS	<2.0	<2.0	0	0.00	NO DATA
182855	RET-SE	<2.0	<2.0	0	0.00	NO DATA
182867	RET-SW	<2.0	<2.0	0	0.00	NO DATA
182983	NE-D	<2.0	<2.0	0	0.00	NO DATA

Spikes

PPB Number	Client ID	% MS	% MSD	Spike Recovery Control Limits	% RSD	% RSD Control Limit
182704	RET-SE	91	91	68 TO 124	0.00	6.21
182826	RET-SW	74	88	67 TO 124	12.22	6.09
182826	RET-SW	102	---	67 TO 124	----	----
182856	SOUTH WELL	90	89	68 TO 122	0.79	16.99
182868	RET-SE	91	92	67 TO 122	0.77	15.78

References

Reference ID	Target	Found	% Recovery	Control Limits
PPBMULTI	1000	977	98	90 TO 112
PPBMULTI	1000	958	96	90 TO 112
PPBMULTI	1000	1030	103	90 TO 112

thod: EPA 258.1 Alt. Method: EPA 7610

1	Value 2	Range	% RSD	QC Control Limit
	0.55	0.040	4.96	9.03
	1.10	0.010	0.65	9.52
	0.56	0.040	5.24	9.12
	0.29	0.050	13.34	9.61
	4.00	0.030	0.53	NO DATA

MSD	Spike Recovery Control Limits	% RSD	% RSD Control Limit
--	72 TO 134	----	----
--	72 TO 136	----	----
--	72 TO 137	----	----
--	70 TO 140	----	----

Limits

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thod: EPA 200.7 Alt. Method: EPA 6010

1	Value 2	Range	% RSD	QC Control Limit
	<2.0	0	0.00	14.98
	<2.0	0	0.00	14.50
	<2.0	0	0.00	14.02
	<2.0	0	0.00	13.59
	<2.0	0	0.00	13.14

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Spikes

PPB Number	Client ID	% MS	% MSD	Spike Recovery Control Limits	% RSD	% RSD Control Limit
182704	RET-SE	93	91	58 TO 143	1.54	6.29
182826	RET-SW	83	90	59 TO 140	5.72	5.19
182826	RET-SW	104	---	59 TO 140	----	----
182856	SOUTH WELL	81	79	59 TO 138	1.77	9.01
182868	RET-SE	88	98	56 TO 138	7.60	8.23

References

Reference ID	Target	Found	% Recovery	Control Limits
PPBMULTI	200	185	92	77 TO 132
PPBMULTI	200	182	91	74 TO 132
PPBMULTI	200	213	106	72 TO 131
PPBMULTI	200	213	106	74 TO 130

SILVER,TOTAL ug/L WA Method: EPA 200.7 Alt. Method: EPA 6010

Duplicates

PPB Number	Client ID	Value 1	Value 2	Range	% RSD	QC Control Limit
182703	RET-SW	0.13	<0.10	0.080	62.85	50.02
182825	RET-NS	<0.10	<0.10	0	0.00	62.90
182855	RET-SE	<0.10	<0.10	0	0.00	61.79
182867	RET-SW	<0.10	<0.10	0	0.00	58.75
182983	NE-D	<0.10	<0.10	0	0.00	56.91

Spikes

PPB Number	Client ID	% MS	% MSD	Spike Recovery Control Limits	% RSD	% RSD Control Limit
182704	RET-SE	76	---	38 TO 146	----	----
182826	RET-SW	79	---	38 TO 145	----	----
182856	SOUTH WELL	92	---	38 TO 144	----	----
182868	RET-SE	70	---	41 TO 142	----	----
182983	NE-D	68	---	39 TO 141	----	----

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References

Reference ID	Target	Found	% Recovery	Control Limits
RICCA	1000	928	93	66 TO 134
WW9988	211	177	84	66 TO 133
WW9988	211	199	94	65 TO 133

SODIUM,TOTAL mg/L WA Method: EPA 200.7 Alt. Method: EPA 6010

Duplicates

PPB Number	Client ID	Value 1	Value 2	Range	% RSD	QC Control Limit
182703	RET-SW	27.5	27.6	0.10	0.26	9.25
182825	RET-NS	26.4	27.2	0.80	2.11	9.09
182855	RET-SE	24.9	23.5	1.4	4.09	8.98
182867	RET-SW	27.1	27.0	0.10	0.26	8.93
182983	NE-D	24.4	24.0	0.40	1.17	8.82

Spikes

PPB Number	Client ID	% MS	% MSD	Spike Recovery Control Limits	% RSD	% RSD Control Limit
182704	RET-SE	107	108	67 TO 139	0.66	7.67
182826	RET-SW	87	---	67 TO 139	----	----
182826	RET-SW	107	---	67 TO 139	----	----
182856	SOUTH WELL	101	106	67 TO 136	3.42	7.39
182868	RET-SE	101	104	70 TO 132	2.07	6.92

References

Reference ID	Target	Found	% Recovery	Control Limits
PPBMULTI	20.0	18.6	93	83 TO 119
PPBMULTI	20.0	18.6	93	82 TO 119
PPBMULTI	20.0	20.1	100	82 TO 119

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THALLIUM,TOTAL ug/L WA Method: EPA 200.7 Alt. Method: EPA 6010

Duplicates

PPB Number	Client ID	Value 1	Value 2	Range	% RSD	QC Control Limit
182703	RET-SW	<5.0	<5.0	0	0.00	NO DATA
182825	RET-NS	<5.0	<5.0	0	0.00	NO DATA
182855	RET-SE	<5.0	<5.0	0	0.00	NO DATA
182867	RET-SW	<5.0	<5.0	0	0.00	NO DATA
182983	NE-D	<5.0	<5.0	0	0.00	NO DATA

Spikes

PPB Number	Client ID	% MS	% MSD	Spike Recovery Control Limits	% RSD	% RSD Control Limit
182704	RET-SE	108	92	NO DATA	11.31	NO DATA
182826	RET-SW	78	97	66 TO 134	15.35	NO DATA
182826	RET-SW	106	---	66 TO 134	----	----
182856	SOUTH WELL	80	96	60 TO 132	12.86	21.91
182868	RET-SE	96	109	59 TO 129	8.96	19.29

References

Reference ID	Target	Found	% Recovery	Control Limits
PPBMULTI	200	202	101	NO DATA
PPBMULTI	200	202	101	NO DATA

ZINC,TOTAL ug/L WA Method: EPA 200.7 Alt. Method: EPA 6010

Duplicates

PPB Number	Client ID	Value 1	Value 2	Range	% RSD	QC Control Limit
182703	RET-SW	2.4	2.2	0.20	6.15	NO DATA
182825	RET-NS	<2.0	<2.0	0	0.00	NO DATA
182855	RET-SE	3.0	2.9	0.10	2.40	NO DATA
182867	RET-SW	2.7	<2.0	1.7	64.98	NO DATA
182983	NE-D	<2.0	<2.0	0	0.00	NO DATA

QC REPORT FOR US ARMY CORPS OF ENGINEERS 07/01/00 PAGE 26

Spikes

PPB Number	Client ID	% MS	% MSD	Spike Recovery Control Limits	% RSD	% RSD Control Limit
182704	RET-SE	92	92	68 TO 121	0.00	8.16
182826	RET-SW	74	88	68 TO 121	12.22	8.12
182826	RET-SW	100	---	68 TO 121	----	----
182856	SOUTH WELL	94	95	66 TO 122	0.75	10.28
182868	RET-SE	92	96	66 TO 122	3.01	10.06

References

Reference ID	Target	Found	% Recovery	Control Limits
PPBMULTI	1000	998	100	88 TO 115
PPBMULTI	1000	980	98	88 TO 115
PPBMULTI	1000	1010	101	88 TO 115
PPBMULTI	1000	1010	101	88 TO 115

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DATE, TIME, ANALYST REPORT

ANALYSIS	METHOD	PREP DATE	PREP BY	ANALYSIS DATE	TIME	BY	MATRIX
AG/T/ICP	EPA 200.7	04/06/00	CEP	04/17/00	1030	ECS	WA
AG/T/ICP	EPA 200.7	04/11/00	CEP	05/09/00	0950	CEP	WA
AS/T/ICP	EPA 200.7	04/06/00	CEP	04/10/00	1530	ECS	WA
AS/T/ICP	EPA 200.7	04/11/00	CEP	04/13/00	1300	ECS	WA
BA/T/ICP	EPA 200.7	04/06/00	CEP	04/10/00	1530	ECS	WA
BA/T/ICP	EPA 200.7	04/11/00	CEP	04/13/00	1300	ECS	WA
BE/T/ICP	EPA 200.7	04/06/00	CEP	04/10/00	1530	ECS	WA
BE/T/ICP	EPA 200.7	04/11/00	CEP	04/13/00	1300	ECS	WA
CA/T/ICP	EPA 200.7	04/06/00	CEP	04/10/00	1530	ECS	WA
CA/T/ICP	EPA 200.7	04/11/00	CEP	04/13/00	1300	ECS	WA
CA/T/ICP	EPA 200.7	04/11/00	CEP	04/22/00	0800	CEP	WA
CD/T/ICP	EPA 200.7	04/06/00	CEP	04/10/00	1530	ECS	WA
CD/T/ICP	EPA 200.7	04/11/00	CEP	04/13/00	1300	ECS	WA
CL-	EPA 325.2	/ /		04/12/00	0800	AMW	WA
COLIF,FEC	SM 908C	/ /		03/30/00	1720	KL	WA
COLIF,FEC	SM 908C	/ /		03/31/00	1600	KL	WA
COLIF,FEC	SM 908C	/ /		04/01/00	1430	KL	WA
COLIF,FEC	SM 908C	/ /		04/02/00	1510	KL	WA
COLIF,FEC	SM 908C	/ /		04/04/00	1600	KL	WA
COLOR	EPA 110.2	/ /		03/31/00	1700	AMW	WA
COLOR	EPA 110.2	/ /		04/01/00	1459	MNR	WA
COLOR	EPA 110.2	/ /		04/02/00	1237	BFC	WA
COLOR	EPA 110.2	/ /		04/03/00	1700	RPP	WA
COLOR	EPA 110.2	/ /		04/05/00	1749	MNR	WA
CR/T/ICP	EPA 200.7	04/06/00	CEP	04/10/00	1530	ECS	WA
CR/T/ICP	EPA 200.7	04/11/00	CEP	04/13/00	1300	ECS	WA
CU/T/ICP	EPA 200.7	04/06/00	CEP	04/10/00	1530	ECS	WA
CU/T/ICP	EPA 200.7	04/11/00	CEP	04/13/00	1300	ECS	WA
F- UND.	EPA 340.2	/ /		04/11/00	1000	BFC	WA
FE/T/ICP	EPA 200.7	04/06/00	CEP	04/10/00	1530	ECS	WA
FE/T/ICP	EPA 200.7	04/11/00	CEP	04/13/00	1300	ECS	WA
HG/T/CVAA	EPA 245.1	/ /		04/13/00	1000	BFC	WA
K/T/FLAA	EPA 258.1	04/06/00	CEP	04/17/00	1300	ECS	WA
MG/T/ICP	EPA 200.7	04/06/00	CEP	04/10/00	1530	ECS	WA
MG/T/ICP	EPA 200.7	04/11/00	CEP	04/13/00	1300	ECS	WA
MN/T/ICP	EPA 200.7	04/06/00	CEP	04/10/00	1530	ECS	WA
MN/T/ICP	EPA 200.7	04/11/00	CEP	04/13/00	1300	ECS	WA
NA/T/ICP	EPA 200.7	04/06/00	CEP	04/10/00	1530	ECS	WA
NA/T/ICP	EPA 200.7	04/11/00	CEP	04/13/00	1300	ECS	WA

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ANALYST REPORT

ANALYSIS ATE	TIME	BY	MATRIX
.9/00	2149	MNR	WA
.0/00	1530	ECS	WA
.3/00	1300	ECS	WA
)7/00	1413	BFC	WA
.7/00	1601	BFC	WA
24/00	2226	MNR	WA
14/00	0630	CEP	WA
14/00	0630	CEP	WA
14/00	0630	CEP	WA
20/00	0900	KDS	WA
19/00	2149	MNR	WA
11/00	1419	FDR	WA
21/00	1400	JK	WA
22/00	1557	FDR	WA
25/00	1450	FDR	WA
)3/00	1545	FKE	WA
)6/00	1545	FKE	WA
10/00	1210	RPP	WA
31/00	1700	AMW	WA
)1/00	1500	MNR	WA
)2/00	1230	VAW	WA
)3/00	1400	RPP	WA
)5/00	1749	MNR	WA
10/00	1530	ECS	WA
13/00	1300	ECS	WA

FEC	F__UND_	NH3	NH3_UNION
0mL	mg/L	mg/L	mg/L
	<0.20	0.452	<0.002
	0.24	0.442	0.004
	<0.20	0.462	<0.002
	<0.20	0.445	<0.002

Table 1. COE S332B Monitoring Wells Samples March 30, 2000 (Page 2 of 6)

STATION ID	LAB NO.	TKN	TON	NO2_NO3	NO2	NO3	NITROGEN_T	TP
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
RET-ND	182701	0.92	0.47	<0.004	<0.003	<0.004	0.92	0.076
RET-NS	182702	1.00	0.56	0.005	<0.003	0.005	1.00	0.171
RET-SW	182703	0.92	0.46	<0.004	<0.003	<0.004	0.92	0.151
RET-SE	182704	0.96	0.52	0.009	<0.003	0.009	0.97	0.145

Table 1. COE S332B Monitoring Wells Samples March 30, 2000 (Page 3 of 6)

STATION ID	LAB NO.	OP	TSS	SO4	TURB	AS_T_ICP	BA_T_ICP	BE_T_ICP	CD_T_ICP
		mg/L	mg/L	mg/L	ntu	ug/L	ug/L	ug/L	ug/L
RET-ND	182701	0.046	4	<1.0	2.5	<10	35.4	<0.4	<0.5
RET-NS	182702	0.122	55	4.8	54	<10	44.6	<0.4	<0.5
RET-SW	182703	0.104	8	3.4	4.4	<10	43.8	<0.4	<0.5
RET-SE	182704	0.109	34	<1.0	19	<10	43.3	<0.4	<0.5

Table 1. COE S332B Monitoring Wells Samples March 30, 2000 (Page 4 of 6)

STATION ID	LAB NO.	CA_T_ICP	CR_T_ICP	CU_T_ICP	FE_T_ICP	PB_T_ICP	MG_T_ICP
		mg/L	ug/L	ug/L	ug/L	ug/L	mg/L
RET-ND	182701	77.8	<3.0	<1.0	134	<3.0	3.45
RET-NS	182702	78.0	<3.0	<1.0	328	<3.0	2.62
RET-SW	182703	76.0	<3.0	<1.0	257	<3.0	3.28
RET-SE	182704	83.8	<3.0	<1.0	326	<3.0	3.23

Table 1. COE S332B Monitoring Wells Samples March 30, 2000 (Page 5 of 6)

STATION ID	LAB NO.	MN_T_ICP	HG_T_CVAA	NI_T_ICP	K_T_FLAA	SE_T_ICP	AG_T_ICP
		ug/L	ug/L	ug/L	mg/L	ug/L	ug/L
RET-ND	182701	7.9	<0.10	<2.0	0.38	<2.0	<0.10
RET-NS	182702	5.4	<0.10	<2.0	1.47	<2.0	<0.10
RET-SW	182703	8.0	<0.10	<2.0	0.57	<2.0	<0.10
RET-SE	182704	10.6	<0.10	<2.0	0.53	<2.0	<0.10

Table 1. COE S332B Monitoring Wells Samples March 30, 2000 (Page 6 of 6)

STATION ID	LAB NO.	NA_T_ICP	TL_T_ICP	ZN_T_ICP
		mg/L	ug/L	ug/L
RET-ND	182701	27.8	<5.0	<2.0
RET-NS	182702	28.4	<5.0	2.2
RET-SW	182703	27.6	<5.0	2.3
RET-SE	182704	24.0	<5.0	2.2

IF_FEC	F__UND_	NH3
/100mL	mg/L	mg/L
<1	<0.20	0.436
<1	0.20	0.456
<1	<0.20	0.447
<1	<0.20	0.416
<1	<0.20	0.452
<1	<0.20	0.446
2	<0.20	0.504
1	<0.20	0.481

NH3_UNION	TKN	TON	NO2_NO3	NO2	NO3
mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
<0.002	1.00	0.56	<0.004	<0.003	<0.004
0.003	0.98	0.52	<0.004	<0.003	<0.004
<0.002	0.91	0.46	<0.004	<0.003	<0.004
<0.002	0.89	0.47	<0.004	<0.003	<0.004
<0.002	0.93	0.48	<0.004	<0.003	<0.004
0.004	1.39	0.94	<0.004	<0.003	<0.004
<0.002	1.01	0.51	0.004	<0.003	0.004
<0.002	1.07	0.59	<0.004	<0.003	<0.004

. COE S332B Monitoring Wells Sampled March 31, 2000 (Page 3 of 7)

ATION ID	LAB NO.	NITROGEN_T	TP	OP	TSS	SO4	TURB
		mg/L	mg/L	mg/L	mg/L	mg/L	ntu
D	182824	1.00	0.122	0.074	2	<1.0	1.1
S	182825	0.98	0.220	0.144	24	3.8	15
W	182826	0.91	0.190	0.140	2	2.0	1.0
E	182827	0.89	0.201	0.129	8	<1.0	1.9
H WELL	182828	0.93	0.139	0.085	28	<1.0	22
H WELL	182829	1.39	0.141	0.110	20	3.5	2.6
-D	182830	1.01	0.091	0.049	14	<1.0	8.4
-S	182831	1.07	0.130	0.065	32	<1.0	8.4

ICP	CD_T_ICP	CA_T_ICP
.	ug/L	mg/L
.	<0.5	81.7
.	<0.5	57.6
.	<0.5	76.7
.	<0.5	77.9
.	<0.5	88.4
.	<0.5	71.9
.	<0.5	81.4
.	<0.5	83.4

Table 2. COE S332B Monitoring Wells Sampled March 31, 2000 (Page 5 of 7)

STATION ID	LAB NO.	CR_T_ICP	CU_T_ICP	FE_T_ICP	PB_T_ICP	MG_T_ICP
		ug/L	ug/L	ug/L	ug/L	mg/L
RET-ND	182824	<3.0	<1.0	138	<3.0	3.60
RET-NS	182825	<3.0	<1.0	150	<3.0	2.52
RET-SW	182826	<3.0	<1.0	216	<3.0	3.42
RET-SE	182827	<3.0	<1.0	151	<3.0	2.95
NORTH WELL	182828	<3.0	<1.0	213	<3.0	3.40
SOUTH WELL	182829	<3.0	<1.0	440	<3.0	2.43
WEST-D	182830	<3.0	<1.0	290	<3.0	3.50
WEST-S	182831	<3.0	<1.0	296	<3.0	3.40

Table 2. COE S332B Monitoring Wells Sampled March 31, 2000 (Page 6 of 7)

STATION ID	LAB NO.	MN_T_ICP	HG_T_CVAA	NI_T_ICP	K_T_FLAA	SE_T_ICP
		ug/L	ug/L	ug/L	mg/L	ug/L
RET-ND	182824	8.3	<0.10	<2.0	0.38	<2.0
RET-NS	182825	4.4	<0.10	<2.0	1.10	<2.0
RET-SW	182826	9.2	<0.10	<2.0	0.41	<2.0
RET-SE	182827	8.7	<0.10	<2.0	1.06	<2.0
NORTH WELL	182828	11.2	<0.10	<2.0	0.39	<2.0
SOUTH WELL	182829	7.4	<0.10	<2.0	0.72	<2.0
WEST-D	182830	8.4	<0.10	<2.0	0.41	<2.0
WEST-S	182831	9.7	<0.10	<2.0	0.44	<2.0

Table 2. COE S332B Monitoring Wells Sampled March 31, 2000 (Page 7 of 7)

STATION ID	LAB NO.	AG_T_ICP	NA_T_ICP	TL_T_ICP	ZN_T_ICP
		ug/L	mg/L	ug/L	ug/L
RET-ND	182824	<0.10	29.1	<5.0	3.2
RET-NS	182825	<0.10	26.8	<5.0	<2.0
RET-SW	182826	<0.10	27.8	<5.0	3.0
RET-SE	182827	<0.10	23.0	<5.0	2.2
NORTH WELL	182828	<0.10	25.4	<5.0	2.5
SOUTH WELL	182829	<0.10	21.7	<5.0	<2.0
WEST-D	182830	<0.10	27.8	<5.0	2.8
WEST-S	182831	<0.10	26.6	<5.0	4.0

Table 3. COE S332B Monitoring Wells Sampled April 1, 2000 (Page 1 of 7)

STATION ID	LAB NO.	TOC	CL_	COLOR	COLIF_FEC	F__UND_	NH3
		mg/L	mg/L	cpu	col./100mL	mg/L	mg/L
RET-ND	182852	8.20	44.0	20	<1	<0.20	0.419
RET-NS	182853	8.64	43.0	25	<1	<0.20	0.444
RET-SW	182854	7.97	43.4	25	<1	<0.20	0.452
RET-SE	182855	8.42	39.1	25	<1	<0.20	0.411
SOUTH WELL	182856	8.43	40.4	20	<1	<0.20	0.455
WEST-D	182857	9.87	49.2	20	<1	0.21	0.502
WEST-S	182858	9.62	45.7	20	<1	<0.20	0.440
NORTH WELL	182859	9.42	45.7	20	<1	0.26	0.462

Table 3. COE S332B Monitoring Wells Sampled April 1, 2000 (Page 2 of 7)

STATION ID	LAB NO.	NH3_UNION	TKN	TON	NO2_NO3	NO2	NO3
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
RET-ND	182852	<0.002	0.84	0.42	<0.004	<0.003	<0.004
RET-NS	182853	<0.002	0.97	0.53	<0.004	<0.003	<0.004
RET-SW	182854	<0.002	0.95	0.50	<0.004	<0.003	<0.004
RET-SE	182855	<0.002	0.97	0.56	<0.004	<0.003	<0.004
SOUTH WELL	182856	0.089	0.98	0.52	0.004	0.003	<0.004
WEST-D	182857	<0.002	1.15	0.65	<0.004	<0.003	<0.004
WEST-S	182858	<0.002	0.96	0.52	<0.004	<0.003	<0.004
NORTH WELL	182859	<0.002	0.98	0.52	<0.004	<0.003	<0.004

	LAB NO.	NITROGEN_T	TP	OP	TSS	SO4	TURB
		mg/L	mg/L	mg/L	mg/L	mg/L	ntu
	182852	0.84	0.145	0.082	3	<1.0	1.0
	182853	0.97	0.186	0.157	10	1.6	5.6
	182854	0.95	0.171	0.148	<2	<1.0	1.1
	182855	0.97	0.185	0.148	3	<1.0	1.7
	182856	0.98	0.234	0.140	38	2.6	31
	182857	1.15	0.093	0.068	13	<1.0	9.6
	182858	0.96	0.149	0.112	21	1.1	9.7
	182859	0.98	0.169	0.099	40	5.3	15

ICP	BE_T_ICP	CD_T_ICP	CA_T_ICP	CR_T_ICP
.	ug/L	ug/L	mg/L	ug/L
)	<0.4	<0.5	78.7	<3.0
)	<0.4	<0.5	56.9	<3.0
)	<0.4	<0.5	81.3	<3.0
)	<0.4	<0.5	79.0	<3.0
)	<0.4	<0.5	86.0	<3.0
)	<0.4	<0.5	84.8	<3.0
)	<0.4	<0.5	86.5	<3.0
)	<0.4	<0.5	94.2	<3.0

ON ID	LAB NO.	CU_T_ICP	FE_T_ICP	PB_T_ICP	MG_T_ICP	MN_T_ICP	HG_T_CVAA
		ug/L	ug/L	ug/L	mg/L	ug/L	ug/L
	182852	<1.0	170	<3.0	3.40	7.8	<0.10
	182853	<1.0	149	<3.0	2.81	4.4	<0.10
	182854	<1.0	287	<3.0	3.55	9.1	<0.10
	182855	<1.0	243	<3.0	3.20	9.6	<0.10
VELL	182856	<1.0	307	<3.0	2.32	4.7	<0.10
	182857	1.8	267	<3.0	3.64	9.0	<0.10
	182858	<1.0	286	<3.0	3.60	11.1	<0.10
VELL	182859	<1.0	214	<3.0	3.25	10.7	<0.10

e 3. COE S332B Monitoring Wells Sampled April 1, 2000 (Page 6 of 7)

TATION ID	LAB NO.	NI_T_ICP	K_T_FLAA	SE_T_ICP	AG_T_ICP	NA_T_ICP	TL_T_ICP
		ug/L	mg/L	ug/L	ug/L	mg/L	ug/L
-ND	182852	<2.0	0.27	<2.0	<0.10	26.3	<5.0
-NS	182853	<2.0	0.55	<2.0	<0.10	26.6	<5.0
-SW	182854	<2.0	0.35	<2.0	<0.10	28.1	<5.0
-SE	182855	<2.0	0.54	<2.0	<0.10	24.2	<5.0
TH WELL	182856	<2.0	1.18	2.4	<0.10	24.1	<5.0
T-D	182857	<2.0	0.37	<2.0	<0.10	28.2	<5.0
T-S	182858	<2.0	0.39	<2.0	<0.10	28.1	<5.0
TH WELL	182859	<2.0	1.26	2.2	<0.10	26.2	<5.0

Table 3. COE S332B Monitoring Wells Sampled April 1, 2000 (Page 7 of 7)

STATION ID	LAB NO.	ZN_T_ICP
		ug/L
RET-ND	182852	<2.0
RET-NS	182853	3.5
RET-SW	182854	<2.0
RET-SE	182855	3.0
SOUTH WELL	182856	<2.0
WEST-D	182857	3.1
WEST-S	182858	2.1
NORTH WELL	182859	2.2

Table 4. COE S332B Monitoring Wells Sampled April 2, 2000 (Page 1 of 6)

STATION ID	LAB NO.	TOC	CL_	COLOR	COLIF_FEC	F__UND_	NH3	NH3_UNION
		mg/L	mg/L	cpu	col./100mL	mg/L	mg/L	mg/L
RET-NS	182865	7.66	41.9	20	2	<0.20	0.446	0.002
RET-ND	182866	7.35	45.2	20	<1	<0.20	0.416	<0.002
RET-SW	182867	7.78	45.0	25	<1	<0.20	0.443	<0.002
RET-SE	182868	8.07	41.8	15	<1	<0.20	0.431	0.003
SOUTH WELL	182869	7.79	38.3	25	<1	<0.20	0.452	0.076
WEST-D	182870	5.57	47.9	15	1	<0.20	0.494	0.002
WEST-S	182871	8.25	47.4	25	7	<0.20	0.454	0.003
NORTH WELL	182872	8.01	45.2	15	<1	0.23	0.469	<0.002

Table 4. COE S332B Monitoring Wells Sampled April 2, 2000 (Page 2 of 6)

STATION ID	LAB NO.	TKN	TON	NO2_NO3	NO2	NO3	NITROGEN_T
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
RET-NS	182865	0.92	0.47	0.027	<0.003	0.027	0.95
RET-ND	182866	0.89	0.47	<0.004	<0.003	<0.004	0.89
RET-SW	182867	0.85	0.41	<0.004	<0.003	<0.004	0.85
RET-SE	182868	0.80	0.37	<0.004	<0.003	<0.004	0.80
SOUTH WELL	182869	1.00	0.55	<0.004	<0.003	<0.004	1.00
WEST-D	182870	0.96	0.47	<0.004	<0.003	<0.004	0.96
WEST-S	182871	1.06	0.61	<0.004	<0.003	<0.004	1.06
NORTH WELL	182872	0.94	0.47	<0.004	<0.003	<0.004	0.94

ICP	BA_T_ICP
L	ug/L
)	36.6
)	41.4
)	47.5
)	56.0
)	73.9
)	35.1
)	48.9
)	57.8

_ICP	CA_T_ICP	CR_T_ICP	CU_T_ICP	FE_T_ICP
/L	mg/L	ug/L	ug/L	ug/L
.5	57.3	<3.0	1.2	176
5	82.4	<3.0	<1.0	234
.5	77.2	<3.0	<1.0	331
.5	78.7	<3.0	<1.0	282
.5	82.4	<3.0	1.1	239
5	82.2	<3.0	1.4	332
5	83.9	<3.0	1.1	342
.5	86.0	<3.0	1.2	248

LAB NO.	PB_T_ICP	MG_T_ICP	MN_T_ICP	HG_T_CVAA	NI_T_ICP	K_T_FLAA
	ug/L	mg/L	ug/L	ug/L	ug/L	mg/L
182865	<3.0	2.85	4.3	<0.10	<2.0	0.53
182866	<3.0	3.62	8.2	<0.10	<2.0	0.27
182867	<3.0	3.44	8.6	<0.10	<2.0	0.26
182868	<3.0	3.31	9.1	<0.10	<2.0	0.45
182869	<3.0	2.68	5.7	<0.10	<2.0	1.43
182870	<3.0	3.64	8.6	<0.10	<2.0	0.38
182871	<3.0	3.67	10.3	<0.10	<2.0	0.35
182872	<3.0	3.20	9.7	<0.10	<2.0	0.97

Table 4. COE S332B Monitoring Wells Sampled April 2, 2000 (Page 6 of 6)

STATION ID	LAB NO.	SE_T_ICP	AG_T_ICP	NA_T_ICP	TL_T_ICP	ZN_T_ICP
		ug/L	ug/L	mg/L	ug/L	ug/L
RET-NS	182865	<2.0	<0.10	25.7	<5.0	2.6
RET-ND	182866	<2.0	<0.10	28.3	<5.0	3.2
RET-SW	182867	<2.0	<0.10	27.0	<5.0	<2.0
RET-SE	182868	<2.0	<0.10	25.1	<5.0	3.9
SOUTH WELL	182869	<2.0	<0.10	26.4	<5.0	2.8
WEST-D	182870	<2.0	<0.10	29.0	<5.0	3.4
WEST-S	182871	<2.0	<0.10	29.0	<5.0	8.4
NORTH WELL	182872	<2.0	<0.10	26.3	<5.0	4.1

TOC	CL_	COLOR	COLIF_FEC	F__UND_	NH3	NH3_UNION
ng/L	mg/L	cpu	col./100mL	mg/L	mg/L	mg/L
10.4	39.2	20	1	0.24	0.374	<0.002
18.2	36.4	20	2	0.24	0.384	<0.002
7.97	37.0	10	<1	<0.20	0.443	>0.372

TE: Due to operational constraints, well NE-S was sampled immediately er installation. This schedule did not allow for proper well development. In likelihood, this accounted for the poor agreement between well NE-S and a plicate sample for the same well.

Table 5. COE S332B Monitoring Wells Sampled April 4, 2000 (Page 2 of 6)

STATION ID	LAB NO.	TKN	TON	NO2_NO3	NO2	NO3	NITROGEN_T
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
NE-S	182981	1.00	0.63	<0.004	<0.003	<0.004	1.00
NE-S(DUPLICATE)	182982	0.92	0.54	0.004	<0.003	0.004	0.92
NE-D	182983	1.32	0.88	<0.004	<0.003	<0.004	1.32

Table 5. COE S332B Monitoring Wells Sampled April 4, 2000 (Page 3 of 6)

STATION ID	LAB NO.	TP	OP	TSS	SO4	TURB	AS_T_ICP	BA_T_ICP
		mg/L	mg/L	mg/L	mg/L	ntu	ug/L	ug/L
NE-S	182981	0.154	0.086	102	2.4	60	<10	44.6
NE-S(DUPLICATE)	182982	0.191	0.101	77	4.9	85	<10	45.0
NE-D	182983	0.194	0.031	43	24.2	17	<10	67.0

CP	FE_T_ICP
	ug/L
	411
	348
	48.6

Table 5. COE S332B Monitoring Wells Sampled April 4, 2000 (Page 5 of 6)

STATION ID	LAB NO.	PB_T_ICP	MG_T_ICP	MN_T_ICP	HG_T_CVAA	NI_T_ICP	K_T_FLAA
		ug/L	mg/L	ug/L	ug/L	ug/L	mg/L
NE-S	182981	<3.0	3.33	9.1	<0.10	<2.0	0.81
NE-S(DUPLICATE)	182982	<3.0	3.43	9.0	<0.10	<2.0	0.50
NE-D	182983	<3.0	1.62	0.6	<0.10	<2.0	4.02

Table 5. COE S332B Monitoring Wells Sampled April 4, 2000 (Page 6 of 6)

STATION ID	LAB NO.	SE_T_ICP	AG_T_ICP	NA_T_ICP	TL_T_ICP	ZN_T_ICP
		ug/L	ug/L	mg/L	ug/L	ug/L
NE-S	182981	<2.0	<0.10	22.1	<5.0	4.5
NE-S(DUPLICATE)	182982	<2.0	<0.10	23.0	<5.0	3.2
NE-D	182983	<2.0	<0.10	24.2	<5.0	<2.0

eported as

-SW	RET-SE
826	182827
/00	3/31/00
016	<0.016
016	<0.016
018	<0.018
091	<0.0091
096	<0.0096
029	<0.029
076	<0.0076
015	<0.015
047	<0.0047
014	<0.014
013	<0.013
064	<0.0064
064	<0.0064
010	<0.010
087	<0.0087
018	<0.018
011	<0.011
042	<0.0042
16	<0.16

ing Wells Sampled March 30-April 4, 2000. All data reported as

WEST-D	WEST-S	RET-ND	RET-NS	RET-SW	RET-SE	SOUTH WELL
182830	182831	182852	182853	182854	182855	182856
3/31/00	3/31/00	4/1/00	4/1/00	4/1/00	4/1/00	4/1/00
<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016
<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016
<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018
<0.0091	<0.0091	<0.0091	<0.0091	<0.0091	<0.0091	<0.0091
<0.0096	<0.0096	<0.0096	<0.0096	<0.0096	<0.0096	<0.0096
<0.029	<0.029	<0.029	<0.029	<0.029	<0.029	<0.029
<0.0076	<0.0076	<0.0076	<0.0076	<0.0076	<0.0076	<0.0076
<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047
<0.014	<0.014	<0.014	<0.014	<0.014	<0.014	<0.014
<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013
<0.0064	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064
<0.0064	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064
<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
<0.0087	<0.0087	<0.0087	<0.0087	<0.0087	<0.0087	<0.0087
<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018
<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011
<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042
<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16

Table 6. Pesticides for COE 332B Monitoring Wells Sampled March 30-April 4, 2000. All data reported as micrograms per liter, ug/L (Page 3 of 4)

Station ID:	WEST-D	WEST-S	NORTH WELL	RET-NS	RET-ND	RET-SW	RET-SE	SOUTH WELL	WEST-D
PPB #:	182857	182858	182859	182865	182866	182867	182868	182869	182870
Sampling Date:	4/1/00	4/1/00	4/1/00	4/1/00	4/2/00	4/2/00	4/2/00	4/2/00	4/2/00
Aldrin	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016
alpha-BHC	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016
beta-BHC	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018
delta-BHC	<0.0091	<0.0091	<0.0091	<0.0091	<0.0091	<0.0091	<0.0091	<0.0091	<0.0091
gamma-BHC (Lindane)	<0.0096	<0.0096	<0.0096	<0.0096	<0.0096	<0.0096	<0.0096	<0.0096	<0.0096
Chlordane	<0.029	<0.029	<0.029	<0.029	<0.029	<0.029	<0.029	<0.029	<0.029
4,4' -DDD	<0.0076	<0.0076	<0.0076	<0.0076	<0.0076	<0.0076	<0.0076	<0.0076	<0.0076
4,4' -DDE	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
4,4' -DDT	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047
Dieldrin	<0.014	<0.014	<0.014	<0.014	<0.014	<0.014	<0.014	<0.014	<0.014
Endosulfan I	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013
Endosulfan II	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064
Endosulfan Sulfate	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064
Endrin	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Endrin aldehyde	<0.0087	<0.0087	<0.0087	<0.0087	<0.0087	<0.0087	<0.0087	<0.0087	<0.0087
Heptachlor	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018
Heptachlor epoxide	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011
Methoxychlor	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042
Toxaphene	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16

Table 6. Pesticides for COE 332B Monitoring Wells Sampled March 30-April 4, 2000. All data reported as micrograms per liter, ug/L (Page 4 of 4)

Station ID:	WEST-S	NORTH WELL	NE-S	NE-S (Duplicate)	NE-D
PPB #:	182871	182872	182981	182982	182983
Sampling Date:	4/2/00	4/2/00	4/4/00	4/4/00	4/4/00
Aldrin	<0.016	<0.016	<0.016	<0.016	<0.016
alpha-BHC	<0.016	<0.016	<0.016	<0.016	<0.016
beta-BHC	<0.018	<0.018	<0.018	<0.018	<0.018
delta-BHC	<0.0091	<0.0091	<0.0091	<0.0091	<0.0091
gamma-BHC (Lindane)	<0.0096	<0.0096	<0.0096	<0.0096	<0.0096
Chlordane	<0.029	<0.029	<0.029	<0.029	<0.029
4,4' -DDD	<0.0076	<0.0076	<0.0076	<0.0076	<0.0076
4,4' -DDE	<0.015	<0.015	<0.015	<0.015	<0.015
4,4' -DDT	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047
Dieldrin	<0.014	<0.014	<0.014	<0.014	<0.014
Endosulfan I	<0.013	<0.013	<0.013	<0.013	<0.013
Endosulfan II	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064
Endosulfan Sulfate	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064
Endrin	<0.010	<0.010	<0.010	<0.010	<0.010
Endrin aldehyde	<0.0087	<0.0087	<0.0087	<0.0087	<0.0087
Heptachlor	<0.018	<0.018	<0.018	<0.018	<0.018
Heptachlor epoxide	<0.011	<0.011	<0.011	<0.011	<0.011
Methoxychlor	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042
Toxaphene	<0.16	<0.16	<0.16	<0.16	<0.16