SECTION 2.0

WEEKLY GRAB SAMPLES
COLLECTED JANUARY 2000 - JUNE 2000

ppb
ENVIRONMENTAL LABORATORIES, INC.

September 5, 2000

Mr. Jim Riley
Jacksonville District Office
U.S. Army Corps of Engineers
400 West Bay Street
Jacksonville, FL 32202

RE: Water Quality Monitoring Data for Weekly Surface Water Grab Samples for June 2000
Contract No. DACW17-97-D-0001, Delivery Order No. 0049
Cape Sable Seaside Sparrow Emergency Field Sampling Activities, Water Quality Monitoring Effort

Dear Mr. Riley:

Enclosed are the analytical results for the weekly surface water grab samples collected June 6, 13, 14, 22, and 28, 2000 at S-331 (downstream of the pump structure), S-332D (upstream of the pump structure), S-332DW (downstream of the pump structure), L-31W (Taylor Slough - approximately 1.75 miles north of S-332), S-332 (upstream of the pump structure), C113 (near L31), C103 (near L31), C102 (near L31), S-332B, and the weir at the retention area at S-332B. Station locations are indicated on Figure 1. Please note that the station ID includes the date and time of sample collection. For example, station S331-060600-1355 indicates that the sample was collected at S-331 on June 6, 2000 at 1355 hours.

Quality control samples are designated by two-letter suffices as follows:

EB = Equipment Blank	SS = Split Sample
FB = Field Blank	BD = Blind Duplicate

All data were determined in accordance with published procedures (EPA-600/4-79-020, *Methods for Chemical Analysis of Water and Wastes*, Revised March 1983). Our laboratory is certified by the Florida Department of Health (FDH No. E82001).

If you have any questions concerning this report, please contact me.

Sincerely,

Tom Park

Tom Park
Project Manager

MTP:cms

Enclosures

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Table 1. COE Water Quality Monitoring Data for Weekly Grab Samples for June 2000 (Page 1 of 2)

STATION ID	LAB NO.	COLOR	NH3	TKN	NO2_NO3	NO2	NO3
		cpu	mg/L	mg/L	mg/L	mg/L	mg/L
S331-060600-1355	187047	90	0.114	1.82	0.015	0.010	0.005
S332-060600-0815	187048	45	0.049	0.96	0.040	0.007	0.033
S333-060600-0845FB	187049	<5	<0.002	<0.10	<0.004	<0.003	<0.004
S334-060600-0825EB	187050	<5	<0.002	<0.10	<0.004	<0.003	<0.004
S335-060600-0840SS	187051	40	0.051	0.99	0.063	0.007	0.056
S336-060600-0855BD	187052	45	0.051	1.01	0.046	0.008	0.038
S332D-060600-1150	187053	70	0.072	1.40	0.079	0.014	0.065
S332DW-060600-1100	187054	50	0.077	1.05	0.087	0.011	0.076
S332B-060600-1500	187055	90	0.061	1.58	0.062	0.012	0.050
C113-060600-1140	187056	45	0.078	1.07	0.078	0.012	0.066
C102-060600-1330	187057	80	0.087	1.67	0.031	0.010	0.021
C103-060600-1305	187058	80	0.101	1.57	0.076	0.013	0.063
L31WTS-060600-0940	187059	50	0.050	0.99	0.052	0.009	0.043
S332BWEIR-061300-1350	187420	60	0.035	1.50	0.033	0.013	0.020
S332B-061300-1449	187421	60	0.121	1.24	0.038	0.005	0.033
S332-061400-0906	187422	45	0.067	1.08	0.062	0.004	0.058
S333-061400-0845FB	187423	<5	<0.002	<0.10	<0.004	<0.003	<0.004
S334-061400-0851EB	187424	<5	<0.002	<0.10	<0.004	<0.003	<0.004
S335-061400-0906SS	187425	50	0.063	1.20	0.044	0.004	0.040
S336-061400-0919BD	187426	40	0.088	1.13	0.044	0.004	0.040
L31WTS-061400-0958	187427	45	0.031	0.84	0.016	0.004	0.012
S332DW-061400-1146	187428	40	0.113	0.97	0.022	0.003	0.019
C113-061400-1211	187429	20	0.031	0.60	0.036	0.011	0.025
S332D-061400-1227	187430	40	0.074	1.10	<0.004	<0.003	<0.004
C103-061400-1255	187431	45	0.081	1.08	0.032	0.003	0.029
C102-061400-1327	187432	50	0.152	1.20	0.009	<0.003	0.009
S331-061400-1404	187433	60	0.158	1.22	0.011	0.003	0.008
S332-062200-0830	188030	35	0.008	0.82	<0.004	<0.003	<0.004
S335-062200-0905SS	188031	30	0.047	0.84	<0.004	<0.003	<0.004
S333-062200-0925FB	188032	<5	0.041	<0.10	<0.004	<0.003	<0.004
L31WTS-062200-0940	188033	35	0.016	0.90	<0.004	<0.003	<0.004
S332DW-062200-1003	188034	30	0.022	0.92	0.029	<0.003	0.029
C113-062200-1017	188035	20	<0.002	0.53	<0.004	<0.003	<0.004
S332D-062200-1030	188036	30	0.076	0.82	<0.004	<0.003	<0.004
S334-062200-1045EB	188037	<5	0.021	0.12	<0.004	<0.003	<0.004
S336-062200-1110BD	188038	35	0.008	0.88	<0.004	<0.003	<0.004
S332B-062200-1135	188039	35	0.086	0.98	0.038	<0.003	0.038
C103-062200-1245	188040	35	0.078	0.88	0.025	<0.003	0.025
C102-062200-1315	188041	40	0.191	1.12	0.008	<0.003	0.008
S331-062200-1345	188042	40	0.304	1.13	<0.004	<0.003	<0.004
S332-062800-1300	188548	30	<0.002	0.71	0.004	0.003	<0.004
L31WTS-062800-1110	188549	25	<0.002	0.68	<0.004	<0.003	<0.004
S332DW-062800-1400	188550	30	<0.002	0.73	0.005	0.004	<0.004
S332D-062800-1420	188551	20	0.083	0.60	<0.004	<0.003	<0.004
C113-062800-1000	188552	20	<0.002	0.50	<0.004	<0.003	<0.004
C103-062800-1430	188553	25	0.039	0.62	<0.004	<0.003	<0.004
C102-062800-1500	188554	35	0.138	1.00	0.010	0.005	0.005
S331-062800-1530	188555	40	0.249	1.10	<0.004	<0.003	<0.004
S332B-062800-1800	188556	35	<0.002	0.81	0.013	0.005	0.008
S333-062800-0900FB	188557	<5	<0.002	<0.10	<0.004	<0.003	<0.004
S334-062800-0955EB	188558	<5	<0.002	<0.10	<0.004	<0.003	<0.004
S335-062800-1000SS	188559	20	0.062	1.15	0.057	<0.003	0.072
S336-062800-1013BD	188560	20	<0.002	0.58	<0.004	<0.003	<0.004

Table 1. COE Water Quality Monitoring Data for Weekly Grab Samples for June 2000 (Page 2 of 2)

STATION ID	LAB NO.	TP	OP	TSS	TURB	HG_T_CVAA
		mg/L	mg/L	mg/L	ntu	ug/L
S331-060600-1355	187047	0.040	0.006	5	2.1	
S332-060600-0815	187048	0.025	0.005	6	2.0	
S333-060600-0845FB	187049	<0.004	0.002	<2	0.25	
S334-060600-0825EB	187050	0.004	0.002	<2	0.30	
S335-060600-0840SS	187051	0.028	0.004	<2	1.7	
S336-060600-0855BD	187052	0.028	0.005	3	1.9	
S332D-060600-1150	187053	0.042	0.005	4	1.6	
S332DW-060600-1100	187054	0.028	0.006	4	2.1	
S332B-060600-1500	187055	0.045	0.006	3	1.9	
C113-060600-1140	187056	0.020	0.005	2	1.4	
C102-060600-1330	187057	0.042	0.006	<2	1.7	
C103-060600-1305	187058	0.037	0.005	<2	1.8	
L31WTS-060600-0940	187059	0.031	0.005	<2	1.5	
S332BWEIR-061300-1350	187420	0.118	0.013	108	110	<0.1
S332B-061300-1449	187421	0.016	0.010	<2	2.7	<0.1
S332-061400-0906	187422	0.014	0.009	2	1.8	
S333-061400-0845FB	187423	<0.004	<0.002	<2	0.30	
S334-061400-0851EB	187424	<0.004	<0.002	<2	0.35	
S335-061400-0906SS	187425	0.011	0.009	3	2.0	
S336-061400-0919BD	187426	0.014	0.008	2	1.6	
L31WTS-061400-0958	187427	0.014	0.008	4	1.4	
S332DW-061400-1146	187428	0.014	0.008	2	1.6	
C113-061400-1211	187429	0.005	0.008	<2	3.8	
S332D-061400-1227	187430	0.014	0.010	<2	1.7	
C103-061400-1255	187431	0.014	0.010	2	2.0	
C102-061400-1327	187432	0.016	0.009	<2	2.2	
S331-061400-1404	187433	0.025	0.010	<2	2.3	
S332-062200-0830	188030	0.011	0.006	2	1.4	
S335-062200-0905SS	188031	0.014	0.005	<2	1.4	
S333-062200-0925FB	188032	0.008	<0.002	<2	0.30	
L31WTS-062200-0940	188033	0.019	0.006	<2	1.4	
S332DW-062200-1003	188034	0.017	0.006	<2	1.2	
C113-062200-1017	188035	0.033	0.004	<2	1.1	
S332D-062200-1030	188036	0.017	0.004	<2	0.80	
S334-062200-1045EB	188037	0.006	<0.002	<2	0.30	
S336-062200-1110BD	188038	0.017	0.005	4	1.5	
S332B-062200-1135	188039	0.105	0.005	<2	1.2	
C103-062200-1245	188040	0.052	0.005	2	1.2	
C102-062200-1315	188041	0.017	0.006	<2	1.2	
S331-062200-1345	188042	0.019	0.006	5	1.5	
S332-062800-1300	188548	0.015	0.004	3	2.4	
L31WTS-062800-1110	188549	0.021	<0.002	4	2.3	
S332DW-062800-1400	188550	0.021	0.006	3	3.0	
S332D-062800-1420	188551	0.015	0.004	<2	1.4	
C113-062800-1000	188552	0.030	<0.002	4	1.8	
C103-062800-1430	188553	0.027	0.005	4	2.0	
C102-062800-1500	188554	0.018	<0.002	3	2.0	
S331-062800-1530	188555	0.021	0.004	<2	1.5	
S332B-062800-1800	188556	0.024	0.006	2	2.6	
S333-062800-0900FB	188557	<0.004	<0.002	<2	0.30	
S334-062800-0955EB	188558	<0.004	<0.002	4	0.20	
S335-062800-1000SS	188559	0.033	0.008	8	2.7	
S336-062800-1013BD	188560	0.021	0.004	7	2.6	

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

Duplicates

PPB Number	Client ID	Value 1	Value 2	Range	% RSD	QC Control Limit
187051	S335-060600-0840SS	40	40	0	0.00	0.00
187057	C102-060600-1330	80	80	0	0.00	5.11
187425	S335-061400-0906SS	50	50	0	0.00	1.53
188033	L31WTS-062200-0940	35	35	0	0.00	NO DATA
188039	S332B-062200-1135	35	35	0	0.00	NO DATA
188548	S332-062800-1300	30	30	0	0.00	NO DATA
188558	S334-062800-0955EB	<5	<5	0	0.00	NO DATA

NO SPIKE QC DATA FOUND

NO REFERENCE QC DATA FOUND

AMMONIA NITROGEN mg/L WA Method: EPA 350.1 Alt. Method: None

Duplicates

PPB Number	Client ID	Value 1	Value 2	Range	% RSD	QC Control Limit
187047	S331-060600-1355	0.101	0.126	0.025	15.58	11.30
187420	S332BWEIR-061300-1350	0.031	0.039	0.0080	16.16	12.99
188030	S332-062200-0830	0.011	0.006	0.0050	41.59	23.51
188040	C103-062200-1245	0.079	0.076	0.0030	2.74	29.96
188548	S332-062800-1300	<0.002	<0.002	0	0.00	NO DATA
188558	S334-062800-0955EB	<0.002	<0.002	0	0.00	NO DATA

Spikes

PPB Number	Client ID	% MS	% MSD	Spike Recovery Control Limits	% RSD	% RSD Control Limit
187048	S332-060600-0815	102	---	94 TO 111	----	----
187421	S332B-061300-1449	98	---	94 TO 112	----	----
187431	C103-061400-1255	88	---	93 TO 112	----	----
188031	S335-062200-0905SS	93	---	90 TO 113	----	----

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'lient ID	% MS	% MSD	Spike Recovery Control Limits	% RSD	% RSD Control Limit
'102-062200-1315	85	---	90 TO 113	----	----
,31WTS-062800-1110	105	---	86 TO 116	----	----
335-062800-1000SS	97	---	86 TO 116	----	----

Target	Found	% Recovery	Control Limits
13.1	12.4	95	87 TO 123
13.1	13.3	102	87 TO 123
13.1	12.8	98	87 TO 123
13.1	12.9	98	86 TO 123

'ROGEN mg/L WA Method: EPA 351.2 Alt. Method: None

'lient ID	Value 1	Value 2	Range	% RSD	QC Control Limit
333-060600-0845FB	<0.10	<0.10	0	0.00	NO DATA
332D-060600-1150	1.38	1.42	0.040	2.02	15.92
332B-061300-1449	1.25	1.23	0.020	1.14	12.16
,31WTS-061400-0958	0.81	0.86	0.050	4.23	20.69
'102-061400-1327	1.25	1.15	0.10	5.89	15.86
335-062200-0905SS	0.82	0.86	0.040	3.37	25.25
336-062200-1110BD	0.93	0.84	0.090	7.19	25.12
332-062800-1300	0.74	0.67	0.070	7.02	25.51
334-062800-0955EB	<0.10	<0.10	0	0.00	NO DATA

'lient ID	% MS	% MSD	Spike Recovery Control Limits	% RSD	% RSD Control Limit
'335-060600-0840SS	101	---	62 TO 123	----	----
'332D-060600-1150	111	---	57 TO 131	----	----
'332DW-060600-1100	76	---	61 TO 126	----	----

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Recovery l Limits	% RSD	% RSD Control Limit
TO 130	----	----
TO 131	----	----
TO 131	----	----
TO 138	----	----
TO 139	----	----
TO 139	----	----

353.2 Alt. Method: None

Range	% RSD	QC Control Limit
0	0.00	NO DATA
0.0020	2.28	19.60
0.0010	1.63	19.62
0.0040	25.71	NO DATA

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Duplicates

PPB Number	Client ID	Value 1	Value 2	Range	% RSD	QC Control Limit
188030	S332-062200-0830	<0.004	<0.004	0	0.00	NO DATA
188040	C103-062200-1245	0.025	0.025	0	0.00	22.87
188549	L31WTS-062800-1110	<0.004	<0.004	0	0.00	NO DATA
188559	S335-062800-1000SS	0.053	0.061	0.0080	9.92	22.64

Spikes

PPB Number	Client ID	% MS	% MSD	Spike Recovery Control Limits	% RSD	% RSD Control Limit
187051	S335-060600-0840SS	104	---	73 TO 125	----	----
187058	C103-060600-1305	101	---	73 TO 125	----	----
187425	S335-061400-0906SS	104	---	74 TO 119	----	----
187430	S332D-061400-1227	106	---	74 TO 120	----	----
188031	S335-062200-0905SS	102	---	83 TO 118	----	----
188041	C102-062200-1315	117	---	84 TO 119	----	----
188552	C113-062800-1000	102	---	79 TO 122	----	----
188556	S332B-062800-1800	103	---	79 TO 122	----	----

References

Reference ID	Target	Found	% Recovery	Control Limits
WW9983	8.35	8.49	102	87 TO 121
WW9983	8.35	9.49	114	87 TO 120
WW9983	8.35	8.42	101	87 TO 121
WW9983	8.35	8.48	102	87 TO 121
WW9983	8.35	7.15	86	87 TO 121
WW9983	8.53	8.00	96	84 TO 123

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

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Duplicates

PPB Number	Client ID	Value 1	Value 2	Range	% RSD	QC Control Limit
187047	S331-060600-1355	0.011	0.010	0.0010	6.73	NO DATA
187057	C102-060600-1330	0.010	0.010	0	0.00	NO DATA
187425	S335-061400-0906SS	0.003	0.006	0.0030	47.14	NO DATA
187432	C102-061400-1327	<0.003	<0.003	0	0.00	NO DATA
188030	S332-062200-0830	<0.003	<0.003	0	0.00	NO DATA
188040	C103-062200-1245	<0.003	<0.003	0	0.00	NO DATA
188548	S332-062800-1300	0.003	0.003	0	0.00	NO DATA
188558	S334-062800-0955EB	<0.003	<0.003	0	0.00	NO DATA

Spikes

PPB Number	Client ID	% MS	% MSD	Spike Recovery Control Limits	% RSD	% RSD Control Limit
187048	S332-060600-0815	104	---	51 TO 143	----	----
187058	C103-060600-1305	88	---	52 TO 143	----	----
187426	S336-061400-0919BD	93	---	52 TO 143	----	----
187433	S331-061400-1404	80	---	52 TO 143	----	----
188031	S335-062200-0905SS	105	---	51 TO 144	----	----
188041	C102-062200-1315	104	---	51 TO 144	----	----
188549	L31WTS-062800-1110	99	---	51 TO 144	----	----
188559	S335-062800-1000SS	101	---	51 TO 144	----	----

References

Reference ID	Target	Found	% Recovery	Control Limits
ALDRICH	107	104	97	80 TO 119
ALDRICH	107	105.6	99	80 TO 119
ALDRICH	107	112	105	79 TO 119
ALDRICH	107	104	97	79 TO 118

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

: DATA FOUND

TA FOUND

: DATA FOUND

S mg/L WA Method: EPA 365.3 Alt. Method: None

nt ID	Value 1	Value 2	Range	% RSD	QC Control Limit
-060600-1355	0.034	0.045	0.011	19.69	32.48
-060600-1330	0.042	0.042	0	0.00	32.33
BWEIR-061300-1350	0.116	0.119	0.0030	1.81	22.77
D-061400-1227	0.016	0.012	0.0040	20.20	NO DATA
-062200-0830	0.011	0.011	0	0.00	NO DATA
-062200-1245	0.053	0.050	0.0030	4.12	22.13
-062800-1300	0.015	0.015	0	0.00	NO DATA
-062800-1000SS	0.033	0.033	0	0.00	21.47

nt ID	% MS	% MSD	Spike Recovery Control Limits	% RSD	% RSD Control Limit
-060600-0815	105	---	85 TO 125	----	----
-060600-1305	109	---	85 TO 125	----	----
B-061300-1449	96	---	89 TO 121	----	----
-061400-1255	98	---	89 TO 121	----	----
-062200-0905SS	106	---	80 TO 122	----	----
-062200-1315	98	---	80 TO 123	----	----
TS-062800-1110	102	---	83 TO 122	----	----
-062800-1013BD	103	---	83 TO 122	----	----

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nd	% Recovery	Control Limits
33	108	81 TO 122
19	100	81 TO 122

mg/L WA Method: EPA 160.2 Alt. Method: None

	Value 1	Value 2	Range	% RSD	QC Control Limit
	5	<2	4.0	94.28	NO DATA
D	2	3	1.0	28.28	NO DATA
	<2	2	1.0	47.14	NO DATA
	<2	<2	0	0.00	NO DATA
	6	4	2.0	28.28	NO DATA
B	2	<2	1.0	47.14	NO DATA

nd	% Recovery	Control Limits
24	98	31 TO 178
28	114	29 TO 178
28	114	40 TO 163
40	97	41 TO 161

ntu WA Method: EPA 180.1 Alt. Method: None

	Value 1	Value 2	Range	% RSD	QC Control Limit
	2.0	2.2	0.20	6.73	14.45
	1.9	1.6	0.30	12.12	14.68
S	2.0	2.0	0	0.00	17.56
0	1.4	1.4	0	0.00	18.60

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umber	Client ID	Value 1	Value 2	Range	% RSD	QC Control Limit
039	S332B-062200-1135	1.2	1.2	0	0.00	18.60
557	S333-062800-0900FB	0.30	0.30	0	0.00	NO DATA

PIKE QC DATA FOUND

ences

ence ID	Target	Found	% Recovery	Control Limits
ZIN	4000	3385	85	78 TO 123
ZIN	4000	3820	96	76 TO 124
000	4000	3370	84	76 TO 124
ZIN	4000	4200	105	73 TO 127

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

cates

umber	Client ID	Value 1	Value 2	Range	% RSD	QC Control Limit
420	S332BWEIR-061300-1350	<0.1	<0.1	0	0.00	NO DATA

s

umber	Client ID	% MS	% MSD	Spike Recovery Control Limits	% RSD	% RSD Control Limit
421	S332B-061300-1449	65	---	48 TO 130	----	----

ences

ence ID	Target	Found	% Recovery	Control Limits
	3.0	2.7	90	57 TO 141

IX
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ppb
ENVIRONMENTAL LABORATORIES, INC.

DATE, TIME, ANALYST REPORT

ANALYSIS	METHOD	PREP DATE	PREP BY	ANALYSIS DATE	ANALYSIS TIME	ANALYSIS BY	MATRIX
TSS	EPA 160.2	/ /		06/25/00	1700	RPP	WA
TSS	EPA 160.2	/ /		07/04/00	1330	CAB	WA
TSS	EPA 160.2	/ /		07/06/00	1330	CAB	WA
TURB	EPA 180.1	/ /		06/07/00	1530	KDS	WA
TURB	EPA 180.1	/ /		06/15/00	1045	ECS	WA
TURB	EPA 180.1	/ /		06/23/00	1614	MNR	WA
TURB	EPA 180.1	/ /		06/30/00	1630	CAB	WA

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

FDEP QAP 870174

June 30, 2000

411]

for compliance with the laboratory
The quality control parameters
otherwise noted on a Quality Control

230, 83486, 82500, 85512, 84526

080, E83509, E82417, E85370, E84418

t the express written consent of the

be of further assistance, please feel
Client Services Representative.

OR BRANCH
EANOGRAPHIC
NSTITUTION

s

ida

E84418

CH ENVIRONMENTAL LABORATORY
rt Pierce, FL 34946
285

FDEP QAP 870174

HARBOR BRANCH OCEANOGRAPHIC INSTITUTION

PB
DE Everglades Sparrow
02411001
vironmental Water

Sample ID 187420

082

	Prep Date	Analyzed	Result	DL	Units
	06/20/00	06/28/00 RS	ND	0.44	ug/L
	06/20/00	06/28/00 RS	ND	0.17	ug/L
	06/20/00	06/28/00 RS	ND	0.65	ug/L
	06/20/00	06/28/00 RS	ND	0.57	ug/L
	06/20/00	06/28/00 RS	ND	0.47	ug/L
	06/20/00	06/28/00 RS	ND	0.19	ug/L
	06/20/00	06/28/00 RS	ND	0.28	ug/L

	Result	% Recovery	Limits
	.14 ug/L	24 %	(20-136)
ne	.34 ug/L	62 %	(20-136)

HARBOR BRANCH ENVIRONMENTAL LABORATORY
5600 US 1 North, Fort Pierce, FL 34946
561-465-2400, Ext. 285

FDEP QAP 870174

Client:	PPB		
Workorder ID	COE Everglades Sparrow	**Sampled**	06/13/00 00:00
Laboratory ID	2002411002	**Received**	06/16/00 16:15
Sample ID	187421	**Reported**	06/30/00 14:00
Matrix	Environmental Water		

Pesticides Analysis SW-846 8081

Parameter	Prep Date	Analyzed	Result	DL	Units
Aldrin	06/20/00	06/28/00 RS	ND	0.014	ug/L
alpha-BHC	06/20/00	06/28/00 RS	ND	0.014	ug/L
beta-BHC	06/20/00	06/28/00 RS	ND	0.016	ug/L
delta-BHC	06/20/00	06/28/00 RS	ND	0.0082	ug/L
gamma-BHC (Lindane)	06/20/00	06/28/00 RS	ND	0.0087	ug/L
Chlordane	06/20/00	06/28/00 RS	ND	0.027	ug/L
4,4'-DDD	06/20/00	06/28/00 RS	ND	0.0068	ug/L
4,4'-DDE	06/20/00	06/28/00 RS	ND	0.013	ug/L
4,4'-DDT	06/20/00	06/28/00 RS	ND	0.0042	ug/L
Dieldrin	06/20/00	06/28/00 RS	ND	0.012	ug/L
Endosulfan I	06/20/00	06/28/00 RS	ND	0.012	ug/L
Endosulfan II	06/20/00	06/28/00 RS	ND	0.0057	ug/L
Endosulfan sulfate	06/20/00	06/28/00 RS	ND	0.0058	ug/L
Endrin	06/20/00	06/28/00 RS	ND	0.0091	ug/L
Endrin aldehyde	06/20/00	06/28/00 RS	ND	0.0078	ug/L
Heptachlor	06/20/00	06/28/00 RS	ND	0.016	ug/L
Heptachlor epoxide	06/20/00	06/28/00 RS	ND	0.010	ug/L
Methoxychlor	06/20/00	06/28/00 RS	ND	0.0038	ug/L
Toxaphene	06/20/00	06/28/00 RS	ND	0.14	ug/L

Surrogate	Result	% Recovery	Limits
Decachlorobiphenyl	.16 ug/L	38 %	(20-136)
Tetrachlorometaxylene	.25 ug/L	60 %	(20-136)

HARBOR BRANCH ENVIRONMENTAL LABORATORY
5600 US 1 North, Fort Pierce, FL 34946
561-465-2400, Ext. 285

FDEP QAP 870174

Client: PPB
Workorder ID COE Everglades Sparrow
Laboratory ID 2002411002 **Sample ID** 187421
Matrix Environmental Water

PCB's SW-846 8082

Parameter	Prep Date	Analyzed	Result	DL	Units
Aroclor-1016	06/20/00	06/28/00 RS	ND	0.32	ug/L
Aroclor-1221	06/20/00	06/28/00 RS	ND	0.12	ug/L
Aroclor-1232	06/20/00	06/28/00 RS	ND	0.47	ug/L
Aroclor-1242	06/20/00	06/28/00 RS	ND	0.41	ug/L
Aroclor-1248	06/20/00	06/28/00 RS	ND	0.35	ug/L
Aroclor-1254	06/20/00	06/28/00 RS	ND	0.14	ug/L
Aroclor-1260	06/20/00	06/28/00 RS	ND	0.21	ug/L

Surrogate	Result	% Recovery	Limits
Decachlorobiphenyl	.12 ug/L	28 %	(20-136)
Tetrachlorometaxylene	.24 ug/L	60 %	(20-136)

06/20/00 12:13
Method SW-846 8081

RDL	Units
0.014	ug/L
0.014	ug/L
0.016	ug/L
0.0080	ug/L
0.0085	ug/L
0.026	ug/L
0.0066	ug/L
0.013	ug/L
0.0041	ug/L
0.012	ug/L
0.012	ug/L
0.0056	ug/L
0.0056	ug/L
0.0089	ug/L
0.0076	ug/L
0.016	ug/L
0.010	ug/L
0.0037	ug/L
0.14	ug/L

Client PPB
Workorder COE Everglades Sparrow

QC Batch EXTR 3713 (66235)
Original
Matrix Environmental Water

Prep Date 06/20/00 12:13
Analysis Method SW-846 8081

QC results for Lab Control Sample [137026] - Lab Control Sample Duplicate [137029] (continued)

Parameter		QC Result	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analyzed	Instru ID
Endosulfan II	LCS	0.57	114	41-140			.5ug/L	06/28/00	AUTOA_
	LCSD	0.57	114		0	0-30	.5ug/L	06/28/00	AUTOA_
Endosulfan sulfate	LCS	0.51	101	78-136			.5ug/L	06/28/00	AUTOA_
	LCSD	0.54	108		6.7	0-30	.5ug/L	06/28/00	AUTOA_
Endrin	LCS	0.45	90	52-139			.5ug/L	06/28/00	AUTOA_
	LCSD	0.43	87		3.4	0-30	.5ug/L	06/28/00	AUTOA_
Endrin aldehyde	LCS	0.081	81	70-151			.1ug/L	06/28/00	AUTOA_
	LCSD	0.083	83		2.4	0-30	.1ug/L	06/28/00	AUTOA_
Heptachlor	LCS	0.048	48	35-117			.1ug/L	06/28/00	AUTOA_
	LCSD	0.036	36		29	0-30	.1ug/L	06/28/00	AUTOA_
Heptachlor epoxide	LCS	0.07	70	70-130			.1ug/L	06/28/00	AUTOA_
	LCSD	0.072	72		2.8	0-30	.1ug/L	06/28/00	AUTOA_
Methoxychlor	LCS	0.054	54	52-116			.1ug/L	06/28/00	AUTOA_
	LCSD	0.054	54		0	0-30	.1ug/L	06/28/00	AUTOA_

Client PPB
Workorder COE Everglades Sparrow

QC Batch EXTR 3717 (66359)
Original
Matrix Environmental Water

Prep Date 06/20/00 12:13
Analysis Method SW-846 8082

QC results affect the following production samples:

2002411001 2002411002

QC results for Method Blank [137229]

Run Instrument: P-E AutoGC Dual ECD

Parameter	Analyzed	Result	RDL	Units
Aroclor-1016	06/28/00	ND	0.31	ug/L
Aroclor-1221	06/28/00	ND	0.12	ug/L
Aroclor-1232	06/28/00	ND	0.46	ug/L
Aroclor-1242	06/28/00	ND	0.40	ug/L
Aroclor-1248	06/28/00	ND	0.34	ug/L
Aroclor-1254	06/28/00	ND	0.14	ug/L
Aroclor-1260	06/28/00	ND	0.20	ug/L

Client PPB
Workorder COE Everglades Sparrow

QC Batch EXTR 3717 (66359)
Original
Matrix Environmental Water

Prep Date 06/20/00 12:13
Analysis Method SW-846 8082

QC results affect the following production samples:

2002411001 2002411002

QC results for Lab Control Sample [137230] - Lab Control Sample Duplicate [137233]

Parameter		QC Result	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analyzed	Instru ID
Aroclor-1016	LCS	1.6	80	50-114			2ug/L	06/28/00	AUTOA_
	LCSD	1.2	61		27	0-30	2ug/L	06/28/00	AUTOA_
Aroclor-1260	LCS	2	101	60-127			2ug/L	06/28/00	AUTOA_
	LCSD	1.6	80		23	0-30	2ug/L	06/28/00	AUTOA_

End of Report

2)

?	NO3
L	mg/L
0	0.005
7	0.033
)3	<0.004
)3	<0.004
7	0.056
8	0.038
4	0.065
1	0.076
2	0.050
2	0.066
0	0.021
3	0.063
9	0.043
3	0.020
5	0.033
4	0.058
)3	<0.004
)3	<0.004
4	0.040
4	0.040
4	0.012
3	0.019
1	0.025
)3	<0.004
3	0.029
)3	0.009
3	0.008
)3	<0.004
)3	<0.004
)3	<0.004
)3	<0.004
)3	0.029
)3	<0.004
)3	<0.004
)3	<0.004
)3	<0.004
)3	0.038
)3	0.025
)3	0.008
)3	<0.004
3	<0.004
)3	<0.004
4	<0.004
)3	<0.004
)3	<0.004
)3	<0.004
5	0.005
)3	<0.004
5	0.008
)3	<0.004
)3	<0.004
)3	0.072
)3	<0.004

amples for June 2000 (Page 2 of 2)

	TSS	TURB	HG_T_CVAA
L	mg/L	ntu	ug/L
6	5	2.1	
5	6	2.0	
2	<2	0.25	
2	<2	0.30	
4	<2	1.7	
5	3	1.9	
5	4	1.6	
6	4	2.1	
6	3	1.9	
5	2	1.4	
6	<2	1.7	
5	<2	1.8	
5	<2	1.5	
3	108	110	<0.1
0	<2	2.7	<0.1
9	2	1.8	
02	<2	0.30	
02	<2	0.35	
9	3	2.0	
8	2	1.6	
8	4	1.4	
8	2	1.6	
8	<2	3.8	
0	<2	1.7	
0	2	2.0	
9	<2	2.2	
0	<2	2.3	
6	2	1.4	
5	<2	1.4	
02	<2	0.30	
6	<2	1.4	
6	<2	1.2	
4	<2	1.1	
4	<2	0.80	
02	<2	0.30	
5	4	1.5	
5	<2	1.2	
5	2	1.2	
6	<2	1.2	
6	5	1.5	
4	3	2.4	
02	4	2.3	
6	3	3.0	
4	<2	1.4	
02	4	1.8	
5	4	2.0	
02	3	2.0	
4	<2	1.5	
6	2	2.6	
02	<2	0.30	
02	4	0.20	
8	8	2.7	
4	7	2.6	