

# PHOTOS

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Photograph 1: Example of levee without slope protection (Pond R3 Northeast)



Photograph 2: Example of levee with vegetation slope protection (Pond B2 Northwest)



Photograph 3: Example of levee with broken concrete slope protection (Pond B10 West)



Photograph 4: Example of levee with engineered riprap slope protection (Pond SF2 Southeast)



Photograph 5: Example of levee with wood shoring slope protection (Pond B10 North)



Photograph 6: Example of cracking distress of levee crest (Pond A12 East)



Photograph 7: Example of previous breach and overtopping distress of levee with subsequent poor repair (Pond B2 West)



Photograph 8: Example of undercutting and severe erosion distress of levee slope (Pond BT1 Southwestern point)



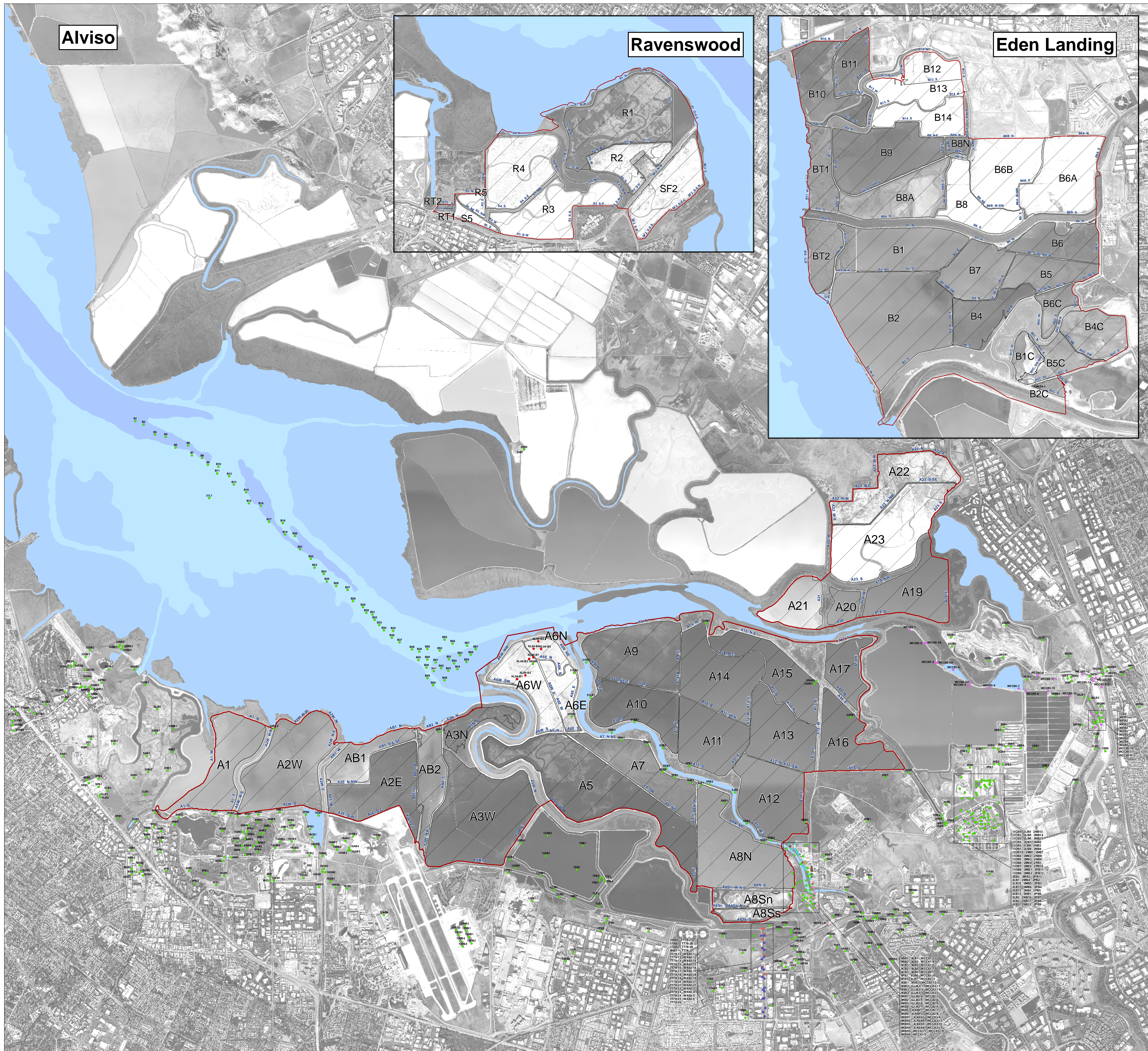
Photograph 9: Example of gullying and severe erosion distress of unprotected levee slope (Pond B2 South)



Photograph 10: Example of severe erosion distress of levee slope and crest (Pond BT2 North)

# PLATE

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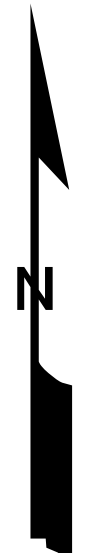
Alviso

Ravenswood

Eden Landing

- Explanation**
- Existing geotechnical data locations
    - EarthMax 2004
    - Kleinfelder 2004
    - Walter Associates 1992
    - Woodward Clyde Consultants 1985
    - Woodward Clyde Consultants 1983
    - Woodward Clyde Consultants 1982
    - Terratech 1978
    - Woodward - Lundgren & Associates 1971
    - John Lowmyer & Associates 1969
    - Giraldo, Jacobs, Jones and Associates 1963
    - Woodward Clyde Consultants 1961

- Project boundary
- ▨ A1 Project pond
- Deep Bay
- Fully Tidal Bayland
- Shallow Bay



0 0.25 0.5 1 Miles

EXISTING AND PROPOSED  
 GEOTECHNICAL EXPLORATIONS  
 Levee Assessment  
 South Bay Salt Ponds Restoration Project  
 San Francisco Bay Area, California



# **APPENDIX A**

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# **SUMMARY OF BORING LOGS**

**APPENDIX A**  
**BORING LOG DATABASE**  
 South Bay Salt Ponds Restoration Project  
 San Francisco Bay Area, CA

Boring Identifier	Ground Surface Elevation (ft)	Depth to Groundwater (ft)	Depth to Bottom of Fill (ft)	Depth to Bottom of Bay Mud, or Bay Mud Fill (ft)	Depth of Exploration (ft)	Depths of Potentially Liquefiable Layers (ft)	Predominant Unit below Bay Mud (USCS)	Consistency of Predominant Unit below Bay Mud
T5S/R1W-26QB1	N/A	14.5	1	14.7	20	N/A	CL-CH	hard
T5S/R1W-29QB1	5	N/A	6	24	58	36-58	SM, GP	medium dense
T5S/R1W-31EB1	8	N/A	1	17	43.5	23-43.5	SM	medium dense
T5S/R1W-31FB1	8.6	N/A	5	26.5	44	34.5-44	CL, SC, SM	stiff
T5S/R1W-31LB1	7.9	N/A	2.5	27.5	49.5	36-49.5	CL, SM, SP	firm
T5S/R1W-31NB1	8.2	N/A	2.5	21	49.5	41-49.5	CL	very stiff
T5S/R1W-31RB1	7.9	N/A	N/A	20	47	36-47	CL, SC, GP	stiff, medium dense
T5S/R1W-33KB1	4.5	N/A	4.5	17	55	17-21, 43-48	CL	firm
T5S/R1W-33KB2	N/A	N/A	N/A	>12	12	N/A	N/A	N/A
T5S/R1W-33RB1	6	N/A	7	29	60	29-44	CL, SP	Firm, medium dense
T5S/R1W-35AB1	0	N/A	7	14.6	20	N/A	CL	stiff
T5S/R1W-35DB1	0	N/A	N/A	13	20	N/A	CL	stiff
T5S/R1W-35DB2	N/A	N/A	N/A	N/A	12	N/A	N/A	N/A
T5S/R1W-35FB1	N/A	N/A	N/A	N/A	10	N/A	N/A	N/A
T5S/R1W-35GB1	N/A	N/A	N/A	13	51.5	13-21	CL	stiff
T5S/R1W-35JB1	N/A	N/A	N/A	N/A	8.5	N/A	N/A	N/A
T5S/R1W-36E1	N/A	N/A	4	16	500	N/A	CL	N/A
T5S/R1W-36M1	N/A	N/A	4	17	408	N/A	CL	N/A
T5S/R1W-36E2	N/A	N/A	4	23	400	N/A	CL	N/A
T5S/R1W-36EB1	0	6	6	22	25	N/A	CL	stiff
T5S/R1W-36FB1	2	7	7	13.2	25	17.5-18.4	CL	stiff
T5S/R1W-36GB1	N/A	N/A	N/A	N/A	20.5	N/A	CL	very stiff
T5S/R1W-36GB2	N/A	N/A	N/A	N/A	15	N/A	CL	hard
T5S/R1W-36GB3	N/A	N/A	N/A	N/A	10	N/A	CL	hard
T5S/R1W-36GB4	N/A	N/A	N/A	N/A	15	N/A	CL	hard
T5S/R1W-36H1	N/A	N/A	N/A	N/A	368	N/A	CL	N/A
T5S/R1W-36J1	N/A	N/A	N/A	N/A	320	28-44, 57-60	CL	N/A
T5S/R1W-36LB1	N/A	N/A	1	14.5	51.5	6-9, 14.5-18.5	CL	very stiff

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T5S/R1W-36LB2	5	N/A	4.5	13	20	4.5-6.4	CL	stiff
T5S/R1W-36PB1	N/A	6	N/A	N/A	50	17-37	CL, ML	firm
T5S/R1W-36PB2	N/A	6	N/A	N/A	50	17-23	CL	firm
T5S/R1W-36PB3	N/A	N/A	11	21	32	0-11, 28-32	CL	firm
T5S/R1W-36QB4	N/A	N/A	7	36	40	0-7, 17-25	CL	firm
T5S/R1W-36PB4	N/A	7	N/A	N/A	43	0-8, 16-23, 29-32	CL	firm
T5S/R1W-36PB5	N/A	N/A	N/A	N/A	6.5	N/A	N/A	N/A
T5S/R1W-36QB6	N/A	N/A	N/A	N/A	15	N/A	N/A	N/A
T5S/R1W-36QB1	N/A	N/A	8	14	30	0-8	CL	firm
T5S/R1W-36QB2	N/A	N/A	8	18	31	0-8, 28-30	CL	firm
T5S/R1W-36QB3	N/A	N/A	9	17	40	0-9, 29-33	CL	firm
T5S/R1W-36QB5	N/A	N/A	7	N/A	42.5	0-7, 17-21	CL	firm
T5S/R1W-36R80	N/A	N/A	2	N/A	367	N/A	CL	N/A
T5S/R1W-36MB1	N/A	N/A	2	6	12	N/A	CL	N/A
T5S/R2W-21L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
T5S/R2W-24B1	5	N/A	0	27	497	N/A	CL	N/A
T5S/R2W-24B2	5	N/A	0	27	497	N/A	CL	N/A
T5S/R2W-31HB1	N/A	4.5	4.5	13.5	80	24-31	CL, SP	stiff, medium dense
T5S/R2W-31J80	N/A	N/A	2	25	1040	25-40	SP, CL	N/A
T5S/R2W-31JB1	4	N/A	4	14	18	N/A	CL	N/A
T5S/R2W-31KB1	4	N/A	5	14	20	N/A	CL, SP	N/A
T5S/R2W-31LB1	N/A	9	5	14	27	N/A	CL	stiff, medium dense
T5S/R2W-31LB2	N/A	7	5	N/A	26.5	15.5-24	CL, SP	stiff, dense
T5S/R2W-31PB1	N/A	6.5	4	N/A	20	N/A	CL	firm, stiff
T5S/R2W-31PB2	N/A	6.5	3.5	N/A	36	N/A	CL	stiff
T5S/R2W-31PB3	N/A	6	6	N/A	36	20-34	CL, SP	stiff, dense
T5S/R2W-31QB1	5.5	N/A	4	9	20	N/A	CL	N/A
T5S/R2W-31QB2	7.5	N/A	7	9	19	N/A	CL	N/A

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T5S/R2W-32BB1	3	N/A	0	22	48	31-33	CL	stiff
T5S/R2W-32BB2	3	N/A	0	22	40	29-35	CL, SW	stiff, dense
T5S/R2W-32BB3	3	N/A	0	22.5	43	29-33	CL, SW	very stiff, dense
T5S/R2W-32BB4	3	N/A	0	22	40	39-40	CL	very stiff
T5S/R2W-32DB1	N/A	N/A	0	11	12	11-12	SP	dense
T5S/R2W-32DB2	N/A	2	0	>14	14	N/A	N/A	N/A
T5S/R2W-32EB1	N/A	7	1	14	80	N/A	CL	stiff
T5S/R2W-32EB2	N/A	4	3	14.5	133	26-32	CL, SM	stiff, dense
T5S/R2W-32EB3	N/A	3	0.5	>14	14	N/A	N/A	N/A
T5S/R2W-32EB4	N/A	3.5	0	9	10	9-10	GP	dense
T5S/R2W-32FB1	6	2.5	0	18.5	25	N/A	CL	stiff
T5S/R2W-32FB2	5.6	1	0	16.5	30	N/A	CL	stiff
T5S/R2W-32GB1	7.9	5	4	23	71	17-24	SP, CL	loose, soft
T5S/R2W-32HB1	2	4	1	15	19	N/A	CL	stiff
T5S/R2W-32JB1	2	4.5	1	16.5	19	N/A	CL	stiff
T5S/R2W-32M1	N/A	N/A	1	8	318	8-16	GP, CL	N/A
T5S/R2W-32MB1	N/A	4	16	N/A	60	34-48	CL, SP	stiff, dense
T5S/R2W-32MB2	N/A	4.5	5	11.5	25	11.5-15.5	GP, CL	medium dense, firm
T5S/R2W-32MB3	4	N/A	6	13	34	N/A	CL	N/A
T5S/R2W-32MB4	4	N/A	5	14	20	N/A	CL	N/A
T5S/R2W-32MB5	3.5	N/A	6	10	18	N/A	CL	N/A
T5S/R2W-32MB6	4	N/A	4	16	19	N/A	CL	N/A
T5S/R2W-32RB1	2	N/A	1	12.5	17	N/A	CL	stiff
T5S/R2W-33NB1	2	3.5	1.5	16	19	N/A	CL	stiff
T5S/R2W-34N1,2	3	2	0	31	60	N/A	CL	N/A
T5S/R2W-35R1,2	5	N/A	8	28	501.5	N/A	CL	N/A
T5S/R2W-36G80	N/A	N/A	9	20	150	N/A	CL	N/A
T5S/R2W-B1	-30	N/A	0	>2	2	N/A	N/A	N/A

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T5S/R2W-B10	-23	N/A	0	>9	9	N/A	N/A	N/A
T5S/R2W-B11	-24	N/A	0	>12	12	N/A	N/A	N/A
T5S/R2W-B12	-23	N/A	0	>9	9	N/A	N/A	N/A
T5S/R2W-B13	-22	N/A	0	>14	14	N/A	N/A	N/A
T5S/R2W-B14	-16	N/A	0	>20	20	N/A	N/A	N/A
T5S/R2W-B15	-10	N/A	0	23	27	N/A	CL	firm
T5S/R2W-B16	-10	N/A	0	15	21	N/A	CL	firm
T5S/R2W-B17	-6	N/A	0	13	25	N/A	CL	firm
T5S/R2W-B18	-8	N/A	0	9	21	N/A	CL	firm
T5S/R2W-B19	-7	N/A	0	8	28	N/A	CL	firm
T5S/R2W-B2	-11	N/A	0	9	23	N/A	CL	firm
T5S/R2W-B20	-8	N/A	0	10	26	N/A	CL	firm
T5S/R2W-B21	-22	N/A	0	7	14	N/A	CL	firm
T5S/R2W-B22	-19	N/A	0	5	18	N/A	CL	firm
T5S/R2W-B23	-22	N/A	0	2	9	N/A	CL	firm
T5S/R2W-B24	-29	N/A	0	2	5	N/A	CL	firm
T5S/R2W-B25	-21	N/A	0	8	12	N/A	CL	firm
T5S/R2W-B26	-21	N/A	0	11	12	N/A	CL	firm
T5S/R2W-B27	-30	N/A	0	4	6	N/A	CL	firm
T5S/R2W-B28	-29	N/A	0	4	8	N/A	CL	firm
T5S/R2W-B29	-24	N/A	0	1	11	N/A	CL	firm
T5S/R2W-B3	-9	N/A	0	10	27	N/A	CL	firm
T5S/R2W-B30	-11	N/A	0	9	24	N/A	CL	firm
T5S/R2W-B31	-12	N/A	0	6	24	N/A	CL	firm
T5S/R2W-B32	-21	N/A	0	2	17	N/A	CL	firm
T5S/R2W-B33	-21	N/A	0	1	16	N/A	CL	firm
T5S/R2W-B34	-20	N/A	0	1	16	N/A	CL	firm
T5S/R2W-B35	-11	N/A	0	8	23	N/A	CL	firm

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T5S/R2W-B36	-14	N/A	0	9	19	N/A	CL	firm
T5S/R2W-B37	-15	N/A	0	5	18	N/A	CL	firm
T5S/R2W-B38	-12	N/A	0	11	24	N/A	CL	firm
T5S/R2W-B39	-6	N/A	0	29	34	N/A	CL	firm
T5S/R2W-B4	-4	N/A	0	30	35	N/A	CL	firm
T5S/R2W-B40	-4	N/A	0	28	31	N/A	CL	firm
T5S/R2W-B41	-2	N/A	0	17	34	N/A	CL	firm
T5S/R2W-B42	-1	N/A	0	22	33	N/A	CL	firm
T5S/R2W-B43	-3	N/A	0	12	26	N/A	CL	firm
T5S/R2W-B44	-13	N/A	0	3	19	N/A	CL	firm
T5S/R2W-B45	-14	N/A	0	3	18	N/A	CL	firm
T5S/R2W-B46	-2	N/A	0	10	30	N/A	CL	firm
T5S/R2W-B47	0	N/A	0	12	33	N/A	CL	firm
T5S/R2W-B48	1	N/A	0	19	36	N/A	CL	firm
T5S/R2W-B49	2	N/A	0	13	37	N/A	CL	firm
T5S/R2W-B5	-11	N/A	0	5	23	N/A	CL	firm
T5S/R2W-B50	-2	N/A	0	11	32	N/A	CL	firm
T5S/R2W-B51	0	N/A	0	11	13	N/A	CL	firm
T5S/R2W-B52	1	N/A	0	15	17	N/A	CL	firm
T5S/R2W-B53	0	N/A	0	11	34	N/A	CL	firm
T5S/R2W-B54	1	N/A	0	15	17	N/A	CL	firm
T5S/R2W-B55	-2	N/A	0	16	36	N/A	CL	firm
T5S/R2W-B56	-11	N/A	0	10	24	N/A	CL	firm
T5S/R2W-B57	1	N/A	0	23	36	N/A	CL	firm
T5S/R2W-B58	1	N/A	0	14	35	N/A	CL	firm
T5S/R2W-B59	-5	N/A	0	10	32	N/A	CL	firm
T5S/R2W-B6	-11	N/A	0	5	26	N/A	CL	firm
T5S/R2W-B60	-8	N/A	0	2	29	N/A	CL	firm

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T5S/R2W-B61	0	N/A	0	13	35	N/A	CL	firm
T5S/R2W-B7	2	N/A	0	14	36	N/A	CL	firm
T5S/R2W-B8	0	N/A	0	13	34	N/A	CL	firm
T5S/R2W-B9	1	N/A	0	15	38	N/A	CL	firm
T6S/R1W-1B80	N/A	N/A	22	28	162	112-116	CL	N/A
T6S/R1W-1C80	N/A	14	16	20	150	14-16	CL	N/A
T6S/R1W-1CB1	12	6.8	8	12	20	6.8-8	CL	stiff
T6S/R1W-1CB2	10	6.5	11	12.5	20	6.5-11	CL	stiff
T6S/R1W-1MB1	13	N/A	13.6	>20	20	6-9.4	N/A	N/A
T6S/R1W-2AB1	N/A	N/A	5.5	7	11	N/A	CL	stiff
T6S/R1W-2BB1	N/A	N/A	3	4.5	5	N/A	CL	firm
T6S/R1W-2BB2	3	8	4	10	17	13-17	CL, SM	stiff, loose
T6S/R1W-2BB3	5	5	4	N/A	15	N/A	CL	stiff
T6S/R1W-2BB4	4	N/A	9	>10	10	5-9	N/A	N/A
T6S/R1W-2BB5	5	N/A	4	N/A	4	N/A	N/A	N/A
T6S/R1W-2CB1	3.6	2	23	27	30	27-30	SC, CL	N/A
T6S/R1W-2CB2	4.4	3.5	18	27	25	N/A	CL	N/A
T6S/R1W-2CB3	4.3	6.8	1	4	35	N/A	CL	firm
T6S/R1W-2DB1	3.1	2	30	>40	40	N/A	CL	N/A
T6S/R1W-2DB2	N/A	N/A	2.5	10.5	12.5	N/A	CL	firm, stiff
T6S/R1W-2EB1	3.2	2	0	0	40	N/A	CL	N/A
T6S/R1W-2EB2	N/A	N/A	6	>15	15	N/A	N/A	N/A
T6S/R1W-2FB1	4.6	3	3	3	33	13-33	SM, SP	medium dense
T6S/R1W-2FB2	4.5	3	3	7	49	7-10	CL	stiff
T6S/R1W-2FB3	5	15	1	N/A	16	14-16	CL, SP	stiff, loose
T6S/R1W-2HB1	N/A	N/A	3	>5	5	N/A	N/A	N/A
T6S/R1W-2LB1	N/A	N/A	1	2	9	N/A	CL	very stiff
T6S/R1W-2LB10	2.2	N/A	1	3	7	6-7	SC, CH	N/A

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T6S/R1W-2LB11	1.6	N/A	1	6	7	N/A	CL	N/A
T6S/R1W-2LB12	1.9	N/A	1	5.5	8	N/A	CL	N/A
T6S/R1W-2LB13	1.9	N/A	1	5	7	5-7	SC	N/A
T6S/R1W-2LB2	4.5	4	7	N/A	14	N/A	CL	stiff
T6S/R1W-2LB3	3.7	3	4	N/A	8	N/A	CL	stiff
T6S/R1W-2LB4	2.9	N/A	1	4	5	N/A	CL	firm
T6S/R1W-2LB5	2.5	N/A	0.5	7	8	N/A	CL	firm
T6S/R1W-2LB6	3	N/A	5	N/A	5	N/A	CL	N/A
T6S/R1W-2LB7	2.8	N/A	3	N/A	3	N/A	CL	N/A
T6S/R1W-2LB8	2.7	N/A	3	N/A	3	N/A	CL	N/A
T6S/R1W-2LB9	1.8	N/A	1	6	8	6-8	SC	N/A
T6S/R1W-2M81	N/A	N/A	7	15	20	N/A	CL	N/A
T6S/R1W-2M82	N/A	N/A	6	6	35	14-35	Cl, SP	N/A
T6S/R1W-2M83	N/A	N/A	2	3	20	3-8	SP, CL	N/A
T6S/R1W-2M84	N/A	N/A	2	8	20	N/A	CL	N/A
T6S/R1W-2M85	N/A	N/A	5	7	20	7-18	SP, CL	N/A
T6S/R1W-2MB1	N/A	N/A	7	N/A	7	N/A	SP	loose
T6S/R1W-2MB2	2.8	3	6	N/A	12	4-9	CL, SP	stiff, medium dense
T6S/R1W-2MB3	3.1	N/A	2	N/A	2	N/A	CL	N/A
T6S/R1W-2MB4	2.5	N/A	4	N/A	4	N/A	CL	N/A
T6S/R1W-2MB5	2	N/A	3	N/A	5	4-5	SC	N/A
T6S/R1W-2MB6	2.2	N/A	3	N/A	5	3.5-5	SC	N/A
T6S/R1W-2N80	N/A	N/A	3	14	692	14-16	SP, CL	N/A
T6S/R1W-2NB1	8.6	6	8	N/A	33	8-23	SP, CL	medium dense, stiff
T6S/R1W-2NB10	4	6.5	1.5	7	30	N/A	CL	firm
T6S/R1W-2NB11	5	5	8	14	25	14-17	SC, CL	loose, soft
T6S/R1W-2NB12	4.5	4.5	13.5	N/A	22	15-19.5	CL, SM	firm, loose
T6S/R1W-2NB13	5	5	14	N/A	18	6-14	CL	firm



**APPENDIX A**  
**BORING LOG DATABASE**  
 South Bay Salt Ponds Restoration Project  
 San Francisco Bay Area, CA

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T6S/R1W-2NB14	6	5	10	N/A	17	10-17	SM	loose
T6S/R1W-2NB15	9.4	5	5	N/A	30	N/A	CL	stiff, very stiff
T6S/R1W-2NB2	10.2	5	4	4	36	N/A	CL	stiff
T6S/R1W-2NB3	N/A	15	5	11	20	N/A	CL	stiff
T6S/R1W-2NB4	N/A	N/A	11.5	>13	13	N/A	N/A	N/A
T6S/R1W-2NB7	3.5	4	10	N/A	50	N/A	CL, ML	stiff
T6S/R1W-2NB8	3	3	8	N/A	25	14-20	CL, SM	firm, dense
T6S/R1W-2NB9	3	4	11	21	25	N/A	CL	stiff
T6S/R1W-2PB1	6.2	5	4.5	N/A	31	N/A	CL	stiff
T6S/R1W-2PB10	5	6	10	N/A	21	9-21	SM	loose
T6S/R1W-2PB11	9.8	7	8	14	32	5-8	CL	stiff, very stiff
T6S/R1W-2PB12	4.6	0.5	0.5	7	32	9-14	CL, SC	stiff, medium dense
T6S/R1W-2PB13	6.5	2.5	6	N/A	31.5	8-18.5	SM, CL	medium dense, stiff
T6S/R1W-2PB2	3.5	5	2	N/A	51	39-48	CL, SP	firm, very dense
T6S/R1W-2PB3	4.5	4.5	2	N/A	31	11.5-19	CL, SM	firm, medium dense
T6S/R1W-2PB4	5	N/A	4	N/A	31	14-19	CL, SC	firm, dense
T6S/R1W-2PB5	5	3	3	N/A	25	3-25	SP, SM	loose
T6S/R1W-2PB6	5	7	3	N/A	25	7-10	SP, CL	dense, firm
T6S/R1W-2PB7	4.5	7	9	N/A	25	8-10	SC, ML	loose, firm
T6S/R1W-2PB8	5	6	8	N/A	25	7-9	SC, CL	loose, firm
T6S/R1W-2PB9	5	5	6	N/A	20	5-16	GM, CL	medium dense, firm
T6S/R1W-3FB1	N/A	N/A	0.5	4	8	7-8	CL, SC	N/A
T6S/R1W-3GB1	10	N/A	16	25	56	45-56	CL, SM	firm, dense
T6S/R1W-3NB1	N/A	N/A	0	0	4	N/A	CL	firm
T6S/R1W-3R80	N/A	N/A	9	13	20	N/A	CL	N/A
T6S/R1W-3RB1	6.7	4.5	5	13.5	47	13.5-19	SM, CL	medium dense, stiff
T6S/R1W-3RB3	6	5	4	N/A	24	10-23	SC, SP	dense
T6S/R1W-3RB4	5	5	6	N/A	25	N/A	CL	firm

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 South Bay Salt Ponds Restoration Project  
 San Francisco Bay Area, CA

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T6S/R1W-3RB5	7	6.5	4	N/A	25	N/A	CL	firm
T6S/R1W-3RB6	3	4	6	14	37	14-25	SM, CL	medium dense, stiff
T6S/R1W-4QB1	11	N/A	8	14	25	N/A	CL	N/A
T6S/R1W-5DB1	0.6	N/A	5.5	16.5	32	27.5-32	CL	firm, stiff
T6S/R1W-5EB1	1.2	N/A	4.5	16	45.5	N/A	CL	stiff, very stiff
T6S/R1W-5EB2	6.3	5.5	6	19	42	40-42	CL	stiff
T6S/R1W-5EB3	5	N/A	1	9	41	24-26	CL	stiff, very stiff
T6S/R1W-5FB1	1.9	N/A	4	23	37	N/A	CL	stiff, very stiff
T6S/R1W-5JB1	1	N/A	5	15.5	42	N/A	CL	stiff, very stiff
T6S/R1W-5KB1	1	N/A	0	9	45	36-40	CL, SM	stiff, loose
T6S/R1W-5KB2	6	N/A	0	11	46	27-33	CL, SM	stiff, very stiff, loose
T6S/R1W-5LB1	3.6	7.5	2	21.5	37	N/A	CL	stiff
T6S/R1W-5LB2	0.6	N/A	1	17	42	17-19, 38-40	CL, SM	stiff, very stiff, loose
T6S/R1W-5RB1	0.6	5.5	3.5	12	30	N/A	CL	firm, stiff
T6S/R1W-6AB1	8.6	N/A	3.5	33	47	33-47	SM	loose
T6S/R1W-6BB1	8.8	N/A	3	18	45.5	38-41.5	CL	stiff
T6S/R1W-6BB2	5	N/A	0	5.5	34	N/A	CL	stiff
T6S/R1W-7DB1	N/A	N/A	0	10	23	N/A	CL	firm
T6S/R1W-7EB1	N/A	N/A	0	5	20	8-20	SC, SM	dense
T6S/R1W-7FB1	N/A	N/A	3	11	26	11-14	SC, CL	dense, stiff
T6S/R1W-7FB2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
T6S/R1W-7FB3	N/A	2.5	0	20	30	22-30	CL, SM	firm, dense
T6S/R1W-7FB4	N/A	4	0	23	35	25-35	CL, SM	stiff, dense
T6S/R1W-7LB1	N/A	N/A	0	3	22	8-11, 14-22	SM, SC	dense
T6S/R1W-7LB2	N/A	N/A	0	4	24	10-24	CL, SM	stiff, dense
T6S/R1W-7MB1	N/A	N/A	0	3	22	14-22	CL, SM	stiff, dense
T6S/R1W-7PB1	N/A	N/A	14	N/A	14	10-14	SM, SP	dense
T6S/R1W-7PB2	N/A	10	13	14	24	10-13, 18-24	CL, SC	firm, dense

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 South Bay Salt Ponds Restoration Project  
 San Francisco Bay Area, CA

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T6S/R1W-7PB3	N/A	N/A	0	3	4	N/A	CL	firm
T6S/R1W-7RB1	N/A	N/A	0	>2	2	N/A	N/A	N/A
T6S/R1W-9BB1	8	N/A	7	12	13	N/A	CL	N/A
T6S/R1W-9BB2	N/A	N/A	0	6	11	N/A	CL	firm
T6S/R1W-9BB3	N/A	N/A	0	N/A	2	N/A	N/A	N/A
T6S/R1W-9CB1	11	N/A	7	15	27	N/A	CL	N/A
T6S/R1W-9CB2	N/A	2	4	N/A	14	N/A	CL	medium stiff
T6S/R1W-9CB3	N/A	6	4	16.5	18.5	N/A	CL	stiff
T6S/R1W-9DB1	N/A	8	3	11	42	30-32, 36.5-39	CL, SM	soft, very stiff, loose
T6S/R1W-9DB2	5	1	3	17	45	N/A	CL	firm
T6S/R1W-9FB1	3.6	N/A	3	18	25	8-9, 23-25	CL, SM	very stiff, medium dense
T6S/R1W-9FB2	N/A	2	7	N/A	19	15-19	CL, SM	firm, dense
T6S/R1W-9G1	N/A	N/A	1	10	770	18-20, 34-55	CL, SP	N/A
T6S/R1W-9GB1	N/A	3	5	>8	8	N/A	N/A	N/A
T6S/R1W-9GB2	N/A	0.5	6.5	12	29	21-27	CL, SP	stiff, dense
T6S/R1W-9GB3	N/A	3	4	8	14	12-14	CL, SM	stiff, medium dense
T6S/R1W-9GB4	N/A	1	6	>8	8	N/A	N/A	N/A
T6S/R1W-9H1	N/A	21	8	21	560	21-90	SP	N/A
T6S/R1W-9J1	N/A	9	8	17	263	25-85	SP	N/A
T6S/R1W-9JB1	3.5	4	1	4	30	9-14	CL, SM	very stiff, medium dense
T6S/R1W-9KB1	N/A	2	5	10	42	26.5-42	CL, SP	very stiff, loose
T6S/R1W-9KB2	N/A	N/A	6.5	21	73	27-60	CL, SC	firm, loose
T6S/R1W-9KB3	N/A	N/A	10	25	54	41-46	CL, SM	firm, loose
T6S/R1W-9KB4	3.5	5.5	6	19	67	36-40	CL, SM	firm, medium dense
T6S/R1W-9KB5	N/A	N/A	3	11	30	N/A	CL	stiff
T6S/R1W-9KB6	N/A	N/A	8	15	47	20-31	CL, SM	stiff, loose
T6S/R1W-9KBX1	N/A	2	7	14.5	22	15-16	SP, CL	dense, stiff
T6S/R1W-9KBX2	N/A	3	6.5	10	22.5	N/A	CL	stiff

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 South Bay Salt Ponds Restoration Project  
 San Francisco Bay Area, CA

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T6S/R1W-9KBX3	N/A	N/A	5	25	32.5	25-29	SC, CL	loose, stiff
T6S/R1W-9KBX4	N/A	3.5	4.5	15	21.5	N/A	CL	stiff
T6S/R1W-9KBX5	N/A	8	2	17	21.5	20-21.5	CL, SP	very stiff, medium dense
T6S/R1W-9KBX6	N/A	4	8	15	19.5	16.5-18	CL, SM	stiff, medium dense
T6S/R1W-9LB1	2	5	8.5	19	44	19-22	SC, CL	stiff, medium dense
T6S/R1W-9LB2	2	5	7.5	14	40	19-22, 29-40	CL, SM	stiff, loose
T6S/R1W-9LB3	3	4	7	17	42	30-42	CL, SM	stiff, medium dense
T6S/R1W-9LB4	N/A	3	1.5	30	51	30-38	SP, CL	loose, stiff
T6S/R1W-9LB5	N/A	3	4.5	10	52	33-52	CL, SP	stiff, loose
T6S/R1W-9LB6	N/A	6	0.5	7.5	50	28-50	CL, SC	very stiff, medium dense
T6S/R1W-9LB7	N/A	N/A	2	5.5	7.5	N/A	CL	firm, very stiff
T6S/R1W-9NB1	N/A	9	11	19.5	21	N/A	CL	stiff, very stiff
T6S/R1W-9NB2	N/A	12	7.5	18.5	21	N/A	CL	very stiff
T6S/R1W-9PB1	N/A	9.5	6	18.5	21	N/A	CL	very stiff
T6S/R1W-9PB2	N/A	8.5	7.5	15	21	N/A	ML, CH	stiff, very stiff
T6S/R1W-9QB1	N/A	N/A	1.5	9	30	9-12	SM, CL	medium dense, stiff
T6S/R1W-9RB1	N/A	2.5	5	20	28	20-22.5	SP, CL	medium dense, very stiff
T6S/R1W-9RB2	N/A	N/A	2	5	8	N/A	CL	N/A
T6S/R1W-10E2	N/A	N/A	15	23	385	38-47	CL, SP	N/A
T6S/R1W-10K80	N/A	N/A	2	12	300	12-21	SP, CL	N/A
T6S/R1W-10NB1	0.6	N/A	2	11.5	31	11.5-16.5	SM, CL	medium dense, stiff
T6S/R1W-10NB2	N/A	N/A	1	15	28	15-28	SM, SP	loose, medium dense
T6S/R1W-10NB3	14	4	12	30	35	N/A	CL	N/A
T6S/R1W-10NB4	N/A	7	8	31	52	31-32, 40-52	CL, SM	firm, loose
T6S/R1W-10NB5	N/A	6	8	12	34	N/A	CL	stiff
T6S/R1W-10NB6	13	2	13	30	32	N/A	CL	N/A
T6S/R1W-10P2	N/A	8	8	16	368	16-24	SP, CL	N/A
T6S/R1W-10P80	N/A	6	3	5	85	8-12, 16-18	CL, SP	N/A

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 South Bay Salt Ponds Restoration Project  
 San Francisco Bay Area, CA

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T6S/R1W-10PB1	11	N/A	8	N/A	8	N/A	N/A	N/A
T6S/R1W-10QB1	7	4	6	>12	12	N/A	N/A	N/A
T6S/R1W-10RB1	7	N/A	5	N/A	5	N/A	N/A	N/A
T6S/R1W-10RB2	7	N/A	6	>15	15	N/A	N/A	N/A
T6S/R1W-11C80	N/A	7	3	7	415	7-34	SP	N/A
T6S/R1W-11CB1	7.5	5	4	6	31.5	6-23.5	SP, CL	medium dense, stiff
T6S/R1W-11CB2	3.5	5	8.5	N/A	50.5	32.5-45	CL, SC	firm, dense
T6S/R1W-11CB3	5	5	5	N/A	32	5-13	GW, CL	dense, stiff
T6S/R1W-11D80	N/A	N/A	6	11	555	19-22	CL, SP	N/A
T6S/R1W-11DB1	12	7	4	13	33	25-30	CL, SM	firm, medium dense
T6S/R1W-11DB10	8	7	2	N/A	47	18.5-22	CL	stiff
T6S/R1W-11DB4	3.5	4	2	N/A	51.5	14.5-24	CL, SM	soft, dense
T6S/R1W-11DB5	5	6	8	19	51	30-35	CL, SM	stiff, loose
T6S/R1W-11DB6	4.5	8	9	N/A	52	N/A	CL	soft
T6S/R1W-11DB7	12	12	3	14	47	N/A	CL	stiff
T6S/R1W-11DB8	12	9	5	N/A	46	29-44	CL, SP	stiff, medium dense
T6S/R1W-11DB9	8.5	6	3	N/A	46.5	N/A	CL	stiff, very stiff
T6S/R1W-11F80	N/A	N/A	8	N/A	315	N/A	CL	N/A
T6S/R1W-11N1	N/A	N/A	5	N/A	608	30-43	CL, SP	N/A
T6S/R1W-15A80	N/A	N/A	3	N/A	424	6-10	CL, SP	N/A
T6S/R1W-15B80	N/A	N/A	3	5	85	8-12, 16-18	CL, SP	N/A
T6S/R1W-15C80	N/A	N/A	4	N/A	371	N/A	CL	N/A
T6S/R1W-15DB1	7	8	4	12	35	22-30	CL, SM	stiff, loose
T6S/R1W-15DB2	1.5	6	13.5	25	30	25-26	CL	firm
T6S/R1W-15DB3	N/A	N/A	4	17	34	17-34	SM	loose, medium dense
T6S/R1W-15FB1	6.3	7	6	N/A	40	30-40	CL, SM	stiff, loose
T6S/R1W-15FB2	N/A	7	0	10.5	25	10.5-25	SM	medium dense
T6S/R1W-15H80	N/A	N/A	3	N/A	276	20-50	SP	N/A

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 San Francisco Bay Area, CA

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T6S/R1W-16A1	N/A	N/A	6.5	N/A	551	15-20	CL, SP	N/A
T6S/R1W-16AB1	N/A	N/A	0	3	3.5	N/A	CL	N/A
T6S/R1W-16B80	N/A	N/A	8	15	540	15-21	GW, CL	N/A
T6S/R1W-16CB1	N/A	10	8	18	21	18-21	SC	loose
T6S/R1W-16CB2	N/A	10.5	8.5	14.5	21	N/A	CL	very stiff
T6S/R1W-16CB3	N/A	N/A	0.5	>2.3	2.3	N/A	N/A	N/A
T6S/R1W-16CB4	N/A	N/A	1	>3	3	N/A	N/A	N/A
T6S/R1W-16E80	N/A	N/A	4	N/A	432	N/A	CL	N/A
T6S/R1W-16F1	N/A	N/A	5	N/A	435	5-25	SP, CL	N/A
T6S/R1W-16F80	N/A	N/A	11	N/A	538	11-18	SP, CL	N/A
T6S/R1W-16F81	N/A	14	4	N/A	432	N/A	CL	N/A
T6S/R1W-16FB1	N/A	11.5	4	12	21	17.5-19	CL, SC	stiff, loose
T6S/R1W-16FB2	N/A	11.5	10	14	21	14-16.5	SC, CL	medium dense, stiff
T6S/R1W-16H80	N/A	N/A	7	N/A	71	50-56	CL	N/A
T6S/R1W-16J1	N/A	N/A	4	N/A	675	13-17	CL	N/A
T6S/R1W-16N80	N/A	N/A	3	N/A	428	N/A	CL	N/A
T6S/R1W-17A80	N/A	5	N/A	N/A	369	N/A	CL	N/A
T6S/R1W-17AB1	N/A	N/A	2	2.5	3	N/A	CL	very stiff
T6S/R1W-17AB2	N/A	N/A	0	N/A	2	N/A	CL	very stiff
T6S/R1W-17BB1	N/A	N/A	1.5	>4	4	N/A	N/A	N/A
T6S/R1W-17H80	N/A	N/A	5	10	210	50-55	CL	N/A
T6S/R1W-17K1	N/A	N/A	4	N/A	583	N/A	CL	N/A
T6S/R1W-17K2	N/A	8	7	11	492	28-37	CL, SP	N/A
T6S/R1W-17KB1	N/A	5	0	2	14.5	7-11	CL, SC	stiff, loose
T6S/R1W-17R80	N/A	N/A	4	N/A	538	N/A	CL	N/A
T6S/R1W-17R81	N/A	N/A	4	N/A	495	31-37	CL, SP	N/A
T6S/R1W-18D1	N/A	9	5	N/A	894	N/A	CL	N/A
T6S/R1W-18E80	N/A	N/A	5	N/A	894	N/A	CL	N/A

**APPENDIX A**  
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 South Bay Salt Ponds Restoration Project  
 San Francisco Bay Area, CA

Boring Identifier	Ground Surface Elevation (ft)	Depth to Groundwater (ft)	Depth to Bottom of Fill (ft)	Depth to Bottom of Bay Mud, or Bay Mud Fill (ft)	Depth of Exploration (ft)	Depths of Potentially Liquefiable Layers (ft)	Predominant Unit below Bay Mud (USCS)	Consistency of Predominant Unit below Bay Mud
T6S/R2W-3MB1	6	N/A	5	13	25	N/A	CL	stiff
T6S/R2W-3NB1	14	12	17	19	25	N/A	CL	stiff
T6S/R2W-3NB2	10	10	12	18	25	24-25	CL, SM	stiff, dense
T6S/R2W-3NB3	N/A	N/A	0	7	9	7-9	SP	N/A
T6S/R2W-3PB1	15	N/A	17	21.5	31	29-31	CL, SC	stiff, dense
T6S/R2W-3PB2	14	11	11	19	25	24-25	CL	stiff
T6S/R2W-3PB3	N/A	N/A	2.5	6	6.5	6-6.5	SP	dense
T6S/R2W-3PB4	N/A	5	2.5	>10	10	N/A	N/A	N/A
T6S/R2W-3QB1	6	N/A	4	13	25	N/A	CL	firm
T6S/R2W-4DB1	2	4	1	15	16	N/A	CL	very stiff
T6S/R2W-4NB1	N/A	N/A	1.5	>4	4	N/A	N/A	N/A
T6S/R2W-4NB2	N/A	4	1	5	6	N/A	CL	stiff
T6S/R2W-4PB1	8	N/A	3	13.5	20	17-18.5	CL, SC	stiff, dense
T6S/R2W-4Q80	N/A	N/A	4	18	254	42-54	CL, SP	N/A
T6S/R2W-4QB1	8	N/A	5	14	25	22-25	CL, SP	stiff, dense
T6S/R2W-4QB2	6	N/A	1	14	20	N/A	CL	stiff
T6S/R2W-4QB3	N/A	N/A	2.5	>5	5	N/A	N/A	N/A
T6S/R2W-4RB1	N/A	N/A	7	11.5	15	N/A	CL	very stiff
T6S/R2W-4RB2	4	N/A	3.5	9	20	16-18	CL, SP	stiff, dense
T6S/R2W-4RB3	8	N/A	8	12	13.5	N/A	CL	stiff
T6S/R2W-4RB4	3.5	6	2.5	8	25	N/A	CL	stiff
T6S/R2W-4RB5	15	15.5	15.5	22	25	N/A	CL	stiff
T6S/R2W-4RB6	7	7.5	7	17	20	N/A	CL	stiff
T6S/R2W-4RB7	8	8	5	13.5	25	20-22	CL, SC	stiff, very dense
T6S/R2W-4RB8	3	2.5	2	9	25	14.5-20	CL, SW	stiff, dense
T6S/R2W-5AB1	2	4.5	0	13	15	N/A	CL	stiff
T6S/R2W-5CB1	N/A	N/A	2.5	>10.5	10.5	N/A	N/A	N/A
T6S/R2W-5D1	N/A	N/A	0	N/A	550	N/A	CL	N/A

**APPENDIX A**  
**BORING LOG DATABASE**  
 South Bay Salt Ponds Restoration Project  
 San Francisco Bay Area, CA

Boring Identifier	Ground Surface Elevation (ft)	Depth to Groundwater (ft)	Depth to Bottom of Fill (ft)	Depth to Bottom of Bay Mud, or Bay Mud Fill (ft)	Depth of Exploration (ft)	Depths of Potentially Liquefiable Layers (ft)	Predominant Unit below Bay Mud (USCS)	Consistency of Predominant Unit below Bay Mud
T6S/R2W-5D80	5	N/A	0	N/A	603	N/A	CL	N/A
T6S/R2W-5DB1	N/A	N/A	2	7.5	8	N/A	CL	very stiff
T6S/R2W-5EB1	3	N/A	1.5	N/A	5	N/A	CL	firm
T6S/R2W-5EB2	N/A	2	1	4	15	12-15	CL, SM	firm, medium dense
T6S/R2W-5FB1	N/A	2	1	4	31	11-13, 22.5-24	CL, SM	firm, dense
T6S/R2W-5FB2	N/A	2.5	0.5	5.5	15	N/A	CL	firm
T6S/R2W-5GB1	2	3	0	9	12	N/A	CL	stiff
T6S/R2W-5HB1	2	4	0	14	16	N/A	CL	stiff
T6S/R2W-5HB2	2	3	0	12	13	N/A	CL	stiff, firm
T6S/R2W-5JB1	2	4	0	9	14	N/A	CL	firm, stiff
T6S/R2W-5LB1	3	4	0	3.5	9	N/A	CL	firm, stiff
T6S/R2W-5LB2	N/A	2.5	4	N/A	15	N/A	CL	firm
T6S/R2W-5LB3	N/A	3.5	1.5	4	15	13-15	CL, SM	firm, dense
T6S/R2W-5PB1	3	8	0	6	12	N/A	CL	firm
T6S/R2W-5Q80	N/A	N/A	4	8	915	8-16, 34-38	SP, CL	N/A
T6S/R2W-5QB1	3	10	0	8	10	N/A	CL	firm
T6S/R2W-5RB1	N/A	N/A	6.5	10	20	17-19	CL, SC	stiff, medium dense
T6S/R2W-5RB2	6	N/A	3.5	11.5	20	N/A	CL	stiff
T6S/R2W-5RB3	N/A	6.5	6.5	11	20	17-19	CL, SP	very stiff, medium dense
T6S/R2W-6AB1	N/A	N/A	1	5	6	N/A	CL	stiff
T6S/R2W-8A80	N/A	N/A	5	13	376	N/A	CL	N/A
T6S/R2W-8A81	N/A	N/A	3	12	376	18-37	CL, SC	N/A
T6S/R2W-8B80	N/A	10	3	18	300	N/A	CL	N/A
T6S/R2W-8BB1	7.8	4.5	0	4.5	20	10.5-14	CL, SM	stiff, medium dense
T6S/R2W-8BB2	8.4	4.5	0	4	29	N/A	CL	stiff
T6S/R2W-8GB1	8.9	4	0	4	19	17-19	CL, SP	stiff, dense
T6S/R2W-8GB2	10	4.5	0	4.5	20	14-20	CL, SM	stiff, medium dense
T6S/R2W-8GB3	10	4.5	0	5	20	N/A	CL	stiff



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 San Francisco Bay Area, CA

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T6S/R2W-8GB4	10.7	5.5	0	5	20	N/A	CL	stiff, very stiff
T6S/R2W-8GB5	9.7	8.5	0	2.5	24	8.5-13.5	CL, SP	stiff, medium dense
T6S/R2W-8GB6	8.5	4.5	0	4	25	7.5-14	CL, SM	stiff, medium dense
T6S/R2W-8H1	N/A	N/A	3	12	80	15-18, 31-37	CL, SP	N/A
T6S/R2W-9AB1	N/A	9	8	>12.5	12.5	N/A	N/A	N/A
T6S/R2W-9AB2	N/A	6	9	N/A	14	N/A	CL	stiff
T6S/R2W-9AB3	10	10	16	N/A	25	N/A	CL	stiff
T6S/R2W-9AB4	12	11	17	18.5	25	N/A	CL	stiff
T6S/R2W-9AB5	10	12	16.5	N/A	25	N/A	CL	stiff
T6S/R2W-9AB6	6	4	10	N/A	25	21-25	CL, SC	stiff, medium dense
T6S/R2W-9B80	N/A	13	5	N/A	180	N/A	CL	N/A
T6S/R2W-9B82	5	N/A	11.5	N/A	25	11.5-20	SM, CL	medium dense, stiff
T6S/R2W-9B83	2	3	2.5	5.5	20	N/A	CL	stiff
T6S/R2W-9B84	12	7	8	11	25	23-25	CL, SM	stiff, medium dense
T6S/R2W-9B85	16	14	15	16	25	24-25	CL, SC	stiff, medium dense
T6S/R2W-9B86	7	6	6	N/A	25	10-19	SM, CL	medium dense, stiff
T6S/R2W-9EB1	6	6	3	N/A	25	19-25	CL, GM	very stiff, very dense
T6S/R2W-9FB1	8	5	2	5	22	N/A	CL	stiff
T6S/R2W-9FB2	5	N/A	0	3	25	19-25	CL, SM	stiff, medium dense
T6S/R2W-9FB3	7	N/A	2.5	N/A	25	2.5-10	SC, CL	medium dense, stiff
T6S/R2W-9GB1	7	7	5	N/A	20	8-14	SM, CL	medium dense, stiff
T6S/R2W-9H1	N/A	N/A	8	15	203	15-25	GW, CL	N/A
T6S/R2W-9H2	N/A	N/A	5	10	220	43-49	CL, SP	N/A
T6S/R2W-10AB1	N/A	N/A	2	>5.5	5.5	N/A	N/A	N/A
T6S/R2W-10AB2	N/A	N/A	5	>6	6	N/A	N/A	N/A
T6S/R2W-10AB3	N/A	3	2.5	5.5	30	23-29	CL, SC	stiff, dense
T6S/R2W-10AB4	N/A	3	0	6	28	22.5-28	CL, SC	stiff, dense
T6S/R2W-10AB5	N/A	2	0	3.5	30	8-11, 24-26.5	CL, SC	stiff, dense

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 South Bay Salt Ponds Restoration Project  
 San Francisco Bay Area, CA

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T6S/R2W-10B80	N/A	N/A	2	5	390	5-15, 33-39	SP, CL	N/A
T6S/R2W-10BB1	4	1	0	8.5	9	N/A	CL	firm
T6S/R2W-10BB2	N/A	N/A	2.5	>4	4	N/A	N/A	N/A
T6S/R2W-10CB1	4	N/A	4.5	7.5	16	9-10	CL, SC	firm, dense
T6S/R2W-10CB2	7	N/A	4.5	7.5	10	N/A	CL	stiff
T6S/R2W-10CB3	6	N/A	4.5	8	13.5	N/A	CL	stiff
T6S/R2W-10CB4	12.5	12	17.5	19	25	N/A	CL	stiff
T6S/R2W-10CB5	N/A	8	3	N/A	10.5	N/A	CL	firm
T6S/R2W-10DB2	6	11	5	9	25	24-25	CL	stiff, dense
T6S/R2W-10DB3	6	N/A	5	9	25	N/A	CL	stiff
T6S/R2W-10EB1	N/A	N/A	0	4	13.5	N/A	CL	stiff
T6S/R2W-10F80	N/A	N/A	0	3	24	9-11	CL, SP	N/A
T6S/R2W-10G80	N/A	8	4	N/A	620	8-14	CL, GW	N/A
T6S/R2W-10G81	N/A	N/A	3	5	332	N/A	CL	N/A
T6S/R2W-10G82	N/A	N/A	4	N/A	620	8-14	CL, GW	N/A
T6S/R2W-10GB1	N/A	N/A	2.5	N/A	3.5	N/A	CL	N/A
T6S/R2W-10J80	N/A	N/A	3	5	453	5-10, 32-34	CL, SP	N/A
T6S/R2W-10K80	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
T6S/R2W-10KB1	N/A	12	7	10	13	10-13	CL, SC	stiff, dense
T6S/R2W-11DB1	N/A	N/A	1.5	>6	6	N/A	N/A	N/A
T6S/R2W-11NB9	15.3	8	4	N/A	70	10-17, 27-39	CL, SC	firm, medium dense
T6S/R2W-11RB1	N/A	N/A	6	N/A	80	53-59	CL, SP	N/A
T6S/R2W-11RB2	N/A	N/A	5	N/A	101	59-66	CL, SP	N/A
T6S/R2W-12AB1	N/A	4	5	7	21	18.5-21	CL, SM	stiff, dense
T6S/R2W-12AB2	N/A	N/A	4	N/A	23	N/A	CL	stiff
T6S/R2W-12BB1	2	N/A	0.5	8	21	8-11	SC, CL	dense, stiff
T6S/R2W-12CB1	3	N/A	0	4.5	22	8-11	CL, SC	firm, dense
T6S/R2W-12FB1	N/A	0.5	3	4	5	N/A	CL	firm

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 San Francisco Bay Area, CA

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T6S/R2W-12GB1	N/A	N/A	0	3.5	21	N/A	CL	stiff
T6S/R2W-12HB1	3.5	N/A	0	5	24	14-24	CL, SM	firm, dense
T6S/R2W-12JB1	3	N/A	0	4	21.5	15-21.5	CL, SM	stiff, dense
T6S/R2W-12JB2	N/A	N/A	4	5	10	N/A	CL, SC	stiff, dense
T6S/R2W-12KB1	N/A	N/A	1	N/A	1	N/A	CL	N/A
T6S/R2W-12NB1	N/A	N/A	4	N/A	100	14-18	CL, SP	N/A
T6S/R2W-12NB2	N/A	N/A	4	N/A	100	N/A	CL	N/A
T6S/R2W-13DB1	N/A	N/A	5	N/A	101	21-25, 39-43	CL, SP	N/A
T6S/R2W-13DB2	N/A	N/A	5	N/A	101	N/A	CL	N/A
T6S/R2W-13DB3	N/A	N/A	8	N/A	90	N/A	CL	N/A
T6S/R2W-13DB4	N/A	N/A	6	N/A	100	11-17, 41-44	CL, SP	N/A
WCC82-1	8.5	5	7.5	19.25	43	25.5-27, 33.25-36.75, 39.5-41.5	CH, CL	medium stiff to very stiff
WCC82-2	8.5	5.5	5.5	18	45	28-42	CH, CL	stiff to hard
WCC82-3	9	6.5	13	17	36.75	23-28	CL-CH	stiff, medium dense
WCC82-4	9	7	6.25	18.5	37	N/A	CL-CH	stiff to hard
WCC82-5	11	9.5	15	19	37	N/A	CL-CH	stiff to very stiff
WCC82-6	8	4.5	5.5	39.5	41.5	39.5-41.5	SP	dense
WCC82-7	10	5	7	32	41.5	32-35, 40-41.5	CL	stiff
WCC82-8	10.5	15	20.5	22	42	36-37.5	CL-CH, CL-ML	medium stiff to stiff
WCC82-9	7.5	8.5	11	11	14	N/A	CH	medium stiff
WCC82-10	8	9.5	12.25	12.25	18.5	N/A	CL-CH	very stiff
WCC82-11	-1	0.5	2	5.5	11.5	N/A	CL-CH	stiff
WCC82-12	-1	1	2	6	35	20-22.5	CL-CH	medium stiff to very stiff
WCC82-13	-1	4.5	1.5	2.5	42	18.5-20, 32-42	CL-CH, SC-SP	medium stiff to stiff
WCC82-14	11.5	6	15	>18.5	18.5	N/A	CL-CH	stiff
WCC83-15	N/A	3.25	3.5	9	16.5	N/A	CL	very stiff
WCC83-16	N/A	3	3	7	19	18.5-19	CH, CL-ML	medium stiff to stiff
WCC83-17	N/A	2.5	3.5	8	16.5	N/A	CL-CH	very stiff

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WCC83-18	N/A	N/A	3	8	20	N/A	CL-CH, CL	stiff to very stiff
GJJ63-1	N/A	0.5	6.5	12	29	21-26.5	CL	soft, stiff
GJJ63-2	N/A	2	2	7	19	15-19	CL	medium stiff
GJJ63-3	N/A	2	1.75	4	14	N/A	CL	medium stiff
GJJ63-4	N/A	5	4	17	19	N/A	CL	stiff
GJJ63-5	N/A	2.5	2	>8	8	N/A	N/A	N/A
GJJ63-6	N/A	0.5	6	>8	8	N/A	N/A	N/A
GJJ63-7	N/A	3	3.5	8	14	11.5-14	CL	medium stiff
JLA69-1	N/A	2	6	14.5	22	14.5-15.5	CL	stiff
JLA69-2	N/A	3	5.25	10	21.5	N/A	CL	stiff to very stiff
JLA69-3	N/A	N/A	5.25	24.5	31.5	N/A	CL	stiff
JLA69-4	N/A	3.5	0.5	14.5	21.5	20.25-21.25	CL	stiff
JLA69-5	N/A	8	1.75	17	21.5	20-21.5	CL	very stiff
JLA69-6	N/A	4	8	15	19.5	16.25-19.5	CL	stiff
WCC61-1	4	2	5	10	42.5	26.5-42.5	CL	very stiff
WCC61-2	9.5	N/A	6.5	21	73	41-60, 63-73	SC, CL	loose, stiff
WCC61-3	8.5	N/A	10	25	54	41-54	CL	stiff
WCC61-4	8.1	5.5	5.5	19	67	40-67	CL, SC	stiff
WCC61-5	10.6	N/A	8	12	47	N/A	ML-CL, SM	loose, stiff
WCC61-6	2.4	N/A	1.5	9	30	9-12, 14-19.5	CL, ML	stiff
WCC61-7	6.1	N/A	3	10.5	30	N/A	CL-ML, CL	stiff
TT78-12	9	7.5	2	2	15.5	N/A	CL, SC	soft to stiff, dense
TT78-13	11	11	3.5	5	15.5	N/A	CL	stiff
TT78-14	11	11.2	4	13.5	19	N/A	CL	stiff
TT78-15	11	12.2	5	8	15.5	N/A	CL, SC	soft to stiff, medium dense
TT78-16	7	7	4	4	15.5	N/A	CL	stiff
TT78-17	9	10.5	2	8	20	12-20	CL	stiff
TT78-18	6	10.1	3	3	15.5	N/A	CL	stiff

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TT78-19	6	6.1	4	4	25.5	11.5-15.5	CL	stiff to very stiff
TT78-20	8	N/A	6.5	9.5	15.5	N/A	CL	stiff to very stiff
TT78-21	8	N/A	5	12	15.5	N/A	CL	stiff
TT78-22	12	15.2	10	15	25.5	N/A	CL	stiff
TT78-23	11	N/A	2	4	10.5	N/A	CL, CH	very stiff
TT78-24	9	N/A	10	17.5	29	17.5-23	CL	stiff
TT78-25	11	N/A	7	>15.5	15.5	N/A	N/A	N/A
TT78-26	8	N/A	9.5	>10.5	10.5	N/A	N/A	N/A
TT78-27	10	10.2	4	18	42.5	34-42.5	CL	stiff
TT78-28	11	N/A	1.5	3	15.5	N/A	CL, CH	stiff
TT78-29	12	22.2	1.5	8.5	25.5	8.5-14, 23.5-25.5	CL	stiff to very stiff
TT78-37	6	4.5	6.5	6.5	31	N/A	CL	stiff
WCC85-1	2.5	N/A	N/A	7	30	7-19.5	SM, CL	N/A
WCC85-2	0	N/A	N/A	5.5	15.5	N/A	CH, CL	stiff to very stiff
WCC85-2A	9	N/A	9	>16.5	16.5	N/A	CL	stiff
WCC85-3	2.5	N/A	N/A	10.25	18.5	N/A	CH, CL	medium, very stiff
WCC85-3A	10	N/A	7.5	>19.5	19.5	N/A	CL	stiff
WCC85-4	2.5	N/A	N/A	9.5	17	N/A	CL	very stiff
WCC85-5	2.5	N/A	N/A	9	17	N/A	CH, CL	stiff, very stiff
WCC85-5A	9	6	6.75	>17.5	17.5	N/A	N/A	N/A
WCC85-6	1.5	N/A	N/A	8	16	N/A	CL	very stiff
WCC85-7	2.5	N/A	N/A	17	23.5	N/A	CL	very stiff
WCC85-8	13.5	12.5	17	N/A	20	N/A	N/A	N/A
WCC85-9	8	5.5	13	N/A	20	N/A	N/A	N/A
WCC85-10	13.5	12.5	15.5	N/A	21.5	N/A	N/A	N/A
WCC85-11	2	8	N/A	N/A	20	N/A	N/A	N/A
WCC85-12	13.5	12.5	11	N/A	20	N/A	N/A	N/A
WCC85-13	8	9	3	19	22	3-8, 19-22	ML	loose, stiff

**APPENDIX A**  
**BORING LOG DATABASE**  
 South Bay Salt Ponds Restoration Project  
 San Francisco Bay Area, CA

Boring Identifier	Ground Surface Elevation (ft)	Depth to Groundwater (ft)	Depth to Bottom of Fill (ft)	Depth to Bottom of Bay Mud, or Bay Mud Fill (ft)	Depth of Exploration (ft)	Depths of Potentially Liquefiable Layers (ft)	Predominant Unit below Bay Mud (USCS)	Consistency of Predominant Unit below Bay Mud
WCC85-14	4	4.5	N/A	18.5	20	N/A	CL	very stiff
WCC85-15	8	9.5	3.5	N/A	21.5	19.5-21	N/A	N/A
WCC85-16	10	10	N/A	N/A	25	5.5-6.5	N/A	N/A
WCC85-17	16	10	9.5	N/A	26.5	9.5-22	N/A	N/A
WCC85-P-1	8.6	8	N/A	17.5	25	8-8.5, 17.5-25	SW-SM	medium dense
WCC85-P-2	9.6	6	N/A	N/A	25	3-7	N/A	N/A
WA92-1	12.5	15	15.25	21	26	24-25.5	CL, SP	firm, very stiff, loose
WA92-2	12.8	16.1	15.25	22	26	22-25	SM, CL	loose, firm
WA92-3	13.3	17	15.25	18	26	N/A	CL	firm, very stiff
WA92-4	12.09	N/A	15.2	18	20	N/A	CL	very stiff
WA92-5	12.8	N/A	14	16	20	N/A	CL	hard
WA92-6	11	14	15	19	26	N/A	CL	stiff
WA92-13	-2.3	3	2.8	14.5	20	14.5-15.4	CL	firm, stiff
WA92-14	-2.3	3	N/A	14	21.5	14-16.4	CL	firm
WA92-15	2.4	7.2	4	9	21.5	N/A	CL	very stiff
WA92-16	-1.2	3	N/A	6	23	15-18	CL	very stiff, stiff
WA92-17	5	3	N/A	9	23	N/A	CL	very stiff to stiff
WA92-18	15.2	18	14	18.5	26	24-26	CL	very stiff, hard
WA92-19	15.5	23	9	16	26	N/A	CL	stiff
WA92-21	8.5	20	8.5	19	21.5	19-21.5	SM	loose
KL04-B1	0.4	3	N/A	16	60	27-60	SP, SM, SC	medium dense
KL04-B2	0.4	2	N/A	21	81.5	55-64	CH	stiff
KL04-B3	0.5	2.5	N/A	20	66.5	43-66.5	CL	stiff
KL04-B4	0	3	N/A	20	60	25-31, 55-60	SC, CL	medium dense, firm
KL04-B5	0.4	3	N/A	21	81.5	36-50.5	CH	very stiff
KL04-B6	0	2.5	N/A	26	71.5	30-49	SM, CH	very loose, very stiff
KL04-B7	0.3	2.5	N/A	21	71.5	43-65.5	SM	medium dense
EMC04-1	15	N/A	4	39.5	55.5	39.5-55.5	SP-SC	medium dense

**APPENDIX B**

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**USACE 1988  
LEVEE SURVEY SUMMARY**

**APPENDIX B**  
**USACE 1984 LEVEE SURVEY SUMMARY**  
 South Bay Salt Pond Restoration Project  
 San Francisco Bay Area, CA

General:	Complex	Alvisio	Alvisio	Alvisio	Alvisio	Alvisio
	Pond	A1	A1	A1	A1	A19
	Orientation	NE	S	SE	W	
	Reach ID	21	21	21	21	17
	Segment	101	100A	100B	102A	86C
	County	Santa Clara	Santa Clara	Santa Clara	Santa Clara	Santa Clara
	Survey By	M.W.	M.W.	M.W.	M.W.	G.O. & M.W.
	Date of Inspection	5/21/1984	5/21/1984	5/21/1984	5/21/1984	4/30/1984
	Ownership	Leslie Salt Co.	Santa Clara Valley Water Dist.	Leslie Salt Co.	Leslie Salt Co.	Santa Clara Valley Water Dist.
	Method	Ground	Ground	Ground	Ground	Ground
	Levee Segment		A	B		C
	Station From	Map sheet 19	Map sheet 19	Map sheet 19	Map sheet 19	See map sheet 22 & 18, 17
	Station To					
	Levee Type	Bay Shore - Ext	Slough/Creek - Int	Slough/Creek	Slough/Creek - Int	Salt Pond - Int
	Total Length	3200	1300	5400	2100	19300
	Length Good	0	0	0	0	0
	Length Fair	3200	1300	0	2100	0
Length Poor	0	0	5400	0	19300	
Function	Contains salt pond	Running path on land fill; no levee. See photo.	Divides salt ponds		Salt Pond Levee; composed of dredge spoils	
Alignment:	Crest Width	10	0	0	0	0
	Crest Condition	Fair				Poor
	Crest Elevation	7.6	10.1	8.2	8.2	6.6
	Crest Datum	MSL	MSL	MSL	MSL	MSL
	Side Slope Degrees	15 O, 25 I				
	Slope Condition	Fair-Poor		Poor		Poor
	Toe Condition	Fair-Poor		Poor		Poor
Evidence of Failures:	Cracking	Yes		Yes		
	Seepage					
	Overtopping					
	Indications	Various				
Slope Protection:	Type	Vegetation	Vegetation	Vegetation		
	Location	Inboard	Inboard	Inboard		
	Extent	3200	1300	5400	0	0
	Condition	Fair	Good	Poor		
	Wave Erosion		Slight	Moderate		
	Undercutting	Yes				
	Soil Type	Clayey	Clayey	Clayey		Clayey
Condition of Slope Protection:	Type	Grass - brush	Grass	Grass - brush		None
	Extent	Outboard slope - Inboard slope	Outboard slope	Outboard slope - Inboard slope		
	Degree	Thick	Light	Light		
	Levee Use	Paved - Author Vehicle - Upgrading needed	Paved - Graded	Unpaved - Ungraded		Ungraded
Evaluation:	Very Good					
	Adequate	0	0	0	0	0
	Poor	0	0	0	0	0



**APPENDIX B**  
**USACE 1984 LEVEE SURVEY SUMMARY**  
 South Bay Salt Pond Restoration Project  
 San Francisco Bay Area, CA

General:	Complex	Alvisio	Alvisio	Alvisio	Alvisio	Alvisio
	Pond	A22	A22	A23	A23	A2E
	Orientation	S - SE	W - N - E	E - S - W	N - NW	E
	Reach ID	17	17	17	17	19
	Segment	88	88	86C	86C	94F
	County	Santa Clara	Santa Clara	Santa Clara	Santa Clara	Santa Clara
	Survey By	G.O. & M.W.	G.O. & M.W.	G.O. & M.W.	G.O. & M.W.	
	Date of Inspection	4/30/1984	4/30/1984	4/30/1984	4/30/1984	5/21/1984
	Ownership			Santa Clara Valley Water Dist.	Santa Clara Valley Water Dist.	
	Method			Ground	Ground	Ground
	Levee Segment			C	C	F
	Station From	Map Sheet 17	Map Sheet 17	See map sheet 22 & 18, 17	See map sheet 22 & 18, 17	Map sheet 20, 21
	Station To					
	Levee Type	Slough/Creek - Int	Slough/Creek - Int	Salt Pond - Int	Salt Pond - Int	Slough/Creek - Int
	Total Length	11300	11300	19300	19300	6400
	Length Good	0	0	0	0	6400
	Length Fair	0	0	0	0	0
Length Poor	11300	11300	19300	19300	0	
Function	Salt Pond levee; composed of dredge spoils	Salt Pond levee; composed of dredge spoils	Salt Pond Levee; composed of dredge spoils	Salt Pond Levee; composed of dredge spoils	Protects Moffett Field, contains salt pond	
Alignment:	Crest Width	0	0	0	0	15
	Crest Condition	Poor	Poor	Poor	Poor	Fair
	Crest Elevation	6.6	6.6	6.6	6.6	6.2
	Crest Datum	MSL	MSL	MSL	MSL	MSL
	Side Slope Degrees					25 O, 25 I
	Slope Conditon	Poor	Poor	Poor	Poor	Good
	Toe Condition	Poor	Poor	Poor	Poor	Good
Evidence of Failures:	Cracking					
	Seepage					
	Overtopping					
	Indications					
Slope Protection:	Type					Vegetation
	Location					Inboard
	Extent	0	0	0	0	6400
	Condition					Fair
	Wave Erosion					Slight
	Undercutting					
	Soil Type	Clayey	Clayey	Clayey	Clayey	Clayey - Sandy
Condition of Slope Protection:	Type			None	None	Grass - Brush
	Extent					Inboard slope
	Degree					Light
	Levee Use	Unpaved - ungraded	Unpaved - ungraded	Ungraded	Ungraded	
Evaluation:	Very Good					
	Adequate	0	0	0	0	0
	Poor	0	0	0	0	0

**APPENDIX B**  
**USACE 1984 LEVEE SURVEY SUMMARY**  
 South Bay Salt Pond Restoration Project  
 San Francisco Bay Area, CA

General:	Complex	Alvisio	Alvisio	Alvisio	Alvisio	Alvisio
	Pond	A2E	A2E	A2E	A2W	A2W
	Orientation	N - NW	S - SW	W	E	N - NE
	Reach ID	19	19	19	20	20
	Segment	96A	96A	96A	97B	97A
	County	Santa Clara	Santa Clara	Santa Clara	Santa Clara	Santa Clara
	Survey By	M.W.	M.W.	M.W.	M.W.	M.W.
	Date of Inspection	5/16/1984	5/16/1984	5/16/1984	5/16/1984	5/16/1984
	Ownership	Santa Clara Valley Water Dist.	Santa Clara Valley Water Dist.	Santa Clara Valley Water Dist.	Santa Clara Valley Water Dist.	Santa Clara Valley Water Dist.
	Method	Ground	Ground	Ground	Ground	Ground
	Levee Segment	A	A	A	B	A
	Station From	Map sheet 20	Map sheet 20	Map sheet 20	Map sheet 19, 20	Map sheet 20, 19
	Station To					
	Levee Type	Slough/Creek - Int	Slough/Creek - Int	Slough/Creek - Int	Slough/Creek - Int	Slough/Creek - Int
	Total Length	4500	4500	4500	3800	4500
	Length Good	0	0	0	3800	0
	Length Fair	0	0	0	0	4500
Length Poor	4500	4500	4500	0	0	
Function						
	Contains Stevens Creek	Contains Stevens Creek	Contains Stevens Creek	Contains Stevens Creek	Contains Stevens Creek	
Alignment:	Crest Width	25	25	25	12	25
	Crest Condition	Poor	Poor	Poor	Good	Poor
	Crest Elevation	8.4	8.4	8.4	7.0	6.5
	Crest Datum	MSL	MSL	MSL	MSL	MSL
	Side Slope Degrees					
		35 O, 25 I	35 O, 25 I	35 O, 25 I	30 O, 30 I	35 O, 25 I
	Slope Conditon	Poor	Poor	Poor	Good	Fair
Toe Condition	Poor	Poor	Poor	Good	Fair	
Evidence of Failures:	Cracking	Yes	Yes	Yes		Yes
	Seepage					
	Overtopping					
Indications	Outboard	Outboard	Outboard		Outboard	
Slope Protection:	Type	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation
	Location	Inboard	Inboard	Inboard	Inboard	Inboard
	Extent	0	0	0	3800	4500
	Condition	Poor	Poor	Poor	Good	Fair
	Wave Erosion	Intense	Intense	Intense		Moderate
	Undercutting					
Condition of Slope Protection:	Soil Type	Clayey	Clayey	Clayey	Clayey - Sandy	Clayey
	Type	Grass	Grass	Grass	Grass	Grass
	Extent					
		Outboard slope	Outboard slope	Outboard slope	Outboard slope	Outboard slope
	Degree	Light	Light	Light	Light	Light
Levee Use	Unpaved - Author Vehilce Graded - Upgrading needed	Unpaved - Author Vehilce Graded - Upgrading needed	Unpaved - Author Vehilce Graded - Upgrading needed	Unpaved - Author Vehicle graded	Unpaved - Author Vehicle graded	
Evaluation:	Very Good				3800	
	Adequate	0	0	0	0	0
	Poor	0	0	0	0	0

**APPENDIX B**  
**USACE 1984 LEVEE SURVEY SUMMARY**  
 South Bay Salt Pond Restoration Project  
 San Francisco Bay Area, CA

General:	Complex	Alvisio	Alvisio	Alvisio	Alvisio	Alvisio
	Pond	A2W	A2W	A5	A5	A5
	Orientation	NW	S	E	N	NE
	Reach ID	20	20	18	18	18
	Segment	99A	99A	93D	91B	91B
	County	Santa Clara	Santa Clara	Santa Clara	Santa Clara	Santa Clara
	Survey By	M.W.	M.W.	M.W.	G.O.	G.O.
	Date of Inspection	5/18/1984	5/18/1984	5/10/1984	5/8/1984	5/8/1984
	Ownership	Santa Clara Valley Water Dist.	Santa Clara Valley Water Dist.	Santa Clara Valley Water Dist.	Santa Clara Valley Water Dist.	Santa Clara Valley Water Dist.
	Method	Ground	Ground	Ground	Ground	Ground
	Levee Segment	A	A	A	B	B
	Station From	Map sheet 19	Map sheet 19	Map sheet 16, 20, 21	Map sheet 21, 24, 25	Map sheet 21, 24, 25
	Station To					
	Levee Type	Slough/Creek - Int	Slough/Creek - Int	Slough/Creek - Int	Slough/Creek - Int	Slough/Creek - Int
	Total Length	5800	5800	24600	12400	12400
	Length Good	0	0	0	12400	12400
	Length Fair	5800	5800	0	0	0
Length Poor	0	0	24600	0	0	
Function	Contains slough	Contains slough	Divides salt ponds	Protect residential and commercial areas	Protect residential and commercial areas	
Alignment:	Crest Width	12	12	17	12	12
	Crest Condition	Good	Good	Poor	Good	Good
	Crest Elevation	3.5	3.5	7.0	9.3	9.3
	Crest Datum	MSL	MSL	MSL	MSL	MSL
	Side Slope Degrees	20 O, 20 I	20 O, 20 I	15 O, 15 I	25 O, 30 I	25 O, 30 I
	Slope Conditon	Fair	Fair	Poor	Good	Good
	Toe Condition	Fair	Fair	Poor		
Evidence of Failures:	Cracking			Yes		
	Seepage					
	Overtopping					
	Indications					
Slope Protection:	Type	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation
	Location	Inboard	Inboard	Inboard	Inboard	Inboard
	Extent	5800	5800	24600	0	0
	Condition	Good	Good	Poor	Good	Good
	Wave Erosion	Slight	Slight	Intense	Slight	Slight
	Undercutting			Yes, various		
	Soil Type	Clayey	Clayey	Clayey	Gravelly Clay	Gravelly Clay
Condition of Slope Protection:	Type	Grass - brush	Grass - brush	Grass - Brush	Grass - Brush	Grass - Brush
	Extent	Outboard slope - Inboard slope	Outboard slope - Inboard slope	Crest - Outboard slope - Inboard slope	Outboard slope - Inboard slope	Outboard slope - Inboard slope
	Degree	Light	Light	Light - Thick	Denser	Denser
	Levee Use	Unpaved - Author Vehicle graded	Unpaved - Author Vehicle graded	Unpaved, ungraded	Unpaved	Unpaved
Evaluation:	Very Good					
	Adequate	0	0	0	0	0
	Poor	0	0	0	0	0

**APPENDIX B**  
**USACE 1984 LEVEE SURVEY SUMMARY**  
 South Bay Salt Pond Restoration Project  
 San Francisco Bay Area, CA

General:	Complex	Alvisio	Alvisio	Alvisio	Alvisio	Alvisio
	Pond	A5	A6	A6	A6	A6
	Orientation	S - W - N	E	N	N - NE	NE
	Reach ID	18	18	18	18	18
	Segment	93D	91D	91D	92	92
	County	Santa Clara	Santa Clara	Santa Clara	Santa Clara	Santa Clara
	Survey By	M.W.	M.W.	M.W.	M.W.	M.W.
	Date of Inspection	5/10/1984	5/10/1984	5/10/1984	5/10/1984	5/10/1984
	Ownership	Santa Clara Valley Water Dist.	Santa Clara Valley Water Dist.	Santa Clara Valley Water Dist.	Santa Clara Valley Water Dist.	Santa Clara Valley Water Dist.
	Method	Ground	Ground	Ground	Ground	Ground
	Levee Segment	A	D	D		
	Station From	Map sheet 16, 20, 21	Map 16, 20, 21	Map 16, 20, 21	Map sheet 16	Map sheet 16
	Station To					
	Levee Type	Slough/Creek - Int	Slough/Creek - Int	Slough/Creek - Int	Slough/Creek - Ext	Slough/Creek - Ext
	Total Length	24600	19600	19600	5500	5500
	Length Good	0	0	0	0	0
	Length Fair	0	0	0	0	0
Length Poor	24600	19600	19600	5500	5500	
Function	Divides salt ponds	Contains Alvisio Slough	Contains Alvisio Slough			
Alignment:	Crest Width	17	0	0	0	0
	Crest Condition	Poor				
	Crest Elevation	7.0	8.1	8.1	8.2	8.2
	Crest Datum	MSL	MSL	MSL	MSL	MSL
	Side Slope Degrees	15 O, 15 I				
	Slope Condition	Poor			Poor	Poor
	Toe Condition	Poor			Poor	Poor
Evidence of Failures:	Cracking	Yes			Yes	Yes
	Seepage					
	Overtopping					
	Indications					
Slope Protection:	Type	Vegetation				
	Location	Inboard				
	Extent	24600	0	0	0	0
	Condition	Poor				
	Wave Erosion	Intense	Moderate	Moderate		
	Undercutting	Yes, various				
	Soil Type	Clayey	Clayey	Clayey	Clayey	Clayey
Condition of Slope Protection:	Type	Grass - Brush			Riprap gravel	Riprap gravel
	Extent	Crest - Outboard slope - Inboard slope			Crest - Outboard slope - Inboard slope	Crest - Outboard slope - Inboard slope
	Degree	Light - Thick			Light	Light
	Levee Use					
		Unpaved, ungraded			Unpaved - Graded	Unpaved - Graded
Evaluation:	Very Good					
	Adequate	0	0	0	0	0
	Poor	0	0	0	0	0

**APPENDIX B**  
**USACE 1984 LEVEE SURVEY SUMMARY**  
 South Bay Salt Pond Restoration Project  
 San Francisco Bay Area, CA

General:	Complex	Alvisio	Alvisio	Alvisio	Alvisio	Alvisio
	Pond	A6	A6	A6	A6	A6
	Orientation	NW	S	S	S	SW
	Reach ID	18	18	18	18	18
	Segment	92	91D	91D	91B	92
	County	Santa Clara	Santa Clara	Santa Clara	Santa Clara	Santa Clara
	Survey By	M.W.	M.W.	M.W.	G.O.	M.W.
	Date of Inspection	5/10/1984	5/10/1984	5/10/1984	5/8/1984	5/10/1984
	Ownership	Santa Clara Valley Water Dist.	Santa Clara Valley Water Dist.	Santa Clara Valley Water Dist.	Santa Clara Valley Water Dist.	Santa Clara Valley Water Dist.
	Method	Ground	Ground	Ground	Ground	Ground
	Levee Segment		D	D	B	
	Station From	Map sheet 16	Map 16, 20, 21	Map 16, 20, 21	Map sheet 21, 24, 25	Map sheet 16
	Station To					
	Levee Type	Slough/Creek - Ext	Slough/Creek - Int	Slough/Creek - Int	Slough/Creek - Int	Slough/Creek - Ext
	Total Length	5500	19600	19600	12400	5500
	Length Good	0	0	0	12400	0
	Length Fair	0	0	0	0	0
Length Poor	5500	19600	19600	0	5500	
Function		Contains Alvisio Slough	Contains Alvisio Slough	Protect residential and commercial areas		
Alignment:	Crest Width	0	0	0	12	0
	Crest Condition				Good	
	Crest Elevation	8.2	8.1	8.1	9.3	8.2
	Crest Datum	MSL	MSL	MSL	MSL	MSL
	Side Slope Degrees				25 O, 30 I	
	Slope Condition	Poor			Good	Poor
	Toe Condition	Poor				Poor
Evidence of Failures:	Cracking	Yes				Yes
	Seepage					
	Overtopping					
	Indications					
Slope Protection:	Type				Vegetation	
	Location				Inboard	
	Extent	0	0	0	0	0
	Condition				Good	
	Wave Erosion		Moderate	Moderate	Slight	
	Undercutting					
	Soil Type	Clayey	Clayey	Clayey	Gravelly Clay	Clayey
Condition of Slope Protection:	Type	Riprap gravel			Grass - Brush	Riprap gravel
	Extent	Crest - Outboard slope - Inboard slope			Outboard slope - Inboard slope	Crest - Outboard slope - Inboard slope
	Degree	Light			Denser	Light
	Levee Use	Unpaved - Graded			Unpaved	Unpaved - Graded
Evaluation:	Very Good					
	Adequate	0	0	0	0	0
	Poor	0	0	0	0	0

**APPENDIX B**  
**USACE 1984 LEVEE SURVEY SUMMARY**  
 South Bay Salt Pond Restoration Project  
 San Francisco Bay Area, CA

General:	Complex	Alvisio	Alvisio	Alvisio	Alvisio	Alvisio
	Pond	A6	A6	A7	A7	A7
	Orientation	SW	SW - W	E	N - NE	SW
	Reach ID	18	18	18	18	18
	Segment	91B	93D	91D	91D	91B
	County	Santa Clara	Santa Clara	Santa Clara	Santa Clara	Santa Clara
	Survey By	G.O.	M.W.	M.W.	M.W.	G.O.
	Date of Inspection	5/8/1984	5/10/1984	5/10/1984	5/10/1984	5/8/1984
	Ownership	Santa Clara Valley Water Dist.	Santa Clara Valley Water Dist.	Santa Clara Valley Water Dist.	Santa Clara Valley Water Dist.	Santa Clara Valley Water Dist.
	Method	Ground	Ground	Ground	Ground	Ground
	Levee Segment	B	A	D	D	B
	Station From	Map sheet 21, 24, 25	Map sheet 16, 20, 21	Map 16, 20, 21	Map 16, 20, 21	Map sheet 21, 24, 25
	Station To					
	Levee Type	Slough/Creek - Int	Slough/Creek - Int	Slough/Creek - Int	Slough/Creek - Int	Slough/Creek - Int
	Total Length	12400	24600	19600	19600	12400
	Length Good	12400	0	0	0	12400
	Length Fair	0	0	0	0	0
Length Poor	0	24600	19600	19600	0	
Function	Protect residential and commercial areas	Divides salt ponds	Contains Alvisio Slough	Contains Alvisio Slough	Protect residential and commercial areas	
Alignment:	Crest Width	12	17	0	0	12
	Crest Condition	Good	Poor			Good
	Crest Elevation	9.3	7.0	8.1	8.1	9.3
	Crest Datum	MSL	MSL	MSL	MSL	MSL
	Side Slope Degrees	25 O, 30 I	15 O, 15 I			25 O, 30 I
	Slope Conditon	Good	Poor			Good
	Toe Condition		Poor			
Evidence of Failures:	Cracking		Yes			
	Seepage					
	Overtopping					
	Indications					
Slope Protection:	Type	Vegetation	Vegetation			Vegetation
	Location	Inboard	Inboard			Inboard
	Extent	0	24600	0	0	0
	Condition	Good	Poor			Good
	Wave Erosion	Slight	Intense	Moderate	Moderate	Slight
	Undercutting		Yes, various			
	Soil Type	Gravelly Clay	Clayey	Clayey	Clayey	Gravelly Clay
Condition of Slope Protection:	Type	Grass - Brush	Grass - Brush			Grass - Brush
	Extent	Outboard slope - Inboard slope	Crest - Outboard slope - Inboard slope			Outboard slope - Inboard slope
	Degree	Denser	Light - Thick			Denser
	Levee Use	Unpaved	Unpaved, ungraded			Unpaved
Evaluation:	Very Good					
	Adequate	0	0	0	0	0
	Poor	0	0	0	0	0

**APPENDIX B**  
**USACE 1984 LEVEE SURVEY SUMMARY**  
 South Bay Salt Pond Restoration Project  
 San Francisco Bay Area, CA

General:	Complex	Alvisio	Alvisio	Alvisio	Alvisio	Alvisio
	Pond	A8N	A8N	A8N	A8S	A8S
	Orientation	NE	S	W	N	S
	Reach ID	18	18	18	18	18
	Segment	91D	91A	91A	93G	93G
	County	Santa Clara	Santa Clara	Santa Clara	Santa Clara	Santa Clara
	Survey By	M.W.	G.O.	G.O.	M.W.	M.W.
	Date of Inspection	5/10/1984	5/8/1984	5/8/1984	5/10/1984	5/10/1984
	Ownership	Santa Clara Valley Water Dist.	Santa Clara Valley Water Dist.	Santa Clara Valley Water Dist.	Santa Clara Valley Water Dist.	Santa Clara Valley Water Dist.
	Method	Ground	Ground	Ground	Ground	Ground
	Levee Segment	D	A	A	C	C
	Station From	Map 16, 20, 21	Map sheet 25	Map sheet 25	Map sheet 21	Map sheet 21
	Station To					
	Levee Type	Slough/Creek - Int	Slough/Creek - Int	Slough/Creek - Int	Slough/Creek - Int	Slough/Creek - Int
	Total Length	19600	4750	4750	3500	3500
	Length Good	0	4750	4750	0	0
	Length Fair	0	0	0	3500	3500
Length Poor	19600	0	0	0	0	
Function	Contains Alvisio Slough	Protect residential and commercial areas	Protect residential and commercial areas	Separates ponds and protect residential and commercial areas	Separates ponds and protect residential and commercial areas	
Alignment:	Crest Width	0	12	12	15	15
	Crest Condition		Good	Good	Fair	Fair
	Crest Elevation	8.1	10.0	10.0	8.5	8.5
	Crest Datum	MSL	MSL	MSL	MSL	MSL
	Side Slope Degrees		25 O, 25 I	25 O, 25 I	15 O, 25 I	15 O, 25 I
	Slope Conditon		Good	Good	Fair	Fair
	Toe Condition				Fair	Fair
Evidence of Failures:	Cracking				Yes	Yes
	Seepage					
	Overtopping					
	Indications				Various	Various
Slope Protection:	Type		Vegetation	Vegetation	Vegetation	Vegetation
	Location		Inboard	Inboard	Inboard	Inboard
	Extent	0	4750	4750	3500	3500
	Condition		Fair	Fair	Fair	Fair
	Wave Erosion	Moderate	Slight	Slight	Slight	Slight
	Undercutting					
	Soil Type	Clayey	Gravelly Clay	Gravelly Clay	Mixture	Mixture
Condition of Slope Protection:	Type		Grass - Brush	Grass - Brush	Grass - Brush	Grass - Brush
	Extent		Outboard slope - Inboard slope	Outboard slope - Inboard slope	Outboard slope - Inboard slope	Outboard slope - Inboard slope
	Degree		Thick	Thick	Thick	Thick
	Levee Use		Unpaved gravel	Unpaved gravel	Unpaved	Unpaved
Evaluation:	Very Good					
	Adequate	0	0	0	0	0
	Poor	0	0	0	0	0

**APPENDIX B**  
**USACE 1984 LEVEE SURVEY SUMMARY**  
 South Bay Salt Pond Restoration Project  
 San Francisco Bay Area, CA

General:	Complex	Alvisio	Alvisio	Alvisio	Alvisio	Alvisio
	Pond	A8S	A8S	AB1	AB2	AB2
	Orientation	S	W - N - E	W - NE	SE	W
	Reach ID	18	18	19	19	19
	Segment	93G	91A	96A	94F	94F
	County	Santa Clara	Santa Clara	Santa Clara	Santa Clara	Santa Clara
	Survey By	M.W.	G.O.	M.W.		
	Date of Inspection	5/10/1984	5/8/1984	5/16/1984	5/21/1984	5/21/1984
	Ownership	Santa Clara Valley Water Dist.	Santa Clara Valley Water Dist.	Santa Clara Valley Water Dist.		
	Method	Ground	Ground	Ground	Ground	Ground
	Levee Segment	C	A	A	F	F
	Station From	Map sheet 21	Map sheet 25	Map sheet 20	Map sheet 20, 21	Map sheet 20, 21
	Station To					
	Levee Type	Slough/Creek - Int	Slough/Creek - Int	Slough/Creek - Int	Slough/Creek - Int	Slough/Creek - Int
	Total Length	3500	4750	4500	6400	6400
	Length Good	0	4750	0	6400	6400
	Length Fair	3500	0	0	0	0
Length Poor	0	0	4500	0	0	
Function	Separates ponds and protect residential and commercial areas	Protect residential and commercial areas	Contains Stevens Creek	Protects Moffett Field, contains salt pond	Protects Moffett Field, contains salt pond	
Alignment:	Crest Width	15	12	25	15	15
	Crest Condition	Fair	Good	Poor	Fair	Fair
	Crest Elevation	8.5	10.0	8.4	6.2	6.2
	Crest Datum	MSL	MSL	MSL	MSL	MSL
	Side Slope Degrees	15 O, 25 I	25 O, 25 I	35 O, 25 I	25 O, 25 I	25 O, 25 I
	Slope Conditon	Fair	Good	Poor	Good	Good
	Toe Condition	Fair		Poor	Good	Good
Evidence of Failures:	Cracking	Yes		Yes		
	Seepage					
	Overtopping					
	Indications	Various		Outboard		
Slope Protection:	Type	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation
	Location	Inboard	Inboard	Inboard	Inboard	Inboard
	Extent	3500	4750	0	6400	6400
	Condition	Fair	Fair	Poor	Fair	Fair
	Wave Erosion	Slight	Slight	Intense	Slight	Slight
	Undercutting					
Condition of Slope Protection:	Soil Type	Mixture	Gravelly Clay	Clayey	Clayey - Sandy	Clayey - Sandy
	Type	Grass - Brush	Grass - Brush	Grass	Grass - Brush	Grass - Brush
	Extent	Outboard slope - Inboard slope	Outboard slope - Inboard slope	Outboard slope	Inboard slope	Inboard slope
	Degree	Thick	Thick	Light	Light	Light
Evaluation:	Levee Use	Unpaved	Unpaved gravel	Unpaved - Author Vehilce Graded - Upgrading needed		
	Very Good					
	Adequate	0	0	0	0	0
	Poor	0	0	0	0	0



**APPENDIX B**  
**USACE 1984 LEVEE SURVEY SUMMARY**  
 South Bay Salt Pond Restoration Project  
 San Francisco Bay Area, CA

General:	Complex	Eden Landing	Eden Landing	Eden Landing	Eden Landing	Eden Landing
	Pond	B_temp1	B_temp1	B_temp1	B_temp1	B_temp2
	Orientation	NE	NE	SW	W	SE
	Reach ID	10	10	10	10	12
	Segment	45C	50	47	51	54B
	County	Alameda	Alameda	Alameda	Alameda	Alameda
	Survey By		M.W. & S.K.	M.W. & S.K.	M.W. & G.O.	M.W. & S.K.
	Date of Inspection	3/27/1984	3/27/1984	3/27/1984	3/27/1984	3/30/1984
	Ownership	Leslie Salt Co.	Leslie Salt Co.	Leslie Salt Co.	Leslie Salt Co.	Leslie Salt Co.
	Method	Ground	Ground	Ground	Ground	Ground
	Levee Segment	C				B
	Station From	See map	End of Slough	S. Edge of Mt. Eden Creek	S. Edge of Union City Slough	See map
	Station To		S. Edge of Union City Slough	End of Creek	N. Edge of old Alameda Creek	
	Levee Type	Bay Shore	Slough/Creek - Int	Slough/Creek - Int	Bay Shore - Ext	Bay Shore - Ext
	Total Length	1100	6200	15000	1100	1900
	Length Good	0	0	0	0	0
	Length Fair	0	0	15000	0	1900
Length Poor	1100	6200	0	1100	0	
Function	Protect Salt Pond	No levee only shoreline without protection	Protect Salt Pond	Protect Salt Pond	Protect Salt Pond	
Alignment:	Crest Width	13	0	0	12	0
	Crest Condition	Poor		Fair	Poor	Poor
	Crest Elevation	6.8	3.5	6.6	6.1	5.8
	Crest Datum	MSL	MSL	MSL	MSL	MSL
	Side Slope Degrees			Inside has heavy erosion vertical drop to 40 slope	10	11-13 IO
	Slope Condition	Poor		Fair	Poor	Poor
	Toe Condition	Poor		Fair	Poor	Poor
Evidence of Failures:	Cracking	No			No	No
	Seepage	No			No	Yes
	Overtopping	Yes		Yes	Yes	Yes
	Indications					Yes, numerous places
Slope Protection:	Type			Vegetation	Vegetation	Vegetation
	Location			Outboard	Inboard	Inboard
	Extent	0	0	15000	0	1900
	Condition	Poor		Fair	Poor	Poor
	Wave Erosion	Intense		Slight - Intense	Intense	Intense
	Undercutting					
	Soil Type	Mixture Mud		Clayey - Mixture Mud	Mixture Mud	Clayey - Mixture Mud
Condition of Slope Protection:	Type		Grass - Brush	Grass - Brush		Grass - Brush
	Extent		Outboard Slope - Inboard Slope	Outboard Slope - Inboard Slope		Outboard slope - Inboard slope
	Degree		Light	Thick		Thick
	Levee Use		Unpaved - Author Vehicle Upgrading Needed			
Evaluation:	Very Good					
	Adequate	0	0	0	0	0
	Poor	0	1100	15000	0	0

**APPENDIX B**  
**USACE 1984 LEVEE SURVEY SUMMARY**  
 South Bay Salt Pond Restoration Project  
 San Francisco Bay Area, CA

General:	Complex	Eden Landing	Eden Landing	Eden Landing	Eden Landing	Eden Landing
	Pond	B1	B1	B1	B10	B10
	Orientation	N	S	W	E - N	N - NW
	Reach ID	12	12	12	10	10
	Segment	54A	54A	54B	46A1	45A
	County	Alameda	Alameda	Alameda	Alameda	Alameda
	Survey By	G.O. & M.W.	G.O. & M.W.	M.W. & S.K.	M.W. & G.O.	M.W. & G.O.
	Date of Inspection	3/30/1984	3/30/1984	3/30/1984	3/27/1984	3/27/1984
	Ownership	Leslie Salt Co.	Leslie Salt Co.	Leslie Salt Co.	Leslie Salt Co.	Leslie Salt Co.
	Method	Ground	Ground	Ground	Ground	Ground
	Levee Segment	A	A	B	A	A
	Station From	See map	See map	See map	See map	See map
	Station To					
	Levee Type	Bay Shore - Ext	Bay Shore - Ext	Bay Shore - Ext	Slough/Creek - Int	Bay Shore
	Total Length	3000	3000	1900	7000	1400
	Length Good	0	0	0	0	0
	Length Fair	3000	3000	1900	0	0
Length Poor	0	0	0	7000	1400	
Function	Protect Salt Pond	Protect Salt Pond	Protect Salt Pond	Protect Salt Pond	Protect Salt Pond	
Alignment:	Crest Width	16	16	0	14	13
	Crest Condition	Fair	Fair	Poor	Fair - Poor	Poor
	Crest Elevation	7.2	7.2	5.8	6.1	7.0
	Crest Datum	MSL	MSL	MSL	MSL	MSL
	Side Slope Degrees	10-15 O, 25 I	10-15 O, 25 I	11-13 IO	9 - 15	11 - 14
	Slope Conditon	Fair	Fair	Poor	Fair - Poor	Poor
	Toe Condition			Poor	Fair - Poor	Poor
Evidence of Failures:	Cracking	No	No	No	No	No
	Seepage	No	No	Yes	No	No
	Overtopping			Yes	Yes	Yes
	Indications			Yes, numerous places		No
Slope Protection:	Type	Vegetation	Vegetation	Vegetation	Vegetation	
	Location	Inboard	Inboard	Inboard	Outboard	
	Extent	3000	3000	1900	6500	0
	Condition	Fair	Fair	Poor	Poor	Poor
	Wave Erosion	Slight	Slight	Intense	Slight	
	Undercutting	No	No			
	Soil Type	Clayey	Clayey	Clayey - Mixture Mud	Sandy - Gravelly	Mixture Mud
Condition of Slope Protection:	Type	Grass	Grass	Grass - Brush	Grass - Brush	
	Extent	Outboard slope - Inboard slope	Outboard slope - Inboard slope	Outboard slope - Inboard slope		
	Degree	Light	Light	Thick		
	Levee Use	Unpaved - Trail	Unpaved - Trail		Unpaved - Author Vehicle Graded	
Evaluation:	Very Good					
	Adequate	0	0	0	0	0
	Poor	0	0	0	0	1400

**APPENDIX B**  
**USACE 1984 LEVEE SURVEY SUMMARY**  
 South Bay Salt Pond Restoration Project  
 San Francisco Bay Area, CA

General:	Complex	Eden Landing	Eden Landing	Eden Landing	Eden Landing	Eden Landing
	Pond	B10	B10	B11	B11	B12
	Orientation	S - E	SW	N - E	W - S	S
	Reach ID	10	10	10	10	10
	Segment	45C	45A	46A1	46A1	46B
	County	Alameda	Alameda	Alameda	Alameda	Alameda
	Survey By		M.W. & G.O.	M.W. & G.O.	M.W. & G.O.	M.W. & S.K.
	Date of Inspection	3/27/1984	3/27/1984	3/27/1984	3/27/1984	3/27/1984
	Ownership	Leslie Salt Co.	Leslie Salt Co.	Leslie Salt Co.	Leslie Salt Co.	Leslie Salt Co.
	Method	Ground	Ground	Ground	Ground	Ground
	Levee Segment	C	A	A	A	B
	Station From	See map	See map	See map	See map	See map
	Station To					
	Levee Type	Bay Shore	Bay Shore	Slough/Creek - Int	Slough/Creek - Int	Slough/Creek - Int
	Total Length	1100	1400	7000	7000	3000
	Length Good	0	0	0	0	0
	Length Fair	0	0	0	0	0
Length Poor	1100	1400	7000	7000	3000	
Function	Protect Salt Pond	Protect Salt Pond	Protect Salt Pond	Protect Salt Pond	Protect Salt Pond	
Alignment:	Crest Width	13	13	14	14	10
	Crest Condition	Poor	Poor	Fair - Poor	Fair - Poor	Fair - Poor
	Crest Elevation	6.8	7.0	6.1	6.1	6.6
	Crest Datum	MSL	MSL	MSL	MSL	MSL
	Side Slope Degrees		11 - 14	9 - 15	9 - 15	20
	Slope Conditon	Poor	Poor	Fair - Poor	Fair - Poor	Fair - Poor
	Toe Condition	Poor	Poor	Fair - Poor	Fair - Poor	Fair - Poor
Evidence of Failures:	Cracking	No	No	No	No	No
	Seepage	No	No	No	No	No
	Overtopping	Yes	Yes	Yes	Yes	No
	Indications		No			
Slope Protection:	Type			Vegetation	Vegetation	Vegetation
	Location			Outboard	Outboard	Inboard
	Extent	0	0	6500	6500	0
	Condition	Poor	Poor	Poor	Poor	Poor
	Wave Erosion	Intense		Slight	Slight	Slight
	Undercutting					
Condition of Slope Protection:	Type	Mixture Mud	Mixture Mud	Sandy - Gravelly	Sandy - Gravelly	Mixture Mud
	Extent			Grass - Brush	Grass - Brush	Grass - Brush
	Degree					Crest - Outboard slope - Inboard slope Thick
	Levee Use			Unpaved - Author Vehicle Graded	Unpaved - Author Vehicle Graded	
Evaluation:	Very Good					
	Adequate	0	0	0	0	0
	Poor	0	1400	0	0	3000

**APPENDIX B**  
**USACE 1984 LEVEE SURVEY SUMMARY**  
 South Bay Salt Pond Restoration Project  
 San Francisco Bay Area, CA

General:	Complex	Eden Landing	Eden Landing	Eden Landing	Eden Landing	Eden Landing
	Pond	B12	B12	B13	B14	B14
	Orientation	W - N	W - N - E	SE	E - S	N - N-W
	Reach ID	10	10	10	10	10
	Segment	46A2	46A2	46B	46C	46C
	County	Alameda	Alameda	Alameda	Alameda	Alameda
	Survey By	M.W. & S.K.	M.W. & S.K.	M.W. & S.K.	M.W. & G.O.	M.W. & G.O.
	Date of Inspection	3/27/1984	3/27/1984	3/27/1984	3/27/1984	3/27/1984
	Ownership	Leslie Salt Co.	Leslie Salt Co.	Leslie Salt Co.	Leslie Salt Co.	Leslie Salt Co.
	Method	Ground	Ground	Ground	Ground	Ground
	Levee Segment	A	A	B	C	C
	Station From	See map	See map	See map	See map	See map
	Station To					
	Levee Type	Slough/Creek - Int	Slough/Creek - Int	Slough/Creek - Int	Slough/Creek - Int	Slough/Creek - Int
	Total Length	5300	5300	3000	8000	8000
	Length Good	0	0	0	0	0
	Length Fair	5300	5300	0	0	0
Length Poor	0	0	3000	8000	8000	
Function	Protect Salt Pond	Protect Salt Pond	Protect Salt Pond	Protect Salt Pond	Protect Salt Pond	
Alignment:	Crest Width	0	0	10	12	12
	Crest Condition	Fair	Fair	Fair - Poor	Fair	Fair
	Crest Elevation	5.4	5.4	6.6	5.8	5.8
	Crest Datum	MSL	MSL	MSL	MSL	MSL
	Side Slope Degrees	9 - 15	9 - 15	20	16 - Inside has heavy erosion vertical drop to 40 slope	16 - Inside has heavy erosion vertical drop to 40 slope
	Slope Condition	Fair	Fair	Fair - Poor	Poor	Poor
	Toe Condition	Fair	Fair	Fair - Poor	Poor	Poor
Evidence of Failures:	Cracking	No	No	No	No	No
	Seepage	No	No	No	No	No
	Overtopping	Yes	Yes	No	Yes	Yes
	Indications					
Slope Protection:	Type	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation
	Location	Outboard	Outboard	Inboard	Inboard	Inboard
	Extent	5300	5300	0	8000	8000
	Condition	Fair	Fair	Poor	Fair - Poor	Fair - Poor
	Wave Erosion	Slight - Intense	Slight - Intense	Slight	Intense	Intense
	Undercutting					
Condition of Slope Protection:	Type	Grass - Brush	Grass - Brush	Grass - Brush	Grass - Brush	Grass - Brush
	Extent	Outboard Slope - Inboard Slope	Outboard Slope - Inboard Slope	Crest - Outboard slope - Inboard slope	Outboard Slope - Inboard Slope	Outboard Slope - Inboard Slope
	Degree	Thick	Thick	Thick	Thick	Thick
	Levee Use	Unpaved - Author Vehicle Graded	Unpaved - Author Vehicle Graded		Unpaved - Author Vehicle Graded	Unpaved - Author Vehicle Graded
Evaluation:	Very Good					
	Adequate	5300	5300	0	0	0
	Poor	0	0	3000	8000	8000

**APPENDIX B**  
**USACE 1984 LEVEE SURVEY SUMMARY**  
 South Bay Salt Pond Restoration Project  
 San Francisco Bay Area, CA

General:	Complex	Eden Landing	Eden Landing	Eden Landing	Eden Landing	Eden Landing
	Pond	B14	B1C	B1C	B2	B2
	Orientation	S - W	E	W	E	N
	Reach ID	10	12	12	12	12
	Segment	50	57A	57A	56B	54A
	County	Alameda	Alameda	Alameda	Alameda	Alameda
	Survey By	M.W. & S.K.	G.O. & S.K.	G.O. & S.K.	M.W. & G.O.	G.O. & M.W.
	Date of Inspection	3/27/1984	4/9/1984	4/9/1984	4/17/1984	3/30/1984
	Ownership	Leslie Salt Co.	County of Alameda	County of Alameda	County of Alameda	Leslie Salt Co.
	Method	Ground	Ground	Ground	Ground	Ground
	Levee Segment		A	A		A
	Station From	End of Slough	See map	See map		See map
	Station To	S. Edge of Union City Slough				
	Levee Type	Slough/Creek - Int	Slough/Creek	Slough/Creek	int.	Bay Shore - Ext
	Total Length	6200	13000	13000	13000	3000
	Length Good	0	13000	13000	13000	0
	Length Fair	0	0	0	0	3000
Length Poor	6200	0	0	0	0	
Function	No levee only shoreline without protection	Buffer between Channel & low lying adjacent lands	Buffer between Channel & low lying adjacent lands		Protect Salt Pond	
Alignment:	Crest Width	0	16	16	12	16
	Crest Condition		Good	Good		Fair
	Crest Elevation	3.5	20.0	20.0	4.9	7.2
	Crest Datum	MSL	MSL	MSL	MSL	MSL
	Side Slope Degrees		25-30 IO	25-30 IO	15 O, 25 I	10-15 O, 25 I
	Slope Condition		Good	Good	Good	Fair
	Toe Condition		Good	Good	Good	
Evidence of Failures:	Cracking		No	No	No	No
	Seepage		No	No	No	No
	Overtopping		No	No	No	
	Indications		No	No		
Slope Protection:	Type		Vegetation	Vegetation	Vegetation	Vegetation
	Location		Inboard	Inboard	Inboard	Inboard
	Extent	0	13000	13000	0	3000
	Condition		Good	Good	Good	Fair
	Wave Erosion					Slight
	Undercutting				No	No
	Soil Type		Clayey	Clayey	Clayey - Sandy - Gravelly	Clayey
Condition of Slope Protection:	Type	Grass - Brush	Grass - Riprap	Grass - Riprap	Grass	Grass
	Extent	Outboard Slope - Inboard Slope	Outboard slope - Inboard slope	Outboard slope - Inboard slope	Outboard slope - Inboard slope	Outboard slope - Inboard slope
	Degree	Light	Light	Light	Thick	Light
	Levee Use	Unpaved - Author Vehicle Upgrading Needed	Unpaved - Author Vehicle Trail	Unpaved - Author Vehicle Trail	Unpaved - Author Vehicle Graded	Unpaved - Trail
	Evaluation:	Very Good				
	Adequate	0	0	0	0	
	Poor	1100	0	0	0	

**APPENDIX B**  
**USACE 1984 LEVEE SURVEY SUMMARY**  
 South Bay Salt Pond Restoration Project  
 San Francisco Bay Area, CA

General:	Complex	Eden Landing	Eden Landing	Eden Landing	Eden Landing	Eden Landing
	Pond	B2	B2	B2	B2C	B2C
	Orientation	NW - N	SE	SW	E	NW - SW
	Reach ID	12	12	12	12	12
	Segment	54B	56B	54C	57A	57A
	County	Alameda	Alameda	Alameda	Alameda	Alameda
	Survey By	M.W. & S.K.	M.W. & G.O.	M.W. & G.O.	G.O. & S.K.	G.O. & S.K.
	Date of Inspection	3/30/1984	4/17/1984	3/27/1984	4/9/1984	4/9/1984
	Ownership	Leslie Salt Co.	County of Alameda	Leslie Salt Co.	County of Alameda	County of Alameda
	Method	Ground	Ground	Ground	Ground	Ground
	Levee Segment	B		C	A	A
	Station From	See map		See map	See map	See map
	Station To					
	Levee Type	Bay Shore - Ext	int.	Bay Shore - Ext	Slough/Creek	Slough/Creek
	Total Length	1900	13000	2700	13000	13000
	Length Good	0	13000	0	13000	13000
	Length Fair	1900	0	0	0	0
Length Poor	0	0	2700	0	0	
Function	Protect Salt Pond		Protect Salt Pond	Buffer between Channel & low lying adjacent lands	Buffer between Channel & low lying adjacent lands	
Alignment:	Crest Width	0	12	0	16	16
	Crest Condition	Poor		Poor	Good	Good
	Crest Elevation	5.8	4.9	8.3	20.0	20.0
	Crest Datum	MSL	MSL	MSL	MSL	MSL
	Side Slope Degrees	11-13 IO	15 O, 25 I		25-30 IO	25-30 IO
	Slope Conditon	Poor	Good	Poor	Good	Good
	Toe Condition	Poor	Good	Poor	Good	Good
Evidence of Failures:	Cracking	No	No	Yes	No	No
	Seepage	Yes	No		No	No
	Overtopping	Yes	No		No	No
	Indications	Yes, numerous places			No	No
Slope Protection:	Type	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation
	Location	Inboard	Inboard	Inboard	Inboard	Inboard
	Extent	1900	0	2700	13000	13000
	Condition	Poor	Good	Poor	Good	Good
	Wave Erosion	Intense		Intense		
	Undercutting		No			
Condition of Slope Protection:	Soil Type	Clayey - Mixture Mud	Clayey - Sandy - Gravelly	Clayey - Mixture Mud	Clayey	Clayey
	Type	Grass - Brush	Grass		Grass - Riprap	Grass - Riprap
	Extent	Outboard slope - Inboard slope	Outboard slope - Inboard slope		Outboard slope - Inboard slope	Outboard slope - Inboard slope
	Degree	Thick	Thick		Light	Light
Levee Use		Unpaved - Author Vehicle Graded		Unpaved - Author Vehicle Trail	Unpaved - Author Vehicle Trail	
			Unpaved - Graded			
Evaluation:	Very Good					
	Adequate	0	0	0	0	
	Poor	0	0	0	0	

**APPENDIX B**  
**USACE 1984 LEVEE SURVEY SUMMARY**  
 South Bay Salt Pond Restoration Project  
 San Francisco Bay Area, CA

General:	Complex	Eden Landing	Eden Landing	Eden Landing	Eden Landing	Eden Landing
	Pond	B4	B4	B4	B5	B5
	Orientation	N	SE - SW	W	NW - W	SE
	Reach ID	12	12	12	12	12
	Segment	56B	56B	56B	56A	56A
	County	Alameda	Alameda	Alameda	Alameda	Alameda
	Survey By	M.W. & G.O.	M.W. & G.O.	M.W. & G.O.	M.W. & G.O.	M.W. & G.O.
	Date of Inspection	4/17/1984	4/17/1984	4/17/1984	4/17/1984	4/17/1984
	Ownership	County of Alameda	County of Alameda	County of Alameda	County of Alameda	County of Alameda
	Method	Ground	Ground	Ground	Ground	Ground
	Levee Segment				A	A
	Station From				See map	See map
	Station To					
	Levee Type	int.	int.	int.	Int.	Int.
	Total Length	13000	13000	13000	3000	3000
	Length Good	13000	13000	13000	3000	3000
	Length Fair	0	0	0	0	0
Length Poor	0	0	0	0	0	
Function				Protect wastewater Plant	Protect wastewater Plant	
Alignment:	Crest Width	12	12	12	10	10
	Crest Condition				Good	Good
	Crest Elevation	4.9	4.9	4.9	8.9	8.9
	Crest Datum	MSL	MSL	MSL	MSL	MSL
	Side Slope Degrees	15 O, 25 I	15 O, 25 I	15 O, 25 I	25, southside gentle slope	25, southside gentle slope
	Slope Conditon	Good	Good	Good	Good	Good
	Toe Condition	Good	Good	Good	Good	Good
Evidence of Failures:	Cracking	No	No	No	No	No
	Seepage	No	No	No	No	No
	Overtopping	No	No	No	No	No
	Indications					
Slope Protection:	Type	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation
	Location	Inboard	Inboard	Inboard	Inboard	Inboard
	Extent	0	0	0	3000	3000
	Condition	Good	Good	Good	Good	Good
	Wave Erosion					
	Undercutting	No	No	No		
Condition of Slope Protection:	Soil Type	Clayey - Sandy - Gravelly	Clayey - Sandy - Gravelly	Clayey - Sandy - Gravelly	Clayey - Sandy - Gravelly	Clayey - Sandy - Gravelly
	Type	Grass	Grass	Grass		
	Extent	Outboard slope - Inboard slope	Outboard slope - Inboard slope	Outboard slope - Inboard slope		
	Degree	Thick	Thick	Thick		
Levee Use	Levee Use	Unpaved - Author Vehicle Graded	Unpaved - Author Vehicle Graded	Unpaved - Author Vehicle Graded	Unapvped - Author Vehicle Graded	Unapvped - Author Vehicle Graded
	Very Good					
	Adequate	0	0	0	0	0
Evaluation:	Poor	0	0	0	0	0

**APPENDIX B**  
**USACE 1984 LEVEE SURVEY SUMMARY**  
 South Bay Salt Pond Restoration Project  
 San Francisco Bay Area, CA

General:	Complex	Eden Landing	Eden Landing	Eden Landing	Eden Landing	Eden Landing
	Pond	B5C	B5C	B6	B6	B6
	Orientation	SE	SW - NW	E	NW - N	SW
	Reach ID	12	12	12	12	12
	Segment	57A	57A	56A	56A	56A
	County	Alameda	Alameda	Alameda	Alameda	Alameda
	Survey By	G.O. & S.K.	G.O. & S.K.	M.W. & G.O.	M.W. & G.O.	M.W. & G.O.
	Date of Inspection	4/9/1984	4/9/1984	4/17/1984	4/17/1984	4/17/1984
	Ownership	County of Alameda	County of Alameda	County of Alameda	County of Alameda	County of Alameda
	Method	Ground	Ground	Ground	Ground	Ground
	Levee Segment	A	A	A	A	A
	Station From	See map	See map	See map	See map	See map
	Station To					
	Levee Type	Slough/Creek	Slough/Creek	Int.	Int.	Int.
	Total Length	13000	13000	3000	3000	3000
	Length Good	13000	13000	3000	3000	3000
	Length Fair	0	0	0	0	0
Length Poor	0	0	0	0	0	
Function	Buffer between Channel & low lying adjacent lands	Buffer between Channel & low lying adjacent lands	Protect wastewater Plant	Protect wastewater Plant	Protect wastewater Plant	
Alignment:	Crest Width	16	16	10	10	10
	Crest Condition	Good	Good	Good	Good	Good
	Crest Elevation	20.0	20.0	8.9	8.9	8.9
	Crest Datum	MSL	MSL	MSL	MSL	MSL
	Side Slope Degrees	25-30 IO	25-30 IO	25, southside gentle slope	25, southside gentle slope	25, southside gentle slope
	Slope Conditon	Good	Good	Good	Good	Good
	Toe Condition	Good	Good	Good	Good	Good
Evidence of Failures:	Cracking	No	No	No	No	No
	Seepage	No	No	No	No	No
	Overtopping	No	No	No	No	No
	Indications	No	No			
Slope Protection:	Type	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation
	Location	Inboard	Inboard	Inboard	Inboard	Inboard
	Extent	13000	13000	3000	3000	3000
	Condition	Good	Good	Good	Good	Good
	Wave Erosion					
	Undercutting					
Condition of Slope Protection:	Type	Clayey	Clayey	Clayey - Sandy - Gravelly	Clayey - Sandy - Gravelly	Clayey - Sandy - Gravelly
	Type	Grass - Riprap	Grass - Riprap			
	Extent	Outboard slope - Inboard slope	Outboard slope - Inboard slope			
	Degree	Light	Light			
	Levee Use	Unpaved - Author Vehicle Trail	Unpaved - Author Vehicle Trail	Unapvded - Author Vehicle Graded	Unapvded - Author Vehicle Graded	Unapvded - Author Vehicle Graded
Evaluation:	Very Good					
	Adequate	0	0	0	0	0
	Poor	0	0	0	0	0



**APPENDIX B**  
**USACE 1984 LEVEE SURVEY SUMMARY**  
 South Bay Salt Pond Restoration Project  
 San Francisco Bay Area, CA

General:	Complex	Eden Landing	Eden Landing	Eden Landing	Eden Landing	Eden Landing
	Pond	B6A	B6A	B6B	B6B	B6C
	Orientation	E - S	W - NW	N	W - SW	E - S - W
	Reach ID	10	10	10	10	12
	Segment	47	47	46C	46C	56B
	County	Alameda	Alameda	Alameda	Alameda	Alameda
	Survey By	M.W. & S.K.	M.W. & S.K.	M.W. & G.O.	M.W. & G.O.	M.W. & G.O.
	Date of Inspection	3/27/1984	3/27/1984	3/27/1984	3/27/1984	4/17/1984
	Ownership	Leslie Salt Co.	Leslie Salt Co.	Leslie Salt Co.	Leslie Salt Co.	County of Alameda
	Method	Ground	Ground	Ground	Ground	Ground
	Levee Segment			C	C	
	Station From	S. Edge of Mt. Eden Creek	S. Edge of Mt. Eden Creek	See map	See map	
	Station To	End of Creek	End of Creek			
	Levee Type	Slough/Creek - Int	Slough/Creek - Int	Slough/Creek - Int	Slough/Creek - Int	int.
	Total Length	15000	15000	8000	8000	13000
	Length Good	0	0	0	0	13000
	Length Fair	15000	15000	0	0	0
Length Poor	0	0	8000	8000	0	
Function	Protect Salt Pond	Protect Salt Pond	Protect Salt Pond	Protect Salt Pond		
Alignment:	Crest Width	0	0	12	12	12
	Crest Condition	Fair	Fair	Fair	Fair	
	Crest Elevation	6.6	6.6	5.8	5.8	4.9
	Crest Datum	MSL	MSL	MSL	MSL	MSL
	Side Slope Degrees	Inside has heavy erosion verical drop to 40 slope	Inside has heavy erosion verical drop to 40 slope	16 - Inside has heavy erosion verical drop to 40 slope	16 - Inside has heavy erosion verical drop to 40 slope	15 O, 25 I
	Slope Conditon	Fair	Fair	Poor	Poor	Good
	Toe Condition	Fair	Fair	Poor	Poor	Good
Evidence of Failures:	Cracking			No	No	No
	Seepage			No	No	No
	Overtopping	Yes	Yes	Yes	Yes	No
	Indications					
Slope Protection:	Type	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation
	Location	Outboard	Outboard	Inboard	Inboard	Inboard
	Extent	15000	15000	8000	8000	0
	Condition	Fair	Fair	Fair - Poor	Fair - Poor	Good
	Wave Erosion	Slight - Intense	Slight - Intense	Intense	Intense	
	Undercutting					No
	Soil Type	Clayey - Mixture Mud	Clayey - Mixture Mud	Clayey - Sandy	Clayey - Sandy	Clayey - Sandy - Gravelly
Condition of Slope Protection:	Type	Grass - Brush	Grass - Brush	Grass - Brush	Grass - Brush	Grass
	Extent	Outboard Slope - Inboard Slope	Outboard Slope - Inboard Slope	Outboard Slope - Inboard Slope	Outboard Slope - Inboard Slope	Outboard slope - Inboard slope
	Degree	Thick	Thick	Thick	Thick	Thick
	Levee Use			Unpaved - Author Vehicle Graded	Unpaved - Author Vehicle Graded	Unpaved - Author Vehicle Graded
Evaluation:	Very Good					
	Adequate	0	0	0	0	0
	Poor	15000	15000	8000	8000	0

**APPENDIX B**  
**USACE 1984 LEVEE SURVEY SUMMARY**  
 South Bay Salt Pond Restoration Project  
 San Francisco Bay Area, CA

General:	Complex	Eden Landing	Eden Landing	Eden Landing	Eden Landing	Eden Landing
	Pond	B6C	B8	B8	B8	B8
	Orientation	NW	E - S	N	NE	S
	Reach ID	12	10	10	10	10
	Segment	56B	46C	46C	46C	47
	County	Alameda	Alameda	Alameda	Alameda	Alameda
	Survey By	M.W. & G.O.	M.W. & G.O.	M.W. & G.O.	M.W. & G.O.	M.W. & S.K.
	Date of Inspection	4/17/1984	3/27/1984	3/27/1984	3/27/1984	3/27/1984
	Ownership	County of Alameda	Leslie Salt Co.	Leslie Salt Co.	Leslie Salt Co.	Leslie Salt Co.
	Method	Ground	Ground	Ground	Ground	Ground
	Levee Segment		C	C	C	
	Station From		See map	See map	See map	S. Edge of Mt. Eden Creek
	Station To					End of Creek
	Levee Type	int.	Slough/Creek - Int	Slough/Creek - Int	Slough/Creek - Int	Slough/Creek - Int
	Total Length	13000	8000	8000	8000	15000
	Length Good	13000	0	0	0	0
	Length Fair	0	0	0	0	15000
Length Poor	0	8000	8000	8000	0	
Function		Protect Salt Pond	Protect Salt Pond	Protect Salt Pond	Protect Salt Pond	
Alignment:	Crest Width	12	12	12	12	0
	Crest Condition		Fair	Fair	Fair	Fair
	Crest Elevation	4.9	5.8	5.8	5.8	6.6
	Crest Datum	MSL	MSL	MSL	MSL	MSL
	Side Slope Degrees	15 O, 25 I	16 - Inside has heavy erosion vertical drop to 40 slope	16 - Inside has heavy erosion vertical drop to 40 slope	16 - Inside has heavy erosion vertical drop to 40 slope	Inside has heavy erosion vertical drop to 40 slope
	Slope Condition	Good	Poor	Poor	Poor	Fair
	Toe Condition	Good	Poor	Poor	Poor	Fair
Evidence of Failures:	Cracking	No	No	No	No	
	Seepage	No	No	No	No	
	Overtopping	No	Yes	Yes	Yes	Yes
	Indications					
Slope Protection:	Type	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation
	Location	Inboard	Inboard	Inboard	Inboard	Outboard
	Extent	0	8000	8000	8000	15000
	Condition	Good	Fair - Poor	Fair - Poor	Fair - Poor	Fair
	Wave Erosion		Intense	Intense	Intense	Slight - Intense
	Undercutting	No				
	Soil Type	Clayey - Sandy - Gravelly	Clayey - Sandy	Clayey - Sandy	Clayey - Sandy	Clayey - Mixture Mud
Condition of Slope Protection:	Type	Grass	Grass - Brush	Grass - Brush	Grass - Brush	Grass - Brush
	Extent	Outboard slope - Inboard slope	Outboard Slope - Inboard Slope	Outboard Slope - Inboard Slope	Outboard Slope - Inboard Slope	Outboard Slope - Inboard Slope
	Degree	Thick	Thick	Thick	Thick	Thick
	Levee Use	Unpaved - Author Vehicle Graded	Unpaved - Author Vehicle Graded	Unpaved - Author Vehicle Graded	Unpaved - Author Vehicle Graded	
Evaluation:	Very Good					
	Adequate	0	0	0	0	0
	Poor	0	8000	8000	8000	15000

**APPENDIX B**  
**USACE 1984 LEVEE SURVEY SUMMARY**  
 South Bay Salt Pond Restoration Project  
 San Francisco Bay Area, CA

General:	Complex	Eden Landing	Eden Landing	Eden Landing	Eden Landing	Eden Landing
	Pond	B8	B8	B8A	B8A	B8A
	Orientation	W	W - NW	E - SE	S	W - NW
	Reach ID	10	10	10	10	10
	Segment	46C	46C	46C	47	46C
	County	Alameda	Alameda	Alameda	Alameda	Alameda
	Survey By	M.W. & G.O.	M.W. & G.O.	M.W. & G.O.	M.W. & S.K.	M.W. & G.O.
	Date of Inspection	3/27/1984	3/27/1984	3/27/1984	3/27/1984	3/27/1984
	Ownership	Leslie Salt Co.	Leslie Salt Co.	Leslie Salt Co.	Leslie Salt Co.	Leslie Salt Co.
	Method	Ground	Ground	Ground	Ground	Ground
	Levee Segment	C	C	C		C
	Station From	See map	See map	See map	S. Edge of Mt. Eden Creek	See map
	Station To				End of Creek	
	Levee Type	Slough/Creek - Int	Slough/Creek - Int	Slough/Creek - Int	Slough/Creek - Int	Slough/Creek - Int
	Total Length	8000	8000	8000	15000	8000
	Length Good	0	0	0	0	0
	Length Fair	0	0	0	15000	0
	Length Poor	8000	8000	8000	0	8000
	Function	Protect Salt Pond	Protect Salt Pond	Protect Salt Pond	Protect Salt Pond	Protect Salt Pond
	Alignment:	Crest Width	12	12	12	0
Crest Condition		Fair	Fair	Fair	Fair	Fair
Crest Elevation		5.8	5.8	5.8	6.6	5.8
Crest Datum		MSL	MSL	MSL	MSL	MSL
Side Slope Degrees		16 - Inside has heavy erosion vertical drop to 40 slope	16 - Inside has heavy erosion vertical drop to 40 slope	16 - Inside has heavy erosion vertical drop to 40 slope	Inside has heavy erosion vertical drop to 40 slope	16 - Inside has heavy erosion vertical drop to 40 slope
Slope Conditon		Poor	Poor	Poor	Fair	Poor
Toe Condition		Poor	Poor	Poor	Fair	Poor
Evidence of Failures:	Cracking	No	No	No		No
	Seepage	No	No	No		No
	Overtopping	Yes	Yes	Yes	Yes	Yes
	Indications					
Slope Protection:	Type	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation
	Location	Inboard	Inboard	Inboard	Outboard	Inboard
	Extent	8000	8000	8000	15000	8000
	Condition	Fair - Poor	Fair - Poor	Fair - Poor	Fair	Fair - Poor
	Wave Erosion	Intense	Intense	Intense	Slight - Intense	Intense
	Undercutting					
	Soil Type	Clayey - Sandy	Clayey - Sandy	Clayey - Sandy	Clayey - Mixture Mud	Clayey - Sandy
Condition of Slope Protection:	Type	Grass - Brush	Grass - Brush	Grass - Brush	Grass - Brush	Grass - Brush
	Extent	Outboard Slope - Inboard Slope	Outboard Slope - Inboard Slope	Outboard Slope - Inboard Slope	Outboard Slope - Inboard Slope	Outboard Slope - Inboard Slope
	Degree	Thick	Thick	Thick	Thick	Thick
	Levee Use	Unpaved - Author Vehicle Graded	Unpaved - Author Vehicle Graded	Unpaved - Author Vehicle Graded		Unpaved - Author Vehicle Graded
Evaluation:	Very Good					
	Adequate	0	0	0	0	0
	Poor	8000	8000	8000	15000	8000

**APPENDIX B**  
**USACE 1984 LEVEE SURVEY SUMMARY**  
 South Bay Salt Pond Restoration Project  
 San Francisco Bay Area, CA

General:	Complex	Eden Landing	Eden Landing	Eden Landing	Eden Landing	Eden Landing
	Pond	B9	B9	B9	B9	B9
	Orientation	E	N	N - E	SE	SW
	Reach ID	10	10	10	10	10
	Segment	46C	50	50	50	50
	County	Alameda	Alameda	Alameda	Alameda	Alameda
	Survey By	M.W. & G.O.	M.W. & S.K.	M.W. & S.K.	M.W. & S.K.	M.W. & S.K.
	Date of Inspection	3/27/1984	3/27/1984	3/27/1984	3/27/1984	3/27/1984
	Ownership	Leslie Salt Co.	Leslie Salt Co.	Leslie Salt Co.	Leslie Salt Co.	Leslie Salt Co.
	Method	Ground	Ground	Ground	Ground	Ground
	Levee Segment	C				
	Station From	See map	End of Slough	End of Slough	End of Slough	End of Slough
	Station To		S. Edge of Union City Slough	S. Edge of Union City Slough	S. Edge of Union City Slough	S. Edge of Union City Slough
	Levee Type	Slough/Creek - Int	Slough/Creek - Int	Slough/Creek - Int	Slough/Creek - Int	Slough/Creek - Int
	Total Length	8000	6200	6200	6200	6200
	Length Good	0	0	0	0	0
	Length Fair	0	0	0	0	0
Length Poor	8000	6200	6200	6200	6200	
Function	Protect Salt Pond	No levee only shoreline without protection	No levee only shoreline without protection	No levee only shoreline without protection	No levee only shoreline without protection	
Alignment:	Crest Width	12	0	0	0	0
	Crest Condition	Fair				
	Crest Elevation	5.8	3.5	3.5	3.5	3.5
	Crest Datum	MSL	MSL	MSL	MSL	MSL
	Side Slope Degrees	16 - Inside has heavy erosion vertical drop to 40 slope				
	Slope Condition	Poor				
Evidence of Failures:	Toe Condition	Poor				
	Cracking	No				
	Seepage	No				
	Overtopping	Yes				
Slope Protection:	Indications					
	Type	Vegetation				
	Location	Inboard				
	Extent	8000	0	0	0	0
	Condition	Fair - Poor				
	Wave Erosion	Intense				
	Undercutting					
Condition of Slope Protection:	Soil Type	Clayey - Sandy				
	Type	Grass - Brush	Grass - Brush	Grass - Brush	Grass - Brush	Grass - Brush
	Extent	Outboard Slope - Inboard Slope	Outboard Slope - Inboard Slope	Outboard Slope - Inboard Slope	Outboard Slope - Inboard Slope	Outboard Slope - Inboard Slope
	Degree	Thick	Light	Light	Light	Light
Evaluation:	Levee Use	Unpaved - Author Vehicle Graded	Unpaved - Author Vehicle Upgrading Needed	Unpaved - Author Vehicle Upgrading Needed	Unpaved - Author Vehicle Upgrading Needed	Unpaved - Author Vehicle Upgrading Needed
	Very Good					
	Adequate	0	0	0	0	0
Poor	8000	1100	1100	1100	1100	

**APPENDIX B**  
**USACE 1984 LEVEE SURVEY SUMMARY**  
 South Bay Salt Pond Restoration Project  
 San Francisco Bay Area, CA

General:	Complex	Ravenswood	Ravenswood	Ravenswood	Ravenswood	Ravenswood
	Pond	R_temp1	R_temp1	R_temp1	R_temp2	R1
	Orientation	E	N	SW		E
	Reach ID	25	25	25	25	25
	Segment	25.2	25.1	25.2	25.1	25.6
	County	San Mateo County	San Mateo County	San Mateo County	San Mateo County	San Mateo County
	Survey By		RPY		RPY	
	Date of Inspection	1/23/1985	1/23/1985	1/23/1985	1/23/1985	
	Ownership		San Mateo County		San Mateo County	Leslie Salt Co.
	Method	Ground	Ground	Ground	Ground	Ground
	Levee Segment					
	Station From					
	Station To					
	Levee Type	Int.	Slough/Creek	Int.	Slough/Creek	Bay Shore (some) - Slough Creek (most)
	Total Length	0	0	0	0	0
	Length Good	0	0	0	0	0
	Length Fair	8000	5750	8000	5750	0
Length Poor	0	0	0	0	19000	
Function	Adjacent to industry along freeway	No protection, surrounds landfill (for future dev.)	Adjacent to industry along freeway	No protection, surrounds landfill (for future dev.)	Salt ponds and sewage plant & sanitary landfill	
Alignment:	Crest Width	0	0	0	0	0
	Crest Condition	Good	Fair	Good	Fair	Poor
	Crest Elevation	0.0	0.0	0.0	0.0	0.0
	Crest Datum					
	Side Slope Degrees					
	Slope Conditon	Fair	Poor	Fair	Poor	Poor
	Toe Condition	Fair	Poor	Fair	Poor	Poor
Evidence of Failures:	Cracking					
	Seepage					
	Overtopping					
	Indications					
Slope Protection:	Type	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation
	Location	Inboard - Outboard	Inboard - Outboard	Inboard - Outboard	Inboard - Outboard	Outboard
	Extent	0	0	0	0	0
	Condition	Fair	Poor	Fair	Poor	Poor
	Wave Erosion		Slight		Slight	Intense
	Undercutting					
	Soil Type					
Condition of Slope Protection:	Type	Grass - brush	Grass - brush	Grass - brush	Grass - brush	Grass - brush
	Extent	Outboard slope - Inboard slope	Outboard slope	Outboard slope - Inboard slope	Outboard slope	Outboard slope - Inboard slope
	Degree	Thick	Light	Thick	Light	Denser
	Levee Use	Paved	Unpaved - Author Vehicle Upgrade Need	Paved	Unpaved - Author Vehicle Upgrade Need	Unpaved - Author Vehicle Ungraded - Upgrade Need
Evaluation:	Very Good					
	Adequate	0	0	0	0	0
	Poor	0	0	0	0	0

**APPENDIX B**  
**USACE 1984 LEVEE SURVEY SUMMARY**  
 South Bay Salt Pond Restoration Project  
 San Francisco Bay Area, CA

General:	Complex	Ravenswood	Ravenswood	Ravenswood	Ravenswood	Ravenswood
	Pond	R1	R1	R2	R2	R2
	Orientation	S	S - SE	N - NW	SE	SW
	Reach ID	25	25	25	25	25
	Segment	25.6	25.6	25.6	25.6	25.6
	County	San Mateo County	San Mateo County	San Mateo County	San Mateo County	San Mateo County
	Survey By					
	Date of Inspection					
	Ownership	Leslie Salt Co.	Leslie Salt Co.	Leslie Salt Co.	Leslie Salt Co.	Leslie Salt Co.
	Method	Ground	Ground	Ground	Ground	Ground
	Levee Segment					
	Station From					
	Station To					
	Levee Type	Bay Shore (some) - Slough Creek (most)	Bay Shore (some) - Slough Creek (most)	Bay Shore (some) - Slough Creek (most)	Bay Shore (some) - Slough Creek (most)	Bay Shore (some) - Slough Creek (most)
	Total Length	0	0	0	0	0
	Length Good	0	0	0	0	0
	Length Fair	0	0	0	0	0
Length Poor	19000	19000	19000	19000	19000	
Function	Salt ponds and sewage plant & sanitary landfill	Salt ponds and sewage plant & sanitary landfill	Salt ponds and sewage plant & sanitary landfill	Salt ponds and sewage plant & sanitary landfill	Salt ponds and sewage plant & sanitary landfill	
Alignment:	Crest Width	0	0	0	0	0
	Crest Condition	Poor	Poor	Poor	Poor	Poor
	Crest Elevation	0.0	0.0	0.0	0.0	0.0
	Crest Datum					
	Side Slope Degrees					
	Slope Conditon	Poor	Poor	Poor	Poor	Poor
	Toe Condition	Poor	Poor	Poor	Poor	Poor
Evidence of Failures:	Cracking					
	Seepage					
	Overtopping					
	Indications					
Slope Protection:	Type	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation
	Location	Outboard	Outboard	Outboard	Outboard	Outboard
	Extent	0	0	0	0	0
	Condition	Poor	Poor	Poor	Poor	Poor
	Wave Erosion	Intense	Intense	Intense	Intense	Intense
	Undercutting					
	Soil Type					
Condition of Slope Protection:	Type	Grass - brush	Grass - brush	Grass - brush	Grass - brush	Grass - brush
	Extent	Outboard slope - Inboard slope	Outboard slope - Inboard slope	Outboard slope - Inboard slope	Outboard slope - Inboard slope	Outboard slope - Inboard slope
	Degree	Denser	Denser	Denser	Denser	Denser
	Levee Use	Unpaved - Author Vehicle Ungraded - Upgrade Need	Unpaved - Author Vehicle Ungraded - Upgrade Need	Unpaved - Author Vehicle Ungraded - Upgrade Need	Unpaved - Author Vehicle Ungraded - Upgrade Need	Unpaved - Author Vehicle Ungraded - Upgrade Need
Evaluation:	Very Good					
	Adequate	0	0	0	0	0
	Poor	0	0	0	0	0

**APPENDIX B**  
**USACE 1984 LEVEE SURVEY SUMMARY**  
 South Bay Salt Pond Restoration Project  
 San Francisco Bay Area, CA

General:	Complex	Ravenswood	Ravenswood	Ravenswood	Ravenswood	Ravenswood
	Pond	R2	R3	R3	R3	R3
	Orientation		E - S	NE - N	S	S - SE
	Reach ID	25	25	25	25	25
	Segment	25.6	25.6	25.6	25.2	25.4
	County	San Mateo County	San Mateo County	San Mateo County	San Mateo County	San Mateo County
	Survey By					
	Date of Inspection				1/23/1985	1/23/1985
	Ownership	Leslie Salt Co.	Leslie Salt Co.	Leslie Salt Co.		Leslie Salt Co.
	Method	Ground	Ground	Ground	Ground	Ground
	Levee Segment					
	Station From					
	Station To					
	Levee Type	Bay Shore (some) - Slough Creek (most)	Bay Shore (some) - Slough Creek (most)	Bay Shore (some) - Slough Creek (most)	Int.	Int.
	Total Length	0	0	0	0	0
	Length Good	0	0	0	0	0
	Length Fair	0	0	0	8000	0
Length Poor	19000	19000	19000	0	3500	
Function	Salt ponds and sewage plant & sanitary landfill	Salt ponds and sewage plant & sanitary landfill	Salt ponds and sewage plant & sanitary landfill	Adjacent to industry along freeway	Sect #3 with soft inboard salt pond levee	
Alignment:	Crest Width	0	0	0	0	0
	Crest Condition	Poor	Poor	Poor	Good	Poor
	Crest Elevation	0.0	0.0	0.0	0.0	0.0
	Crest Datum					
	Side Slope Degrees					
	Slope Conditon	Poor	Poor	Poor	Fair	Poor
Evidence of Failures:	Toe Condition	Poor	Poor	Poor	Fair	Poor
	Cracking					
	Seepage					
	Overtopping Indications					
Slope Protection:	Type	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation
	Location	Outboard	Outboard	Outboard	Inboard - Outboard	Inboard - Outboard
	Extent	0	0	0	0	0
	Condition	Poor	Poor	Poor	Fair	Poor
	Wave Erosion	Intense	Intense	Intense		Intense
	Undercutting					
Condition of Slope Protection:	Soil Type					
	Type	Grass - brush	Grass - brush	Grass - brush	Grass - brush	Grass - brush
	Extent	Outboard slope - Inboard slope	Outboard slope - Inboard slope	Outboard slope - Inboard slope	Outboard slope - Inboard slope	Outboard slope - Inboard slope
	Degree	Denser	Denser	Denser	Thick	Thick
Evaluation:	Levee Use	Unpaved - Author Vehicle Ungraded - Upgrade Need	Unpaved - Author Vehicle Ungraded - Upgrade Need	Unpaved - Author Vehicle Ungraded - Upgrade Need	Paved	Unpaved - Author Vehicle Ungraded - Upgrade Need
	Very Good					
	Adequate	0	0	0	0	0
Poor	0	0	0	0	0	

**APPENDIX B**  
**USACE 1984 LEVEE SURVEY SUMMARY**  
 South Bay Salt Pond Restoration Project  
 San Francisco Bay Area, CA

General:	Complex	Ravenswood	Ravenswood	Ravenswood	Ravenswood	Ravenswood
	Pond	R3	R4	R4	R4	R4
	Orientation	W - SW	E	N	S - SE	W
	Reach ID	25	25	25	25	25
	Segment	25.4	25.6	25.6	25.4	25.1
	County	San Mateo County	San Mateo County	San Mateo County	San Mateo County	San Mateo County
	Survey By					RPY
	Date of Inspection	1/23/1985			1/23/1985	1/23/1985
	Ownership	Leslie Salt Co.	Leslie Salt Co.	Leslie Salt Co.	Leslie Salt Co.	San Mateo County
	Method	Ground	Ground	Ground	Ground	Ground
	Levee Segment					
	Station From					
	Station To					
	Levee Type	Int.	Bay Shore (some) - Slough Creek (most)	Bay Shore (some) - Slough Creek (most)	Int.	Slough/Creek
	Total Length	0	0	0	0	0
	Length Good	0	0	0	0	0
	Length Fair	0	0	0	0	5750
Length Poor	3500	19000	19000	3500	0	
Function	Sect #3 with soft inboard salt pond levee	Salt ponds and sewage plant & sanitary landfill	Salt ponds and sewage plant & sanitary landfill	Sect #3 with soft inboard salt pond levee	No protection, surrounds landfill (for future dev.)	
Alignment:	Crest Width	0	0	0	0	0
	Crest Condition	Poor	Poor	Poor	Poor	Fair
	Crest Elevation	0.0	0.0	0.0	0.0	0.0
	Crest Datum					
	Side Slope Degrees					
	Slope Conditon	Poor	Poor	Poor	Poor	Poor
Evidence of Failures:	Toe Condition	Poor	Poor	Poor	Poor	Poor
	Cracking					
	Seepage					
	Overtopping Indications					
Slope Protection:	Type	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation
	Location	Inboard - Outboard	Outboard	Outboard	Inboard - Outboard	Inboard - Outboard
	Extent	0	0	0	0	0
	Condition	Poor	Poor	Poor	Poor	Poor
	Wave Erosion	Intense	Intense	Intense	Intense	Slight
	Undercutting					
Condition of Slope Protection:	Soil Type					
	Type	Grass - brush	Grass - brush	Grass - brush	Grass - brush	Grass - brush
	Extent	Outboard slope - Inboard slope	Outboard slope - Inboard slope	Outboard slope - Inboard slope	Outboard slope - Inboard slope	Outboard slope
	Degree	Thick	Denser	Denser	Thick	Light
Evaluation:	Levee Use	Unpaved - Author Vehicle Ungraded - Upgrade Need	Unpaved - Author Vehicle Ungraded - Upgrade Need	Unpaved - Author Vehicle Ungraded - Upgrade Need	Unpaved - Author Vehicle Ungraded - Upgrade Need	Unpaved - Author Vehicle Upgrade Need
	Very Good					
	Adequate	0	0	0	0	0
Poor	0	0	0	0	0	



**APPENDIX B**  
**USACE 1984 LEVEE SURVEY SUMMARY**  
 South Bay Salt Pond Restoration Project  
 San Francisco Bay Area, CA

General:	Complex	Ravenswood	Ravenswood	Ravenswood	Ravenswood	Ravenswood
	Pond	R5	R5	R5	S5	S5
	Orientation	N	SW	W	NE	SW
	Reach ID	25	25	25	25	25
	Segment	25.1	25.1	25.1	25.4	25.2
	County	San Mateo County	San Mateo County	San Mateo County	San Mateo County	San Mateo County
	Survey By	RPY	RPY	RPY		
	Date of Inspection	1/23/1985	1/23/1985	1/23/1985	1/23/1985	1/23/1985
	Ownership	San Mateo County	San Mateo County	San Mateo County	Leslie Salt Co.	
	Method	Ground	Ground	Ground	Ground	Ground
	Levee Segment					
	Station From					
	Station To					
	Levee Type	Slough/Creek	Slough/Creek	Slough/Creek	Int.	Int.
	Total Length	0	0	0	0	0
	Length Good	0	0	0	0	0
	Length Fair	5750	5750	5750	0	8000
Length Poor	0	0	0	3500	0	
Function	No protection, surrounds landfill (for future dev.)	No protection, surrounds landfill (for future dev.)	No protection, surrounds landfill (for future dev.)	Sect #3 with soft inboard salt pond levee	Adjacent to industry along freeway	
Alignment:	Crest Width	0	0	0	0	0
	Crest Condition	Fair	Fair	Fair	Poor	Good
	Crest Elevation	0.0	0.0	0.0	0.0	0.0
	Crest Datum					
	Side Slope Degrees					
	Slope Condition	Poor	Poor	Poor	Poor	Fair
Evidence of Failures:	Toe Condition	Poor	Poor	Poor	Poor	Fair
	Cracking					
	Seepage					
	Overtopping					
Slope Protection:	Indications					
	Type	Vegetation	Vegetation	Vegetation	Vegetation	Vegetation
	Location	Inboard - Outboard	Inboard - Outboard	Inboard - Outboard	Inboard - Outboard	Inboard - Outboard
	Extent	0	0	0	0	0
	Condition	Poor	Poor	Poor	Poor	Fair
	Wave Erosion	Slight	Slight	Slight	Intense	
	Undercutting					
Condition of Slope Protection:	Soil Type					
	Type	Grass - brush	Grass - brush	Grass - brush	Grass - brush	Grass - brush
	Extent	Outboard slope	Outboard slope	Outboard slope	Outboard slope - Inboard slope	Outboard slope - Inboard slope
	Degree	Light	Light	Light	Thick	Thick
	Levee Use	Unpaved - Author Vehicle Upgrade Need	Unpaved - Author Vehicle Upgrade Need	Unpaved - Author Vehicle Upgrade Need	Unpaved - Author Vehicle Ungraded - Upgrade Need	Paved
Evaluation:	Very Good					
	Adequate	0	0	0	0	0
	Poor	0	0	0	0	0

**APPENDIX B**  
**USACE 1984 LEVEE SURVEY SUMMARY**  
 South Bay Salt Pond Restoration Project  
 San Francisco Bay Area, CA

General:	Complex	Ravenswood	Ravenswood	Ravenswood	Ravenswood
	Pond	S5	SF2	SF2	SF2
	Orientation	W	NE	SE	SW
	Reach ID	25	24	24	24
	Segment	25.1	24.6	24.6	24.6
	County	San Mateo County	San Mateo County	San Mateo County	San Mateo County
	Survey By	RPY	RPY	RPY	RPY
	Date of Inspection	1/23/1985	2/1/1985	2/1/1985	2/1/1985
	Ownership	San Mateo County	SPT Co.	SPT Co.	SPT Co.
	Method	Ground	Ground	Ground	Ground
	Levee Segment				
	Station From				
	Station To				
	Levee Type	Slough/Creek	Int.	Int.	Int.
	Total Length	0	0	0	0
	Length Good	0	0	0	0
	Length Fair	5750	5000	5000	5000
Length Poor	0	0	0	0	
Function	No protection, surrounds landfill (for future dev.)	RR embankment btwn salt ponds and developed areas	RR embankment btwn salt ponds and developed areas	RR embankment btwn salt ponds and developed areas	
Alignment:	Crest Width	0	0	0	0
	Crest Condition	Fair	Good	Good	Good
	Crest Elevation	0.0	0.0	0.0	0.0
	Crest Datum				
	Side Slope Degrees				
	Slope Conditon	Poor	Fair	Fair	Fair
	Toe Condition	Poor	Fair	Fair	Fair
Evidence of Failures:	Cracking				
	Seepage				
	Overtopping				
	Indications				
Slope Protection:	Type	Vegetation	Vegetation	Vegetation	Vegetation
	Location	Inboard - Outboard	Inboard - Outboard	Inboard - Outboard	Inboard - Outboard
	Extent	0	0	0	0
	Condition	Poor	Fair	Fair	Fair
	Wave Erosion	Slight			
	Undercutting				
Condition of Slope Protection:	Type	Grass - brush	Grass - brush	Grass - brush	Grass - brush
	Extent	Outboard slope			
	Degree	Light	Light	Light	Light
	Levee Use	Unpaved - Author Vehicle Upgrade Need			
Evaluation:	Very Good				
	Adequate	0	0	0	0
	Poor	0	0	0	0

## **APPENDIX C**

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# **MOFFAT & NICHOL ENGINEERS 2004 LEVEE SURVEY SUMMARY**

**APPENDIX C**  
**MOFFAT AND NICHOL LEVEE SURVEY SUMMARY**  
 South Bay Salt Ponds Restoration Project  
 San Francisco Bay Area, CA

Date	Latitude	Longitude	Complex	Pond	Orientatio	Station from	Station to	Crest Width (ft)	Crest Condition	Pond Side Crest Height (ft)	Pond Side Slope Erosion	Pond Side Toe Condition	Land Side Crest Height (ft)	Land Side Slope Erosion	Land Side Toe Condition	Levee Material	Seepage
12/16/2003	37.434790	-122.085840	Alviso	A1	S												
12/16/2003	37.435060	-122.096830	Alviso	A1	S	6+00	10+00	16	paved	8	none	pond	16	none		clay	none
12/16/2003	37.435510	-122.092160	Alviso	A1	S	15+00	44+00	25	paved; Bay Trail	upper: 13; lower: 3	none	opnd	none, landfill	none, landfill	none, landfill	clay	none
12/16/2003	37.435840	-122.098690	Alviso	A1	W			16	paved	6	none	pond	13	none	pond	clay	none
11/20/2003	37.427529	-121.975382	Alviso	A12	E	North of Catherine St.	between Gold & State/Liberty		storm drain crosses here								
11/20/2003	37.429240	-121.980614	Alviso	A12	E	0+00											
11/20/2003	37.429621	-121.978502	Alviso	A12	E	8+00											
11/20/2003	37.432484	-121.970246	Alviso	A12	E		State & Pacific (N End)										
11/20/2003	37.432839	-121.966698	Alviso	A16	S	State at Spreckels	83+00		asphalt road		minimal						
11/20/2003	37.478225	-121.973122	Alviso	A22	W-S	0+00	13+00	15	3/8"-gravel	3	heavy (wind wave)	5 degrees to ditch	3	minimal	tidal slough at toe	Sandy Silt	none
11/20/2003	37.480591	-121.970668	Alviso	A22	N-W	13+00	25+00	20	3/8"-gravel	3	minimal	5 degrees, barren	2	minimal	ditch at toe	Sandy Silt	none
11/20/2003	37.481539	-121.969094	Alviso	A22	W-C	25+00	31+00	16	3/8"-gravel	3	moderate to heavy	Silty Sand, 5 degrees to ditch	3	minimal	ditch at toe	Sandy Silt	none
11/20/2003	37.482444	-121.965620	Alviso	A22	N-C												
11/20/2003	37.482461	-121.966869	Alviso	A22	N-C	32+00	45+00	15	3/8"-gravel	3	heavy	5 degrees to ditch	3	moderate w/6' scary	ditch at toe	no signs	
11/20/2003	37.484911	-121.964388	Alviso	A22	W-N	54+00	63+00			3							

**APPENDIX C**  
**MOFFAT AND NICHOL LEVEE SURVEY SUMMARY**  
 South Bay Salt Ponds Restoration Project  
 San Francisco Bay Area, CA

Date	Latitude	Longitude	Complex	Pond	Orientatio	Station from	Station to	Crest Width (ft)	Crest Condition	Pond Side Crest Height (ft)	Pond Side Slope Erosion	Pond Side Toe Condition	Land Side Crest Height (ft)	Land Side Slope Erosion	Land Side Toe Condition	Levee Material	Seepage
11/20/2003	37.487528	-121.964382	Alviso	A22	W-N	64+00	78+00	12	grasses	4	minimal	12' wide bench	5	minimal	ditch at toe	probable Bay Mud	none
11/20/2003	37.487784	-121.959286	Alviso	A22	N												
12/16/2003	37.434030	-122.063770	Alviso	A2E	S-W	0+00	17+00	35	clay, slick, low, cast-up	3	none	pickleweed, 10' wide, 20:1 slope (cast up from pond slope)	5	none	ponded	clay, slick, low, cast-up	none
12/16/2003	37.434310	-122.053260	Alviso	A2E	S-E			15	slick, clay	3	moderate	pond	4	none	mudflat	clay	none
12/16/2003	37.434600	-122.058380	Alviso	A2E	S-C	17+00	new station line	12	slick, clay	3	active	2' vertical to water	4	none visible	dessicated mud	clay	none
12/16/2003	37.435570	-122.076150	Alviso	A2W	S	0+00	37+00	30	paved upper, gravel lower	14	lower slope eroding	pond	landfill	landfill	landfill	clay/some debris	none
12/16/2003	37.435680	-122.071250	Alviso	A2W	S	38+00	48+00	30 at lower bench	gravel lower	bench: 2; berm: 5	active	pond	4	none	none/marsh	clay	none
12/16/2003	37.427300	-122.040050	Alviso	A3W	S	94+00	110+00	25	trail, compacted clay	4' scarp	active	pond	6	none/some	drainage channel	clay	
12/16/2003	37.427400	-122.044340	Alviso	A3W	S												
12/16/2003	37.427560	-122.042660	Alviso	A3W	S	70+00	94+00	30	trail, compacted clay	3	near vertical	pond at toe	5	none	2' vertical to water	clay	
12/16/2003	37.431670	-122.030530	Alviso	A3W	E			10	gravel	6.5	none - significant burrowing	20' to waterline, mudflat	4	riprap (concrete debris)	oxidation pond	unknown	

**APPENDIX C**  
**MOFFAT AND NICHOL LEVEE SURVEY SUMMARY**  
 South Bay Salt Ponds Restoration Project  
 San Francisco Bay Area, CA

Date	Latitude	Longitude	Complex	Pond	Orientatio	Station from	Station to	Crest Width (ft)	Crest Condition	Pond Side Crest Height (ft)	Pond Side Slope Erosion	Pond Side Toe Condition	Land Side Crest Height (ft)	Land Side Slope Erosion	Land Side Toe Condition	Levee Material	Seepage
11/20/2003	37.417048	-121.987065	Alviso	A8Ss	S	Pond #85	pe St. at San Tomas										
12/16/2003	37.488130	-122.142690	Ravenswood	R3	E-N-S			20'+berm 8' wide x 1' high	trail	4	active	12' wide mudflat to channel	4	none		clay	none
12/16/2003	37.482660	-122.160760	Ravenswood	R3	S-W			>50' (~55' to trail)		3	moderate	mudflat to channel, 20:1 slope	n/a	n/a	n/a	clay	none
12/16/2003	37.484150	-122.165980	Ravenswood	S5	NE			45	grass	2	active	mudflat, 20:1, 25' wide	2	moderate	mudflat (dried pond)	clay	none
12/16/2003	37.485400	-122.171950	Ravenswood	S5	S			berm, 1' high + 16' wide levee		3	severe, near vertical	salt pan/flat	crest, 4' water to bench	mild	F.C. channel	clay	none

**APPENDIX D**

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**CARGILL 1995 to 2005  
MAINTENANCE SUMMARY**

**APPENDIX D**  
**CARGILL LEVEE MAINTENANCE SUMMARY**  
 South Bay Salt Ponds Restoration Project  
 San Francisco Bay Area, CA

Unit	Pond	Location on Levee	Type of repair	Issue	Year	Size (l.f.)	Size (c.y.)
Eden's Landing	A1	N/A	Grading	N/A	1995-1996		
Eden's Landing	A4-A18	N/A	Grading	N/A	1995-1996		
Eden's Landing	A7	N/A	Dredge	Sediment	1995-1996		
Eden's Landing	A5	Majority of the levee system	Grading	Build up	1995-1996	25,400	
Eden's Landing	A6	Inside	Maintain rip rap	Erosion	1995-1996	2,700	3500
Eden's Landing	A6	Outside	Grading	Build up	1995-1996	2,700	
Eden's Landing	A7	N/A	Discing	N/A	1995-1996		
Eden's Landing	A7	Majority of the levee system	Grading	Build up	1995-1996	16,500	
Eden's Landing	A8	Majority of the levee system	Grading	Build up	1995-1996	11,500	
Eden's Landing	A8	Inside	Grading	Build up	1995-1996		100
Eden's Landing	A8	Majority of the levee system	Construct new lock	N/A	1995-1996		2000
Eden's Landing	A9 - A12	Outside	Maintain rip rap	Erosion	1995-1996	3	21
Eden's Landing	A10	Inside	Grading	Build up	1995-1996	500	
Eden's Landing	A11	Inside	Grading	Build up	1995-1996		150
Eden's Landing	A12	Inside	Grading	Build up	1995-1996		150
Eden's Landing	A12	Spots along levee	Grading	Erosion	1995-1996	500	
Eden's Landing	A13	Spots along levee	Grading	Erosion	1995-1996	500	
Eden's Landing	A15	Spots along levee	Grading	Erosion	1995-1996	200	
Eden's Landing	A16	N/A	Maintain rip rap	Erosion	1995-1996	150	180
Eden's Landing	A22	N/A	Grading	N/A	1995-1996		
Eden's Landing	A23	N/A	Grading	N/A	1995-1996		
Eden's Landing	A2E	N/A	Discing	N/A	1995-1996		
Eden's Landing	A2E	N/A	Grading	N/A	1995-1996		
Eden's Landing	A2W	N/A	Grading	N/A	1995-1996		
Eden's Landing	A3N	N/A	Discing	N/A	1995-1996		
Eden's Landing	A3N	Outside	Maintain rip rap	Erosion	1995-1996	200	250



**APPENDIX D**  
**CARGILL LEVEE MAINTENANCE SUMMARY**  
 South Bay Salt Ponds Restoration Project  
 San Francisco Bay Area, CA

Unit	Pond	Location on Levee	Type of repair	Issue	Year	Size (l.f.)	Size (c.y.)
Eden's Landing	A3N	N/A	Grading	N/A	1995-1996		
Eden's Landing	A3W	Outside	Grading	N/A	1995-1996		
Eden's Landing	A3W	N/A	Grading	Build up	1995-1996	2500	
Eden's Landing	A3W	N/A	Grading	N/A	1995-1996		
Eden's Landing	B1	N/A	Discing	N/A	1995-1996		
Eden's Landing	B1	N/A	Maintain rip rap	Erosion	1995-1996	150	180
Eden's Landing	B1	N/A	Grading	N/A	1995-1996		
Eden's Landing	B2	N/A	Discing	N/A	1995-1996		
Eden's Landing	B2	N/A	Grading	N/A	1995-1996		
Eden's Landing	1-14	N/A	Grading	N/A	1995-1996		
Eden's Landing	2	Outside	Dredge	N/A	1995-1996		
Eden's Landing	1	N/A	Grading	N/A	1995-1996	1800	
Eden's Landing	1	N/A	Levee Construction	Marsh Mitigation	1995-1996	2400	
Eden's Landing	1	Inside	Maintain rip rap	Erosion	1995-1996	25	30
Eden's Landing	2	?Inside?	Grading	Marsh Mitigation	1995-1996		
Eden's Landing	2	Outside	Maintain rip rap	Erosion	1995-1996	1150	1380
Eden's Landing	7	Inside	Grading	Build up	1995-1996		55
Eden's Landing	10	Outside	Maintain rip rap	Erosion	1995-1996	500	600
Eden's Landing	10	Inside	Grading	Build up	1995-1996		50
Eden's Landing	6A	N/A	Grading	N/A	1995-1996		
Eden's Landing	6A	Inside	Maintain rip rap		1995-1996	300	360
Eden's Landing	8A	N/A	Grading	N/A	1995-1996		
Eden's Landing	6B	N/A	Grading	N/A	1995-1996		
Eden's Landing	1C - 5C	N/A	Grading	N/A	1995-1996		

**APPENDIX D**  
**CARGILL LEVEE MAINTENANCE SUMMARY**  
 South Bay Salt Ponds Restoration Project  
 San Francisco Bay Area, CA

Unit	Pond	Location on Levee	Type of repair	Issue	Year	Size (l.f.)	Size (c.y.)
Eden's Landing	1C	N/A	Dredge	N/A	1995-1996		400
Eden's Landing	3C	Inside	Maintain rip rap	Erosion	1995-1996	40	50
Eden's Landing	5C	Inside	Maintain rip rap	Erosion	1995-1996	1500	1700
Eden's Landing	6C	N/A	Grading	N/A	1995-1996		
Eden's Landing	1-14, 1C-5C, 6A, 6B, 6C, & 8A	N/A	Grading	N/A	1996-1997		
Eden's Landing	1	Inside	Maintain rip rap	Erosion	1996-1997	270	325
Eden's Landing	7	N/A	Discing	N/A	1996-1997		
Eden's Landing	10	?Outside?	Grading	Build up	1996-1997	700	
Eden's Landing	10	Outside	Maintain rip rap	Erosion	1996-1997	192	230
Eden's Landing	1-2, 4-8, 10-12, 14, 6A, 6B, 1C-6C	N/A	Grading	N/A	1997-1998		
Eden's Landing	1	Mitigation levee	Grading	Build up	1997-1998		
Eden's Landing	1	N/A	Discing	N/A	1997-1998		
Eden's Landing	1	Inside	Maintain rip rap	Erosion	1997-1998	1170	585
Eden's Landing	2	N/A	Maintain rip rap	Erosion	1997-1998	225	45
Eden's Landing	2	N/A	Discing	N/A	1997-1998		
Eden's Landing	3C	Inside	Maintain rip rap	Erosion	1997-1998	60	70
Eden's Landing	5C	N/A	Grading	Build up	1997-1998	3200	
Eden's Landing	5C	Inside	Maintain rip rap	Erosion	1997-1998	340	400
Eden's Landing	6A	Outside	Maintain rip rap	Erosion	1997-1998	30	60
Eden's Landing	10	N/A	Discing	N/A	1997-1998		
Eden's Landing	10	N/A	Grading	Build up	1997-1998	600	900
Eden's Landing	1	Inside	Grading	Erosion	1997-1998*	250	300
Eden's Landing	1	cross levee	Maintain rip rap	Erosion	1997-1998*	200	1000
Eden's Landing	1C	N/A	Grading	Settlement	1997-1998*	1500	

**APPENDIX D**  
**CARGILL LEVEE MAINTENANCE SUMMARY**  
 South Bay Salt Ponds Restoration Project  
 San Francisco Bay Area, CA

Unit	Pond	Location on Levee	Type of repair	Issue	Year	Size (l.f.)	Size (c.y.)
Eden's Landing	1C	Inside	Grading	Settlement	1997-1998*	1500	
Eden's Landing	1C	Inside	Maintain rip rap	Erosion	1997-1998*	1500	1000
Eden's Landing	2	Inside	Maintain rip rap	Erosion	1997-1998*	1500	850
Eden's Landing	5C	N/A	Maintain rip rap	Erosion	1997-1998*	1500	1000
Eden's Landing	6A	N/A	Grading	Build up	1997-1998*		300
Eden's Landing	6A	Inside	Maintain rip rap	Erosion	1997-1998*	1000	550
Eden's Landing	6A	cross levee	Grading	Build up	1997-1998*	4200	
Eden's Landing	6B	N/A	Grading	Build up	1997-1998*	1700	
Eden's Landing	1-14, 1C-5C, 6A, 6B, 6C, & 8A	N/A	Grading	N/A	1998-1999		
Eden's Landing	1	Mitigation levee	Grading	Build up	1998-1999		
Eden's Landing	1	Inside	Maintain rip rap	Erosion	1998-1999	1280	225
Eden's Landing	2	N/A	Maintain rip rap	Erosion	1998-1999	215	250
Eden's Landing	2	Inside	Maintain rip rap	Erosion	1998-1999	420	70
Eden's Landing	1C, 2C	?cross levee?	Grading	Settlement	1998-1999		10
Eden's Landing	3C	Inside	Maintain rip rap	Erosion	1998-1999	60	70
Eden's Landing	5C	N/A	Grading	Build up	1998-1999	3200	
Eden's Landing	5C	Inside	Maintain rip rap	Erosion	1998-1999	485	60
Eden's Landing	6A	N/A	Grading	Build up			
Eden's Landing	6A	Inside	Maintain rip rap	Erosion	1998-1999	2150	955
Eden's Landing	10	N/A	Maintain rip rap	Erosion	1998-1999	235	155
Eden's Landing	10	N/A	Grading	?Erosion?	1998-1999*		85
Eden's Landing	8	N/A	Grading	?Erosion?	1998-1999*		10
Eden's Landing	8	N/A	Maintain rip rap	Erosion	1998-1999*	30	10
Eden's Landing	1C	Inside	Maintain rip rap	Erosion	1998-1999*	975	165

**APPENDIX D**  
**CARGILL LEVEE MAINTENANCE SUMMARY**  
 South Bay Salt Ponds Restoration Project  
 San Francisco Bay Area, CA

Unit	Pond	Location on Levee	Type of repair	Issue	Year	Size (l.f.)	Size (c.y.)
Eden's Landing	1-14, 1C-5C, 6A, 6B, 6C, & 8A	N/A	Grading	N/A	1999-2000		
Eden's Landing	1	Mitigation levee	Grading	Build up	1999-2000	2200	
Eden's Landing	1	N/A	Grading	Build up	1999-2000	1200	
Eden's Landing	1	Inside	Grading	Erosion	1999-2000	250	300
Eden's Landing	1	cross levee	Grading	Build up	1999-2000	5400	
Eden's Landing	1	cross levee	Grading	Build up	1999-2000	1200	
Eden's Landing	1	cross levee	Maintain rip rap	Erosion	1999-2000	800	450
Eden's Landing	1C	Inside	Grading	Settlement	1999-2000	1500	
Eden's Landing	1C	N/A	Grading	Settlement	1999-2000	1500	
Eden's Landing	1C	N/A	Grading	N/A	1999-2000	80	30
Eden's Landing	1C, 2C	N/A	Grading	Settlement	1999-2000		10
Eden's Landing	2	N/A	Maintain rip rap	Erosion	1999-2000	500	150
Eden's Landing	2	cross levee	Grading	Build up	1999-2000	10200	
Eden's Landing	2	N/A	Grading	Build up	1999-2000		
Eden's Landing	2	Inside	Maintain rip rap	Erosion	1999-2000	1000	500
Eden's Landing	2	N/A	Grading	Build up	1999-2000	1200	
Eden's Landing	2	N/A	Piles and sheet piles placed	Erosion	1999-2000	500	
Eden's Landing	2	?Outside?	Grading	Build up	1999-2000	17000	
Eden's Landing	3C	Inside	Maintain rip rap	Erosion	1999-2000	60	70
Eden's Landing	4	cross levee	Grading	Build up	1999-2000	2750	
Eden's Landing	5	cross levee	Grading	Build up	1999-2000	3250	
Eden's Landing	5C	N/A	Grading	Build up	1999-2000	3200	
Eden's Landing	6	cross levee	Grading	Build up	1999-2000	3225	
Eden's Landing	6A	cross levee	Grading	Build up	1999-2000	4200	

**APPENDIX D**  
**CARGILL LEVEE MAINTENANCE SUMMARY**  
 South Bay Salt Ponds Restoration Project  
 San Francisco Bay Area, CA

Unit	Pond	Location on Levee	Type of repair	Issue	Year	Size (l.f.)	Size (c.y.)
Eden's Landing	6B	N/A	Grading	Build up	1999-2000	1700	
Eden's Landing	7	cross levee	Grading	Build up	1999-2000	2400	
Eden's Landing	8	Inside	Maintain rip rap	Erosion	1999-2000	24	25
Eden's Landing	9	Inside	Grading	Build up	1999-2000	800	
Eden's Landing	9	Inside	Maintain rip rap	Erosion	1999-2000	70	115
Eden's Landing	10	N/A	Maintain rip rap	Erosion	1999-2000	20	30
Eden's Landing	12	Inside	Maintain rip rap	Erosion	1999-2000	120	205
Eden's Landing	12	Inside	Grading	Build up	1999-2000	1500	
Eden's Landing	1-14, 1C-5C, 6A, 6B, 6C, & 8A	N/A	Grading	N/A	2000-2001		
Eden's Landing	1	Inside	Grading	Erosion	2000-2001	250	300
Eden's Landing	1C	Inside	Grading	Settlement	2000-2001	1500	
Eden's Landing	1C	N/A	Grading	Settlement	2000-2001	1500	
Eden's Landing	1C	N/A	Grading	N/A	2000-2001	80	30
Eden's Landing	1C, 2C	N/A	Grading	Settlement	2000-2001		10
Eden's Landing	3C	Inside	Maintain rip rap	Erosion	2000-2001	60	70
Eden's Landing	5	cross levee	Maintain rip rap	Erosion	2000-2001	40	50
Eden's Landing	5C	N/A	Grading	Build up	2000-2001	3200	
Eden's Landing	6A	cross levee	Grading	Build up	2000-2001	4200	
Eden's Landing	6B	N/A	Grading	Build up	2000-2001	1700	
Eden's Landing	9	xinside cross levee	Maintain rip rap	Erosion	2000-2001	250	300
Eden's Landing	9	Inside	Grading	Build up	2000-2001	800	
Eden's Landing	10	N/A	Maintain rip rap	Erosion	2000-2001	250	300
Eden's Landing	12	Inside	Grading	Build up	2000-2001	1500	

**APPENDIX D**  
**CARGILL LEVEE MAINTENANCE SUMMARY**  
 South Bay Salt Ponds Restoration Project  
 San Francisco Bay Area, CA

Unit	Pond	Location on Levee	Type of repair	Issue	Year	Size (l.f.)	Size (c.y.)
Eden's Landing	1-14, 1C-5C, 6A, 6B, 6C, & 8A	N/A	Grading	N/A	2001-2002		
Eden's Landing	1	Inside	Grading	Erosion	2001-2002	250	300
Eden's Landing	1C	Inside	Grading	Settlement	2001-2002	1500	
Eden's Landing	1C	N/A	Grading	Settlement	2001-2002	1500	
Eden's Landing	1C	N/A	Grading		2001-2002	80	30
Eden's Landing	1C, 2C	N/A	Grading	Settlement	2001-2002		10
Eden's Landing	3C	Inside	Maintain rip rap	Erosion	2001-2002	60	70
Eden's Landing	5	xinside cross levee	Maintain rip rap	Erosion	2001-2002	40	50
Eden's Landing	5C	N/A	Grading	Build up	2001-2002	3200	
Eden's Landing	6A	cross levee	Grading	Build up	2001-2002	4200	
Eden's Landing	6B	N/A	Grading	Build up	2001-2002	1700	
Eden's Landing	8A	cross levee	Levee Construction	N/A	2001-2002	3500	62000
Eden's Landing	9	xinside cross levee	Maintain rip rap	Erosion	2001-2002	250	300
Eden's Landing	9	Inside	Grading	Build up	2001-2002	800	
Eden's Landing	10	N/A	Dredge	N/A	2001-2002		
Eden's Landing	10	N/A	Levee Construction	N/A	2001-2002	5474	85200
Eden's Landing	10	N/A	Maintain rip rap	Erosion	2001-2002	250	300
Eden's Landing	12	Inside	Grading	Build up	2001-202	1500	
Eden's Landing	1-14, 1C-5C, 6A, 6B, 6C, & 8A	N/A	Grading	N/A	2002-2003		
Eden's Landing	1	Inside	Grading	Erosion	2002-2003	250	300
Eden's Landing	1C	Inside	Grading	Settlement	2002-2003	1500	
Eden's Landing	1C	N/A	Grading	Settlement	2002-2003	1500	
Eden's Landing	1C		Dredge	Sediment	2002-2003	2400	100
Eden's Landing	1C, 2C	N/A	Grading	Settlement	2002-2003		10

**APPENDIX D**  
**CARGILL LEVEE MAINTENANCE SUMMARY**  
 South Bay Salt Ponds Restoration Project  
 San Francisco Bay Area, CA

Unit	Pond	Location on Levee	Type of repair	Issue	Year	Size (l.f.)	Size (c.y.)
Eden's Landing	3C	Inside	Maintain rip rap	Erosion	2002-2003	60	70
Eden's Landing	4	cross levee	Grading	Build up	2002-2003	2300	
Eden's Landing	5	?Inside?	Grading	Build up	2002-2003	2000	
Eden's Landing	5	cross levee	Maintain rip rap	Erosion	2002-2003	40	50
Eden's Landing	5C	N/A	Grading	Build up	2002-2003	3200	
Eden's Landing	6	?Inside?	Grading	Build up	2002-2003	2500	
Eden's Landing	6A	cross levee	Grading	Build up	2002-2003	4200	
Eden's Landing	6B	N/A	Grading	Build up	2002-2003	1700	
Eden's Landing	7	cross levee	Grading	Build up	2002-2003	3400	
Eden's Landing	8A	N/A	Levee Construction	N/A	2002-2003	3500	96000
Eden's Landing	8A	New Levee	Levee Construction	N/A	2002-2003		
Eden's Landing	9	cross levee	Maintain rip rap	Erosion	2002-2003		
Eden's Landing	9	Inside	Grading	Build up	2002-2003		
Eden's Landing	10	N/A	Dredge	Sediment	2002-2003		
Eden's Landing	10	New Levee	Levee Construction	N/A	2002-2003	5474	85200
Eden's Landing	10	N/A	Maintain rip rap	Erosion	2002-2003	250	300
Eden's Landing	12	Inside	Grading	Build up	2002-2003	1500	
Eden's Landing	1-14, 1C-5C, 6A, 6B, 6C, & 8A	N/A	Grading	N/A	2003-2004		
Eden's Landing	1	Inside	Grading	Erosion	2003-2004	250	300
Eden's Landing	1C	Inside	Grading	Settlement	2003-2004	1500	
Eden's Landing	1C	N/A	Grading	Settlement	2003-2004	1500	
Eden's Landing	1C	N/A	Dredge	Sediment	2003-2004	2400	100
Eden's Landing	2	N/A	Maintain rip rap	Erosion	2003-2004	500	1000
Eden's Landing	2	Inside	Maintain rip rap	Erosion	2003-2004	500	750
Eden's Landing	1C, 2C	N/A	Grading	Settlement	2003-2004		10

**APPENDIX D**  
**CARGILL LEVEE MAINTENANCE SUMMARY**  
 South Bay Salt Ponds Restoration Project  
 San Francisco Bay Area, CA

Unit	Pond	Location on Levee	Type of repair	Issue	Year	Size (l.f.)	Size (c.y.)
Eden's Landing	3C	Inside	Maintain rip rap	Erosion	2003-2004	60	70
Eden's Landing	5	cross levee	Maintain rip rap	Erosion	2003-2004	40	50
Eden's Landing	5C	levee berm	Grading	Build up	2003-2004	3200	
Eden's Landing	8	Inside	Maintain rip rap	Erosion	2003-2004	100	200
Eden's Landing	8X	N/A	Grading	N/A	2003-2004	12	
Eden's Landing	9	Inside	Grading	Build up	2003-2004	800	
Eden's Landing	10	N/A	Maintain rip rap	Erosion	2003-2004	250	300
Eden's Landing	12	N/A	Grading	Build up	2003-2004	up to 1500	1500
Eden's Landing	13	cross levee	Grading	Settlement	2003-2004	750	
Eden's Landing	14	N/A	Grading	Build up	2003-2004	up to 2000	2000
Eden's Landing	1-14, 1C-5C, 6A, 6B, 6C, & 8A	N/A	Grading	N/A	2004-2005		
Eden's Landing	1	Inside	Grading	Erosion	2004-2005	250	300
Eden's Landing	1C	N/A	Dredge	Sediment	2004-2005	2400	100
Eden's Landing	2	N/A	Maintain rip rap	Erosion	2004-2005	500	1000
Eden's Landing	2	Inside	Maintain rip rap	Erosion	2004-2005	500	750
Eden's Landing	1C, 2C	N/A	Grading	Settlement	2004-2005		10
Eden's Landing	3C	Inside	Maintain rip rap	Erosion	2004-2005	60	70
Eden's Landing	5	cross levee	Maintain rip rap	Erosion	2004-2005	40	50
Eden's Landing	8	Inside	Maintain rip rap	Erosion	2004-2005	100	200
Eden's Landing	8X	cross levee	Grading	N/A	2004-2005	12	
Eden's Landing	10	N/A	Maintain rip rap	Erosion	2004-2005	250	300
Alviso	A1	N/A	Grading	N/A	1995-1996		
Alviso	A4-A18	N/A	Grading	N/A	1995-1996		
Alviso	A7	N/A	Dredge	Sediment	1995-1996		



**APPENDIX D**  
**CARGILL LEVEE MAINTENANCE SUMMARY**  
 South Bay Salt Ponds Restoration Project  
 San Francisco Bay Area, CA

Unit	Pond	Location on Levee	Type of repair	Issue	Year	Size (l.f.)	Size (c.y.)
Alviso	A5	Majority of the levee system	Grading	Build up	1995-1996	25400	
Alviso	A6	Inside	Maintain rip rap	Erosion	1995-1996	2700	3500
Alviso	A6	Outside	Grading	Build up	1995-1996	2700	
Alviso	A7	N/A	Discing	N/A	1995-1996		
Alviso	A7	Majority of the levee system	Grading	Build up	1995-1996	16500	
Alviso	A8	Majority of the levee system	Grading	Build up	1995-1996	11500	
Alviso	A8	Inside	Grading	Build up	1995-1996		100
Alviso	A8	Majority of the levee system	Construct new lock	N/A	1995-1996		2000
Alviso	A9 - A12	Outside	Maintain rip rap	Erosion	1995-1996	2.5	21
Alviso	A10	Inside	Grading	Build up	1995-1996	500	
Alviso	A11	Inside	Grading	Build up	1995-1996		150
Alviso	A12	Inside	Grading	Build up	1995-1996		150
Alviso	A12	Spots along levee	Grading	Erosion	1995-1996	500	
Alviso	A13	Spots along levee	Grading	Erosion	1995-1996	500	
Alviso	A15	Spots along levee	Grading	Erosion	1995-1996	200	
Alviso	A16	N/A	Maintain rip rap	Erosion	1995-1996	150	180
Alviso	A22	N/A	Grading	N/A	1995-1996		
Alviso	A23	N/A	Grading	N/A	1995-1996		
Alviso	A2E	N/A	Discing	N/A	1995-1996		
Alviso	A2E	N/A	Grading	N/A	1995-1996		
Alviso	A2W	N/A	Grading	N/A	1995-1996		
Alviso	A3N	N/A	Discing	N/A	1995-1996		
Alviso	A3N	Outside	Maintain rip rap	Erosion	1995-1996	200	250
Alviso	A3N	N/A	Grading	N/A	1995-1996		
Alviso	A3W	Outside	Grading	N/A	1995-1996		

**APPENDIX D**  
**CARGILL LEVEE MAINTENANCE SUMMARY**  
 South Bay Salt Ponds Restoration Project  
 San Francisco Bay Area, CA

Unit	Pond	Location on Levee	Type of repair	Issue	Year	Size (l.f.)	Size (c.y.)
Alviso	A3W	N/A	Grading	Build up	1995-1996	2500	
Alviso	A3W	N/A	Grading	N/A	1995-1996		
Alviso	B1	N/A	Discing	N/A	1995-1996		
Alviso	B1	N/A	Maintain rip rap	Erosion	1995-1996	150	180
Alviso	B1	N/A	Grading	N/A	1995-1996		
Alviso	B2	N/A	Discing	N/A	1995-1996		
Alviso	B2	N/A	Grading	N/A	1995-1996		
Alviso	A1-A23, AS2E, A2W, A3N, A3W, B1-B2	N/A	Grading	N/A	1996-1997		
Alviso	A1	N/A	Grading	Build up	1996-1997	1000	
Alviso	A2E	N/A	Discing	N/A	1996-1997		
Alviso	A2W	N/A	Grading	Build up	1996-1997	500	
Alviso	A2W	Outside	Maintain rip rap	Erosion	1996-1997	21	25
Alviso	A3N	Outside	Grading	Build up	1996-1997	1000	
Alviso	A8	N/A	Grading	Build up	1996-1997	2200	
Alviso	A9	N/A	Grading	Build up	1996-1997	1000	
Alviso	A9	Inside	Maintain rip rap	Build up	1996-1997	70	84
Alviso	A10	N/A	Grading	Build up	1996-1997	750	
Alviso	A10	Inside	Maintain rip rap	Erosion	1996-1997	70	84
Alviso	A11	Inside	Maintain rip rap	Erosion	1996-1997	70	84
Alviso	A16	N/A	Grading	Build up	1996-1997	8500	
Alviso	A16	Inside	Maintain rip rap	Erosion	1996-1997	75	90
Alviso	A17	Majority of the levee system	Grading	sedimentatio	1996-1997	9100	
Alviso	A19	N/A	Construct new lock	N/A	1996-1997		

**APPENDIX D**  
**CARGILL LEVEE MAINTENANCE SUMMARY**  
 South Bay Salt Ponds Restoration Project  
 San Francisco Bay Area, CA

Unit	Pond	Location on Levee	Type of repair	Issue	Year	Size (l.f.)	Size (c.y.)
Alviso	A19	Majority of the levee system	Grading	Build up	1996-1997	12800	
Alviso	A23	N/A	Discing	N/A	1996-1997		
Alviso	A1, A4-A15	N/A	Grading	N/A	1997-1998		
Alviso	A1	N/A	Grading	Build up	1997-1998	1500	
Alviso	A2W	N/A	Grading	Settlement	1997-1998		
Alviso	A2W	N/A	Discing	N/A	1997-1998		
Alviso	A2W	N/A	Discing	N/A	1997-1998		
Alviso	A3W	Inside	Maintain rip rap	Erosion	1997-1998	10	12
Alviso	A3W	N/A	Grading	Build up	1997-1998	2500	
Alviso	A8	N/A	Grading	Build up	1997-1998	2200	
Alviso	A9	N/A	Discing	N/A	1997-1998		
Alviso	A10	N/A	Discing	N/A	1997-1998		
Alviso	A11	Inside	Maintain rip rap	Erosion	1997-1998	70	84
Alviso	A11, A12	N/A	Grading	Build up	1997-1998		150
Alviso	A12	Top	Discing	N/A	1997-1998		
Alviso	A12	N/A	Grading	Erosion	1997-1998	500	
Alviso	A13	Inside	Grading	Erosion	1997-1998	500	
Alviso	A15	Inside	Grading	Erosion	1997-1998	200	
Alviso	A16	Majority of the levee system	Grading	Build up	1997-1998	16800	
Alviso	A17	Majority of the levee system	Grading	Build up	1997-1998	10700	
Alviso	A17	N/A	Grading	Build up	1997-1998	250	
Alviso	A23	N/A	Discing	N/A	1997-1998		
Alviso	A23	N/A	Grading	Settlement	1997-1998	3000	
Alviso	B1	N/A	Discing	N/A	1997-1998		
Alviso	A3W	Inside	Maintain rip rap	Erosion	1997-1998*	100	150
Alviso	A5	Inside	Maintain rip rap	Erosion	1997-1998*	200	

**APPENDIX D**  
**CARGILL LEVEE MAINTENANCE SUMMARY**  
 South Bay Salt Ponds Restoration Project  
 San Francisco Bay Area, CA

Unit	Pond	Location on Levee	Type of repair	Issue	Year	Size (l.f.)	Size (c.y.)
Alviso	A5	Road	Grading	Settlement	1997-1998*	200	
Alviso	A5	N/A	Grading	Settlement	1997-1998*	200	
Alviso	A7	N/A	Discing	N/A	1997-1998*		
Alviso	A10	N/A	Grading	Build up	1997-1998*	3100	
Alviso	A12	Inside	Maintain rip rap	Erosion	1997-1998*	465	285
Alviso	A12	Inside	Maintain rip rap	Erosion	1997-1998*	333	220
Alviso	A13	Inside	Maintain rip rap	Erosion	1997-1998*	333	220
Alviso	A13	N/A	Maintain rip rap	Erosion	1997-1998*	270	55
Alviso	A15	Inside	Maintain rip rap	Erosion	1997-1998*	330	65
Alviso	A15	Inside	Maintain rip rap	Erosion	1997-1998*	330	220
Alviso	A18	Majority of the levee system	Grading	Build up	1997-1998*	14200	
Alviso	A22	N/A	Grading	Erosion	1997-1998*	80	100
Alviso	A22	Inside	Grading	Build up	1997-1998*	1000	
Alviso	A22	Inside	Maintain rip rap	Erosion	1997-1998*	700	125
Alviso	A23	N/A	Grading	Erosion	1997-1998*	50	80
Alviso	B-1	N/A	Maintain rip rap	Erosion	1997-1998*	200	150
Alviso	A1-A23, A2E, A2W, A3N, A3W, B1-B2	N/A	Grading	N/A	1998-1999		
Alviso	A1	N/A	Grading	Build up	1998-1999	1500	
Alviso	A1	N/A	Grading	N/A	1998-1999	300	
Alviso	A2W	N/A	Grading	Settlement	1998-1999		
Alviso	A3W	Inside	Maintain rip rap	Erosion	1998-1999	230	45
Alviso	A3W	N/A	Grading	Build	1998-1999	2500	
Alviso	A7	N/A	Grading	Settlement	1998-1999	400	
Alviso	A8	N/A	Grading	Build up	1998-1999	2200	

**APPENDIX D**  
**CARGILL LEVEE MAINTENANCE SUMMARY**  
 South Bay Salt Ponds Restoration Project  
 San Francisco Bay Area, CA

Unit	Pond	Location on Levee	Type of repair	Issue	Year	Size (l.f.)	Size (c.y.)
Alviso	A10	N/A	Grading	Erosion	1998-1999	750	
Alviso	A11	Inside	Maintain rip rap	Erosion	1998-1999	70	84
Alviso	A11, A12	N/A	Grading	Build up	1998-1999		150
Alviso	A12	N/A	Grading	Erosion	1998-1999	612	
Alviso	A12	Inside	Maintain rip rap	Erosion	1998-1999	125	150
Alviso	A13	Inside	Grading	Erosion	1998-1999	1010	
Alviso	A15	Inside	Grading	Erosion	1998-1999	547	
Alviso	A16	N/A	Discing	N/A	1998-1999		
Alviso	A17	N/A	Discing	N/A	1998-1999		
Alviso	A17	Spots along levee	Grading	Build up	1998-1999	650	
Alviso	A18	Majority of the levee system	Grading	Build up	1998-1999	14200	
Alviso	A18	N/A	Grading	Build up	1998-1999	13300	
Alviso	A19	Spots along levee	Grading	Build up	1998-1999	12800	
Alviso	A23	N/A	Grading	Settlement	1998-1999	3000	
Alviso	A23	N/A	Discing	N/A	1998-1999		
Alviso	A2W	N/A	Maintain rip rap	Erosion	1998-1999*	120	80
Alviso	A2W	Inside	Maintain rip rap	Erosion	1998-1999*	265	130
Alviso	A3N	N/A	Maintain rip rap	Erosion	1998-1999*	40	15
Alviso	B1	N/A	Maintain rip rap	Erosion	1998-1999*	155	135
Alviso	A5	N/A	Maintain rip rap	Erosion	1998-1999*	840	350
Alviso	A5	N/A	Grading	Build up	1998-1999*		100
Alviso	A7	N/A	Grading	Build up	1998-1999*		200
Alviso	A10	N/A	Grading	Levee Repair	1998-1999*	1500	
Alviso	A11	N/A	Grading	Levee Repair	1998-1999*	1800	

**APPENDIX D**  
**CARGILL LEVEE MAINTENANCE SUMMARY**  
 South Bay Salt Ponds Restoration Project  
 San Francisco Bay Area, CA

Unit	Pond	Location on Levee	Type of repair	Issue	Year	Size (l.f.)	Size (c.y.)
Alviso	A1-A23, A2E, A2W, A3N, A3W, B1-B2	N/A	Grading	N/A	1999-2000		
Alviso	A1	Top	Grading	Build up	1999-2000	1500	
Alviso	A1	Cross levee	Grading	N/A	1999-2000	300	
Alviso	A2W	Spots along levee	Grading	Settlement	1999-2000		
Alviso	A2W	N/A	Maintain rip rap	Erosion	1999-2000	100	120
Alviso	A2W	Inside	Maintain rip rap	Erosion	1999-2000	500	300
Alviso	A3W	N/A	Grading	Build up	1999-2000	2500	
Alviso	A3N	N/A	Grading	Build up	1999-2000	1500	
Alviso	A5	N/A	Grading	settlement	1999-2000	1000	
Alviso	A7	N/A	Grading	N/A	1999-2000		
Alviso	A8	N/A	Grading	Build up	1999-2000	2200	
Alviso	A8	Top	Grading	Build up	1999-2000		
Alviso	A12	N/A	Grading	Erosion	1999-2000	500	
Alviso	A12	Inside	Maintain rip rap	Erosion	1999-2000	500	300
Alviso	A13	Inside	Grading	Erosion	1999-2000	500	
Alviso	A13	Inside	Maintain rip rap	Erosion	1999-2000	333	220
Alviso	A15	N/A	Grading	Build up	1999-2000		200
Alviso	A15	Inside	Grading	Erosion	1999-2000	200	
Alviso	A15	Inside	Maintain rip rap	Erosion	1999-2000	330	65
Alviso	A16	N/A	Grading	N/A	1999-2000	3000	160
Alviso	A17	N/A	Discing	N/A	1999-2000		
Alviso	A22	N/A	Grading	Erosion	1999-2000	800	
Alviso	A22	Cross levee	Grading	Build up	1999-2000	2500	
Alviso	A22	Inside	Maintain rip rap	Erosion	1999-2000	700	125

**APPENDIX D**  
**CARGILL LEVEE MAINTENANCE SUMMARY**  
 South Bay Salt Ponds Restoration Project  
 San Francisco Bay Area, CA

Unit	Pond	Location on Levee	Type of repair	Issue	Year	Size (l.f.)	Size (c.y.)
Alviso	A23	N/A	Discing	N/A	1999-2000		
Alviso	B1	N/A	Maintain rip rap	Erosion	1999-2000	100	120
Alviso	B1	Cross levee	Discing	N/A	1999-2000		
Alviso	B2	Cross levee	Discing	N/A	1999-2000		
Alviso	A1-A23, A2E, A2W, A3N, A3W, B1-B2	N/A	Grading	N/A	2000-2001		
Alviso	A1	N/A	Grading	Build up	2000-2001	1500	
Alviso	A1	Cross levee	Grading	N/A	2000-2001	300	
Alviso	A2W	Spots along levee	Grading	Settlement	2000-2001		
Alviso	A2W	N/A	Maintain rip rap	Erosion	2000-2001	42	35
Alviso	A2W	Inside	Maintain rip rap	Erosion	2000-2001	500	300
Alviso	A3W	N/A	Grading	Build up	2000-2001	2500	
Alviso	A3N	N/A	Grading	Build up	2000-2001	580	
Alviso	A7	N/A	Discing	N/A	2000-2001		
Alviso	A8	N/A	Grading	Build up	2000-2001	2200	
Alviso	A8	Road	Grading	Build up	2000-2001		
Alviso	A10	N/A	Discing	N/A	2000-2001		
Alviso	A13	Inside	Grading	Erosion	2000-2001	500	
Alviso	A13	Inside	Maintain rip rap	Erosion	2000-2001	12	19
Alviso	A15	N/A	Grading	N/A	2000-2001		200
Alviso	A15	Inside	Grading	Erosion	2000-2001	200	
Alviso	A15	Inside	Maintain rip rap	Erosion	2000-2001	330	65
Alviso	A16	N/A	Grading	Build up	2000-2001	3000	160
Alviso	A16	N/A	Grading	N/A	2000-2001		

**APPENDIX D**  
**CARGILL LEVEE MAINTENANCE SUMMARY**  
 South Bay Salt Ponds Restoration Project  
 San Francisco Bay Area, CA

Unit	Pond	Location on Levee	Type of repair	Issue	Year	Size (l.f.)	Size (c.y.)
Alviso	A1-A23, A2E, A2W, A3N, A3W, B1-B2	N/A	Grading	N/A	2001-2002		
Alviso	A1	N/A	Grading	Build up	2001-2002	1500	
Alviso	A2W	N/A	Grading	Settlement	2001-2002		
Alviso	A2W	N/A	Maintain rip rap	Erosion	2001-2002	100	120
Alviso	A2W	Inside	Maintain rip rap	Erosion	2001-2002	500	300
Alviso	A7	N/A	Discing	N/A	2001-2002		
Alviso	A8	N/A	Grading	Build up	2001-2002	2200	
Alviso	A8	Road	Grading	Build up	2001-2002		
Alviso	A10	Outside	Grading	Erosion	2001-2002	750	
Alviso	A13	Inside	Grading	Erosion	2001-2002	500	
Alviso	A13	Inside	Maintain rip rap	Erosion	2001-2002	333	220
Alviso	A15	N/A	Grading	N/A	2001-2002		200
Alviso	A15	Inside	Grading	Erosion	2001-2002	200	
Alviso	A15	Inside	Maintain rip rap	Erosion	2001-2002	330	65
Alviso	A16	Road	Grading	Build up	2001-2002	3000	160
Alviso	A16	Road	Grading	N/A	2001-2002		
Alviso	A17	N/A	Grading	N/A	2001-2002		
Alviso	A22	Cross levee	Grading	Build up	2001-2002	2500	
Alviso	A22	Inside	Maintain rip rap	Erosion	2001-2002	700	125
Alviso	A23	N/A	Discing	N/A	2001-2002		
Alviso	B1	Outside	Grading	Build up	2001-2002	3000	
Alviso	B1	N/A	Maintain rip rap	Erosion	2001-2002	100	120
Alviso	B1	Cross levee	Discing	N/A	2001-2002		
Alviso	B2	Cross levee	Discing	N/A	2001-2002		



**APPENDIX D**  
**CARGILL LEVEE MAINTENANCE SUMMARY**  
 South Bay Salt Ponds Restoration Project  
 San Francisco Bay Area, CA

Unit	Pond	Location on Levee	Type of repair	Issue	Year	Size (l.f.)	Size (c.y.)
Alviso	A1-A23, A2E, A2W, A3N, A3W, B1-B2	N/A	Grading	N/A	2002-2003		
Alviso	A1	N/A	Grading	Build up	2002-2003	1500	
Alviso	A2W	N/A	Grading	Erosion	2002-2003	200	240
Alviso	A2W	N/A	Maintain rip rap	Erosion	2002-2003	100	120
Alviso	A2W	Inside	Maintain rip rap	Erosion	2002-2003	500	300
Alviso	A7	N/A	Discing	N/A	2002-2003		
Alviso	A8	N/A	Grading	Build up	2002-2003	2200	
Alviso	A8	Road	Grading	N/A	2002-2003	2000	
Alviso	A10	Cross levee	Grading	Build up	2002-2003	2600	
Alviso	A10	Outside	Grading	Erosion	2002-2003	750	
Alviso	A13	Inside	Grading	Erosion	2002-2003	500	
Alviso	A13	Inside	Maintain rip rap	Erosion	2002-2003	333	220
Alviso	A15	N/A	Grading	N/A	2002-2003		220
Alviso	A15	Inside	Grading	Erosion	2002-2003	200	
Alviso	A15	Inside	Maintain rip rap	Erosion	2002-2003	330	65
Alviso	A16	Road	Grading	N/A	2002-2003	3000	160
Alviso	A16	N/A	Grading	N/A	2002-2003		
Alviso	A17	Top	Grading	N/A	2002-2003		
Alviso	A22	Cross levee	Grading	Build up	2002-2003	2500	
Alviso	A22	Inside	Maintain rip rap	Erosion	2002-2003	700	125
Alviso	A23	N/A	Discing	N/A	2002-2003		
Alviso	B1	Outside	Grading	Build up	2002-2003	3000	
Alviso	B1	N/A	Maintain rip rap	Erosion	2002-2003	100	120
Alviso	B1	Cross levee	Discing	N/A	2002-2003		

**APPENDIX D**  
**CARGILL LEVEE MAINTENANCE SUMMARY**  
 South Bay Salt Ponds Restoration Project  
 San Francisco Bay Area, CA

Unit	Pond	Location on Levee	Type of repair	Issue	Year	Size (l.f.)	Size (c.y.)
Alviso	B2	Cross levee	Discing	N/A	2002-2003		
Alviso	A1-A23, A2E, A2W, A3N, A3W, B1-B2	N/A	Grading	N/A	2003-2004		
Alviso	A2W	Spots along levee	Grading	Settlement	2003-2004	200	240
Alviso	A2W	N/A	Maintain rip rap	Erosion	2003-2004	100	120
Alviso	A2W	Inside	Maintain rip rap	Erosion	2003-2004	1000	900
Alviso	A3W	N/A	Grading	Build up	2003-2004	1500	
Alviso	A3W	Inside	Grading	Erosion	2003-2004	1000	
Alviso	A8	N/A	Grading	Build up	2003-2004	2200	
Alviso	A8	Road	Grading	Build up	2003-2004	2000	
Alviso	A9	Cross levee	Grading	Build up	2003-2004	4600	
Alviso	A9	Cross levee	Grading	Build up	2003-2004	3400	
Alviso	A10	Outside	Grading	Erosion	2003-2004	750	
Alviso	A10	Cross levee	Grading	Build up	2003-2004	31000	
Alviso	A10	N/A	Grading	Erosion	2003-2004	1500	
Alviso	A11	Cross levee	Grading	Build up	2003-2004	11000	
Alviso	A11	Cross levee	Grading	Build up	2003-2004	1400	
Alviso	A12	Cross levee	Grading	Build up	2003-2004	3400	
Alviso	A12	?Inside?	Grading	Erosion	2003-2004	2300	
Alviso	A13	Inside	Grading	Erosion	2003-2004	500	
Alviso	A13	Cross levee	Grading	Build up	2003-2004	2600	
Alviso	A13	?Inside?	Grading	Erosion	2003-2004	3200	
Alviso	A13	Cross levee	Grading	Build up	2003-2004	4200	
Alviso	A13	Inside	Maintain rip rap	Erosion	2003-2004	333	220
Alviso	A14	Cross levee	Grading	Build up	2003-2004	5000	

**APPENDIX D**  
**CARGILL LEVEE MAINTENANCE SUMMARY**  
 South Bay Salt Ponds Restoration Project  
 San Francisco Bay Area, CA

Unit	Pond	Location on Levee	Type of repair	Issue	Year	Size (l.f.)	Size (c.y.)
Alviso	A15	N/A	Grading	build up	2003-2004		200
Alviso	A15	Inside	Grading	Erosion	2003-2004	200	
Alviso	A15	?Inside?	Grading	Erosion	2003-2004	2400	
Alviso	A15	Inside	Maintain rip rap	Erosion	2003-2004	330	65
Alviso	A16	Road	Grading	build up	2003-2004	3000	160
Alviso	A16	N/A	Grading	N/A	2003-2004		
Alviso	A17	N/A	Grading	N/A	2003-2004		
Alviso	A22	Cross levee	Grading	Build up	2003-2004	2500	
Alviso	A22	Inside	Maintain rip rap	Erosion	2003-2004	700	125
Alviso	B1	Top	Grading	Build up	2003-2004	3000	
Alviso	B1	N/A	Maintain rip rap	Erosion	2003-2004	100	120
Alviso	B1	Cross levee	Discing	N/A	2003-2004		
Alviso	B2	Cross levee	Discing	N/A	2003-2004		
Alviso	A1-A23, A2E, A2W, A3N, A3W, B1-B2	N/A	Grading	N/A	2004-2005		
Alviso	A2W	Inside	Maintain rip rap	Erosion	2004-2005	1000	900
Alviso	A9	Cross levee	Grading	Build up	2004-2005	4600	
Alviso	A9	Cross levee	Grading	Build up	2004-2005	3400	
Alviso	A9	N/A	Grading	Build up	2004-2005	3000	
Alviso	A10	Outside	Grading	Erosion	2004-2005	750	
Alviso	A10	Cross levee	Grading	Build up	2004-2005	31000	
Alviso	N/A	Inside	Grading	Erosion	2004-2005	1500	
Alviso	A10	N/A	Grading	Erosion	2004-2005	4000	
Alviso	A11	Cross levee	Grading	Build up	2004-2005	11000	
Alviso	A11	Cross levee	Grading	Build up	2004-2005	1400	

**APPENDIX D**  
**CARGILL LEVEE MAINTENANCE SUMMARY**  
 South Bay Salt Ponds Restoration Project  
 San Francisco Bay Area, CA

Unit	Pond	Location on Levee	Type of repair	Issue	Year	Size (l.f.)	Size (c.y.)
Alviso	A11	N/A	Grading	Erosion	2004-2005	3000	
Alviso	A12	Cross levee	Grading	Build up	2004-2005	3400	
Alviso	A12	?Inside?	Grading	Erosion	2004-2005	2300	
Alviso	A13	Inside	Grading	Erosion	2004-2005	500	
Alviso	A13	Cross levee	Grading	Build up	2004-2005	2600	
Alviso	A13	N/A	Grading	Erosion	2004-2005	3200	
Alviso	A13	Cross levee	Grading	Build up	2004-2005	4200	
Alviso	A14	Cross levee	Grading	Build up	2004-2005	5000	
Alviso	A15	Inside	Grading	Erosion	2004-2005	200	
Alviso	A15	Inside	Grading	Erosion	2004-2005	2400	
Alviso	A15	Inside	Maintain rip rap	Erosion	2004-2005	330	65
Alviso	A16	N/A	Grading	N/A	2004-2005		
Alviso	A17	N/A	Grading	N/A	2004-2005		
Alviso	A22	Cross levee	Grading	Repair	2004-2005	2500	
Alviso	A22	Inside	Maintain rip rap	Erosion	2004-2005	700	125
Alviso	B1	?Outside?	Grading	Build up	2004-2005	3000	
Alviso	B1	N/A	Maintain rip rap	Erosion	2004-2005	100	120
Ravenswood	R1	N/A	Grading	Build up	1995-1996		
Ravenswood	R2	N/A	Grading	Build up	1995-1996		
Ravenswood	R3	N/A	Grading	Build up	1995-1996		
Ravenswood	R4	N/A	Grading	Build up	1995-1996		
Ravenswood	R5	N/A	Grading	Build up	1995-1996		
Ravenswood	R1	N/A	Grading	Build up	1995-1996	10000	
Ravenswood	R1	Outside	Riprap	Erosion	1995-1996	800	960
Ravenswood	R1	Inside	Grading	Build up	1995-1996		120
Ravenswood	R1	N/A	Grading	Build up	1995-1996		

**APPENDIX D**  
**CARGILL LEVEE MAINTENANCE SUMMARY**  
 South Bay Salt Ponds Restoration Project  
 San Francisco Bay Area, CA

Unit	Pond	Location on Levee	Type of repair	Issue	Year	Size (l.f.)	Size (c.y.)
Ravenswood	R2	N/A	Grading	Build up	1995-1996		
Ravenswood	R4	Outside	Riprap	Erosion	1995-1996	30	40
Ravenswood	R4	Inside	Grading	Build up	1995-1996		90
Ravenswood	SF2	Inside	Riprap	Erosion	1995-1996	100	120
Ravenswood	SF2	N/A	Grading	Build up	1995-1996		
Ravenswood	S5	N/A	Grading	Build up	1995-1996		
Ravenswood	S5	N/A	Grading	Build up	1995-1996		240
Ravenswood	R1	N/A	Grading	Build up	1996-1997		
Ravenswood	R4	N/A	Grading	Build up	1996-1997		
Ravenswood	R1	N/A	Grading	Build up	1996-1997	5000	
Ravenswood	R1	Outside	Riprap	Erosion	1996-1997	400	500
Ravenswood	R1	N/A	Grading	Build up	1996-1997		
Ravenswood	R1	N/A	Grading	Build up	1996-1997	210	
Ravenswood	R4	N/A	Grading	Build up	1996-1997		
Ravenswood	R4	N/A	Grading	Build up	1996-1997	2000	
Ravenswood	R1	N/A	Grading	Build up	1997-1998		
Ravenswood	R2	N/A	Grading	Build up	1997-1998		
Ravenswood	R3	N/A	Grading	Build up	1997-1998		
Ravenswood	R4	N/A	Grading	Build up	1997-1998		
Ravenswood	R5	N/A	Grading	Build up	1997-1998		
Ravenswood	S5	N/A	Grading	Build up	1997-1998		
Ravenswood	SF2	N/A	Grading	Build up	1997-1998		
Ravenswood	R1	N/A	Grading	Build up	1997-1998		210
Ravenswood	R2	N/A	Grading	Build up	1997-1998		210
Ravenswood	R4	N/A	Grading	Build up	1997-1998		210
Ravenswood	S5	N/A	Grading	Build up	1997-1998		210

**APPENDIX D**  
**CARGILL LEVEE MAINTENANCE SUMMARY**  
 South Bay Salt Ponds Restoration Project  
 San Francisco Bay Area, CA

Unit	Pond	Location on Levee	Type of repair	Issue	Year	Size (l.f.)	Size (c.y.)
Ravenswood	R1	N/A	Discing	N/A	1997-1998		
Ravenswood	R1	N/A	Grading	Build up	1997-1998	1900	
Ravenswood	R1	N/A	Grading	Build up	1997-1998	900	
Ravenswood	R1	Outside	Riprap	Erosion	1997-1998	400	500
Ravenswood	R2	Inside	Riprap	Erosion	1997-1998	25	30
Ravenswood	S5	N/A	Grading	Build up	1997-1998	2800	
Ravenswood	S5	N/A	Grading	Build up	1997-1998	1300	
Ravenswood	SF2	N/A	Grading	Build up	1997-1998	2800	
Ravenswood	SF2	Inside	Riprap	Erosion	1997-1998	100	120
Ravenswood	R2	N/A	Grading	Build up	1997-1998		
Ravenswood	R4	Outside	Riprap	Erosion	1997-1998	20	35
Ravenswood	R4	N/A	Riprap	Erosion	1997-1998	100	160
Ravenswood	R1	N/A	Grading	Build up	1998-1999		
Ravenswood	R2	N/A	Grading	Build up	1998-1999		
Ravenswood	R3	N/A	Grading	Build up	1998-1999		
Ravenswood	R4	N/A	Grading	Build up	1998-1999		
Ravenswood	R5	N/A	Grading	Build up	1998-1999		
Ravenswood	SF2	N/A	Grading	Build up	1998-1999		
Ravenswood	R1	N/A	Grading	Build up	1998-1999		180
Ravenswood	R2	N/A	Grading	Build up	1998-1999		180
Ravenswood	R1	N/A	Discing	N/A	1998-1999		
Ravenswood	R1	N/A	Grading	Build up	1998-1999	1020	
Ravenswood	R1	N/A	Grading	Build up	1998-1999	615	
Ravenswood	R1	N/A	Riprap	Erosion	1998-1999	2268	1295
Ravenswood	R1	N/A	Grading	Build up	1998-1999	6800	
Ravenswood	R2	Inside	Riprap	Erosion	1998-1999	25	30

**APPENDIX D**  
**CARGILL LEVEE MAINTENANCE SUMMARY**  
 South Bay Salt Ponds Restoration Project  
 San Francisco Bay Area, CA

Unit	Pond	Location on Levee	Type of repair	Issue	Year	Size (l.f.)	Size (c.y.)
Ravenswood	R3	N/A	Grading	Build up	1998-1999	14800	
Ravenswood	R4	N/A	Grading	Build up	1998-1999	9400	
Ravenswood	R5	N/A	Grading	Build up	1998-1999	3400	
Ravenswood	S5	N/A	Grading	Build up	1998-1999	4000	
Ravenswood	SF2	N/A	Grading	Build up	1998-1999	5000	
Ravenswood	SF2	Inside	Riprap	Erosion	1998-1999	100	120
Ravenswood	R2	N/A	Grading	Build up	1998-1999	3450	
Ravenswood	R3	N/A	Grading	Build up	1998-1999	1758	
Ravenswood	R5	N/A	Grading	Build up	1998-1999	639	
Ravenswood	S5	N/A	Grading	Build up	1998-1999	531	
Ravenswood	R1	N/A	Grading	Build up	1999-2000		
Ravenswood	R2	N/A	Grading	Build up	1999-2000		
Ravenswood	R3	N/A	Grading	Build up	1999-2000		
Ravenswood	R4	N/A	Grading	Build up	1999-2000		
Ravenswood	R5	N/A	Grading	Build up	1999-2000		
Ravenswood	SF2	N/A	Grading	Build up	1999-2000		
Ravenswood	R1	N/A	Discing	N/A	1999-2000		
Ravenswood	R1	N/A	Riprap	Erosion	1999-2000	2270	1300
Ravenswood	R1	N/A	Grading	Build up	1999-2000	6800	
Ravenswood	R3	N/A	Grading	Build up	1999-2000	14800	
Ravenswood	R4	N/A	Grading	Build up	1999-2000	9400	
Ravenswood	R5	N/A	Grading	Build up	1999-2000	3400	
Ravenswood	S5	N/A	Grading	Build up	1999-2000	4000	
Ravenswood	SF2	N/A	Discing	N/A	1999-2000		
Ravenswood	SF2	N/A	Dreging	Sediment	1999-2000	800	
Ravenswood	SF2	Inside	Riprap	Erosion	1999-2000	100	120

**APPENDIX D**  
**CARGILL LEVEE MAINTENANCE SUMMARY**  
 South Bay Salt Ponds Restoration Project  
 San Francisco Bay Area, CA

Unit	Pond	Location on Levee	Type of repair	Issue	Year	Size (l.f.)	Size (c.y.)
Ravenswood	R1	N/A	Grading	Build up	2000-2001		
Ravenswood	R2	N/A	Grading	Build up	2000-2001		
Ravenswood	R3	N/A	Grading	Build up	2000-2001		
Ravenswood	R4	N/A	Grading	Build up	2000-2001		
Ravenswood	R5	N/A	Grading	Build up	2000-2001		
Ravenswood	SF2	N/A	Grading	Build up	2000-2001		
Ravenswood	R1	N/A	Discing	N/A	2000-2001		
Ravenswood	R1	N/A	Riprap	Erosion	2000-2001	2270	1300
Ravenswood	R4	N/A	Riprap	Erosion	2000-2001		
Ravenswood	R4	N/A	Discing	N/A	2000-2001		
Ravenswood	R5	N/A	Discing	N/A	2000-2001		
Ravenswood	S5	N/A	Discing	N/A	2000-2001		
Ravenswood	SF2	N/A	Dreging	Sediment	2000-2001		800
Ravenswood	SF2	Inside	Riprap	Erosion	2000-2001	100	120
Ravenswood	R1	N/A	Grading	Build up	2001-2002		
Ravenswood	R2	N/A	Grading	Build up	2001-2002		
Ravenswood	R3	N/A	Grading	Build up	2001-2002		
Ravenswood	R4	N/A	Grading	Build up	2001-2002		
Ravenswood	R5	N/A	Grading	Build up	2001-2002		
Ravenswood	SF2	N/A	Grading	Build up	2001-2002		
Ravenswood	R1	N/A	Riprap	Erosion	2001-2002	2270	1300
Ravenswood	R2	N/A	Grading	Build up	2001-2002		130
Ravenswood	R3	N/A	Grading	Build up	2001-2002		
Ravenswood	R4	N/A	Discing	N/A	2001-2002		
Ravenswood	R4	N/A	Riprap	Erosion	2001-2002	100	120
Ravenswood	R5	N/A	Discing	N/A	2001-2002		



**APPENDIX D**  
**CARGILL LEVEE MAINTENANCE SUMMARY**  
 South Bay Salt Ponds Restoration Project  
 San Francisco Bay Area, CA

Unit	Pond	Location on Levee	Type of repair	Issue	Year	Size (l.f.)	Size (c.y.)
Ravenswood	R5	N/A	Grading	Build up	2001-2002		
Ravenswood	S5	N/A	Discing	N/A	2001-2002		
Ravenswood	S5	N/A	Grading	Build up	2001-2002		
Ravenswood	SF2	Inside	Riprap	Erosion	2001-2002	100	120
Ravenswood	R1	N/A	Grading	Build up	2002-2003		
Ravenswood	R2	N/A	Grading	Build up	2002-2003		
Ravenswood	R3	N/A	Grading	Build up	2002-2003		
Ravenswood	R4	N/A	Grading	Build up	2002-2003		
Ravenswood	R5	N/A	Grading	Build up	2002-2003		
Ravenswood	SF2	N/A	Grading	Build up	2002-2003		
Ravenswood	R1	N/A	Riprap	Erosion	2002-2003	2270	1300
Ravenswood	R4	N/A	Discing	N/A	2002-2003		
Ravenswood	R4	N/A	Riprap	Erosion	2002-2003	100	120
Ravenswood	R5	N/A	Discing	N/A	2002-2003		
Ravenswood	S5	N/A	Levee Construction	Marsh Mitigation	2002-2003	1200	2600
Ravenswood	S5	N/A	Discing	N/A	2002-2003		
Ravenswood	SF2	Inside	Riprap	Erosion	2002-2003	100	120
Ravenswood	R1	N/A	Grading	Build up	2003-2004		
Ravenswood	R2	N/A	Grading	Build up	2003-2004		
Ravenswood	R3	N/A	Grading	Build up	2003-2004		
Ravenswood	R4	N/A	Grading	Build up	2003-2004		
Ravenswood	R5	N/A	Grading	Build up	2003-2004		
Ravenswood	SF2	N/A	Grading	Build up	2003-2004		
Ravenswood	R1	N/A	Grading	Build up	2003-2004		
Ravenswood	R2	N/A	Riprap	Erosion	2003-2004	2270	1300

**APPENDIX D**  
**CARGILL LEVEE MAINTENANCE SUMMARY**  
 South Bay Salt Ponds Restoration Project  
 San Francisco Bay Area, CA

Unit	Pond	Location on Levee	Type of repair	Issue	Year	Size (l.f.)	Size (c.y.)
Ravenswood	R4	N/A	Discing	N/A	2003-2004		
Ravenswood	R4	N/A	Riprap	Erosion	2003-2004	100	120
Ravenswood	R5	N/A	Discing	N/A	2003-2004		
Ravenswood	S5	N/A	Levee Construction	Marsh Mitigation	2003-2004	1200	2600
Ravenswood	S5	N/A	Discing	N/A	2003-2004		
Ravenswood	SF2	Inside	Riprap	Erosion	2003-2004	100	120
Ravenswood	R1	N/A	Grading	Build up	2004-2005		
Ravenswood	R2	N/A	Grading	Build up	2004-2005		
Ravenswood	R3	N/A	Grading	Build up	2004-2005		
Ravenswood	R4	N/A	Grading	Build up	2004-2005		
Ravenswood	R5	N/A	Grading	Build up	2004-2005		
Ravenswood	SF2	N/A	Grading	Build up	2004-2005		
Ravenswood	R1	N/A	Riprap	Erosion	2004-2005	2270	1300
Ravenswood	R4	N/A	Discing	N/A	2004-2005		
Ravenswood	R4	N/A	Riprap	Erosion	2004-2005	100	120
Ravenswood	R5	N/A	Discing	N/A	2004-2005		
Ravenswood	S5	N/A	Discing	N/A	2004-2005		
Ravenswood	SF2	Inside	Riprap	Erosion	2004-2005	100	120