PTI

ENVIRONMENTAL SERVICES

Puget Sound Dredged Disposal Analysis

BASELINE SURVEY OF PHASE II DISPOSAL SITES

APPENDIX C
Anderson/Ketron Islands
Disposal Site Data

For

Washington Department of Ecology
Olympia, Washington

June 1989

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PUGET SOUND DREDGED DISPOSAL ANALYSIS BASELINE SURVEY OF PHASE II DISPOSAL SITES

For

Washington Department of Ecology
Olympia, Washington 98504-8711

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APPENDIX C

ANDERSON/KETRON ISLANDS DISPOSAL SITE DATA

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ANDERSON/KETRON ISLANDS DATA

SEDIMENT CHEMISTRY

PSDDA guideline values are given for organics and metals at all offsite stations. Guideline values are 125 percent of the reported value. Detection limits are given when the chemical was undetected or the concentration was blank-corrected to the detection limit (qualified by the letter U or the letter B).

Table C-1

Metals (Strong Acid Digestion)—Concentrations of metals and metalloids (mg/kg dry weight). Mercury was analyzed by persulphate digest; all others were analyzed by strong acid digestion. (SEDQUAL output with guideline values added.)

Table C-2

Tributyltin—Concentrations of tributyltin reported as tin (μg/kg dry weight) (SEDQUAL output with guideline values added.)

Table C-3

Phenols—(μg/kg dry weight). (SEDQUAL output with guideline values added.)

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LPAH Compounds—Concentrations of low molecular weight polycyclic aromatic hydrocarbons (μg/kg dry weight). (SEDQUAL output with guideline values added.)

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Table C-8

Oxygenated Compounds and Organonitrogen Compounds—(μg/kg dry weight). (SEDQUAL output with guideline values added.)

Table C-9

Pesticides and PCB—(μg/kg dry weight). (SEDQUAL output with guideline values added.)

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BIOACCUMULATION

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Table C-15

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HPAH Compounds—Concentrations of HPAH compounds in tissues of *Compsomyax subdiaphana* (μg/kg wet weight).

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Chlorinated Hydrocarbons—Concentrations of chlorinated hydrocarbons in tissues of *Compsomyax subdiaphana* (μg/kg wet weight).

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Phthalates—Concentrations of phthalates in tissues of *Compsomyax subdiaphana* (μg/kg wet weight).

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Oxygenated Compounds and Organonitrogen Compounds—Concentrations of oxygenated compounds and organonitrogen compounds in tissues of *Compsomyax subdiaphana* (μg/kg wet weight).

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Pesticides and PCB—Concentrations of pesticides and PCB in tissues of *Compsomyax subdiaphana* (μg/kg wet weight).

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REMOTS®

Table C-27

REMOTS® Data—Data from analysis of REMOTS® images.

Qualifier codes used in all tables are as follows:

Qualifier Code	Description
B	Blank-corrected down to detection limit
C	Combined with unresolved substances
E	Estimate
G	Estimate is greater than value shown
K	Detected at less than the detection limit shown
L	Value is less than maximum shown
M	Value is a mean
Q	Questionable value
T	Detected below quantification limit shown
U	Undetected at the detection limit shown
X	Recovery less than 10 percent
Z	Blank-corrected, still above detection limit

For further details on averaging and reporting features, please refer to the SEDQUAL User's Guide (Nielsen, D. 1989 SEDQUAL User's Guide. Prepared for Washington Department of Ecology. PTI Environmental Services, Bellevue, WA).

TABLE C-1. CONCENTRATIONS OF METALS AND METALLOIDS IN ANDERSON/KETRON ISLAND SEDIMENT SAMPLES (Dry weight, ppm).

Survey	Station	ANTIMONY (SB)	Guideline**	ARSENIC	Guideline	CADMIUM	Guideline	COPPER	Guideline	LEAD	Guideline	MERCURY	Guideline
PSDDA2	AKB02	1.2 G		6.6		0.31		25.3		14.2		0.07	
PSDDA2	AKP01	1.6 G	2.00	11.6	14.50	0.54	0.68	39	49	22.1	28	0.13	0.16
PSDDA2	AKP02	0.96 G	1.20	6.7	8.38	0.28	0.35	27	34	13.8	17	0.11	0.14
PSDDA2	AKP03	1.9 G	2.38	12.7	15.88	0.48	0.60	39.3	49	21.8	27	0.12	0.15
PSDDA2	AKP04	1.7 G	2.13	10.4	13.00	0.39	0.49	27.8	35	17.5	22	0.08	0.10
PSDDA2	AKZ01	2.5 G	N/A	15.2	N/A	0.44	N/A	45	N/A	26.1	N/A	0.16	N/A
PSDDA2	CRR01	2.9 G	N/A	14.3	N/A	0.47	N/A	45.7	N/A	27.6	N/A	0.17	N/A

Survey	Station	NICKEL	Guideline	SILVER	Guideline	ZINC	Guideline
PSDDA2	AKB02	17.6		0.18		58.5	
PSDDA2	AKP01	27.8	35	0.33	0.41	83.7	105
PSDDA2	AKP02	16.6	21	0.16	0.20	266	333
PSDDA2	AKP03	27.5	34	0.34	0.43	81.8	102
PSDDA2	AKP04	26.8	34	0.21	0.26	67.9	85
PSDDA2	AKZ01	27	N/A	0.35	N/A	89.8	N/A
PSDDA2	CRR01	31.7	N/A	0.38	N/A	96.9	N/A

** PSDDA guideline values are given for all off-site stations. Guideline values are 125% of reported value; detection limits are given when the chemical was undetected, or the concentration was blank corrected to the detection limit (qualified by a 'U' or a 'B'). For a full explanation of qualifiers see table following the table of contents.

TABLE C-2. CONCENTRATIONS OF TRIBUTYLTIN (REPORTED AS TIN) IN ANDERSON/KETRON ISLAND SEDIMENT SAMPLES (Dry weight, ppb).

Survey	Station	TRIBUTYLTIN	Guideline**
PSDDA2	AKB02	1.6 U	
PSDDA2	AKP01	3 E	4
PSDDA2	AKP02	2.3 U	3
PSDDA2	AKP03	2.5 E	3
PSDDA2	AKP04	1.7 U	2
PSDDA2	AKZ01	2.4 E	N/A
PSDDA2	CRR01	2.4 E	N/A

** PSDDA guideline values are given for all off-site stations. Guideline values are 125% of reported value; detection limits are given when the chemical was undetected, or the concentration was blank corrected to the detection limit (qualified by a 'U' or a 'B'). For a full explanation of qualifiers see table folowing the table of contents.

TABLE C-3. CONCENTRATIONS OF PHENOL AND SUBSTITUTED PHENOLS IN ANDERSON/KETRON ISLAND SEDIMENT SAMPLES (Dry weight, ppb).

Survey	Station	PHENOL	Guideline**	2-METHYLPHENOL	Guideline	4-METHYL PHENOL	Guideline	PENTACHLOROPHENOL	Guideline
PSDDA2	AKB02	10 U		5.1 U		5.1 U		8 U	
PSDDA2	AKP01	12 U	15	6 U	7.5	6 U	7.5	10 U	13
PSDDA2	AKP02	16 U	20	7.8 U	9.8	7.8 U	9.8	13 U	16
PSDDA2	AKP03	15 U	19	7.4 U	9.3	7.4 U	9.3	12 U	15
PSDDA2	AKP04	11 U	14	5.6 U	7.0	5.6 U	7.0	54 E	68
PSDDA2	AKZ01	13 U	N/A	6.2 U	N/A	6.2 U	N/A	10 U	N/A
PSDDA2	CRR01	21 U	N/A	11 U	N/A	11 U	N/A	17 U	N/A

** PSDDA guideline values are given for all off-site stations. Guideline values are 125% of reported value; detection limits are given when the chemical was undetected, or the concentration was blank corrected to the detection limit (qualified by a 'U' or a 'B'). For a full explanation of qualifiers see table following the table of contents.

TABLE C-4. CONCENTRATIONS OF LOW MOLECULAR WEIGHT POLYCYCLIC AROMATIC HYDROCARBONS IN ANDERSON/KETRON ISLAND SEDIMENT SAMPLES (Dry weight, ppb).

Survey	Station	NAPHTHALENE	Guideline**	2-METHYLNAPHTHALENE	Guideline	ACENAPHTHYLENE	Guideline	ACENAPHTHENE	Guideline	FLUORENE	Guideline
PSDDA2	AKB02	5.1 U		5.1 U		5.1 U		5.1 U		5.1 U	
PSDDA2	AKP01	6 U	7.5	6 U	7.5	6 U	7.5	6 U	7.5	6 U	7.5
PSDDA2	AKP02	7.8 U	9.8	7.8 U	9.8	7.8 U	9.8	7.8 U	9.8	7.8 U	9.8
PSDDA2	AKP03	7.4 U	9.3	7.4 U	9.3	7.4 U	9.3	7.4 U	9.3	7.4 U	9.3
PSDDA2	AKP04	5.6 U	7.0	5.6 U	7.0	5.6 U	7.0	5.6 U	7.0	5.6 U	7.0
PSDDA2	AKZ01	6.2 U	N/A	6.2 U	N/A	6.2 U	N/A	6.2 U	N/A	6.2 U	N/A
PSDDA2	CRR01	11 U	N/A	11 U	N/A	11 U	N/A	11 U	N/A	11 U	N/A

Survey	Station	PHENANTHRENE	Guideline	ANTHRACENE	Guideline
PSDDA2	AKB02	5.1 B		5.1 B	
PSDDA2	AKP01	19 B	24	6 B	7.5
PSDDA2	AKP02	13 E	16	7.8 E	9.8
PSDDA2	AKP03	31 Z	39	10 Z	13
PSDDA2	AKP04	16 Z	20	9 Z	11
PSDDA2	AKZ01	25 Z	N/A	6.2 B	N/A
PSDDA2	CRR01	27 E	N/A	11 U	N/A

** PSDDA guideline values are given for all off-site stations. Guideline values are 125% of reported value; detection limits are given when the chemical was undetected, or the concentration was blank corrected to the detection limit (qualified by a 'U' or a 'B'). For a full explanation of qualifiers see table folowing the table of contents.

TABLE C-5. CONCENTRATIONS OF HIGH MOLECULAR WEIGHT POLYCYCLIC AROMATIC HYDROCARBONS IN ANDERSON/KETRON ISLAND SEDIMENT SAMPLES (Dry weight, ppb).

Survey	Station	FLUORANTHENE	Guideline**	PYRENE	Guideline	BENZO(A)ANTHRACENE	Guideline	CHRYSENE	Guideline	TOTAL BENZOFLUORANTHENES (B + K)	Guideline
PSDDA2	AKB02	15 Z		15 Z		8 B		9 Z		22 E	
PSDDA2	AKP01	32 Z	40	29 Z	36	9 Z	11	19 Z	24	37 E	46
PSDDA2	AKP02	24 Z	30	23 L	29	9 Z	11	14 Z	18	41 E	51
PSDDA2	AKP03	53 Z	66	55 Z	69	21 Z	26	32 Z	40	72 E	90
PSDDA2	AKP04	26 Z	33	27 Z	34	15 Z	19	23 Z	29	37 L	46
PSDDA2	AKZ01	25 Z	N/A	27 Z	N/A	11 Z	N/A	20 Z	N/A	41 L	N/A
PSDDA2	CRR01	54	N/A	43 L	N/A	20 L	N/A	30 E	N/A	59 E	N/A

Survey	Station	BENZO(A)PYRENE	Guideline	INDENO(1,2,3-CD)PYRENE	Guideline	DIBENZO(A,H)ANTHRACENE	Guideline	BENZO(G,H,I)PERYLENE	Guideline
PSDDA2	AKB02	5.1 U		5.1 U		5.1 U		5.1 U	
PSDDA2	AKP01	16 E	20	6 U	7.5	6 U	7.5	6 U	7.5
PSDDA2	AKP02	15 E	19	7.8 U	9.8	7.8 U	9.8	7.8 U	9.8
PSDDA2	AKP03	29 E	36	7.4 U	9.3	7.4 U	9.3	7.4 U	9.3
PSDDA2	AKP04	14 E	18	7.9 E	9.9	5.6 U	7.0	8.9 E	11.1
PSDDA2	AKZ01	15 E	N/A	6.2 U	N/A	6.2 U	N/A	6.2 U	N/A
PSDDA2	CRR01	20 E	N/A	11 U	N/A	11 U	N/A	11 U	N/A

** PSDDA guideline values are given for all off-site stations. Guideline values are 125% of reported value; detection limits are given when the chemical was undetected, or the concentration was blank corrected to the detection limit (qualified by a 'U' or a 'B'). For a full explanation of qualifiers see table following the table of contents.

TABLE C-6. CONCENTRATIONS OF CHLORINATED AROMATIC AND CHLORINATED ALIPHATIC HYDROCARBONS IN ANDERSON/KETRON ISLAND SEDIMENT SAMPLES (Dry weight, ppb).

Survey	Station	1,2-DICHLORO - BENZENE	Guideline**	1,3-DICHLORO - BENZENE	Guideline	1,4-DICHLORO - BENZENE	Guideline	1,2,4-TRICHLORO - BENZENE	Guideline	HEXACHLORO - BENZENE	Guideline	HEXACHLORO - BUTADIENE	Guideline
PSDDA2	AKB02	5.1 U		5.1 U		5.1 U		5.1 U		5.1 U		5.6 U	
PSDDA2	AKP01	6 U	7.5	6 U	7.5	6 U	7.5	6 U	7.5	6 U	7.5	6.6 U	8.3
PSDDA2	AKP02	7.8 U	9.8	7.8 U	9.8	7.8 U	9.8	7.8 U	9.8	7.8 U	9.8	8.6 U	10.8
PSDDA2	AKP03	7.4 U	9.3	7.4 U	9.3	7.4 U	9.3	7.4 U	9.3	7.4 U	9.3	8.2 U	10.3
PSDDA2	AKP04	5.6 U	7.0	5.6 U	7.0	5.6 U	7.0	5.6 U	7.0	5.6 U	7.0	6.1 U	7.6
PSDDA2	AKZ01	6.2 U	N/A	6.2 U	N/A	6.2 U	N/A	6.2 U	N/A	6.2 U	N/A	6.9 U	N/A
PSDDA2	CRR01	11 U	N/A	11 U	N/A	11 U	N/A	11 U	N/A	11 U	N/A	12 U	N/A

Survey	Station	HEXACHLOROETHANE	Guideline
PSDDA2	AKB02	10 U	
PSDDA2	AKP01	12 U	15.0
PSDDA2	AKP02	16 U	20.0
PSDDA2	AKP03	15 U	18.8
PSDDA2	AKP04	11 U	13.8
PSDDA2	AKZ01	13 U	N/A
PSDDA2	CRR01	31 U	N/A

** PSDDA guideline values are given for all off-site stations. Guideline values are 125% of reported value; detection limits are given when the chemical was undetected, or the concentration was blank corrected to the detection limit (qualified by a 'U' or a 'B'). For a full explanation of qualifiers see table following the table of contents.

TABLE C-7. CONCENTRATIONS OF PHTHALATE ESTERS IN ANDERSON/KETRON ISLAND SEDIMENT SAMPLES (Dry weight, ppb).

Survey	Station	DIMETHYL - PHTHALATE	Guideline**	DIETHYL - PHTHALATE	Guideline	DI-N-BUTYL - PHTHALATE	Guideline	BUTYL BENZYL - PHTHALATE	Guideline	BIS(2-ETHYLHEXYL) - PHTHALATE	Guideline	DI-N-OCTYL - PHTHALATE	Guideline
PSDDA2	AKB02	5.1 U		5.1 U		5.1 U		5.1 U		26 Z		5.1 U	
PSDDA2	AKP01	6 U	7.5	6 U	7.5	6 B	7.5	6 U	7.5	32 Z	40	6 U	7.5
PSDDA2	AKP02	7.8 U	9.8	7.8 U	9.8	7.8 U	9.8	7.8 U	9.8	52 Z	65	7.8 U	9.8
PSDDA2	AKP03	7.4 U	9.3	7.4 U	9.3	7.4 U	9.3	7.4 U	9.3	33 Z	41	7.4 U	9.3
PSDDA2	AKP04	5.6 U	7.0	5.6 U	7.0	5.6 U	7.0	5.6 U	7.0	35 Z	44	17 E	21
PSDDA2	AKZ01	6.2 U	N/A	6.2 U	N/A	6.2 U	N/A	6.2 U	N/A	27 Z	N/A	6.2 U	N/A
PSDDA2	CRR01	11 U	N/A	11 U	N/A	11 U	N/A	11 U	N/A	62 Z	N/A	11 U	N/A

** PSDDA guideline values are given for all off-site stations. Guideline values are 125% of reported value; detection limits are given when the chemical was undetected, or the concentration was blank corrected to the detection limit (qualified by a 'U' or a 'B'). For a full explanation of qualifiers see table following the table of contents.

TABLE C-8. CONCENTRATIONS OF MISCELLANEOUS OXYGENATED COMPOUNDS AND ORGANONITROGEN COMPOUNDS IN ANDERSON/KETRON ISLAND SEDIMENT SAMPLES (Dry weight, ppb).

Survey	Station	BENZYL ALCOHOL	Guideline**	DIBENZOFURAN	Guideline	BENZOIC ACID	Guideline	N-NITROSO - DIPHENYLAMINE	Guideline
PSDDA2	AKB02	51 U		5.1 U		51 U		5.1 U	
PSDDA2	AKP01	60 U	75	6 U	7.5	60 U	75	6 U	7.5
PSDDA2	AKP02	78 U	98	7.8 U	9.8	78 U	98	7.8 U	9.8
PSDDA2	AKP03	74 U	93	7.4 U	9.3	74 U	93	7.4 U	9.3
PSDDA2	AKP04	56 U	70	5.6 U	7.0	28 E	35	5.6 U	7.0
PSDDA2	AKZ01	62 U	N/A	6.2 U	N/A	62 U	N/A	6.2 U	N/A
PSDDA2	CRR01	100 U	N/A	11 U	N/A	100 U	N/A	11 U	N/A

** PSDDA guideline values are given for all off-site stations. Guideline values are 125% of reported value; detection limits are given when the chemical was undetected, or the concentration was blank corrected to the detection limit (qualified by a 'U' or a 'B'). For a full explanation of qualifiers see table following the table of contents.

TABLE C-9. CONCENTRATIONS OF PESTICIDES AND PCBS IN ANDERSON/KETRON ISLAND SEDIMENT SAMPLES (Dry weight, ppb).

Survey	Station	P,P'-DDT	Guideline**	P,P'-DDE	Guideline	P,P'-DDD	Guideline	HEPTACHLOR	Guideline	ALPHA CHLORDANE	Guideline	ALDRIN	Guideline
PSDDA2	AKB02	2 U		2 U		2 U		1 U		1 U		1 U	
PSDDA2	AKP01	2 U	2.5	2 U	2.5	2 U	2.5	1 U	1.3	1 U	1.3	1 U	1.3
PSDDA2	AKP02	4 U	5.0	3 U	3.8	4 U	5.0	2 U	2.5	2 U	2.5	2 U	2.5
PSDDA2	AKP03	4 U	5.0	3 U	3.8	4 U	5.0	2 U	2.5	2 U	2.5	2 U	2.5
PSDDA2	AKP04	2 U	2.5	2 U	2.5	2 U	2.5	1 U	1.3	1 U	1.3	1 U	1.3
PSDDA2	AKZ01	2 U	N/A	2 U	N/A	2 U	N/A	1 U	N/A	1 U	N/A	1 U	N/A
PSDDA2	CRR01	4 U	N/A	3 U	N/A	4 U	N/A	2 U	N/A	2 U	N/A	2 U	N/A

Survey	Station	DIELDRIN	Guideline	HEXACHLOROCYCLOHEXANE-GAMMA (LINDANE)	Guideline	PCB-1242	Guideline	PCB-1248	Guideline	PCB-1254	Guideline	PCB-1260	Guideline
PSDDA2	AKB02	2 U		1 U		20 U		20 U		20 U		20 U	
PSDDA2	AKP01	2 U	2.5	1 U	1.3	20 U	25	20 U	25	20 U	25	20 U	25
PSDDA2	AKP02	3 U	3.8	2 U	2.5	40 U	50	40 U	50	40 U	50	40 U	50
PSDDA2	AKP03	3 U	3.8	2 U	2.5	40 U	50	40 U	50	40 U	50	40 U	50
PSDDA2	AKP04	2 U	2.5	1 U	1.3	20 U	25	20 U	25	20 U	25	20 U	25
PSDDA2	AKZ01	2 U	N/A	1 U	N/A	20 U	N/A	20 U	N/A	20 U	N/A	20 U	N/A
PSDDA2	CRR01	3 U	N/A	2 U	N/A	40 U	N/A	40 U	N/A	40 U	N/A	40 U	N/A

** PSDDA guideline values are given for all off-site stations. Guideline values are 125% of reported value; detection limits are given when the chemical was undetected, or the concentration was blank corrected to the detection limit (qualified by a 'U' or a 'B'). For a full explanation of qualifiers see table following the table of contents.

TABLE C-10. CONCENTRATIONS OF VOLATILE ORGANIC COMPOUNDS IN ANDERSON/KETRON ISLAND SEDIMENT SAMPLES (Dry weight, ppb).

Survey	Station	TRICHLORO - ETHYLENE	Guideline**	TETRACHLORO - ETHYLENE	Guideline	ETHYLBENZENE	Guideline	TOTAL XYLENES	Guideline
PSDDA2	AKB02	0.5 U		0.4 U		0.6 U		1.4 U	
PSDDA2	AKP01	0.6 U	0.75	0.5 U	0.63	0.7 U	0.88	1.7 U	2.13
PSDDA2	AKP02	0.5 U	0.63	0.4 U	0.50	0.7 U	0.88	1.5 U	1.88
PSDDA2	AKP03	0.9 U	1.13	0.9 U	1.13	0.9 U	1.13	1.8 U	2.25
PSDDA2	AKP04	0.8 U	1.00	0.8 U	1.00	0.8 U	1.00	1.7 U	2.13
PSDDA2	AKZ01	0.5 U	N/A	0.5 U	N/A	0.7 U	N/A	1.6 U	N/A
PSDDA2	CRR01	0.7 U	N/A	0.6 U	N/A	1 U	N/A	2.2 U	N/A

** PSDDA guideline values are given for all off-site stations. Guideline values are 125% of reported value; detection limits are given when the chemical was undetected, or the concentration was blank corrected to the detection limit (qualified by a 'U' or a 'B'). For a full explanation of qualifiers see table following the table of contents.

TABLE C-11. CONCENTRATIONS OF TOTAL POLYCYCLIC ARMOATIC HYDROCARBONS AND POLYCHLORINATED BIPHENYLS IN ANDERSON/KETRON ISLAND SEDIMENT SAMPLES (Dry weight, ppb).

Survey	Station	POLYCYCLIC AROMATIC HYDROCARBON-LIGHT	Guideline**	POLYCYCLIC AROMATIC HYDROCARBON-HEAVY	Guideline	POLYCHLORINATED BIPHENYLS	Guideline
PSDDA2	AKB02	30.6 B		89 L		20 U	
PSDDA2	AKP01	49 B	61	160 L	200	20 U	25
PSDDA2	AKP02	52 E	65	149 L	186	40 U	50
PSDDA2	AKP03	71 L	89	284 L	355	40 U	50
PSDDA2	AKP04	47 L	59	164 E	205	20 U	25
PSDDA2	AKZ01	56 L	N/A	158 L	N/A	20 U	N/A
PSDDA2	CRR01	82 L	N/A	259 L	N/A	40 U	N/A

** PSDDA guideline values are given for all off-site stations. Guideline values are 125% of reported value; detection limits are given when the chemical was undetected, or the concentration was blank corrected to the detection limit (qualified by a 'U' or a 'B'). For a full explanation of qualifiers see table following the table of contents.

TABLE C-12. CONVENTIONALS DATA FOR ANDERSON/KETRON ISLAND SEDIMENT SAMPLES (Dry weight, ppm unless otherwise noted).

Survey	Station	AMMONIA (as Nitrogen)	PERCENT CLAY	PERCENT SAND	PERCENT SILT	PERCENT FINES (Clay + Silt)	SULFIDES	TOTAL ORGANIC CARBON	TOTAL SOLIDS (dry wt. as % of wet wt.)	TOTAL VOLATILE SOLIDS
PSDDA2	AKB02	32.6	9.22 M	80.46 M	10.33 M	19.55 M	1 U	0.5 M	56.8	2.1
PSDDA2	AKP01	59.3	16.56	60.91	22.53	39.09	1 U	0.9	45.7	3.7
PSDDA2	AKP02	35.9	11.08	74.33	14.6	25.68	1 U	0.6	55.2	2.5
PSDDA2	AKP03	51.5	15.33	64.59	20.09	35.42	1 U	0.9	48	3.8
PSDDA2	AKP04	49.6	10.16	78.76	11.09	21.25	1 U	0.5	54.5	2.7
PSDDA2	AKT01	--	12.98	67.48	19.54	32.52	--	0.8	--	--
PSDDA2	AKT02	--	12.49	73.04	14.48	26.97	--	0.6	--	--
PSDDA2	AKT03	--	11.79	75.59	12.62	24.41	--	0.6	--	--
PSDDA2	AKT04	--	14.17	70.25	15.56	29.73	--	0.8	--	--
PSDDA2	AKT05	--	11.07	79.25	9.54	20.61	--	0.5	--	--
PSDDA2	AKT06	--	7.45	85.15	5.67	13.12	--	0.4	--	--
PSDDA2	AKZ01	40.9	15.32	58.37	26.3	41.62	1 U	1	51.4	4
PSDDA2	CRR01	85.8	18.83	50.09	31.08	49.91	1 U	1.3	40.8	5.3

** PSDDA guideline values are given for all off-site stations. Guideline values are 125% of reported value; detection limits are given when the chemical was undetected, or the concentration was blank corrected to the detection limit (qualified by a 'U' or a 'B'). For a full explanation of qualifiers see table folowing the table of contents.

TABLE C-13. CONCENTRATIONS OF METALS AND METALLOIDS IN ANDERSON/KETRON ISLAND TISSUE SAMPLES (ppm, wet weight).

Survey	Station	Sample	ANTIMONY (SB)	ARSENIC	CADMIUM	COPPER	LEAD	MERCURY	NICKEL	SILVER	ZINC
PSDDA2	AKT01	AKT01A	0.04 U	1.8	0.61	2	2.5	0.03	0.58	1.5 E	19
PSDDA2	AKT02	AKT02A	0.07 U	1.4	0.71	4.4	3.3	0.02	0.56	2.2 E	19.9
PSDDA2	AKT03	AKT03A	0.07 U	2.3	0.8	2.8	3	0.03	0.82	2.7 E	16.2
PSDDA2	AKT04	AKT04A	0.1 U	2.2	0.6	4.5	4.7	0.01	0.81	1.6 E	18.3
PSDDA2	AKT05	AKT05A	0.05 U	2.4	0.4	3.8	1.8	0.01	0.62	1.6 E	19.1
PSDDA2	AKT06	AKT06A	0.05 U	3.4 E	0.85	6.2	2	0.03	0.86	2.8 E	21.3

TABLE C14. CONCENTRATIONS OF PHENOL AND SUBSTITUTED PHENOLS IN ANDERSON/KETRON ISLAND TISSUE SAMPLES (Wet weight, ppb).

Survey	Station	Sample	PHENOL	2-METHYLPHENOL	4-METHYL PHENOL	PENTACHLOROPHENOL
PSDDA2	AKT01	AKT01A	150 U	77 U	77 U	120 U
PSDDA2	AKT02	AKT02A	250 U	130 U	130 U	200 U
PSDDA2	AKT03	AKT03A	350 U	170 U	170 U	
PSDDA2	AKT04	AKT04A	480 U	240 U	240 U	
PSDDA2	AKT05	AKT05A	370 U	190 U	190 U	
PSDDA2	AKT06	AKT06A				

TABLE C15. CONCENTRATIONS OF LOW MOLECULAR WEIGHT POLYCYCLIC AROMATIC HYDROCARBONS IN ANDERSON/KETRON ISLAND TISSUE SAMPLES (Wet weight, ppb).

Survey	Station	Sample	NAPHTHALENE	2-METHYLNAPHTHALENE	ACENAPHTHYLENE	ACENAPHTHENE	FLUORENE	PHENANTHRENE	ANTHRACENE
PSDDA2	AKT01	AKT01A	77 U	77 U	77 U	77 U	77 U	77 U	77 U
PSDDA2	AKT02	AKT02A	130 U	130 U	130 U	130 U	130 U	130 U	130 U
PSDDA2	AKT03	AKT03A	170 U	170 U	170 U	170 U	170 U	170 U	170 U
PSDDA2	AKT04	AKT04A	240 U	240 U	240 U	240 U	240 U	240 U	240 U
PSDDA2	AKT05	AKT05A	190 U	190 U	190 U	190 U	190 U	190 U	190 U
PSDDA2	AKT06	AKT06A							

TABLE C16. CONCENTRATIONS OF HIGH MOLECULAR WEIGHT POLYCYCLIC AROMATIC HYDROCARBONS IN ANDERSON/KETRON ISLAND TISSUE SAMPLES (Wet weight, ppb).

Survey	Station	Sample	FLUORANTHENE	PYRENE	BENZO(A) - ANTHRACENE	CHRYSENE	TOTAL BENZO-FLUORANTHENES (B + K)	BENZO(A)PYRENE	INDENO - (1,2,3-CD)PYRENE	DIBENZO(A,H)-ANTHRACENE	BENZO(G,H,I)-PERYLENE
PSDDA2	AKT01	AKT01A	77 U	77 U	77 U	77 U	150 U	77 U	77 U	77 U	77 U
PSDDA2	AKT02	AKT02A	130 U	130 U	130 U	130 U	250 U	130 U	130 U	130 U	130 U
PSDDA2	AKT03	AKT03A	170 U	170 U	170 U	170 U	350 U	170 U	170 U	170 U	170 U
PSDDA2	AKT04	AKT04A	240 U	240 U	240 U	240 U	480 U	240 U	240 U	240 U	240 U
PSDDA2	AKT05	AKT05A	190 U	190 U	190 U	190 U	370 U	190 U	190 U	190 U	190 U
PSDDA2	AKT06	AKT06A									

TABLE C17. CONCENTRATIONS OF CHLORINATED AROMATIC AND CHLORINATED ALIPHATIC HYDROCARBONS IN ANDERSON/KETRON ISLAND TISSUE SAMPLES (Wet weight, ppb).

Survey	Station	Sample	1,2-DICHLOROBENZENE	1,3-DICHLOROBENZENE	1,4-DICHLOROBENZENE	1,2,4-TRICHLOROBENZENE	HEXACHLOROBENZENE	HEXACHLOROBUTADIENE	HEXACHLOROETHANE
PSDDA2	AKT01	AKT01A	77 U	77 U	77 U	77 U	77 U	84 U	
PSDDA2	AKT02	AKT02A	130 U	130 U	130 U	130 U	130 U	140 U	
PSDDA2	AKT03	AKT03A	170 U	170 U	170 U	170 U	170 U		
PSDDA2	AKT04	AKT04A	240 U	240 U	240 U	240 U	240 U		
PSDDA2	AKT05	AKT05A	190 U	190 U	190 U	190 U	190 U	200 U	
PSDDA2	AKT06	AKT06A							

TABLE C18. CONCENTRATIONS OF PHTHALATE ESTERS IN ANDERSON/KETRON ISLAND TISSUE SAMPLES (Wet weight, ppb).

Survey	Station	Sample	DIMETHYL PHTHALATE	DIETHYL PHTHALATE	DI-N-BUTYL PHTHALATE	BUTYL BENZYL PHTHALATE	BIS(2-ETHYLHEXYL)-PHTHALATE	DI-N-OCTYL -PHTHALATE
PSDDA2	AKT01	AKT01A	77 U	77 U	77 U	77 U	77 U	77 U
PSDDA2	AKT02	AKT02A	130 U	130 U	130 U	130 U	130 U	130 U
PSDDA2	AKT03	AKT03A	170 U	170 U	170 U	170 U	170 U	170 U
PSDDA2	AKT04	AKT04A	240 U	240 U	240 U	240 U	240 U	240 U
PSDDA2	AKT05	AKT05A	190 U	190 U	190 U	190 U	190 U	190 U
PSDDA2	AKT06	AKT06A						

TABLE C19. CONCENTRATIONS OF MISCELLANEOUS OXYGENATED COMPOUNDS AND ORGANONITROGEN COMPOUNDS IN ANDERSON/KETRON ISLAND TISSUE SAMPLES (Wet weight, ppb).

Survey	Station	Sample	BENZYL ALCOHOL	DIBENZOFURAN	BENZOIC ACID	N-NITROSO - DIPHENYLAMINE
PSDDA2	AKT01	AKT01A	380 U	77 U	8800 E	77 U
PSDDA2	AKT02	AKT02A	630 U	130 U	20000 E	130 U
PSDDA2	AKT03	AKT03A	870 U	170 U	1700 U	170 U
PSDDA2	AKT04	AKT04A	1200 U	240 U	26000 E	240 U
PSDDA2	AKT05	AKT05A	930 U	190 U	24000 E	190 U
PSDDA2	AKT06	AKT06A				

TABLE C20. CONCENTRATIONS OF PESTICIDES AND PCBS IN ANDERSON/KETRON ISLAND TISSUE SAMPLES (Wet weight, ppb).

Survey	Station	Sample	P,P'-DDT	P,P'-DDE	P,P'-DDD	HEPTACHLOR	ALPHA CHLORDANE	ALDRIN	DIELDRIN	HEXACHLOROCYCLO - HEXANE-GAMMA (LINDANE)
PSDDA2	AKT01	AKT01A	0.9 U	0.6 U	1.8 U	0.3 U	0.5 U	0.3 U	0.6 U	0.3 U
PSDDA2	AKT02	AKT02A	1.8 U	1.1 U	1.8 U	0.6 U	2 U	0.6 U	1.2 U	0.6 U
PSDDA2	AKT03	AKT03A	1.8 U	1.2 U	1.8 U	0.6 U	1 U	0.6 U	1.2 U	0.6 U
PSDDA2	AKT04	AKT04A	2.7 U	1.8 U	2.7 U	0.9 U	1.5 U	0.9 U	1.8 U	0.9 U
PSDDA2	AKT05	AKT05A	0.9 U	0.6 U	0.9 U	0.3 U	1.1 U	0.3 U	0.6 U	0.3 U
PSDDA2	AKT06	AKT06A								

TABLE C-21. TOTAL EXTRACTABLE ORGANIC MATERIAL FROM ANDERSON/KETRON ISLANDS DISPOSAL SITE (*COMPSOMYAX* TISSUES)

Survey	Station	Sample	Percent Lipid
PSDDA2	AKT01	AKT01A	.40
PSDDA2	AKT02	AKT02A	.51
PSDDA2	AKT03	AKT03A	.49
PSDDA2	AKT04	AKT04A	.50

TABLE C-22. SPECIES ABUNDANCE SUMMARIZED BY SAMPLE FOR ANDERSON/KETRON ISLAND SAMPLES.

SURVEY	STN_ID	DATE	SRV_SAMPID	FIELD_REP	SUBSAMPLE	SPECIES	ABUNDANCE	UNITS
PSDDA2	AKB02	05/02/89	AKB02I	1		Total Crustaceans	76	IND
PSDDA2	AKB02	05/02/89	AKB02I	1		Total abundance of all polychaetes	49	IND
PSDDA2	AKB02	05/02/89	AKB02I	1		Total Mollusks	6	IND
PSDDA2	AKB02	05/02/89	AKB02I	1		Total Miscellaneous Taxa	3	IND
PSDDA2	AKB02	05/02/89	AKB02I	2		Total Crustaceans	91	IND
PSDDA2	AKB02	05/02/89	AKB02I	2		Total abundance of all polychaetes	47	IND
PSDDA2	AKB02	05/02/89	AKB02I	2		Total Mollusks	6	IND
PSDDA2	AKB02	05/02/89	AKB02I	2		Total Miscellaneous Taxa	5	IND
PSDDA2	AKB02	05/02/89	AKB02I	3		Total Crustaceans	91	IND
PSDDA2	AKB02	05/02/89	AKB02I	3		Total abundance of all polychaetes	34	IND
PSDDA2	AKB02	05/02/89	AKB02I	3		Total Mollusks	5	IND
PSDDA2	AKB02	05/02/89	AKB02I	3		Total Miscellaneous Taxa	4	IND
PSDDA2	AKB02	05/02/89	AKB02I	4		Total Crustaceans	92	IND
PSDDA2	AKB02	05/02/89	AKB02I	4		Total abundance of all polychaetes	37	IND
PSDDA2	AKB02	05/02/89	AKB02I	4		Total Miscellaneous Taxa	6	IND
PSDDA2	AKB02	05/02/89	AKB02I	4		Total Mollusks	4	IND
PSDDA2	AKB02	05/02/89	AKB02I	5		Total Crustaceans	107	IND
PSDDA2	AKB02	05/02/89	AKB02I	5		Total abundance of all polychaetes	49	IND
PSDDA2	AKB02	05/02/89	AKB02I	5		Total Mollusks	13	IND
PSDDA2	AKB02	05/02/89	AKB02I	5		Total Miscellaneous Taxa	5	IND
PSDDA2	AKT01	05/01/89	AKT01I	1		Total Crustaceans	123	IND
PSDDA2	AKT01	05/01/89	AKT01I	1		Total abundance of all polychaetes	42	IND
PSDDA2	AKT01	05/01/89	AKT01I	1		Total Mollusks	13	IND
PSDDA2	AKT01	05/01/89	AKT01I	1		Total Miscellaneous Taxa	9	IND
PSDDA2	AKT01	05/01/89	AKT01I	2		Total Crustaceans	215	IND
PSDDA2	AKT01	05/01/89	AKT01I	2		Total abundance of all polychaetes	21	IND
PSDDA2	AKT01	05/01/89	AKT01I	2		Total Mollusks	15	IND
PSDDA2	AKT01	05/01/89	AKT01I	2		Total Miscellaneous Taxa	2	IND
PSDDA2	AKT01	05/01/89	AKT01I	3		Total Crustaceans	169	IND
PSDDA2	AKT01	05/01/89	AKT01I	3		Total abundance of all polychaetes	166	IND
PSDDA2	AKT01	05/01/89	AKT01I	3		Total Miscellaneous Taxa	4	IND
PSDDA2	AKT01	05/01/89	AKT01I	3		Total Mollusks	4	IND
PSDDA2	AKT01	05/01/89	AKT01I	4		Total Crustaceans	140	IND
PSDDA2	AKT01	05/01/89	AKT01I	4		Total abundance of all polychaetes	19	IND
PSDDA2	AKT01	05/01/89	AKT01I	4		Total Mollusks	9	IND
PSDDA2	AKT01	05/01/89	AKT01I	4		Total Miscellaneous Taxa	2	IND
PSDDA2	AKT01	05/01/89	AKT01I	5		Total Crustaceans	179	IND
PSDDA2	AKT01	05/01/89	AKT01I	5		Total abundance of all polychaetes	35	IND
PSDDA2	AKT01	05/01/89	AKT01I	5		Total Mollusks	15	IND
PSDDA2	AKT01	05/01/89	AKT01I	5		Total Miscellaneous Taxa	3	IND
PSDDA2	AKT02	05/01/89	AKT02I	1		Total Crustaceans	98	IND
PSDDA2	AKT02	05/01/89	AKT02I	1		Total abundance of all polychaetes	24	IND
PSDDA2	AKT02	05/01/89	AKT02I	1		Total Mollusks	8	IND
PSDDA2	AKT02	05/01/89	AKT02I	1		Total Miscellaneous Taxa	1	IND
PSDDA2	AKT02	05/01/89	AKT02I	2		Total Crustaceans	221	IND
PSDDA2	AKT02	05/01/89	AKT02I	2		Total abundance of all polychaetes	20	IND
PSDDA2	AKT02	05/01/89	AKT02I	2		Total Mollusks	13	IND
PSDDA2	AKT02	05/01/89	AKT02I	2		Total Miscellaneous Taxa	2	IND
PSDDA2	AKT02	05/01/89	AKT02I	3		Total Crustaceans	153	IND
PSDDA2	AKT02	05/01/89	AKT02I	3		Total abundance of all polychaetes	28	IND

PSDDA2	AKT02	05/01/89	AKT02I	3	Total Mollusks	19	IND
PSDDA2	AKT02	05/01/89	AKT02I	3	Total Miscellaneous Taxa	1	IND
PSDDA2	AKT02	05/01/89	AKT02I	4	Total Crustaceans	174	IND
PSDDA2	AKT02	05/01/89	AKT02I	4	Total abundance of all polychaetes	30	IND
PSDDA2	AKT02	05/01/89	AKT02I	4	Total Mollusks	16	IND
PSDDA2	AKT02	05/01/89	AKT02I	4	Total Miscellaneous Taxa	2	IND
PSDDA2	AKT02	05/01/89	AKT02I	5	Total Crustaceans	179	IND
PSDDA2	AKT02	05/01/89	AKT02I	5	Total abundance of all polychaetes	21	IND
PSDDA2	AKT02	05/01/89	AKT02I	5	Total Mollusks	18	IND
PSDDA2	AKT02	05/01/89	AKT02I	5	Total Miscellaneous Taxa	1	IND
PSDDA2	AKT03	05/01/89	AKT03I	1	Total Crustaceans	104	IND
PSDDA2	AKT03	05/01/89	AKT03I	1	Total abundance of all polychaetes	35	IND
PSDDA2	AKT03	05/01/89	AKT03I	1	Total Mollusks	20	IND
PSDDA2	AKT03	05/01/89	AKT03I	1	Total Miscellaneous Taxa	1	IND
PSDDA2	AKT03	05/01/89	AKT03I	2	Total Crustaceans	150	IND
PSDDA2	AKT03	05/01/89	AKT03I	2	Total abundance of all polychaetes	28	IND
PSDDA2	AKT03	05/01/89	AKT03I	2	Total Mollusks	13	IND
PSDDA2	AKT03	05/01/89	AKT03I	2	Total Miscellaneous Taxa	1	IND
PSDDA2	AKT03	05/01/89	AKT03I	3	Total Crustaceans	92	IND
PSDDA2	AKT03	05/01/89	AKT03I	3	Total abundance of all polychaetes	24	IND
PSDDA2	AKT03	05/01/89	AKT03I	3	Total Mollusks	6	IND
PSDDA2	AKT03	05/01/89	AKT03I	3	Total Miscellaneous Taxa	3	IND
PSDDA2	AKT03	05/01/89	AKT03I	4	Total Crustaceans	155	IND
PSDDA2	AKT03	05/01/89	AKT03I	4	Total abundance of all polychaetes	28	IND
PSDDA2	AKT03	05/01/89	AKT03I	4	Total Mollusks	5	IND
PSDDA2	AKT03	05/01/89	AKT03I	5	Total Crustaceans	165	IND
PSDDA2	AKT03	05/01/89	AKT03I	5	Total abundance of all polychaetes	21	IND
PSDDA2	AKT03	05/01/89	AKT03I	5	Total Mollusks	11	IND
PSDDA2	AKT03	05/01/89	AKT03I	5	Total Miscellaneous Taxa	2	IND

TABLE C-23. Average Major taxa abundance by station.

08/25/89

SURVEY	STN_ID	DATE	SRV_SAMPID	SUBSAMPLE	SPECIES	ABUNDANCE	NUM_OBS	COEFF_VAR
PSDDA2	AKB02	05/02/89	AKB02I		Total Crustaceans	91	5	12.00
PSDDA2	AKB02	05/02/89	AKB02I		Total abundance of all polychaetes	43	5	16.56
PSDDA2	AKB02	05/02/89	AKB02I		Total Mollusks	7	5	52.41
PSDDA2	AKB02	05/02/89	AKB02I		Total Miscellaneous Taxa	5	5	24.79
PSDDA2	AKT01	05/01/89	AKT01I		Total Crustaceans	165	5	21.62
PSDDA2	AKT01	05/01/89	AKT01I		Total abundance of all polychaetes	57	5	109.37
PSDDA2	AKT01	05/01/89	AKT01I		Total Mollusks	11	5	42.07
PSDDA2	AKT01	05/01/89	AKT01I		Total Miscellaneous Taxa	4	5	72.89
PSDDA2	AKT02	05/01/89	AKT02I		Total Crustaceans	165	5	27.18
PSDDA2	AKT02	05/01/89	AKT02I		Total abundance of all polychaetes	25	5	17.63
PSDDA2	AKT02	05/01/89	AKT02I		Total Mollusks	15	5	29.99
PSDDA2	AKT02	05/01/89	AKT02I		Total Miscellaneous Taxa	1	5	39.12
PSDDA2	AKT03	05/01/89	AKT03I		Total Crustaceans	133	5	24.67
PSDDA2	AKT03	05/01/89	AKT03I		Total abundance of all polychaetes	27	5	19.35
PSDDA2	AKT03	05/01/89	AKT03I		Total Mollusks	11	5	54.92
PSDDA2	AKT03	05/01/89	AKT03I		Total Miscellaneous Taxa	1	4	81.44

07/27/89

TABLE C-24. AMPHIPOD 10-DAY BIOASSAY AND OYSTER LARVAE BIVALVE BIOASSAY PERCENT CHANGE ON ANDERSON/KETRON ISLAND SAMPLES.

Sets of bioassay results (percent change and abnormality) are coded as follows:

Code	Type	Var.	Species	Dilution
B1	AMP10	MORT	Rhepoxynius abronius	100
B2	BIVLV	ABNM	Crassostrea gigas (Temp PSDDA2)	100

Survey	Station	Date	Sample	B1	B2
PSDDA2	AKB02	05/06/89	AKB02B	13	6.13
PSDDA2	AKZ01	05/06/89	AKZ01B	17	11.29
PSDDA2	CRR01	05/06/89	CRR01B	4	4.5

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TABLE C-25. SURVIVAL DATA FOR THE AMPHIPOD 10-DAY BIOASSAY ON ANDERSON/KETRON ISLAND SAMPLES BY LAB REPLICATE.

Bioassay Type	Variable	Survey	Station	Date	Sample	Species	Dilution	Lab Rep	Initial Value	# Survivors	Units	% Mortality
AMP10	MORT	PSDDA2	AKB02	05/06/89	AKB02B	Rhepoxynius abronius	100	1	20	20	IND	0
AMP10	MORT	PSDDA2	AKB02	05/06/89	AKB02B	Rhepoxynius abronius	100	2	20	15	IND	25
AMP10	MORT	PSDDA2	AKB02	05/06/89	AKB02B	Rhepoxynius abronius	100	3	20	18	IND	10
AMP10	MORT	PSDDA2	AKB02	05/06/89	AKB02B	Rhepoxynius abronius	100	4	20	19	IND	5
AMP10	MORT	PSDDA2	AKB02	05/06/89	AKB02B	Rhepoxynius abronius	100	5	20	15	IND	25
AMP10	MORT	PSDDA2	AKZ01	05/06/89	AKZ01B	Rhepoxynius abronius	100	1	20	15	IND	25
AMP10	MORT	PSDDA2	AKZ01	05/06/89	AKZ01B	Rhepoxynius abronius	100	2	20	14	IND	30
AMP10	MORT	PSDDA2	AKZ01	05/06/89	AKZ01B	Rhepoxynius abronius	100	3	20	18	IND	10
AMP10	MORT	PSDDA2	AKZ01	05/06/89	AKZ01B	Rhepoxynius abronius	100	4	20	17	IND	15
AMP10	MORT	PSDDA2	AKZ01	05/06/89	AKZ01B	Rhepoxynius abronius	100	5	20	19	IND	5
AMP10	MORT	PSDDA2	CRR01	05/06/89	CRR01B	Rhepoxynius abronius	100	1	20	20	IND	0
AMP10	MORT	PSDDA2	CRR01	05/06/89	CRR01B	Rhepoxynius abronius	100	2	20	19	IND	5
AMP10	MORT	PSDDA2	CRR01	05/06/89	CRR01B	Rhepoxynius abronius	100	3	20	20	IND	0
AMP10	MORT	PSDDA2	CRR01	05/06/89	CRR01B	Rhepoxynius abronius	100	4	20	18	IND	10
AMP10	MORT	PSDDA2	CRR01	05/06/89	CRR01B	Rhepoxynius abronius	100	5	20	19	IND	5

IND = individual

Station AKZ01 is significantly different from Carr inlet reference (Station CRR01) and difference is <30 percent. $t = -2.60$, $t_{0.10[8]} = 1.86$.

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TABLE C-26. ABNORMALITY DATA FOR THE OYSTER LARVAE BIOASSAY ON ANDERSON/KETRON ISLAND SAMPLES BY LAB REPLICATE.

Bioassay Type	Variable	Survey	Station	Date	Sample	Species	Dilution	Lab Rep	# Survivors	# Normal	Units	% Abnormality
BIVLV	ABNM	PSDDA2	AKB02	05/06/89	AKB02B	Crassostrea gigas	100	1	115	108	IND	6.1
BIVLV	ABNM	PSDDA2	AKB02	05/06/89	AKB02B	Crassostrea gigas	100	2	98	93	IND	5.1
BIVLV	ABNM	PSDDA2	AKB02	05/06/89	AKB02B	Crassostrea gigas	100	3	145	137	IND	5.5
BIVLV	ABNM	PSDDA2	AKB02	05/06/89	AKB02B	Crassostrea gigas	100	4	40	36	IND	10.0
BIVLV	ABNM	PSDDA2	AKB02	05/06/89	AKB02B	Crassostrea gigas	100	5	126	121	IND	4.0
BIVLV	ABNM	PSDDA2	AKZ01	05/06/89	AKZ01B	Crassostrea gigas	100	1	50	44	IND	12.0
BIVLV	ABNM	PSDDA2	AKZ01	05/06/89	AKZ01B	Crassostrea gigas	100	2	100	80	IND	20.0
BIVLV	ABNM	PSDDA2	AKZ01	05/06/89	AKZ01B	Crassostrea gigas	100	3	101	86	IND	14.9
BIVLV	ABNM	PSDDA2	AKZ01	05/06/89	AKZ01B	Crassostrea gigas	100	4	72	70	IND	2.8
BIVLV	ABNM	PSDDA2	AKZ01	05/06/89	AKZ01B	Crassostrea gigas	100	5	88	82	IND	6.8
BIVLV	ABNM	PSDDA2	CRR01	05/06/89	CRR01B	Crassostrea gigas	100	1	75	72	IND	4.0
BIVLV	ABNM	PSDDA2	CRR01	05/06/89	CRR01B	Crassostrea gigas	100	2	58	57	IND	1.7
BIVLV	ABNM	PSDDA2	CRR01	05/06/89	CRR01B	Crassostrea gigas	100	3	54	52	IND	3.7
BIVLV	ABNM	PSDDA2	CRR01	05/06/89	CRR01B	Crassostrea gigas	100	4	85	82	IND	3.5
BIVLV	ABNM	PSDDA2	CRR01	05/06/89	CRR01B	Crassostrea gigas	100	5	42	38	IND	9.5

IND = Individual

TABLE C-27. ANDERSON/KETRON ISLANDS DISPOSAL SITE PHYSICAL REMOTS® PARAMETERS

Station/ Replicate	Grain-Size Major Mode (phi units)	Boundary Roughness (cm)	Apparent RPD Depth (cm)
AKS1/A	≥4-3	1.29	3.06
AKS3/A	>4-3	1.05	4.43
AKS4/A	>4-3	0.73	3.42
AKS5/A	>4-3	1.7	3.14
AKS6/A	>4-3	0.65	3.57
AKS7/A	>4-3	0.89	2.33
AKS8/A	>4-3	0.97	3.13
AKP3/A	>4-3	1.29	2.76
AKT4/A	>4-3	1.23	2.51
AKT5/A	>4-3	0.46	2.49
AK510/A	4-3	1.99	1.69
AKT6/A	>4-3	1.0	1.34
AKP11/A	>4-3	0.46	2.84
AKS9/A	>4-3	1.15	2.97
AKS10/A	>4-3	0.77	2.86
AKS11/A	>4-3	0.92	2.47
AKS12/A	>4-3	0.38	2.99
AKS13/A	>4-3	1.38	3.94
AKP16/C	4-3	0.85	2.9
AKP1/A	>4-3	0.84	2.99
AKP1/C	>4-3	1.3	2.85
AKT3/A	4-3	0.54	2.62
AKT3/B	4-3	0.69	2.44
AKT8/A	>4-3	0.38	2.57
AKT8/B	>4-3	1.07	2.94
AKT2/A	>4-3	0.84	2.71
AKT2/B	>4-3	0.84	2.69
AKT7/A	>4-3	1.76	2.96
AKT7/B	>4-3	0.92	3.15
AKT1/A	>4-3	1.07	2.22
AKT1/B	>4-3	1.53	2.7

TABLE C-27. (Continued)

Station/ Replicate	Grain-Size Major Mode (phi units)	Boundary Roughness (cm)	Apparent RPD Depth (cm)
AKP15/A	4-3	1.92	2.08
AKP14/C	4-3	1.0	3.08
AKP4/A	4-3	1.07	3.56
AKP13/A	4-3	1.0	2.34
APK12/A	>4-3	1.38	2.69
AKT9/A	4-3	1.69	2.82
AKP10/A	4-3	1.3	2.42
AKP9/A	4-3	0.92	2.88
AKP8/A	4-3	0.87	3.36
APK2/A	4-3	2.29	2.8
AKP7/A	>4-3	2.37	2.52
AKP6/A	>4-3	0.79	2.77
AKP5/A	>4-3	0.79	3.11