

## **Appendix E**

### **Spoil Dump Sediment Samples**

#### **Summary**

## SPOIL DUMP SEDIMENT SAMPLES - SUMMARY

## 1 NATURAL BEACH SEDIMENTS

Sample Number	Location	Depth m	Analysis Process	d50 mm	Size Classification %			
					clay	silt	sand	gravel
04489/2	SE above b/rock		S	0.900	0	0	97	3
04489/1	SE blowing sand		S	0.600	0	0	100	0
05489/8	SW above b/rock		S	1.150	0	0	91	9
30389/2	pump house	1.08	S	1.050	0	0	96	4
30389/3	pump house	2.89	S	0.980	0	1	87	12
30389/4	pump house	2.47	S	0.640	0	1	97	2
A1A(9/84)	Shark Bay upper		S	0.442	0	0	100	0
A1B(9/84)	Shark Bay upper	0.01	S	0.689	0	0	100	0
A2(9/84)	Shark Bay mid		S	1.271	0	0	98	2
A3(9/84)	Shark Bay lower		S	1.347	0	0	95	5
C/D1A(9/84)	E upper beach		S	0.307	0	0	100	0
C/D1B(9/84)	E upper beach	0.01	S	0.674	0	0	100	0
C/D2(9/84)	E lower beach		S	0.897	0	0	99	1
JY4(1/79)	NE swash deps		S	1.387	0	0	71	29
JY7(1/79)	NE behind shoal		S	0.547	0	0	100	0
E1(9/84)	NE upper beach		S	0.369	0	0	100	0
E2(9/84)	NE lower beach		S	0.647	0	0	99	1
E3(9/84)	NE sand shoal		S	0.683	0	0	100	0
JY6(1/79)	SW above HWM		S	0.536	0	0	100	0
JY5(1/79)	SW above b/rock		S	0.931	0	0	97	3
W1(5/88)	S above b/rock		S	0.750	0	0	100	0
W2(5/88)	S above W1		S	0.560	0	0	100	0
W3(5/88)	S below HWM		S	0.400	0	0	100	0
W4(5/88)	S above HWM		S	0.550	0	0	100	0
W5(5/88)	S upper beach		S	0.560	0	0	100	0
W6(5/88)	S upper(veg)		S	0.460	0	0	100	0
S1(9/84)	W (SD) upper		S	0.293	0	0	100	0
S2(9/84)	W (SD) upper		S	0.586	0	0	98	2
S3A(9/84)	W (SD) HWM		S	3.500	0	0	59	41
S3B(9/84)	W (SD) HWM	0.01	S	2.700	0	0	89	11
S3C(9/84)	W (SD) HWM	0.02	S	1.271	0	0	99	1
S4(9/84)	W (SD) base		S	1.200	0	0	96	4

Number of samples: 32

## 2 SPOIL DUMP

Sample Number	Location	Depth m	Analysis Process	d50 mm	Size Classification %			
					clay	silt	sand	gravel
30389/1	AH 1	0.90	L	0.016	17	76	7	0
03489/1	A2	0.60	S	0.590	0	5	82	13
03489/3	A2	0.10	S/L	0.089	0	32	52	16
05489/2	B0	1.70	S/L	0.020	2	79	19	0
03489/2	B2	0.50	S/L	0.092	1	23	76	0
05489/5	B3	1.40	L	0.010	12	85	3	0
31389/4	C4	0.50	S	0.700	0	2	94	4
31389/1	C4	0.85	S/L	0.230	0	8	82	10
31389/3	C4	1.30	S/L	0.073	1	42	57	0
31389/2	C4	2.00	S/L	0.105	0	21	76	3
31389/5	C4	2.30	S	1.600	0	1	56	43
05489/6	D1	1.00	S/L	0.042	2	68	30	0
30389/6	NPWS core	?	L	0.023	4	84	12	0

Number of samples: 13

S = sieve analysis, L = laser analysis

## SPOIL DUMP SEDIMENT SAMPLES - SUMMARY

## 3 SPOIL DUMP BEACH

Sample Number	Location	Depth m	Analysis Process	d50 mm	Size Classification %			
					clay	silt	sand	gravel
05489/3	near A5		S	0.530	0	1	89	10
05489/4	rubble scarp		S/L	4.600	0	7	21	72
S1(5/88)	near A5		S	0.710	0	1	73	26
S2(5/88)	above rubble		S	3.350	0	0	51	49
S3(5/88)	between rubble		S	0.480	0	0	98	2
S4(5/88)	below rubble		S	1.720	0	0	57	43
S5(5/88)	lower beach		S	>4	0	0	32	68
S6(5/88)	beach step		S	3.930	0	1	49	50
S6A(5/88)	beach step	0.01	S	3.750	0	1	51	48
S7(5/88)	moat edge		S	0.750	0	1	97	2

Number of samples: 10

## 4 SILT PLUME

Sample Number	Location	Depth m	Analysis Process	d50 mm	Size Classification %			
					clay	silt	sand	gravel
05489/1	off SD beach		L	0.013	8	88	4	0
J1(5/89)			L	0.017	4	85	11	0
J2(6/89)			L	0.027	0	81	19	0
J3(7/89)			L	0.030	0	88	12	0

Number of samples: 4

## 5 MOAT AND REEF FLAT, SOUTH OF JETTY

Sample Number	Location	Depth m	Analysis Process	d50 mm	Size Classification %			
					clay	silt	sand	gravel
05489/7	on beach rock		S/L	0.270	0	9	74	17
06489/1	moat		S/L	0.690	0	6	88	6
04489/8	near pile 8		S/L	0.065	1	43	54	2
P1(12/89)	SE SD base		S	0.950	0	1	90	9
P2(12/89)	then extending		S	1.290	0	1	82	17
P3(12/89)	out across moat		S	0.750	0	1	98	1
P4(12/89)	from spoil dump		S	0.730	0	1	96	3
P5(12/89)			S	0.660	0	1	97	2
P6(12/89)			S	0.760	0	0	96	4
P7(12/89)			S	0.840	0	0	95	5
P8(12/89)			S	0.620	0	1	98	1
P9(12/89)			S	0.660	0	1	94	5
P10(12/89)			S	0.610	0	1	97	2
Q1(12/89)	near pile 8		S	0.104	0	8	92	0
Q2(12/89)	then extending		S	0.360	0	7	93	0
Q3(12/89)	out from spoil		S	0.650	0	2	95	3
Q4(12/89)	dump parallel		S	0.320	0	5	89	6
Q5(12/89)	to jetty		S	0.530	0	2	96	2
Q6(12/89)			S	0.380	0	4	95	1
Q7(12/89)			S	0.540	0	3	96	1
Q8(12/89)			S	0.660	0	0	80	20
Q9(12/89)			S	0.620	0	0	95	5
Q10(12/89)			S	0.620	0	1	98	1

Number of samples: 23

S = sieve analysis, L = laser analysis

# SPOIL DUMP SEDIMENT SAMPLES - SUMMARY

## 6 BEACH AND FLAT BEHIND BOAT HARBOUR, NORTH OF JETTY

Sample Number	Location	Depth m	Analysis Process	d50 mm	Size Classification %			
					clay	silt	sand	gravel
04489/3	near pile 7		S/L	0.430	0	33	46	21
04489/7	near pile 7		L	0.045	5	62	33	0
04489/5	below helipad		S	1.300	0	2	78	21
04489/4	below helipad		S/L	0.610	0	5	72	23
R1(12/89)	beach below wall		S	0.670	0	0	98	2
R2(12/89)	then extending		S	0.690	0	2	83	15
R3(12/89)	along line of		S	0.690	0	1	79	20
R4(12/89)	harbour leads		S	0.600	0	0	98	2
R5(12/89)	near fuel post		S	0.124	0	20	76	4

Number of samples: 9

## 7 BOAT HARBOUR

Sample Number	Location	Depth m	Analysis Process	d50 mm	Size Classification %			
					clay	silt	sand	gravel
04489/6	centre basin		S/L	0.280	0	10	87	3
JY3(7/79)	spit swing basin		S	1.013	0	0	91	9
JY2(7/79)	in boat channel		S	1.193	0	0	84	16
JY8(7/79)	near breach		S	1.238	0	0	92	8
Ha1(12/89)	centre basin		S	0.230	0	11	88	1
Ha2(12/89)	NW jetty		S	0.710	0	4	91	5
Ha3(12/89)	then extending		S	0.122	0	21	79	0
Ha4(12/89)	along line of		S	0.300	0	7	93	0
Ha5(12/89)	harbour leads		S	0.091	0	24	76	0
Ha6(12/89)	NW "Protector"		S	0.370	0	2	98	0
Ha7(12/89)	near entrance		S	0.300	0	0	99	1

Number of samples: 11

Total number of samples: 102

S = sieve analysis, L = laser analysis