

August 9, 2005

U. S. Nuclear Regulatory Commission  
Document Control Desk  
Washington, D.C. 20555

Subject: **Docket No. 50-362**  
**Report of NPDES Permit Limit Violation**  
**San Onofre Nuclear Generating Station (SONGS), Unit 3**

Dear Sir or Madam:

SONGS Unit 3 Facility Operating Licenses (No. NPF-15), Appendix B, Section 3.2, requires violations of the National Pollution Discharge Elimination System (NPDES) Permit to be reported to the NRC by submitting copies of the reports required by the NPDES Permit.

Accordingly, a copy of the NPDES June 2005 Discharge Monitoring Report that was submitted to the Regional Water Quality Control Board, San Diego Region on July 29, 2005 is attached.

If you have any questions, please contact Mr. Clay E. Williams at (949) 368-6707.

Sincerely,



Attachment: As stated.

cc: B. S. Mallett, NRC Regional Administrator, Region IV  
J. N. Donohew, NRC Project Manager, San Onofre Units 2, and 3  
C. C. Osterholtz, NRC Senior Resident Inspector, San Onofre Units 2 and 3

JUL 29 2005

Mr. John Robertus  
California Regional Water Quality Control Board  
San Diego Region  
9174 Sky Park Ct. Suite 100  
San Diego, California 92123  
IC: 13-0086.01

**SUBJECT:** NPDES June 2005 Discharge Monitoring Report  
San Onofre Nuclear Generating Station, Unit 3

Dear Mr. Robertus:

SCE submits the subject report in accordance with the requirements of Order No. R9-2005-0006 (NPDES Permit No. CA0108181). All sampled water sources were found to be within permit limits with the following exception. On June 14, 2005, a sample obtained on the Unit 3 combined discharge at 10:50 for total residual chlorine was analyzed and had a result of 0.24 mg/l. This sample was obtained after 25 minutes of chlorination, so the effluent limit was 0.176 mg/l. The chlorination was terminated automatically at the chlorine analyzer just prior to the sample being obtained. A subsequent sample taken later in the day indicated a return to limits at less than 0.02 mg/l.

The cause of the exceedence was determined to be due to the following factors:

- A substantial reduction in the biological demand of the circ water system
- The chlorine analyzer setpoint being set too low for the conditions at the time
- The chlorine injection rate was too high for the biological conditions in the system

The evaluation that was conducted noted the following changes to prevent reoccurrence of this event:

**Short and Long Term Corrective Actions**


- The chlorination duration was reduced from 25 minutes chlorination to 18 minutes, resulting in an effluent limit for total residual chlorine of 0.2 mg/l
- The chlorine injection rates were reduced commensurate with the lower biological demand in the circ water system
- The chlorine analyzer setpoint will be reduced on the chlorine analyzer from 0.15 mg/l to 0.13 mg/l

Since the event occurred, all sample results for total residual chlorine on both Units 2 and 3 have been within NPDES effluent limits. This event was discussed with your staff on June 14, 2005. Staff requested that the violation be documented in this report.

Pursuant to Order No. R9-2005-0006, State and Federal Standard Provisions, Section E, the following representative has prepared and is authorized to sign the reports required by this order: Robert K. Heckler, Environmental Engineer.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely,



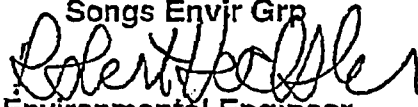
Mary Jane Johnson for  
H. W. Newton  
Manager, Site Support Services

Enclosure

cc: Environmental Protection Agency, Region IX  
State Water Resources Control Board

bcc: J. T. Reilly  
H. W. Newton/M. J. Johnson - w/o enclosure  
D. Niebruegge  
D. W. Kay  
J. Demlow - w/o enclosure  
B. Keller - w/o enclosure  
C. Williams - w/o enclosure  
CDM Files  
IDB - NPDES/R. K. Heckler

# Southern California Edison Monthly Report Page 1 of 20

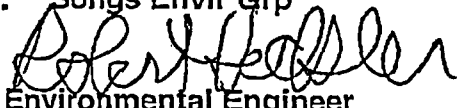
**Facility :** Songs Unit 3      **Exact Sample Point :** Intake and Discharge Conduits  
**Order No :** R9-2005-0006  
**Report Freq :** Monthly      **Collected By :** Songs Envir Grp  
**Report For :** June 2005      **Analyzed By :** Songs Envir Grp  
**Report Due :** Aug 01, 2005      **Signed :**   
**Waste Stream :** Water Intake and Combined Discharge      **Title :** Environmental Engineer

**PARAMETER: Temperature Difference (degrees Fahrenheit) = Temperature at Combined Discharge Minus Temperature at Water Intake**

Date	Combined Discharge	Water Intake		Daily Avg Diff	Daily Max Difference
	Avg	Avg	Max		
6-1-05	85	66	67	19	19
6-2-05	86	67	68	19	19
6-3-05	87	68	69	19	19
6-4-05	87	68	68	19	19
6-5-05	87	68	69	19	19
6-6-05	87	68	69	19	19
6-7-05	87	68	69	19	19
6-8-05	87	68	69	19	19
6-9-05	87	68	69	19	19
6-10-05	88	69	69	20	33
6-11-05	90	68	69	22	55
6-12-05	87	69	69	18	18
6-13-05	87	68	69	18	18
6-14-05	87	68	69	18	19
6-15-05	87	69	69	19	19
6-16-05	87	69	69	19	19
6-17-05	86	67	69	18	19
6-18-05	81	63	65	18	18
6-19-05	80	62	64	18	18
6-20-05	78	60	62	18	18
6-21-05	77	58	60	18	19
6-22-05	76	58	59	18	18
6-23-05	78	59	61	19	19
6-24-05	76	58	58	19	19
6-25-05	76	57	59	19	19
6-26-05	78	59	62	18	19
6-27-05	79	60	62	18	18
6-28-05	78	60	62	18	18
6-29-05	76	58	60	18	19
6-30-05	75	56	59	18	18
<b>Avg</b>	83	64	65	19	20
<b>Reqt</b>	--	--	--	25	25

Heat Treatment Occured : June 10 & 11, 2005

**Southern California Edison Monthly Report Page 2 of 20**

**Facility :** Songs Unit 3      **Exact Sample Point :** Intake and Screenwell  
**Order No :** R9-2005-0006  
**Report Freq :** Monthly      **Collected By :** Instrumentation  
**Report For :** June 2005      **Analyzed By :** Songs Envir Grp  
**Report Due :** Aug 01, 2005      **Signed :**   
**Report Topic :** Intake Conduit and Screenwell Heat Treatment      **Title :** Environmental Engineer

**Intake and Screenwell Heat Treatment Occured This Month.**


PARAMETER	UNITS	REQUIREMENT	RESULT
Date/Time Treatment Began	--	--	6/10/2005 11:15 pm
Date/Time Treatment Ended	--	--	6/11/2005 12:47 am
Total Time of Treatment	hours	--	1.53
Maximum Screenwell Temperature Attained (Screenwell Target Temperature)	degr F	* 100	100
Screenwell Target Temp Duration	hours	* 2.1	1.5

**Following Section only Completed If Screenwell Target Temperature was Exceeded.**

Maximum Screenwell Temperature Attained	degr F	--	N/A
Degrees Above Screenwell Target Temperature	degr F	10	N/A
Maximum Screenwell Temp Duration	min	15	N/A

\* Value Varies (From the Mussel Mortality Graph)

**Southern California Edison Monthly Report** Page 3 of 20

Facility :	Songs Unit 3	Exact Sample Point :	Intake and Screenwell
Order No :	R9-2005-0006		
Report Freq :	Monthly	Collected By :	Instrumentation
Report For :	June 2005	Analyzed By :	Songs Envir Grp
Report Due :	Aug 01, 2005	Signed :	
Report Topic :	Intake Conduit and Screenwell Heat Treatment	Title :	Environmental Engineer

Intake and Screenwell Heat Treatment Occured This Month.

PARAMETER	UNITS	REQUIREMENT	RESULT
Maximum Intake Conduit Temperature Attained (Intake Conduit Target Temperature)	degr F	125	125
Screenwell Target Temp Duration	hours	* 2.1	1.5

Following Section only Completed If Intake Target Temperature was exceeded.

Maximum Intake Conduit Temperature Attained	degr F	--	N/A
Degrees Above Intake Conduit Target Temperature	degr F	10	N/A
Maximum Intake Conduit Temp Duration (Minutes)	min	15	N/A

\* Value Varies (From the Mussel Mortality Curve)

**Southern California Edison Monthly Report Page 4 of 20**

Facility : Songs Unit 3  
 Order No : R9-2005-0006  
 Report Freq : Monthly  
 Report For : June 2005  
 Report Due : Aug 01, 2005  
 Report Topic : Discharge Conduit  
 Heat Treatment

Exact Sample Point : Discharge  
 Conduit

Collected By : Instrumentation  
 Analyzed By : Songs Envir Grp

Signed :   
 Title : Environmental Engineer

Discharge and Screenwell Heat Treatment Occured This Month.

PARAMETER	UNITS	REQUIREMENT	RESULT
Date/Time Treatment Began	--	--	09:40 pm 6/10/2005
Date/Time Treatment Ended	--	--	09:48 pm 6/10/2005
Total Time of Treatment	hours	--	0.13
Maximum Discharge Conduit Temperature Attained (Discharge Conduit Target Temperature)	degr F	* 105	104

Following Section only Completed If Screenwell Target Temperature was Exceeded.

Maximum Screenwell Temperature Attained	degr F	--	N/A
Degrees Above Screenwell Target Temperature	degr F	10	N/A
Maximum Screenwell Temp Duration	min	15	N/A

\* Value Varies (From the Mussel Mortality Graph)






# Southern California Edison Monthly Report


Facility : Songs Unit 3  
Order No : R9-2005-0006  
Report Freq : Monthly  
Report For : June 2005  
Report Due : Aug 01, 2005  
Waste Stream : Cooling Water Intake

Exact Sample Point : Intake and Discharge Conduits

Collected By : Songs Envir Grp  
Analyzed By : Songs Envir Grp  
Signed :   
Title : Environmental Engineer

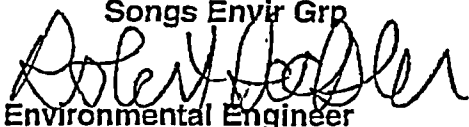
Parameter	Units	Sample Type	Req't Type	Req't Value	Result Value	Date & Time Collected
pH	--	GRAB	--	--	8.1	6/9/2005 01:08 pm
Turbidity	NTU	GRAB	--	--	4.3	6/9/2005 01:08 pm

# Southern California Edison Monthly Report

**Facility :** Songs Unit 3      **Exact Sample Point :** Point of Discharge  
**Order No :** R9-2005-0006  
**Report Freq :** Monthly      **Collected By :** Songs Envir Grp  
**Report For :** June 2005      **Analyzed By :** Songs Envir Grp  
**Report Due :** Aug 01, 2005      **Signed :**   
**Waste Stream :** Combined Discharge      **Title :** Environmental Engineer

Parameter	Units	Sample Type	Req't Type	Req't Value	Result Value	Date & Time Collected
Turbidity	NTU	GRAB	--	--	3.2	6/02/05 12:11 pm
pH	--	GRAB	--	6 - 9	8.1	6/09/05 10:54 am
Hydrazine	ug/l lbs/day	GRAB	Inst Max	--	< 4.0	6/23/05
				--	< 40.7	01:45 pm
Total Chlorine Residual	ug/l lbs/day	GRAB	Inst Max	190	240.0	6/14/05
				2100	101.7	10:50 am
Total Chlorine Residual	ug/l lbs/day	GRAB	Dally Max	88	20	6/14/05
				940	8.5	10:50 am
	ug/l	GRAB	6-MO Median	22	9	6/14/05 10:50 am

# Southern California Edison Monthly Report

**Facility :** Songs Unit 3      **Exact Sample Point :** Point of  
**Order No :** R9-2005-0006      **Discharge**  
**Report Freq :** Monthly      **Collected By :** Songs Envir Grp  
**Report For :** June 2005      **Analyzed By :** Songs Envir Grp  
**Report Due :** Aug 01, 2005      **Signed :**   
**Waste Stream :** Hotwell Overboard      **Title :** Environmental Engineer  
 (Low Volume Waste)

Parameter	Units	Sample Type	Req't Type	Req't Value	Result Value	Date & Time Collected
Total Suspended Solids	mg/l	GRAB	30-Day Avg	30	*	*
	lbs/day			0.00		
Total Suspended Solids	mg/l	GRAB	Daily Max	100	*	*
	lbs/day			0.00		
Grease and Oil	mg/l	GRAB	30-Day Avg	15	*	*
	lbs/day			0.00		
Grease and Oil	mg/l	GRAB	Daily Max	20	*	*
	lbs/day			0.00		

\* NO FLOW IN JUNE 2005



# Southern California Edison Monthly Report


**Facility :** Songs Unit 3      **Exact Sample Point :** Point of Discharge  
**Order No :** R9-2005-0006  
**Report Freq :** Monthly      **Collected By :** Songs Envir Grp  
**Report For :** June 2005      **Analyzed By :** Songs Envir Grp  
**Report Due :** Aug 01, 2005      **Signed :** *Robert Walker*  
**Waste Stream :** Blowdown Processing (Low Volume Waste)      **Title :** Environmental Engineer

Parameter	Units	Sample Type	Req't Type	Req't Value	Result Value	Date & Time Collected
Total Suspended Solids	mg/l	GRAB	30-Day Avg	30	*	*
	lbs/day		Daily Max	100		
Grease and Oil	mg/l	GRAB	30-Day Avg	15	*	*
	lbs/day		Daily Max	20		
	mg/l	GRAB	Daily Max	0.00	*	*
	lbs/day	GRAB	Daily Max	0.00	*	*

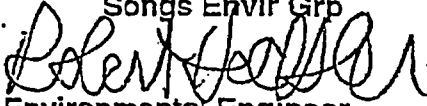
\* NO FLOW IN JUNE 2005



# Southern California Edison Monthly Report

**Facility :** Songs Unit 3      **Exact Sample Point :** Point of  
**Order No :** R9-2005-0006      **Discharge**  
**Report Freq :** Monthly      **Collected By :** Songs Envir Grp  
**Report For :** June 2005      **Analyzed By :** Songs Envir Grp  
**Report Due :** Aug 01, 2005      **Signed :**   
**Waste Stream :** Makeup Demineralizer      **Title :** Environmental Engineer  
 (Low Volume Waste)

Parameter	Units	Sample Type	Req't Type	Req't Value	Result Value	Date & Time Collected
Total Suspended Solids	mg/l	GRAB	30-Day Avg	30	9.0	6/9/2005
	lbs/day			23.60	0.22	12:25 pm
Total Suspended Solids	mg/l	GRAB	Daily Max	100	20.8	6/9/2005
	lbs/day			77.73	16.13	12:25 pm
Grease and Oil	mg/l	GRAB	30-Day Avg	15	< 5.0	6/2/2005
	lbs/day			6.14	< 0.12	03:04 pm
Grease and Oil	mg/l	GRAB	Daily Max	20	< 5.0	6/2/2005
	lbs/day			8.04	< 2.04	03:04 pm

**Facility :** Songs Unit 3      **Exact Sample Point :** Point of Discharge  
**Order No :** R9-2005-0006  
**Report Freq :** Monthly      **Collected By :** Songs Envir Grp  
**Report For :** June 2005      **Analyzed By :** Songs Envir Grp  
**Report Due :** Aug 01, 2005      **Signed :**   
**Waste Stream :** RadWaste System (Low Volume Waste)      **Title :** Environmental Engineer

Parameter	Units	Sample Type	Req't Type	Req't Value	Result Value	Date & Time Collected
Total Suspended Solids	mg/l	GRAB	30-Day Avg	30	< 5.0	6/10/2005 02:40 pm
	lbs/day			4.58	< 0.11	
Solids	mg/l	GRAB	Daily Max	100	< 5.0	6/10/2005 02:40 pm
	lbs/day			15.00	< 0.75	
Grease and Oil	mg/l	GRAB	30-Day Avg	15	< 5.0	6/10/2005 02:40 pm
	lbs/day			2.25	< 0.11	
Oil	mg/l	GRAB	Daily Max	20	< 5.0	6/10/2005 02:40 pm
	lbs/day			3.00	< 0.75	



# Southern California Edison Monthly Report

Facility : Songs Unit 3

Exact Sample Point : Point of

Order No : R9-2005-0006

Discharge

Report Freq : Monthly

Collected By : Songs Envir Grp

Report For : June 2005

Analyzed By : Songs Envir Grp

Report Due : Aug 01, 2005

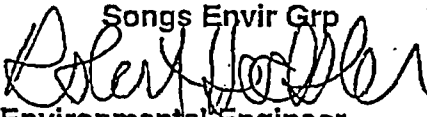
Signed : 

Waste Stream : Intake Structure  
Sump (Low Volume Waste)

Title : Environmental Engineer

Parameter	Units	Sample Type	Req't Type	Req't Value	Result Value	Date & Time Collected
Total Suspended Solids	mg/l	GRAB	30-Day Avg	30	< 5.0	6/18/2005 04:30 pm
	lbs/day			17.50	< 2.92	
Total Suspended Solids	mg/l	GRAB	Daily Max	100	< 5.0	6/18/2005 04:30 pm
	lbs/day			58.33	< 2.92	
Grease and Oil	mg/l	GRAB	30-Day Avg	15	< 5.0	6/18/2005 04:30 pm
	lbs/day			8.75	< 2.92	
Grease and Oil	mg/l	GRAB	Daily Max	20	< 5.0	6/18/2005 04:30 pm
	lbs/day			11.67	< 2.92	

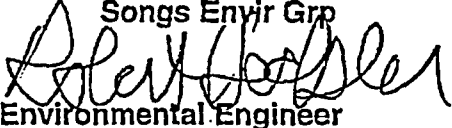
# Southern California Edison Monthly Report

**Facility :** Songs Unit 3      **Exact Sample Point :** Point of Discharge  
**Order No :** R9-2005-0006  
**Report Freq :** Monthly      **Collected By :** Songs Envir Grp  
**Report For :** June 2005      **Analyzed By :** Songs Envir Grp  
**Report Due :** Aug 01, 2005      **Signed :**   
**Waste Stream :** Plant Drains      **Title :** Environmental Engineer  
 (Low Volume Waste)

Parameter	Units	Sample Type	Req't Type	Req't Value	Result Value	Date & Time Collected
Total Suspended Solids	mg/l	GRAB	30-Day Avg	30	*	*
	lbs/day			0.00		
Grease and Oil	mg/l	GRAB	Daily Max	100	*	*
	lbs/day			0.00		
Grease and Oil	mg/l	GRAB	30-Day Avg	15	*	*
	lbs/day			0.00		
Grease and Oil	mg/l	GRAB	Daily Max	20	*	*
	lbs/day			0.00		

\* DISCHARGED TO UNIT 2 OUTFALL

# Southern California Edison Monthly Report

**Facility :** Songs Unit 3      **Exact Sample Point :** Point of Discharge  
**Order No :** R9-2005-0006  
**Report Freq :** Monthly      **Collected By :** Songs Envir Grp  
**Report For :** June 2005      **Analyzed By :** Songs Envir Grp  
**Report Due :** Aug 01, 2005      **Signed :**   
**Waste Stream :** Concrete Cutting Water (Low Volume Waste)      **Title :** Environmental Engineer

Parameter	Units	Sample Type	Req't Type	Req't Value	Result Value	Date & Time Collected
Total Suspended Solids	mg/l	GRAB	30-Day Avg	30	*	*
	lbs/day			0.00		
Total Suspended Solids	mg/l	GRAB	Daily Max	100	*	*
	lbs/day			0.00		
Grease and Oil	mg/l	GRAB	30-Day Avg	15	*	*
	lbs/day			0.00		
Grease and Oil	mg/l	GRAB	Daily Max	20	*	*
	lbs/day			0.00		

\* NO FLOW IN JUNE 2005

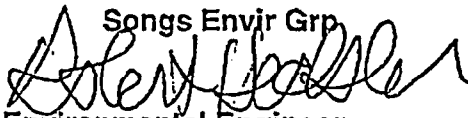
# Southern California Edison Monthly Report

**Facility :** Songs Unit 3      **Exact Sample Point :** Point of Discharge  
**Order No :** R9-2005-0006  
**Report Freq :** Monthly      **Collected By :** Songs Envir Grp  
**Report For :** June 2005      **Analyzed By :** Songs Envir Grp  
**Report Due :** Aug 01, 2005      **Signed :** *Robert G. Walker*  
**Waste Stream :** Unit 1 Radwaste      **Title :** Environmental Engineer  
 (Low Volume Waste)

Parameter	Units	Sample Type	Req't Type	Req't Value	Result Value	Date & Time Collected
Total Suspended Solids	mg/l	GRAB	30-Day Avg	30	*	*
	lbs/day			0.00		
Total Suspended Solids	mg/l	GRAB	Dally Max	100	*	*
	lbs/day			0.00		
Grease and Oil	mg/l	GRAB	30-Day Avg	15	*	*
	lbs/day			0.00		
Grease and Oil	mg/l	GRAB	Dally Max	20	*	*
	lbs/day			0.00		

\* NO FLOW IN JUNE 2005

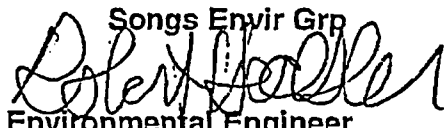
# Southern California Edison Monthly Report

**Facility :** Songs Unit 3      **Exact Sample Point :** Point of Discharge  
**Order No :** R9-2005-0006  
**Report Freq :** Monthly      **Collected By :** Songs Envir Grp  
**Report For :** June 2005      **Analyzed By :** Songs Envir Grp  
**Report Due :** Aug 01, 2005      **Signed :**   
**Waste Stream :** Unit 1 Yards Drains (Low Volume Waste)      **Title :** Environmental Engineer

Parameter	Units	Sample Type	Req't Type	Req't Value	Result Value	Date & Time Collected
Total Suspended Solids	mg/l	GRAB	30-Day Avg	30	*	*
	lbs/day			0.00		
Total Suspended Solids	mg/l	GRAB	Daily Max	100	*	*
	lbs/day			0.00		
Grease and Oil	mg/l	GRAB	30-Day Avg	15	*	*
	lbs/day			0.00		
Grease and Oil	mg/l	GRAB	Daily Max	20	*	*
	lbs/day			0.00		

\* NO FLOW IN JUNE 2005

# Southern California Edison Monthly Report

**Facility :** Songs Unit 3      **Exact Sample Point :** Point of Discharge  
**Order No :** R9-2005-0006  
**Report Freq :** Monthly      **Collected By :** Songs Envir Grp  
**Report For :** June 2005      **Analyzed By :** Songs Envir Grp  
**Report Due :** Aug 01, 2005      **Signed :**   
**Waste Stream :** Unit 1 Dewatering (Low Volume Waste)      **Title :** Environmental Engineer

Parameter	Units	Sample Type	Req't Type	Req't Value	Result Value	Date & Time Collected
Total Suspended Solids	mg/l	GRAB	30-Day Avg	30	*	*
	lbs/day		Daily Max	100		
Grease and Oil	mg/l	GRAB	30-Day Avg	15	*	*
	lbs/day		Daily Max	20		

\* NO FLOW IN JUNE 2005

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Facility : Songs Unit 3 Exact Sample Point : Point of Discharge  
 Order No : R9-2005-0006  
 Report Freq : Monthly Collected By : Songs Envir Grp  
 Report For : June 2005 Analyzed By : Songs Chemistry  
 Report Due : Aug 01, 2005 Signed : *[Signature]*  
 Waste Stream : Sewage Treatment Title : Environmental Engineer

Units	Sample Type	Date/Time of Sample	Daily Max		Monthly Avg		
			Sample Value	Req't Value	Sample Value	Req Value	
<b>Sewage - - Unit 1</b>							
Inf T.S.S	mg/l lbs/day	GRAB	10:30 6/8/2005	792.0 336.9	- -	792.0 170.9	- -
EFF G&O	mg/l lbs/day	GRAB	10:38 6/8/2005	7.0 3.0	75 63	7.0 1.5	25 21
EFF T.S.S	mg/l lbs/day	GRAB	10:38 6/8/2005	30.0 12.8	198.0 84.2	30 6.5	198.0 42.7
Sett. Solids	ml/l	GRAB	10:38 6/8/2005	0.2	3.0	0.2	1.0
pH	Units	GRAB	10:38 6/8/2005	6.8	6.0 - 9.0	6.8	6.0 - 9.0
Turbidity	NTU	GRAB	10:38 6/8/2005	11.3	225	11.3	75
<b>Sewage - - Mesa</b>							
Inf T.S.S	mg/l lbs/day	GRAB		*	-	*	-
EFF G&O	mg/l lbs/day	GRAB		*	75 63	*	25 21
EFF T.S.S	mg/l lbs/day	GRAB		*		*	
Sett. Solids	ml/l	GRAB		*	3.0	*	1.0
pH	Units	GRAB		*	6.0 - 9.0	*	6.0 - 9.0
Turbidity	NTU	GRAB		*	225	*	75

Sewage Treatment Discharged To Unit 1 Outfall  
 \*Mesa Sewage Treated at Unit 1 Sewage Treatment Plant