

ATTACHMENT "B"

PAJARO SUNNY MESA PILOT SEAWATER DESALINATION PLANT
INTAKE AND WASTE STREAM DISCHARGE WATER QUALITY

ANALYTE			DESAL PLANT INTAKE SEAWATER	INTERMITTENT WASTE STREAMS		CONTINUOUS WASTE STREAMS				TOTAL DESAL PLANT DISCHARGE Worst Case	Ocean Plan WQ Objective 6-Month avg./ Daily Max/ Instant Max
				CLEANING SOLUTION #1	CLEANING SOLUTION #2	RO CONCENTRATE	SEDIMENTATION TANK RESIDUALS	PRETREATMENT FILTER BACKWASH	PERMEATE		
GROUP A											
Biochemical Oxygen Demand	SM 5210 B	milligrams/L	<1	490	10	<10	<1	20	<1	5.89	No Limit
COD	EPA 410.4	milligrams/L	98	2800	440	<100	50	91	<5	75.49	No Limit
Total Organic Carbon	SM 5310 C	milligrams/L	1.2	1300	25	0.7	0.5	1.3	1.3	1.73	No Limit
Total Suspended Solids	EPA 160.2	milligrams/L	30	5	5	<5	240	130	0.01	55.0	60
Ammonia (as N)	SM 4500 NH3	milligrams/L	0.10	0.10	0.14	0.12	0.10	0.10	0.10	0.10	0.6/2.4/6.0
pH	SM 4500 H B	pH units	7.80	7.28	7.06	7.49	7.80	7.63	7.90	7.73	6 to 9
GROUP B											
Bromide	EPA 300.0	milligrams/L	67	44	52	120	67	53	0.7	62.23	No Limit
Boron	EPA 200.8	milligrams/L	4.2	3.5	3.2	7.6	4.2	3.8	0.9	4.16	No Limit
Color	EPA 110.2	color units	3	3	3	3	3	3	3	3.00	No Limit
Coliforms, fecal	SM 9221 E	MPN/100ml	2	2	2	<2	<2	130	0	2.00	<1,000
Fluoride	EPA 300.0	milligrams/L	2.0	0.5	0.5	2.1	2.0	<0.5	0.5	1.49	No Limit
Nitrate (as N)	EPA 300.0	milligrams/L	0.5	0.5	0.5	<0.5	<0.5	<0.5	<0.5	0.50	No Limit
Oil and Grease	EPA 1664	milligrams/L	1.0	5.0	5.0	<5	<5	<5	0.0	2.60	25/40/75
Phosphorus (as P) Total	EPA 365.3	milligrams/L	0.05	0.05	0.05	<0.05	0.30	0.44	0.00	0.12	No Limit
Radioactivity											
Gross Beta	EPA 900.0	picocuries/L	202	320	271	765	202	601	0	334	No Limit
Total Alpha Radium (226)		picocuries/L	0.194	0.314	0.052	0.128	0.194	0.212	0.000	0.145	No Limit
Radium 228		picocuries/L	NA	NA	NA	NA	NA	NA	NA	NA	No Limit
Sulfate	EPA 300.0	milligrams/L	2700	1700	2000	5300	2700	2400	20	2638	No Limit
Sulfide	SM 4500 S2 D	milligrams/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	No Limit
Sulfite	SM 4500 SO3	milligrams/L	<2	<2	<2	<2	<2	<2	<2	<2	No Limit
Surfactants	SM 5540 C	milligrams/L	0.13	0.05	0.11	0.08	0.13	0.11	0.00	0.09	No Limit
Aluminum	EPA 200.8	milligrams/L	11	15	10	0.024	16	2.6	0.60	5.97	No Limit
Barium	EPA 200.8	micrograms/L	5.8	7.5	4.4	15	6	20	0	8.67	No Limit
Cobalt	EPA 200.8	micrograms/L	1.4	0.88	0.9	2.8	1.4	2.3	0.1	1.55	No Limit
Iron	EPA 200.7	milligrams/L	<0.04	<0.04	<0.04	<0.04	12	22	0.05	4.53	No Limit
Magnesium	EPA 200.7	milligrams/L	1600	1000	1100	3100	1600	1400	80	1565	No Limit
Molybdenum	EPA 200.8	micrograms/L	12	8.5	8.5	28	12	14	1	11.78	No Limit
Manganese	EPA 200.8	micrograms/L	9	6.3	6.6	17	<1	40	<1	8.37	No Limit
Tin	EPA 200.8	micrograms/L	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	No Limit
Titanium	EPA 200.7	micrograms/L	<10	<10	<10	<10	<10	<10	<10	<10	No Limit
SECTION 1											
Antimony	EPA 200.8	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
Beryllium	EPA 200.8	micrograms/L	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	0.03
Chromium, total	EPA 200.8	micrograms/L	<5	<5	<5	<4	<6	9	<5	<5	2.0/6.0/20.0
Lead	EPA 200.8	micrograms/L	1.5	<1	<1	<1	1.5	2.6	0.08	1.28	2.0/8.0/20.0
Nickel	EPA 200.8	micrograms/L	14	14.0	14.0	19	14	21	1	13.39	5.0/20.0/50.0
Silver	EPA 200.8	micrograms/L	5.0	5.0	5.0	<0.5	5.0	<0.5	<0.5	5.00	0.7/2.8/7.0
Zinc	EPA 200.8	micrograms/L	24	10	10	10	24	45	22.00	23.94	28.0/80.0/200.0
Phenols (see individual phenolics)											
Arsenic	EPA 200.8	micrograms/L	<2	<2	<2	<2	<2	0	27	<2	8/32/80
Cadmium	EPA 200.8	micrograms/L	0.6	0.6	0.6	<0.5	2.0	0.6	<0.5	0.6	1.0/4.0/10.0
Copper	EPA 200.8	micrograms/L	6	6	6	<2	10	4	10.00	6	3.0/12.0/30.0
Mercury	EPA 245.1	micrograms/L	0.1	0.1	0.1	<0.2	0.2	0.1	<0.2	0.1	0.04/0.16/0.4
Selenium	EPA 200.8 Hy	micrograms/L	<0.2	<0.2	<0.2	<0.4	<0.4	<0.4	<0.4	<0.2	15.0/60.0/150.0
Thallium	EPA 200.8	micrograms/L	<0.5	<0.5	<0.5	<1.5	<0.5	<0.5	<0.5	<0.5	2 (30-day Avg.)
Cyanide	SM 4500 CN E	milligrams/L	<0.02	<0.02	<0.02	<0.05	0.02	<0.02	<0.05	<0.02	1.0/4.0/10.0
SECTION 2											
2,3,7,8-TCDD		picograms/L	ND	ND	ND	ND	ND	ND	ND	ND	No Limit

Item No. 7 Attachment No. 4
September 7-8, 2006 Meeting
Low Threat and General
Discharge Cases

ATTACHMENT "B"

PAJARO SUNNY MESA PILOT SEAWATER DESALINATION PLANT
INTAKE AND WASTE STREAM DISCHARGE WATER QUALITY

ANALYTE	DESAL PLANT INTAKE SEAWATER		INTERMITTENT WASTE STREAMS		CONTINUOUS WASTE STREAMS				TOTAL DESAL PLANT DISCHARGE Worst Case	Ocean Plan WQ Objective 6-Month avg./ Daily Max /	
			CLEANING SOLUTION #1	CLEANING SOLUTION #2	RO CONCENTRATE	SEDIMENTATION TANK RESIDUALS	PRETREATMENT FILTER BACKWASH	PERMEATE			
SECTION 3											
Volatiles Organics (all VOCs are Non-Detectable, except...)	EPA 524.2	micrograms/L	ND	ND	ND	ND	ND	ND	ND	ND	No Limit
2-Butanone	EPA 524.2	micrograms/L	<5	<5	210	<5	<5	<5	<5	<5	No Limit
Bromoform	EPA 524.2	micrograms/L	0.98	<0.5	<0.5	1.40	<0.5	<0.5	<0.5	0.98	No Limit
Acid Compounds											
2-Chlorophenol	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	1.0/4.0/10.0
2,4-Dimethylphenol	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	1.0/4.0/10.0
2,4-Dinitrophenol	EPA 625	micrograms/L	<20	<20	<20	<20	<20	<20	<20	<20	1.0/4.0/10.0
4-Nitrophenol	EPA 625	micrograms/L	<10	<10	<10	<10	<10	<10	<10	<10	1.0/4.0/10.0
Pentachlorophenol	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	1.0/4.0/10.0
2,4,6-Trichlorophenol	EPA 625	micrograms/L	<10	<10	<10	<10	<10	<10	<10	<10	1.0/4.0/10.0
2,4-Dichlorophenol	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	1.0/4.0/10.0
2-Methyl-4,6-dinitrophenol	EPA 625	micrograms/L	<10	<10	<10	<10	<10	<10	<10	<10	1.0/4.0/10.0
2-Nitrophenol	EPA 625	micrograms/L	<10	<10	<10	<10	<10	<10	<10	<10	1.0/4.0/10.0
4-Chloro-3-methylphenol	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	1.0/4.0/10.0
Phenol	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	30/120/300
Base/Neutrals											
Acenaphthene	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
Anthracene	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
Benzo(a)anthracene	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
Benzo(b)fluoranthene	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
Benzo(k)fluoranthene	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
bis(2-Chloroethoxy)ether	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	1200 (30-day avg.)
bis(2-Ethylhexyl)phthalate	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	3.5 (30 day avg.)
Betylbenzyl phthalate	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
4-Chlorophenylphenylether	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
Dibenz(a,h)anthracene	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
1,3-Dichlorobenzene	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
1,3'-Dichlorobenzidine	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
Dimethyl phthalate	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	33,000 (30-day avg.)
2,4-Dinitrotoluene	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
Di-n-octyl phthalate	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
Fluoranthene	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
Hexachlorobenzene	EPA 508	micrograms/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	No Limit
Hexachlorocyclopentadiene	EPA 508	micrograms/L	<1	<1	<1	<1	<1	<1	<1	<1	58 (30-day avg.)
Indeno(1,2,3-c)pyrene	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
Naphthalene	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
N-Nitrosodimethylamine	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
N-Nitrosodiphenylamine	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
Pyrene	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
Acenaphthylene	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
Benzidine	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	0.000069 (30-day avg.)
Benzo(a)pyrene	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
Benzo(g,h,i)perylene	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
bis(2-Chloroethoxy)methane	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	4.4 (30-day avg.)
bis(2-Chloroisopropyl)ether	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	1,200 (30-day avg.)
4-Bromophenylphenylether	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
2-Chloronaphthalene	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
Chrysene	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
1,2-Dichlorobenzene	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
1,4-Dichlorobenzene	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
Diethyl phthalate	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
Dibutyl phthalate	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
2,6-Dinitrotoluene	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit

ATTACHMENT "B"

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INTAKE AND WASTE STREAM DISCHARGE WATER QUALITY

ANALYTE	EPA CODE	UNIT	DESAL PLANT INTAKE SEAWATER	INTERMITTENT WASTE STREAMS		CONTINUOUS WASTE STREAMS				TOTAL DESAL PLANT DISCHARGE Worst Case	Ocean Plan WQ Objective 6-Month avg./ Daily Max /
				CLEANING SOLUTION #1	CLEANING SOLUTION #2	RO CONCEN-TRATE	SEDIMENTATION TANK RESIDUALS	PRETREATMENT FILTER BACKWASH	PERMEATE		
Azobenzene	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
Fluorene	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
Hexachlorobutadiene	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
Hexachloroethane	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
Isophorone	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
Nitrobenzene	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	4.9 (30-day avg.)
N-nitrosodi-n-propylamine	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
Phenanthrene	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
1,2,4-Trichlorobenzene	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
PESTICIDES											
Aldrin	EPA 508	micrograms/L	<0.05	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	<0.05	0.000022 (30-day avg.)
BHC-alpha	EPA 508	micrograms/L	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	No Limit
BHC-beta	EPA 508	micrograms/L	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	No Limit
4,4'-DDD	EPA 508	micrograms/L	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	No Limit
4,4'-DDT	EPA 508	micrograms/L	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	No Limit
Endosulfan I	EPA 508	micrograms/L	<0.05	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	No Limit
Endosulfan II	EPA 508	micrograms/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.01	<0.01	<0.10	No Limit
Endosulfan sulfate	EPA 508	micrograms/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.05	<0.05	<0.10	No Limit
Endrin	EPA 508	micrograms/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	No Limit
Endrin aldehyde	EPA 508	micrograms/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.05	<0.1	No Limit
Heptachlor	EPA 508	micrograms/L	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.05	No Limit
Heptachlor epoxide	EPA 508	micrograms/L	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.05	No Limit
Arochlors (PCBs)	EPA 508	micrograms/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	No Limit
Toxaphene	EPA 508	micrograms/L	<1	<1	<1	<1	<1	<1	<1	<1	No Limit
BHC-delta	EPA 508	micrograms/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	No Limit
BHC-gamma (Lindane)	EPA 508	micrograms/L	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	No Limit
Chlordane-alpha	EPA 508	micrograms/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	No Limit
Chlordane-gamma	EPA 508	micrograms/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	No Limit
4,4'-DDE	EPA 508	micrograms/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	No Limit
Dieldrin	EPA 508	micrograms/L	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	No Limit
OTHERS											
1-Methylnaphthalene	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
1-Methylphenanthrene	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
2,3,5-Trimethylnaphthalene	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
2,4'-DDD	EPA 508	micrograms/L	<1	<1	<1	<1	<1	<1	<1	<1	No Limit
2,4'-DDE	EPA 508	micrograms/L	<1	<1	<1	<1	<1	<1	<1	<1	No Limit
2,4'-DDT	EPA 508	micrograms/L	<1	<1	<1	<1	<1	<1	<1	<1	No Limit
2,6-Dimethylnaphthalene	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
2-Methylnaphthalene	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
Benzo(a)pyrene	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
Biphenyl	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
Methoxychlor	EPA 508	micrograms/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	No Limit
Mirex	EPA 508	micrograms/L	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	No Limit
Perylene	EPA 625	micrograms/L	<5	<5	<5	<5	<5	<5	<5	<5	No Limit
Polychlorinated biphenyls (PCBs)	EPA 508	micrograms/L	<1.0	<1.0	<1.0	<1.0	<1.0	<0.1	<0.1	<1.0	No Limit
Tributyltin	EPA 508	micrograms/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	85,000 (30-day average)
trans-Nonachlor	EPA 508	micrograms/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	No Limit