

## **ATTACHMENT G – GENERIC TOXICITY REDUCTION EVALUATION (TRE) WORKPLAN (POTW)**

### **1. Information and Data Acquisition**

#### **a. Operations and performance review**

- i. NPDES permit requirements
  - (1) Effluent limitations
  - (2) Special conditions
  - (3) Monitoring data and compliance history
- ii. POTW design criteria
  - (1) Hydraulic loading capacities
  - (2) Pollutant loading capacities
  - (3) Biodegradation kinetics calculations/assumptions
- iii. Influent and effluent conventional pollutant data
  - (1) Biochemical oxygen demand (BOD<sub>5</sub>)
  - (2) Chemical oxygen demand (COD)
  - (3) Suspended solids (SS)
  - (4) Ammonia
  - (5) Residual chlorine
  - (6) pH
- iv. Process control data
  - (1) Primary sedimentation - hydraulic loading capacity and BOD and SS removal
  - (2) Activated sludge - Food-to-microorganism (F/M) ratio, mean cell residence time (MCRT), mixed liquor suspended solids (MLSS), sludge yield, and BOD and COD removal
  - (3) Secondary clarification - hydraulic and solids loading capacity, sludge volume index and sludge blanket depth
- v. Operations information
  - (1) Operating logs
  - (2) Standard operating procedures
  - (3) Operations and maintenance practices
- vi. Process sidestream characterization data
  - (1) Sludge processing sidestreams
  - (2) Tertiary filter backwash
  - (3) Cooling water
- vii. Combined sewer overflow (CSO) bypass data
  - (1) Frequency
  - (2) Volume
- viii. Chemical coagulant usage for wastewater treatment and sludge processing
  - (1) Polymer
  - (2) Ferric chloride
  - (3) Alum

**b. POTW influent and effluent characterization data**

- i. Toxicity
- ii. Priority pollutants
- iii. Hazardous pollutants
- iv. SARA 313 pollutants,
- v. Other chemical-specific monitoring results

**c. Sewage residuals (raw, digested, thickened and dewatered sludge and incinerator ash) characterization data**

- i. EP toxicity
- ii. Toxicity Characteristic Leaching Procedure (TCLP)
- iii. Chemical analysis

**d. Industrial waste survey (IWS)**

- i. Information on IUs with categorical standards or local limits and other significant non-categorical IUs
- ii. Number of IUs
- iii. Discharge flow
- iv. Standard Industrial Classification (SIC) code
- v. Wastewater flow
  - (1) Types and concentrations of pollutants in the discharge
  - (2) Products manufactured
- vi. Description of pretreatment facilities and operating practices
- vii. Annual pretreatment report
- viii. Schematic of sewer collection system
- ix. POTW monitoring data
  - (1) Discharge characterization data
  - (2) Spill prevention and control procedures
  - (3) Hazardous waste generation
- x. IU self-monitoring data
  - (1) Description of operations
  - (2) Flow measurements
  - (3) Discharge characterization data
  - (4) Notice of sludge loading
  - (5) Compliance schedule (if out of compliance)
- xi. Technically based local limits compliance reports
- xii. Waste hauler monitoring data manifests
- xiii. Evidence of POTW treatment interferences (i.e., biological process inhibition)

## **Attachment J – PRETREATMENT REPORTING REQUIREMENTS**

The Discharger is required to submit annual and semi-annual Pretreatment Program Compliance Reports (Reports) to the Regional Water Board and submit copies of the Reports to the USEPA Region 9. This Attachment outlines the minimum reporting requirements of the Reports. If there is any conflict between requirements stated in this attachment and provisions stated in the Waste Discharge Requirements (WDR), those contained in the WDR will prevail.

### **A. ANNUAL REPORTING REQUIREMENTS**

The Discharger is required to submit Annual Pretreatment Program Compliance Report (Annual Report). The Annual Report is due by March 1st of each year and must contain, but not be limited to, the following information:

1. A summary of wastewater and sludge monitoring

The Discharger is required to monitor pollutants in the influent and the effluent of the POTW(s), and in the sludge from the secondary treatment process. The Discharger is required to provide a summary of the monitoring. However, if the POTW does not process sludge/biosolids at the plant, the sludge/biosolids monitoring requirements prescribed in this attachment are not required.

The Discharger must monitor the priority pollutants that were identified in Section 307(a) of the Clean Water Act (excluding asbestos) and the nonpriority pollutants that may have existed in the wastewater and may be causing, or contributing to Pass-Through and/or Interference as defined in 40 CFR 403.3 (i) & (n), or adversely impacting sludge quality. The sampling and analyses must be performed in accordance with the techniques prescribed in 40 CFR 136 and amendments thereto, unless specified otherwise in this Order. In lieu of duplicative sampling, the Discharger may use one set of sampling and analytical results to fulfill the reporting requirements for both the compliance monitoring program and the Pretreatment Program when the monitoring requirements match. However, pretreatment reports shall be submitted under a separate cover as stated in Section C. of this Attachment.

Wastewater samples of the POTW's influent and effluent must be obtained from representative, flow proportioned, 24-hour composites (except for constituents that must be taken through grab samples, such as cyanide). A full scan of the priority pollutants must be conducted at least annually in August, when flow is not affected by wet weather. Subsequent quarterly sampling and analysis must be conducted for those pollutants found in the full scan with concentrations higher than the detection limits set forth in 40 CFR 136. Results of any additional quarterly sampling will be included in the following semi-annual or annual report.

Sludge shall be sampled and analyzed quarterly for the same pollutants that were detected during the annual scan of the priority pollutants for the influent and effluent. Sludge must be taken as composite samples. When the sludge is dewatered onsite and is immediately hauled offsite for disposal, discrete samples from 12 batches of the dewatering operation must be collected and combined as a composite. If the sludge is dried in drying beds prior to its final disposal, samples collected from 12 representative locations in the drying beds must be taken and combined as a composite. Sludge analysis results must be expressed as mg/kg dry sludge, 100% dry weight basis.

2. A discussion of Pass-Through and Interference incidents

The Discharger is required to report in the Annual Report the Pass-Through and Interference incidents, if any, at the treatment plant, that the Discharger knows, or suspects, were caused by non-domestic discharges to the POTW system. The discussion must include the causes of the incidents, the investigative actions taken to determine the source, the name and address of the party responsible, and the corrective actions taken to overcome and recover from the interference. The discussion must also include a review of the applicable pollutant limitations to determine whether any additional limitations, or changes to existing requirements, may be necessary to prevent Pass-Through or Interference.

3. A list of Discharger's industrial users

The Discharger is required to update its significant industrial users (SIUs) list annually and to submit the list in the Annual Report. The Discharger is required to report deletions, additions, and name changes in the previously submitted SIU list. The Discharger must provide a brief explanation for each change.

4. A summary of SIU compliance.

The Discharger is required to provide a summary of SIU compliance in the Annual Report. The Discharger must characterize the compliance status of each SIU by providing a list or table, which includes the following information:

- a. Name of the SIU;
- b. Category, if subject to federal categorical standards, or nature of the wastewater discharge;
- c. Type of wastewater treatment or control processes in place;
- d. Number of monitoring samples taken by the POTW during the year;
- e. Number of monitoring samples taken by the SIU during the year;
- f. Verification that all required certifications were provided for an SIU subject to discharge requirements for total toxic organics;
- g. Standards violated during the year (Federal and local, reported separately);
- h. Description of the significant noncompliance (SNC) if the SIU was in SNC as defined at 40 CFR 403.12(f)(2)(vii) during the year; and,

- i. A summary of enforcement or other actions taken during the year to return the SIU in SNC to compliance. Describe the type of action, final compliance date, and the amount of fines and penalties collected, if any. Describe any proposed actions for bringing the SIU in SNC into compliance.

5. A summary of program changes

The Discharger is required to report changes of its POTW Pretreatment Program. A description of any significant changes in operating the pretreatment program which differ from the previous year including, but not limited to, changes concerning the program's sewer use ordinances, legal authority, local limits, monitoring program or monitoring frequencies, enforcement policy, administrative structure, funding levels, or staffing levels.

6. A summary of budget

The Discharger is required to include annual pretreatment program budgets in the Annual Report. These annual budgets should include a) personnel costs (salaries, benefits, insurance, etc.), b) transportation costs (direct and indirect costs of trucks, gasoline, maintenance, etc.), c) overall laboratory analyses costs (contractor or inhouse), d) equipment costs, e) administrative costs (supplies, overhead, secretarial time, attorney costs, copying, etc.), f) training and travel costs, g) contractor assistance, and h) other direct and indirect costs.

7. A summary of public participation

The Discharger is required to provide a summary of public participation of pretreatment program in the Annual Report. The summary should describe activities to involve and inform the public of the program, including a copy of the newspaper notice required under 40 CFR 403.8 (f)(2)(vii).

8. A description of sludge disposal methods

The Discharger is required to report in the Annual Report the sludge disposal methods and a description of any changes from the previously submitted methods.

9. A description of pollutant reduction efforts

The Discharger is required to describe in the Annual Report any programs the POTW implements to reduce pollutants from the non-domestic sources.

**B. SEMI-ANNUAL REPORTING REQUIREMENTS**

The Discharger is required to submit Semi-Annual Pretreatment Program Compliance Report (Semi-Annual Report). The Semi-Annual Report covers the periods from January 1 to June 30 and is due by August 15<sup>th</sup> of each year. The Semi-Annual Report *must* contain, but not be limited to, the following information:

1. *A discussion of Pass-Through and Interference incidents as described in Section A.2. of this Requirements.*
2. A summary of SIU compliance and enforcement actions as described in Section A. 4. of this Requirements.

C. SIGNATORY REQUIREMENTS AND REPORT SUBMITTAL

1. Signatory Requirements

The semi-annual and annual reports must be signed by a principal executive officer, ranking elected official or other duly authorized employee if such employee is responsible for the overall operation of the POTW. Any person signing these reports must make the following certification [40 CFR 403.6(a)(2)(ii)]:

*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.*

2. Report Submittal

An original copy of the Annual Report and Semi-Annual Report must be sent to the Pretreatment Program Coordinator of the Regional Board and the duplicate copies of the Reports must be sent to USEPA through the following addresses:

Information and Technology Unit  
Attn: Pretreatment Program Coordinator  
California Regional Water Quality Control Board, Los Angeles Region  
320 West 4<sup>th</sup> Street, Suite 200  
Los Angeles, CA 90013

Pretreatment Program  
CWA Compliance Office (WTR-7)  
Water Division  
U.S. Environmental Protection Agency, Region IX 75 Hawthorne Street  
San Francisco, CA 94105-3901

**Attachment K**  
**Terminal Island Water Reclamation Plant (CA0053856)**  
**MBAS Effluent Data (February 2009 - December 2009)**

SAMPLE DA	TIME	LOCATION	CONSTITUE	METHOD	UNITS	RESULT	BASE	QUAL	MDL	RML	ML	SAMPLE_ID
02/01/2009	00:00	TITP EFFLUE	MBAS	SM5540 C	mg/L	0.19	0.19		0.02	0.05	0.05	HT126874-12
03/02/2009	00:00	TITP EFFLUE	MBAS	SM5540 C	mg/L	0.22	0.22		0.02	0.05	0.05	HT127910-8
04/02/2009	00:00	TITP EFFLUE	MBAS	SM5540 C	mg/L	0.16	0.16		0.02	0.05	0.05	HT128943-12
05/01/2009	00:00	TITP EFFLUE	MBAS	SM5540 C	mg/L	0.28	0.28		0.02	0.05	0.05	HT129954-12
06/01/2009	00:00	TITP EFFLUE	MBAS	SM5540 C	mg/L	0.2	0.2		0.02	0.05	0.05	HT131083-8
07/08/2009	00:00	TITP EFFLUE	MBAS	SM5540 C	mg/L	0.34	0.34		0.02	0.05	0.05	HT132176-9
08/04/2009	00:00	TITP EFFLUE	MBAS	SM5540 C	mg/L	0.46	0.46		0.02	0.05	0.05	HT133283-12
09/01/2009	00:00	TITP EFFLUE	MBAS	SM5540 C	mg/L	0.61	0.61		0.02	0.05	0.05	HT134232-8
10/01/2009	00:00	TITP EFFLUE	MBAS	SM5540 C	mg/L	0.11	0.11		0.02	0.05	0.05	HT135237-12
11/03/2009	00:00	TITP EFFLUE	MBAS	SM5540 C	mg/L	0.14	0.14		0.02	0.05	0.05	HT136397-12
12/01/2009	00:00	TITP EFFLUE	MBAS	SM5540 C	mg/L	0.12	0.12		0.02	0.05	0.05	HT137356-8
					SD	0.1567859						
					AVG	0.25727273						
					CV	0.60941516						

**Attachment L**  
**Terminal Island Water Reclamation Plant (CA0053856)**  
**Ammonia Effluent Data (February 2009 - December 2009)**

SAMPLE DA	TIME	LOCATION	CONSTITUE	METHOD	UNITS	RESULT	BASE	QUAL	MDL	RML	ML	SAMPLE_ID
02/01/2009	00:00	TITP EFFLUE	AMMONIA-N	EPA 350.1	mg/L	1.1	1.1		0.05	0.1	0.1	HT126874-12
03/02/2009	00:00	TITP EFFLUE	AMMONIA-N	EPA 350.1	mg/L	0.33	0.33		0.05	0.1	0.1	HT127910-8
04/02/2009	00:00	TITP EFFLUE	AMMONIA-N	EPA 350.1	mg/L	0.46	0.46		0.05	0.1	0.1	HT128943-12
05/01/2009	00:00	TITP EFFLUE	AMMONIA-N	EPA 350.1	mg/L	0.3	0.3		0.05	0.1	0.1	HT129954-12
06/01/2009	00:00	TITP EFFLUE	AMMONIA-N	EPA 350.1	mg/L	0.19	0.19		0.05	0.1	0.1	HT131083-8
07/08/2009	00:00	TITP EFFLUE	AMMONIA-N	EPA 350.1	mg/L	0.71	0.71		0.05	0.1	0.1	HT132176-9
08/04/2009	00:00	TITP EFFLUE	AMMONIA-N	EPA 350.1	mg/L	ND		<	0.05	0.1	0.1	HT133283-12
09/01/2009	00:00	TITP EFFLUE	AMMONIA-N	EPA 350.1	mg/L	DNQ	0.07		0.05	0.1	0.1	HT134232-8
10/01/2009	00:00	TITP EFFLUE	AMMONIA-N	EPA 350.1	mg/L	1.03	1.03		0.05	0.1	0.1	HT135237-12
11/03/2009	00:00	TITP EFFLUE	AMMONIA-N	EPA 350.1	mg/L	0.7	0.7		0.05	0.1	0.1	HT136397-12
12/01/2009	00:00	TITP EFFLUE	AMMONIA-N	EPA 350.1	mg/L	0.42	0.42		0.05	0.1	0.1	HT137356-8
					SD	0.32348794						
					AVG	0.58222222						
					CV	0.55560905						



**Attachment M**  
**Terminal Island Water Reclamation Plant (CA0053856)**  
**Projected Total Ammonia Concentration in Receiving Water**

Quarter	Station	Date	Temp 1	pH	Salinity	I	pKas	1-hour EPA Objective (expressed as total)	4-day EPA Objective (expressed as total)
1st	HW20	03/18/2009	15.61	8.28	33.305	0.69	9.32	5.44	0.82
1st	HW20	03/18/2009	15.3	8.29	33.298	0.69	9.32	5.44	0.82
1st	HW20	03/18/2009	14.84	8.28	33.265	0.69	9.32	5.74	0.86
1st	HW20	03/18/2009	14.84	8.28	33.298	0.69	9.32	5.75	0.86
1st	HW20	03/18/2009	14.73	8.29	33.298	0.69	9.32	5.66	0.85
1st	HW20	03/18/2009	14.54	8.28	33.309	0.69	9.32	5.87	0.88
1st	HW20	03/18/2009	14.4	8.23	33.315	0.69	9.32	6.62	1.00
1st	HW21	03/18/2009	14.54	8.2	33.107	0.68	9.32	7.00	1.05
1st	HW21	03/18/2009	14.69	8.21	33.232	0.69	9.32	6.78	1.02
1st	HW21	03/18/2009	14.71	8.23	33.282	0.69	9.32	6.48	0.97
1st	HW21	03/18/2009	14.65	8.24	33.306	0.69	9.32	6.36	0.96
1st	HW21	03/18/2009	14.53	8.25	33.306	0.69	9.32	6.28	0.94
1st	HW21	03/18/2009	14.38	8.23	33.294	0.69	9.32	6.63	1.00
1st	HW23	03/18/2009	14.11	8.14	33.009	0.68	9.32	8.25	1.24
1st	HW23	03/18/2009	14.11	8.14	33.036	0.68	9.32	8.26	1.24
1st	HW23	03/18/2009	14.19	8.14	33.101	0.68	9.32	8.21	1.23
1st	HW23	03/18/2009	14.39	8.16	33.264	0.69	9.32	7.75	1.16
1st	HW23	03/18/2009	14.29	8.18	33.302	0.69	9.32	7.46	1.12
1st	HW23	03/18/2009	14.18	8.16	33.316	0.69	9.32	7.87	1.18
1st	HW24	03/18/2009	14.35	8.17	33.063	0.68	9.32	7.59	1.14
1st	HW24	03/18/2009	14.27	8.17	33.082	0.68	9.32	7.63	1.15
1st	HW24	03/18/2009	14.37	8.18	33.146	0.68	9.32	7.41	1.11
1st	HW24	03/18/2009	14.38	8.21	33.165	0.68	9.32	6.93	1.04
1st	HW24	03/18/2009	14.02	8.19	33.184	0.68	9.32	7.44	1.12
1st	HW24	03/18/2009	13.92	8.15	33.223	0.68	9.32	8.19	1.23
1st	HW24	03/18/2009	13.87	8.14	33.248	0.69	9.32	8.41	1.26
1st	HW24	03/18/2009	13.79	8.14	33.319	0.69	9.32	8.46	1.27
1st	HW24	03/18/2009	13.62	8.13	33.373	0.69	9.32	8.76	1.32
1st	HW24	03/18/2009	13.49	8.12	33.389	0.69	9.32	9.05	1.36
1st	HW24	03/18/2009	13.44	8.11	33.396	0.69	9.32	9.29	1.40
1st	HW24	03/18/2009	13.33	8.11	33.406	0.69	9.32	9.36	1.41
1st	HW24	03/18/2009	13.21	8.1	33.416	0.69	9.32	9.66	1.45
1st	HW24	03/18/2009	13.19	8.09	33.419	0.69	9.32	9.90	1.49
1st	HW24	03/18/2009	13.06	8.09	33.432	0.69	9.32	9.99	1.50
1st	HW24	03/18/2009	12.98	8.08	33.438	0.69	9.32	10.28	1.54
1st	HW24	03/18/2009	12.92	8.07	33.446	0.69	9.33	10.56	1.59
1st	HW33	03/18/2009	13.97	8.12	33.022	0.68	9.32	8.72	1.31
1st	HW33	03/18/2009	13.98	8.13	33.026	0.68	9.32	8.52	1.28
1st	HW33	03/18/2009	14	8.13	33.063	0.68	9.32	8.51	1.28
1st	HW33	03/18/2009	14.23	8.14	33.196	0.68	9.32	8.19	1.23
1st	HW33	03/18/2009	14.41	8.18	33.305	0.69	9.32	7.40	1.11
1st	HW33	03/18/2009	14.4	8.2	33.313	0.69	9.32	7.08	1.06
1st	HW33	03/18/2009	14.24	8.2	33.314	0.69	9.32	7.16	1.08
1st	HW33	03/18/2009	14.05	8.18	33.325	0.69	9.32	7.59	1.14
1st	HW40	03/18/2009	15.14	8.2	33.255	0.69	9.32	6.71	1.01
1st	HW40	03/18/2009	14.95	8.23	33.333	0.69	9.32	6.37	0.96
1st	HW40	03/18/2009	14.85	8.26	33.36	0.69	9.32	6.00	0.90
1st	HW40	03/18/2009	14.72	8.27	33.433	0.69	9.32	5.93	0.89
1st	HW40	03/18/2009	14.63	8.27	33.289	0.69	9.32	5.96	0.90
1st	HW40	03/18/2009	14.56	8.26	33.306	0.69	9.32	6.13	0.92
1st	HW40	03/18/2009	14.49	8.25	33.311	0.69	9.32	6.30	0.95
1st	HW40	03/18/2009	14.38	8.24	33.315	0.69	9.32	6.49	0.97
1st	HW40	03/18/2009	14.18	8.22	33.323	0.69	9.32	6.88	1.03
1st	HW41	03/18/2009	15.27	8.28	33.285	0.69	9.32	5.57	0.84
1st	HW41	03/18/2009	15.03	8.29	33.29	0.69	9.32	5.54	0.83
1st	HW41	03/18/2009	15.01	8.29	33.288	0.69	9.32	5.55	0.83
1st	HW41	03/18/2009	15	8.28	33.291	0.69	9.32	5.68	0.85
1st	HW41	03/18/2009	14.62	8.28	33.282	0.69	9.32	5.84	0.88

**Attachment M**  
**Terminal Island Water Reclamation Plant (CA0053856)**  
**Projected Total Ammonia Concentration in Receiving Water**

Quarter	Station	Date	Temp 1	pH	Salinity	l	pKas	1-hour EPA Objective (expressed as total)	4-day EPA Objective (expressed as total)
1st	HW41	03/18/2009	14.43	8.25	33.307	0.69	9.32	6.32	0.95
1st	HW41	03/18/2009	14.3	8.21	33.318	0.69	9.32	6.98	1.05
1st	HW41	03/18/2009	14.23	8.18	33.326	0.69	9.32	7.50	1.13
1st	HW43	03/18/2009	14.77	8.15	33.034	0.68	9.32	7.70	1.16
1st	HW43	03/18/2009	14.34	8.15	33.067	0.68	9.32	7.94	1.19
1st	HW43	03/18/2009	14.22	8.16	33.097	0.68	9.32	7.83	1.18
1st	HW43	03/18/2009	14.19	8.17	33.132	0.68	9.32	7.68	1.15
1st	HW43	03/18/2009	14.17	8.17	33.176	0.68	9.32	7.69	1.16
1st	HW43	03/18/2009	14.25	8.17	33.237	0.69	9.32	7.65	1.15
1st	HW43	03/18/2009	14.27	8.18	33.318	0.69	9.32	7.47	1.12
1st	HW43	03/18/2009	13.91	8.17	33.341	0.69	9.32	7.85	1.18
1st	HW44	03/18/2009	14.31	8.16	33.084	0.68	9.32	7.78	1.17
1st	HW44	03/18/2009	14.28	8.17	33.11	0.68	9.32	7.63	1.15
1st	HW44	03/18/2009	14.48	8.18	33.191	0.68	9.32	7.36	1.11
1st	HW44	03/18/2009	14.5	8.21	33.217	0.68	9.32	6.87	1.03
1st	HW44	03/18/2009	14.29	8.22	33.182	0.68	9.32	6.82	1.02
1st	HW44	03/18/2009	14.08	8.19	33.206	0.68	9.32	7.41	1.11
1st	HW44	03/18/2009	14.05	8.16	33.285	0.69	9.32	7.94	1.19
1st	HW44	03/18/2009	13.89	8.16	33.336	0.69	9.32	8.03	1.21
1st	HW44	03/18/2009	13.49	8.14	33.381	0.69	9.32	8.65	1.30
1st	HW44	03/18/2009	13.33	8.12	33.406	0.69	9.32	9.16	1.38
1st	HW44	03/18/2009	13.15	8.1	33.417	0.69	9.32	9.70	1.46
1st	HW44	03/18/2009	13.03	8.09	33.435	0.69	9.32	10.01	1.50
1st	HW44	03/18/2009	13.01	8.08	33.437	0.69	9.32	10.26	1.54
1st	HW44	03/18/2009	13.01	8.08	33.438	0.69	9.32	10.26	1.54
1st	HW44	03/18/2009	12.97	8.07	33.439	0.69	9.32	10.52	1.58
1st	HW44	03/18/2009	12.88	8.07	33.447	0.69	9.33	10.59	1.59
1st	HW44	03/18/2009	12.75	8.06	33.458	0.69	9.33	10.93	1.64
1st	HW44	03/18/2009	12.63	8.05	33.472	0.69	9.33	11.28	1.69
1st	HW47	03/18/2009	14.09	8.03	33.322	0.69	9.32	10.60	1.59
1st	HW47	03/18/2009	14.09	8.05	33.321	0.69	9.32	10.13	1.52
1st	HW47	03/18/2009	14.1	8.06	33.321	0.69	9.32	9.90	1.49
1st	HW47	03/18/2009	14.09	8.06	33.32	0.69	9.32	9.91	1.49
1st	HW47	03/18/2009	13.99	8.06	33.329	0.69	9.32	9.98	1.50
1st	HW47	03/18/2009	13.98	8.07	33.34	0.69	9.32	9.77	1.47
1st	HW47	03/18/2009	13.98	8.07	33.343	0.69	9.32	9.77	1.47
1st	HW47	03/18/2009	13.94	8.07	33.347	0.69	9.32	9.80	1.47
1st	HW47	03/18/2009	13.91	8.08	33.353	0.69	9.32	9.60	1.44
1st	HW47	03/18/2009	13.88	8.08	33.357	0.69	9.32	9.62	1.45
1st	HW47	03/18/2009	13.86	8.08	33.357	0.69	9.32	9.63	1.45
1st	HW47	03/18/2009	13.8	8.08	33.363	0.69	9.32	9.68	1.45
1st	HW47	03/18/2009	13.64	8.08	33.381	0.69	9.32	9.79	1.47
1st	HW49	03/18/2009	14.61	7.68	33.308	0.69	9.32	22.56	3.39
1st	HW49	03/18/2009	14.56	7.69	33.312	0.69	9.32	22.13	3.32
1st	HW49	03/18/2009	14.45	7.71	33.314	0.69	9.32	21.32	3.20
1st	HW49	03/18/2009	14.3	7.72	33.32	0.69	9.32	21.07	3.17
1st	HW49	03/18/2009	14.07	7.72	33.35	0.69	9.32	21.44	3.22
1st	HW50	03/18/2009	14.83	8.25	33.248	0.69	9.32	6.14	0.92
1st	HW50	03/18/2009	14.79	8.25	33.249	0.69	9.32	6.16	0.93
1st	HW50	03/18/2009	14.64	8.25	33.268	0.69	9.32	6.23	0.94
1st	HW50	03/18/2009	14.56	8.25	33.276	0.69	9.32	6.26	0.94
1st	HW50	03/18/2009	14.52	8.25	33.284	0.69	9.32	6.28	0.94
1st	HW50	03/18/2009	14.49	8.24	33.299	0.69	9.32	6.44	0.97
1st	HW50	03/18/2009	14.35	8.23	33.315	0.69	9.32	6.65	1.00
1st	HW50	03/18/2009	14.19	8.21	33.323	0.69	9.32	7.03	1.06
1st	HW50	03/18/2009	14	8.17	33.337	0.69	9.32	7.79	1.17
1st	HW51	03/18/2009	15.02	8.27	33.257	0.69	9.32	5.80	0.87
1st	HW51	03/18/2009	14.85	8.27	33.273	0.69	9.32	5.87	0.88

**Attachment M**  
**Terminal Island Water Reclamation Plant (CA0053856)**  
**Projected Total Ammonia Concentration in Receiving Water**

Quarter	Station	Date	Temp 1	pH	Salinity	l	pKas	1-hour EPA Objective (expressed as total)	4-day EPA Objective (expressed as total)
1st	HW51	03/18/2009	14.76	8.28	33.277	0.69	9.32	5.78	0.87
1st	HW51	03/18/2009	14.73	8.28	33.284	0.69	9.32	5.79	0.87
1st	HW51	03/18/2009	14.64	8.28	33.308	0.69	9.32	5.83	0.88
1st	HW51	03/18/2009	14.46	8.24	33.321	0.69	9.32	6.45	0.97
1st	HW51	03/18/2009	14.38	8.22	33.322	0.69	9.32	6.78	1.02
1st	HW51	03/18/2009	14.33	8.21	33.323	0.69	9.32	6.96	1.05
1st	HW51	03/18/2009	14.27	8.2	33.326	0.69	9.32	7.15	1.07
1st	HW53	03/18/2009	14.98	8.27	33.304	0.69	9.32	5.82	0.87
1st	HW53	03/18/2009	14.94	8.27	33.308	0.69	9.32	5.83	0.88
1st	HW53	03/18/2009	14.8	8.27	33.299	0.69	9.32	5.89	0.88
1st	HW53	03/18/2009	14.58	8.26	33.279	0.69	9.32	6.12	0.92
1st	HW53	03/18/2009	14.52	8.25	33.315	0.69	9.32	6.28	0.94
1st	HW53	03/18/2009	14.34	8.23	33.323	0.69	9.32	6.65	1.00
1st	HW53	03/18/2009	14.17	8.2	33.325	0.69	9.32	7.20	1.08
1st	HW53	03/18/2009	14.02	8.17	33.337	0.69	9.32	7.78	1.17
1st	HW53	03/18/2009	14.01	8.15	33.339	0.69	9.32	8.15	1.22
1st	HW54	03/18/2009	14.48	8.21	33.172	0.68	9.32	6.88	1.03
1st	HW54	03/18/2009	14.67	8.21	33.242	0.69	9.32	6.79	1.02
1st	HW54	03/18/2009	14.65	8.24	33.252	0.69	9.32	6.36	0.96
1st	HW54	03/18/2009	14.27	8.24	33.189	0.68	9.32	6.54	0.98
1st	HW54	03/18/2009	14.09	8.21	33.183	0.68	9.32	7.08	1.06
1st	HW54	03/18/2009	14.21	8.18	33.264	0.69	9.32	7.50	1.13
1st	HW54	03/18/2009	14.21	8.17	33.297	0.69	9.32	7.68	1.15
1st	HW54	03/18/2009	14.1	8.16	33.329	0.69	9.32	7.91	1.19
1st	HW54	03/18/2009	13.94	8.15	33.349	0.69	9.32	8.19	1.23
1st	HW54	03/18/2009	13.78	8.13	33.36	0.69	9.32	8.66	1.30
1st	HW54	03/18/2009	13.38	8.12	33.4	0.69	9.32	9.12	1.37
1st	HW54	03/18/2009	13.24	8.11	33.414	0.69	9.32	9.43	1.42
1st	HW54	03/18/2009	13.2	8.09	33.417	0.69	9.32	9.89	1.49
1st	HW54	03/18/2009	13.12	8.09	33.425	0.69	9.32	9.95	1.49
1st	HW54	03/18/2009	12.95	8.08	33.442	0.69	9.32	10.30	1.55
1st	HW54	03/18/2009	12.78	8.07	33.453	0.69	9.33	10.67	1.60
1st	HW54	03/18/2009	12.64	8.06	33.466	0.69	9.33	11.02	1.66
1st	HW56	03/18/2009	14.27	8.07	33.316	0.69	9.32	9.56	1.44
1st	HW56	03/18/2009	14.21	8.07	33.321	0.69	9.32	9.60	1.44
1st	HW56	03/18/2009	14.21	8.08	33.321	0.69	9.32	9.39	1.41
1st	HW56	03/18/2009	14.2	8.08	33.322	0.69	9.32	9.40	1.41
1st	HW56	03/18/2009	14.09	8.08	33.334	0.69	9.32	9.47	1.42
1st	HW56	03/18/2009	13.99	8.08	33.344	0.69	9.32	9.54	1.43
1st	HW56	03/18/2009	13.86	8.08	33.358	0.69	9.32	9.64	1.45
1st	HW56	03/18/2009	13.81	8.08	33.363	0.69	9.32	9.67	1.45
1st	HW56	03/18/2009	13.67	8.08	33.374	0.69	9.32	9.77	1.47
1st	HW56	03/18/2009	13.62	8.07	33.379	0.69	9.32	10.03	1.51
1st	HW62	03/18/2009	14.48	8.21	33.294	0.69	9.32	6.89	1.03
1st	HW62	03/18/2009	14.47	8.21	33.295	0.69	9.32	6.89	1.04
1st	HW62	03/18/2009	14.45	8.21	33.298	0.69	9.32	6.90	1.04
1st	HW62	03/18/2009	14.43	8.21	33.298	0.69	9.32	6.91	1.04
1st	HW62	03/18/2009	14.4	8.21	33.3	0.69	9.32	6.93	1.04
1st	HW62	03/18/2009	14.36	8.21	33.304	0.69	9.32	6.95	1.04
1st	HW62	03/18/2009	14.32	8.2	33.308	0.69	9.32	7.12	1.07
1st	HW62	03/18/2009	14.15	8.19	33.324	0.69	9.32	7.37	1.11
1st	HW62	03/18/2009	14.12	8.17	33.326	0.69	9.32	7.73	1.16
1st	HW62	03/18/2009	14.12	8.16	33.326	0.69	9.32	7.90	1.19
1st	HW63	03/18/2009	14.72	8.24	33.303	0.69	9.32	6.33	0.95
1st	HW63	03/18/2009	14.72	8.24	33.303	0.69	9.32	6.33	0.95
1st	HW63	03/18/2009	14.74	8.24	33.302	0.69	9.32	6.32	0.95
1st	HW63	03/18/2009	14.6	8.25	33.308	0.69	9.32	6.25	0.94
1st	HW63	03/18/2009	14.34	8.24	33.311	0.69	9.32	6.51	0.98

**Attachment M**  
**Terminal Island Water Reclamation Plant (CA0053856)**  
**Projected Total Ammonia Concentration in Receiving Water**

Quarter	Station	Date	Temp 1	pH	Salinity	l	pKas	1-hour EPA Objective (expressed as total)	4-day EPA Objective (expressed as total)
1st	HW63	03/18/2009	14.29	8.2	33.312	0.69	9.32	7.14	1.07
1st	HW63	03/18/2009	14.2	8.18	33.314	0.69	9.32	7.51	1.13
1st	HW63	03/18/2009	14.04	8.17	33.331	0.69	9.32	7.77	1.17
1st	HW63	03/18/2009	13.87	8.16	33.35	0.69	9.32	8.05	1.21
1st	HW63	03/18/2009	13.83	8.14	33.356	0.69	9.32	8.44	1.27
1st	HW63	03/18/2009	13.69	8.13	33.371	0.69	9.32	8.72	1.31
1st	HW63	03/18/2009	13.52	8.13	33.392	0.69	9.32	8.83	1.33
1st	HW63	03/18/2009	13.32	8.12	33.412	0.69	9.32	9.16	1.38
1st	HW63	03/18/2009	13.12	8.1	33.429	0.69	9.32	9.73	1.46
1st	HW63	03/18/2009	12.84	8.09	33.451	0.69	9.33	10.15	1.53
1st	HW63	03/18/2009	12.48	8.07	33.478	0.69	9.33	10.90	1.64
1st	HW63	03/18/2009	12.43	8.04	33.481	0.69	9.33	11.71	1.76
1st	HW63	03/18/2009	12.38	8.02	33.484	0.69	9.33	12.30	1.85
1st	HW63	03/18/2009	12.37	8.02	33.487	0.69	9.33	12.31	1.85
1st	HW63	03/18/2009	12.37	8.01	33.489	0.69	9.33	12.59	1.89
1st	HW64	03/18/2009	14.37	8.19	33.294	0.69	9.32	7.26	1.09
1st	HW64	03/18/2009	14.36	8.19	33.294	0.69	9.32	7.26	1.09
1st	HW64	03/18/2009	14.35	8.19	33.293	0.69	9.32	7.27	1.09
1st	HW64	03/18/2009	14.35	8.19	33.293	0.69	9.32	7.27	1.09
1st	HW64	03/18/2009	14.35	8.19	33.293	0.69	9.32	7.27	1.09
1st	HW64	03/18/2009	14.27	8.19	33.299	0.69	9.32	7.31	1.10
1st	HW64	03/18/2009	14.21	8.18	33.305	0.69	9.32	7.51	1.13
1st	HW64	03/18/2009	14.05	8.17	33.325	0.69	9.32	7.77	1.17
1st	HW64	03/18/2009	13.85	8.16	33.35	0.69	9.32	8.06	1.21
1st	HW64	03/18/2009	13.69	8.13	33.373	0.69	9.32	8.72	1.31
1st	HW64	03/18/2009	13.56	8.11	33.388	0.69	9.32	9.21	1.38
1st	HW64	03/18/2009	13.35	8.1	33.408	0.69	9.32	9.56	1.44
1st	HW64	03/18/2009	13.2	8.09	33.422	0.69	9.32	9.89	1.49
1st	HW64	03/18/2009	13.06	8.08	33.434	0.69	9.32	10.22	1.53
1st	HW64	03/18/2009	13.01	8.07	33.437	0.69	9.32	10.49	1.58
1st	HW64	03/18/2009	12.68	8.06	33.458	0.69	9.33	10.99	1.65
1st	HW64	03/18/2009	12.65	8.04	33.459	0.69	9.33	11.52	1.73
1st	HW64	03/18/2009	12.59	8.04	33.464	0.69	9.33	11.57	1.74
1st	HW64	03/18/2009	12.53	8.03	33.468	0.69	9.33	11.89	1.79
1st	HW64	03/18/2009	12.44	8.02	33.476	0.69	9.33	12.24	1.84
1st	HW65	03/18/2009	14.12	8.07	33.337	0.69	9.32	9.67	1.45
1st	HW65	03/18/2009	14.09	8.07	33.338	0.69	9.32	9.69	1.46
1st	HW65	03/18/2009	14.07	8.07	33.341	0.69	9.32	9.70	1.46
1st	HW65	03/18/2009	14.03	8.07	33.349	0.69	9.32	9.73	1.46
1st	HW65	03/18/2009	14.02	8.08	33.353	0.69	9.32	9.52	1.43
1st	HW65	03/18/2009	13.97	8.09	33.357	0.69	9.32	9.35	1.40
1st	HW65	03/18/2009	13.95	8.09	33.358	0.69	9.32	9.36	1.41
1st	HW65	03/18/2009	13.92	8.09	33.36	0.69	9.32	9.38	1.41
1st	HW65	03/18/2009	13.88	8.09	33.364	0.69	9.32	9.41	1.41
2nd	HW20	05/20/2009	18.56	8.22	33.512	0.69	9.33	5.03	0.76
2nd	HW20	05/20/2009	18.37	8.22	33.491	0.69	9.33	5.10	0.77
2nd	HW20	05/20/2009	18.1	8.22	33.473	0.69	9.33	5.20	0.78
2nd	HW20	05/20/2009	17.75	8.21	33.45	0.69	9.33	5.45	0.82
2nd	HW20	05/20/2009	17.47	8.2	33.464	0.69	9.33	5.68	0.85
2nd	HW20	05/20/2009	17.24	8.19	33.485	0.69	9.33	5.91	0.89
2nd	HW20	05/20/2009	17.01	8.18	33.503	0.69	9.33	6.14	0.92
2nd	HW20	05/20/2009	16.45	8.16	33.493	0.69	9.33	6.68	1.00
2nd	HW20	05/20/2009	15.98	8.14	33.506	0.69	9.33	7.23	1.09
2nd	HW20	05/20/2009	15.43	8.12	33.538	0.69	9.33	7.87	1.18
2nd	HW20	05/20/2009	14.28	8.1	33.564	0.69	9.33	8.95	1.34
2nd	HW20	05/20/2009	13.38	8.06	33.586	0.69	9.33	10.45	1.57
2nd	HW21	05/20/2009	18.97	8.25	33.526	0.69	9.33	4.58	0.69
2nd	HW21	05/20/2009	18.94	8.25	33.525	0.69	9.33	4.59	0.69

**Attachment M**  
**Terminal Island Water Reclamation Plant (CA0053856)**  
**Projected Total Ammonia Concentration in Receiving Water**

Quarter	Station	Date	Temp 1	pH	Salinity	l	pKas	1-hour EPA Objective (expressed as total)	4-day EPA Objective (expressed as total)
2nd	HW21	05/20/2009	18.78	8.25	33.518	0.69	9.33	4.64	0.70
2nd	HW21	05/20/2009	18.48	8.25	33.5	0.69	9.33	4.74	0.71
2nd	HW21	05/20/2009	17.91	8.25	33.494	0.69	9.33	4.94	0.74
2nd	HW21	05/20/2009	17.38	8.22	33.52	0.69	9.33	5.48	0.82
2nd	HW21	05/20/2009	17.12	8.19	33.529	0.69	9.33	5.96	0.90
2nd	HW23	05/20/2009	17.67	8.16	33.189	0.68	9.32	6.11	0.92
2nd	HW23	05/20/2009	17.59	8.16	33.199	0.68	9.32	6.15	0.92
2nd	HW23	05/20/2009	17.51	8.16	33.229	0.69	9.32	6.18	0.93
2nd	HW23	05/20/2009	17.52	8.16	33.352	0.69	9.32	6.18	0.93
2nd	HW23	05/20/2009	17.32	8.18	33.436	0.69	9.32	6.00	0.90
2nd	HW23	05/20/2009	17.34	8.17	33.47	0.69	9.33	6.13	0.92
2nd	HW24	05/20/2009	18.44	8.23	33.437	0.69	9.32	4.96	0.75
2nd	HW24	05/20/2009	18.41	8.23	33.427	0.69	9.32	4.98	0.75
2nd	HW24	05/20/2009	18.06	8.23	33.34	0.69	9.32	5.10	0.77
2nd	HW24	05/20/2009	17.74	8.21	33.27	0.69	9.32	5.45	0.82
2nd	HW24	05/20/2009	17.67	8.18	33.268	0.69	9.32	5.85	0.88
2nd	HW24	05/20/2009	17.77	8.18	33.4	0.69	9.32	5.81	0.87
2nd	HW24	05/20/2009	17.64	8.19	33.447	0.69	9.33	5.74	0.86
2nd	HW24	05/20/2009	17.29	8.19	33.364	0.69	9.32	5.88	0.88
2nd	HW24	05/20/2009	17.25	8.19	33.389	0.69	9.32	5.90	0.89
2nd	HW24	05/20/2009	16.97	8.18	33.438	0.69	9.32	6.16	0.92
2nd	HW24	05/20/2009	14.42	8.16	33.519	0.69	9.33	7.74	1.16
2nd	HW24	05/20/2009	12.81	8.08	33.59	0.69	9.33	10.41	1.56
2nd	HW24	05/20/2009	12.42	8.02	33.593	0.69	9.33	12.27	1.84
2nd	HW24	05/20/2009	12.23	7.98	33.598	0.69	9.33	13.62	2.05
2nd	HW24	05/20/2009	12.09	7.96	33.605	0.69	9.33	14.40	2.16
2nd	HW24	05/20/2009	11.91	7.93	33.613	0.69	9.33	15.62	2.35
2nd	HW24	05/20/2009	11.89	7.91	33.617	0.69	9.33	16.37	2.46
2nd	HW24	05/20/2009	11.85	7.91	33.622	0.69	9.33	16.41	2.47
2nd	HW33	05/20/2009	18.87	8.24	33.503	0.69	9.33	4.71	0.71
2nd	HW33	05/20/2009	18.61	8.24	33.451	0.69	9.33	4.80	0.72
2nd	HW33	05/20/2009	18.29	8.23	33.371	0.69	9.32	5.02	0.75
2nd	HW33	05/20/2009	17.48	8.22	33.261	0.69	9.32	5.43	0.82
2nd	HW33	05/20/2009	17.46	8.19	33.411	0.69	9.32	5.81	0.87
2nd	HW33	05/20/2009	17.34	8.19	33.443	0.69	9.32	5.87	0.88
2nd	HW33	05/20/2009	16.78	8.18	33.425	0.69	9.32	6.24	0.94
2nd	HW33	05/20/2009	15.2	8.11	33.33	0.69	9.32	8.17	1.23
2nd	HW40	05/20/2009	18.97	8.25	33.524	0.69	9.33	4.58	0.69
2nd	HW40	05/20/2009	18.97	8.25	33.523	0.69	9.33	4.58	0.69
2nd	HW40	05/20/2009	18.69	8.25	33.52	0.69	9.33	4.67	0.70
2nd	HW40	05/20/2009	18.04	8.25	33.523	0.69	9.33	4.89	0.73
2nd	HW40	05/20/2009	17.82	8.24	33.521	0.69	9.33	5.08	0.76
2nd	HW40	05/20/2009	17.26	8.23	33.53	0.69	9.33	5.40	0.81
2nd	HW40	05/20/2009	16.98	8.21	33.536	0.69	9.33	5.76	0.87
2nd	HW40	05/20/2009	16.48	8.2	33.547	0.69	9.33	6.11	0.92
2nd	HW40	05/20/2009	16.01	8.16	33.556	0.69	9.33	6.90	1.04
2nd	HW41	05/20/2009	19.02	8.25	33.527	0.69	9.33	4.56	0.69
2nd	HW41	05/20/2009	18.86	8.25	33.524	0.69	9.33	4.61	0.69
2nd	HW41	05/20/2009	18.42	8.25	33.518	0.69	9.33	4.76	0.72
2nd	HW41	05/20/2009	17.97	8.24	33.518	0.69	9.33	5.02	0.75
2nd	HW41	05/20/2009	17.65	8.23	33.521	0.69	9.33	5.25	0.79
2nd	HW41	05/20/2009	17.12	8.2	33.531	0.69	9.33	5.83	0.88
2nd	HW41	05/20/2009	16.47	8.18	33.546	0.69	9.33	6.39	0.96
2nd	HW41	05/20/2009	16.05	8.14	33.553	0.69	9.33	7.20	1.08
2nd	HW43	05/20/2009	18.92	8.25	33.52	0.69	9.33	4.59	0.69
2nd	HW43	05/20/2009	18.73	8.25	33.519	0.69	9.33	4.66	0.70
2nd	HW43	05/20/2009	18.61	8.25	33.52	0.69	9.33	4.70	0.71
2nd	HW43	05/20/2009	18.35	8.25	33.506	0.69	9.33	4.78	0.72

**Attachment M**  
**Terminal Island Water Reclamation Plant (CA0053856)**  
**Projected Total Ammonia Concentration in Receiving Water**

Quarter	Station	Date	Temp 1	pH	Salinity	I	pKas	1-hour EPA Objective (expressed as total)	4-day EPA Objective (expressed as total)
2nd	HW43	05/20/2009	17.54	8.24	33.451	0.69	9.33	5.18	0.78
2nd	HW43	05/20/2009	17.35	8.21	33.46	0.69	9.33	5.61	0.84
2nd	HW43	05/20/2009	17.23	8.18	33.462	0.69	9.33	6.04	0.91
2nd	HW43	05/20/2009	16.72	8.16	33.405	0.69	9.32	6.55	0.98
2nd	HW43	05/20/2009	15.92	8.13	33.292	0.69	9.32	7.42	1.11
2nd	HW44	05/20/2009	18.72	8.25	33.521	0.69	9.33	4.66	0.70
2nd	HW44	05/20/2009	18.71	8.25	33.522	0.69	9.33	4.66	0.70
2nd	HW44	05/20/2009	18.68	8.25	33.522	0.69	9.33	4.67	0.70
2nd	HW44	05/20/2009	18.34	8.25	33.483	0.69	9.33	4.79	0.72
2nd	HW44	05/20/2009	17.53	8.25	33.447	0.69	9.33	5.07	0.76
2nd	HW44	05/20/2009	17.48	8.22	33.46	0.69	9.33	5.44	0.82
2nd	HW44	05/20/2009	17.49	8.21	33.48	0.69	9.33	5.55	0.83
2nd	HW44	05/20/2009	17.32	8.2	33.457	0.69	9.33	5.75	0.86
2nd	HW44	05/20/2009	16.56	8.19	33.416	0.69	9.32	6.20	0.93
2nd	HW44	05/20/2009	15.71	8.15	33.463	0.69	9.33	7.21	1.08
2nd	HW44	05/20/2009	15.27	8.14	33.53	0.69	9.33	7.61	1.14
2nd	HW44	05/20/2009	13.79	8.07	33.565	0.69	9.33	9.92	1.49
2nd	HW44	05/20/2009	12.87	7.98	33.607	0.69	9.33	12.99	1.95
2nd	HW44	05/20/2009	12.7	7.96	33.612	0.69	9.33	13.77	2.07
2nd	HW44	05/20/2009	12.55	7.96	33.614	0.69	9.33	13.92	2.09
2nd	HW44	05/20/2009	12.37	7.94	33.618	0.69	9.33	14.76	2.22
2nd	HW47	05/20/2009	17.98	8.13	33.542	0.69	9.33	6.40	0.96
2nd	HW47	05/20/2009	17.95	8.14	33.539	0.69	9.33	6.27	0.94
2nd	HW47	05/20/2009	17.59	8.14	33.537	0.69	9.33	6.44	0.97
2nd	HW47	05/20/2009	17.17	8.14	33.544	0.69	9.33	6.64	1.00
2nd	HW47	05/20/2009	17.15	8.13	33.539	0.69	9.33	6.80	1.02
2nd	HW47	05/20/2009	16.94	8.13	33.544	0.69	9.33	6.90	1.04
2nd	HW47	05/20/2009	16.85	8.12	33.541	0.69	9.33	7.10	1.07
2nd	HW47	05/20/2009	16.71	8.12	33.542	0.69	9.33	7.17	1.08
2nd	HW47	05/20/2009	16.1	8.12	33.553	0.69	9.33	7.50	1.13
2nd	HW47	05/20/2009	15.15	8.11	33.569	0.69	9.33	8.21	1.23
2nd	HW47	05/20/2009	14.67	8.09	33.573	0.69	9.33	8.89	1.34
2nd	HW47	05/20/2009	14.27	8.07	33.578	0.69	9.33	9.58	1.44
2nd	HW47	05/20/2009	13.58	8.06	33.588	0.69	9.33	10.30	1.55
2nd	HW47	05/20/2009	13.19	8.02	33.602	0.69	9.33	11.60	1.74
2nd	HW49	05/20/2009	18.1	8.17	33.538	0.69	9.33	5.81	0.87
2nd	HW49	05/20/2009	18.08	8.17	33.539	0.69	9.33	5.82	0.87
2nd	HW49	05/20/2009	17.94	8.17	33.54	0.69	9.33	5.88	0.88
2nd	HW50	05/20/2009	18.9	8.24	33.525	0.69	9.33	4.70	0.71
2nd	HW50	05/20/2009	18.75	8.24	33.525	0.69	9.33	4.75	0.71
2nd	HW50	05/20/2009	18.48	8.24	33.523	0.69	9.33	4.85	0.73
2nd	HW50	05/20/2009	17.93	8.24	33.523	0.69	9.33	5.04	0.76
2nd	HW50	05/20/2009	17.51	8.22	33.529	0.69	9.33	5.43	0.81
2nd	HW50	05/20/2009	16.91	8.22	33.54	0.69	9.33	5.66	0.85
2nd	HW50	05/20/2009	16.5	8.2	33.546	0.69	9.33	6.10	0.92
2nd	HW50	05/20/2009	16.37	8.17	33.549	0.69	9.33	6.58	0.99
2nd	HW51	05/20/2009	18.87	8.24	33.523	0.69	9.33	4.71	0.71
2nd	HW51	05/20/2009	18.67	8.24	33.522	0.69	9.33	4.78	0.72
2nd	HW51	05/20/2009	18.33	8.24	33.521	0.69	9.33	4.90	0.74
2nd	HW51	05/20/2009	17.93	8.24	33.522	0.69	9.33	5.04	0.76
2nd	HW51	05/20/2009	17.6	8.24	33.527	0.69	9.33	5.16	0.77
2nd	HW51	05/20/2009	17.47	8.22	33.53	0.69	9.33	5.44	0.82
2nd	HW51	05/20/2009	17.19	8.2	33.537	0.69	9.33	5.80	0.87
2nd	HW51	05/20/2009	16.86	8.18	33.541	0.69	9.33	6.21	0.93
2nd	HW51	05/20/2009	16.41	8.18	33.548	0.69	9.33	6.41	0.96
2nd	HW53	05/20/2009	18.43	8.22	33.505	0.69	9.33	5.08	0.76
2nd	HW53	05/20/2009	17.98	8.23	33.497	0.69	9.33	5.13	0.77
2nd	HW53	05/20/2009	17.48	8.21	33.44	0.69	9.32	5.56	0.83

**Attachment M**  
**Terminal Island Water Reclamation Plant (CA0053856)**  
**Projected Total Ammonia Concentration in Receiving Water**

Quarter	Station	Date	Temp 1	pH	Salinity	l	pKas	1-hour EPA Objective (expressed as total)	4-day EPA Objective (expressed as total)
2nd	HW53	05/20/2009	17.32	8.19	33.451	0.69	9.33	5.87	0.88
2nd	HW53	05/20/2009	17.12	8.17	33.429	0.69	9.32	6.23	0.94
2nd	HW53	05/20/2009	16.89	8.15	33.382	0.69	9.32	6.62	0.99
2nd	HW53	05/20/2009	16.84	8.14	33.425	0.69	9.32	6.79	1.02
2nd	HW53	05/20/2009	16.17	8.13	33.512	0.69	9.33	7.29	1.10
2nd	HW53	05/20/2009	15.02	8.11	33.562	0.69	9.33	8.29	1.25
2nd	HW54	05/20/2009	18.65	8.24	33.508	0.69	9.33	4.79	0.72
2nd	HW54	05/20/2009	18.56	8.24	33.508	0.69	9.33	4.82	0.72
2nd	HW54	05/20/2009	18.1	8.25	33.474	0.69	9.33	4.87	0.73
2nd	HW54	05/20/2009	17.56	8.23	33.424	0.69	9.32	5.29	0.79
2nd	HW54	05/20/2009	17.37	8.21	33.436	0.69	9.32	5.60	0.84
2nd	HW54	05/20/2009	17.39	8.2	33.46	0.69	9.33	5.72	0.86
2nd	HW54	05/20/2009	17.37	8.2	33.486	0.69	9.33	5.73	0.86
2nd	HW54	05/20/2009	16.34	8.18	33.383	0.69	9.32	6.44	0.97
2nd	HW54	05/20/2009	16.02	8.13	33.496	0.69	9.33	7.37	1.11
2nd	HW54	05/20/2009	15.66	8.11	33.559	0.69	9.33	7.91	1.19
2nd	HW54	05/20/2009	14.87	8.1	33.57	0.69	9.33	8.57	1.29
2nd	HW54	05/20/2009	14.22	8.08	33.577	0.69	9.33	9.40	1.41
2nd	HW54	05/20/2009	13.21	8.05	33.596	0.69	9.33	10.82	1.63
2nd	HW54	05/20/2009	12.65	8.01	33.6	0.69	9.33	12.34	1.85
2nd	HW54	05/20/2009	12.34	7.98	33.607	0.69	9.33	13.51	2.03
2nd	HW54	05/20/2009	12.18	7.96	33.613	0.69	9.33	14.30	2.15
2nd	HW54	05/20/2009	12.05	7.94	33.618	0.69	9.33	15.11	2.27
2nd	HW54	05/20/2009	11.96	7.91	33.626	0.69	9.33	16.28	2.45
2nd	HW54	05/20/2009	11.9	7.9	33.63	0.69	9.33	16.73	2.51
2nd	HW56	05/20/2009	18.06	8.15	33.52	0.69	9.33	6.09	0.91
2nd	HW56	05/20/2009	17.83	8.15	33.523	0.69	9.33	6.19	0.93
2nd	HW56	05/20/2009	17.76	8.15	33.524	0.69	9.33	6.22	0.93
2nd	HW56	05/20/2009	17.71	8.15	33.525	0.69	9.33	6.24	0.94
2nd	HW56	05/20/2009	17.39	8.15	33.534	0.69	9.33	6.39	0.96
2nd	HW56	05/20/2009	17	8.14	33.548	0.69	9.33	6.72	1.01
2nd	HW56	05/20/2009	16.76	8.14	33.553	0.69	9.33	6.84	1.03
2nd	HW56	05/20/2009	16.5	8.13	33.562	0.69	9.33	7.12	1.07
2nd	HW56	05/20/2009	16.01	8.12	33.567	0.69	9.33	7.55	1.13
2nd	HW56	05/20/2009	15.39	8.1	33.576	0.69	9.33	8.25	1.24
2nd	HW56	05/20/2009	13.94	8.08	33.582	0.69	9.33	9.59	1.44
2nd	HW56	05/20/2009	12.96	8.05	33.6	0.69	9.33	11.02	1.66
2nd	HW62	05/20/2009	18.5	8.23	33.518	0.69	9.33	4.95	0.74
2nd	HW62	05/20/2009	18.26	8.23	33.512	0.69	9.33	5.03	0.76
2nd	HW62	05/20/2009	18.12	8.22	33.51	0.69	9.33	5.19	0.78
2nd	HW62	05/20/2009	18.05	8.22	33.512	0.69	9.33	5.22	0.78
2nd	HW62	05/20/2009	17.81	8.22	33.51	0.69	9.33	5.31	0.80
2nd	HW62	05/20/2009	17.64	8.21	33.514	0.69	9.33	5.49	0.83
2nd	HW62	05/20/2009	17.28	8.19	33.529	0.69	9.33	5.89	0.89
2nd	HW62	05/20/2009	16.65	8.17	33.537	0.69	9.33	6.45	0.97
2nd	HW62	05/20/2009	15.93	8.14	33.555	0.69	9.33	7.26	1.09
2nd	HW62	05/20/2009	15.86	8.1	33.558	0.69	9.33	7.98	1.20
2nd	HW63	05/20/2009	18.37	8.22	33.511	0.69	9.33	5.10	0.77
2nd	HW63	05/20/2009	18.41	8.22	33.511	0.69	9.33	5.09	0.76
2nd	HW63	05/20/2009	17.97	8.22	33.486	0.69	9.33	5.25	0.79
2nd	HW63	05/20/2009	17.59	8.21	33.478	0.69	9.33	5.51	0.83
2nd	HW63	05/20/2009	17	8.17	33.489	0.69	9.33	6.28	0.94
2nd	HW63	05/20/2009	16.79	8.15	33.513	0.69	9.33	6.67	1.00
2nd	HW63	05/20/2009	16.51	8.14	33.537	0.69	9.33	6.96	1.05
2nd	HW63	05/20/2009	15.51	8.13	33.56	0.69	9.33	7.65	1.15
2nd	HW63	05/20/2009	14.44	8.1	33.573	0.69	9.33	8.84	1.33
2nd	HW63	05/20/2009	13.47	8.06	33.583	0.69	9.33	10.38	1.56
2nd	HW63	05/20/2009	12.75	8.02	33.595	0.69	9.33	11.98	1.80

**Attachment M**  
**Terminal Island Water Reclamation Plant (CA0053856)**  
**Projected Total Ammonia Concentration in Receiving Water**

Quarter	Station	Date	Temp 1	pH	Salinity	l	pKas	1-hour EPA Objective (expressed as total)	4-day EPA Objective (expressed as total)
2nd	HW63	05/20/2009	12.25	7.98	33.606	0.69	9.33	13.60	2.04
2nd	HW63	05/20/2009	11.97	7.95	33.615	0.69	9.33	14.86	2.23
2nd	HW63	05/20/2009	11.69	7.92	33.623	0.69	9.33	16.24	2.44
2nd	HW63	05/20/2009	11.64	7.9	33.627	0.69	9.33	17.05	2.56
2nd	HW63	05/20/2009	11.64	7.89	33.63	0.69	9.33	17.44	2.62
2nd	HW63	05/20/2009	11.59	7.88	33.633	0.69	9.33	17.91	2.69
2nd	HW63	05/20/2009	11.47	7.88	33.637	0.69	9.33	18.07	2.71
2nd	HW64	05/20/2009	18.17	8.24	33.5	0.69	9.33	4.95	0.74
2nd	HW64	05/20/2009	17.83	8.23	33.502	0.69	9.33	5.19	0.78
2nd	HW64	05/20/2009	17.61	8.22	33.487	0.69	9.33	5.39	0.81
2nd	HW64	05/20/2009	17.3	8.2	33.417	0.69	9.32	5.75	0.86
2nd	HW64	05/20/2009	17.3	8.18	33.451	0.69	9.33	6.01	0.90
2nd	HW64	05/20/2009	17.16	8.17	33.46	0.69	9.33	6.21	0.93
2nd	HW64	05/20/2009	17.01	8.16	33.52	0.69	9.33	6.42	0.96
2nd	HW64	05/20/2009	16.54	8.16	33.542	0.69	9.33	6.64	1.00
2nd	HW64	05/20/2009	16.06	8.14	33.55	0.69	9.33	7.19	1.08
2nd	HW64	05/20/2009	15.37	8.12	33.555	0.69	9.33	7.90	1.19
2nd	HW64	05/20/2009	13.94	8.1	33.574	0.69	9.33	9.17	1.38
2nd	HW64	05/20/2009	13.32	8.06	33.583	0.69	9.33	10.50	1.58
2nd	HW64	05/20/2009	12.87	8.02	33.592	0.69	9.33	11.87	1.78
2nd	HW64	05/20/2009	12.66	7.99	33.593	0.69	9.33	12.90	1.94
2nd	HW64	05/20/2009	12.32	7.98	33.604	0.69	9.33	13.53	2.03
2nd	HW64	05/20/2009	12.18	7.95	33.61	0.69	9.33	14.63	2.20
2nd	HW64	05/20/2009	12.04	7.94	33.615	0.69	9.33	15.12	2.27
2nd	HW64	05/20/2009	11.75	7.92	33.624	0.69	9.33	16.16	2.43
2nd	HW64	05/20/2009	11.57	7.9	33.629	0.69	9.33	17.14	2.57
2nd	HW64	05/20/2009	11.47	7.89	33.633	0.69	9.33	17.66	2.65
2nd	HW64	05/20/2009	11.47	7.88	33.636	0.69	9.33	18.07	2.71
2nd	HW65	05/20/2009	18.56	8.22	33.512	0.69	9.33	5.03	0.76
2nd	HW65	05/20/2009	18.37	8.22	33.491	0.69	9.33	5.10	0.77
2nd	HW65	05/20/2009	18.1	8.22	33.473	0.69	9.33	5.20	0.78
2nd	HW65	05/20/2009	17.75	8.21	33.45	0.69	9.33	5.45	0.82
2nd	HW65	05/20/2009	17.47	8.2	33.464	0.69	9.33	5.68	0.85
2nd	HW65	05/20/2009	17.24	8.19	33.485	0.69	9.33	5.91	0.89
2nd	HW65	05/20/2009	17.01	8.18	33.503	0.69	9.33	6.14	0.92
2nd	HW65	05/20/2009	16.45	8.16	33.493	0.69	9.33	6.68	1.00
2nd	HW65	05/20/2009	15.98	8.14	33.506	0.69	9.33	7.23	1.09
2nd	HW65	05/20/2009	15.43	8.12	33.538	0.69	9.33	7.87	1.18
2nd	HW65	05/20/2009	14.28	8.1	33.564	0.69	9.33	8.95	1.34
2nd	HW65	05/20/2009	13.38	8.06	33.586	0.69	9.33	10.45	1.57
2nd	HW65	05/20/2009	12.82	8.01	33.599	0.69	9.33	12.19	1.83
2nd	HW65	05/20/2009	12.52	7.98	33.605	0.69	9.33	13.33	2.00
2nd	HW65	05/20/2009	12.19	7.96	33.611	0.69	9.33	14.29	2.15
3rd	HW20	09/10/2009	22.67	8.28	33.359	0.69	9.32	3.31	0.50
3rd	HW20	09/10/2009	22.58	8.28	33.354	0.69	9.32	3.33	0.50
3rd	HW20	09/10/2009	22.41	8.25	33.353	0.69	9.32	3.59	0.54
3rd	HW20	09/10/2009	22.18	8.21	33.365	0.69	9.32	3.98	0.60
3rd	HW20	09/10/2009	21.98	8.19	33.385	0.69	9.32	4.22	0.63
3rd	HW20	09/10/2009	21.84	8.17	33.421	0.69	9.32	4.45	0.67
3rd	HW20	09/10/2009	21.78	8.16	33.442	0.69	9.32	4.57	0.69
3rd	HW20	09/10/2009	21.63	8.16	33.444	0.69	9.32	4.62	0.69
3rd	HW20	09/10/2009	21.67	8.17	33.467	0.69	9.33	4.50	0.68
3rd	HW20	09/10/2009	21.58	8.18	33.515	0.69	9.33	4.44	0.67
3rd	HW21	09/10/2009	22.47	8.23	33.343	0.69	9.32	3.73	0.56
3rd	HW21	09/10/2009	22.17	8.2	33.358	0.69	9.32	4.07	0.61
3rd	HW21	09/10/2009	22.04	8.18	33.368	0.69	9.32	4.29	0.64
3rd	HW21	09/10/2009	21.92	8.16	33.371	0.69	9.32	4.52	0.68
3rd	HW21	09/10/2009	21.75	8.14	33.377	0.69	9.32	4.78	0.72



**Attachment M**  
**Terminal Island Water Reclamation Plant (CA0053856)**  
**Projected Total Ammonia Concentration in Receiving Water**

Quarter	Station	Date	Temp 1	pH	Salinity	l	pKas	1-hour EPA Objective (expressed as total)	4-day EPA Objective (expressed as total)
3rd	HW21	09/10/2009	21.72	8.14	33.379	0.69	9.32	4.79	0.72
3rd	HW21	09/10/2009	21.72	8.15	33.376	0.69	9.32	4.69	0.70
3rd	HW23	09/10/2009	21.87	8.17	33.034	0.68	9.32	4.43	0.67
3rd	HW23	09/10/2009	21.85	8.17	33.045	0.68	9.32	4.44	0.67
3rd	HW23	09/10/2009	21.97	8.18	33.109	0.68	9.32	4.31	0.65
3rd	HW23	09/10/2009	22.02	8.2	33.132	0.68	9.32	4.11	0.62
3rd	HW23	09/10/2009	22.07	8.21	33.163	0.68	9.32	4.01	0.60
3rd	HW23	09/10/2009	22	8.21	33.171	0.68	9.32	4.03	0.60
3rd	HW23	09/10/2009	21.97	8.21	33.168	0.68	9.32	4.03	0.61
3rd	HW24	09/10/2009	22.27	8.27	33.209	0.68	9.32	3.47	0.52
3rd	HW24	09/10/2009	22.1	8.28	33.205	0.68	9.32	3.44	0.52
3rd	HW24	09/10/2009	21.96	8.23	33.22	0.68	9.32	3.87	0.58
3rd	HW24	09/10/2009	22.02	8.23	33.279	0.69	9.32	3.85	0.58
3rd	HW24	09/10/2009	22.1	8.22	33.363	0.69	9.32	3.92	0.59
3rd	HW24	09/10/2009	22.04	8.21	33.382	0.69	9.32	4.02	0.60
3rd	HW24	09/10/2009	21.9	8.21	33.375	0.69	9.32	4.06	0.61
3rd	HW24	09/10/2009	21.76	8.19	33.377	0.69	9.32	4.28	0.64
3rd	HW24	09/10/2009	21.56	8.17	33.398	0.69	9.32	4.54	0.68
3rd	HW24	09/10/2009	21.29	8.15	33.386	0.69	9.32	4.83	0.73
3rd	HW24	09/10/2009	21.03	8.14	33.382	0.69	9.32	5.03	0.76
3rd	HW24	09/10/2009	20.68	8.14	33.375	0.69	9.32	5.16	0.77
3rd	HW24	09/10/2009	20.43	8.12	33.368	0.69	9.32	5.49	0.82
3rd	HW24	09/10/2009	20.3	8.1	33.366	0.69	9.32	5.79	0.87
3rd	HW24	09/10/2009	19.99	8.09	33.374	0.69	9.32	6.05	0.91
3rd	HW24	09/10/2009	19.56	8.07	33.376	0.69	9.32	6.52	0.98
3rd	HW24	09/10/2009	19.17	8.06	33.378	0.69	9.32	6.86	1.03
3rd	HW24	09/10/2009	18.37	8.03	33.392	0.69	9.32	7.77	1.17
3rd	HW33	09/10/2009	21.79	8.17	33.026	0.68	9.32	4.45	0.67
3rd	HW33	09/10/2009	21.79	8.17	33.032	0.68	9.32	4.45	0.67
3rd	HW33	09/10/2009	21.78	8.17	33.036	0.68	9.32	4.46	0.67
3rd	HW33	09/10/2009	21.79	8.17	33.049	0.68	9.32	4.46	0.67
3rd	HW33	09/10/2009	21.84	8.18	33.126	0.68	9.32	4.35	0.65
3rd	HW33	09/10/2009	21.84	8.18	33.137	0.68	9.32	4.35	0.65
3rd	HW40	09/10/2009	22.83	8.28	33.341	0.69	9.32	3.27	0.49
3rd	HW40	09/10/2009	22.8	8.28	33.341	0.69	9.32	3.28	0.49
3rd	HW40	09/10/2009	22.7	8.28	33.338	0.69	9.32	3.30	0.50
3rd	HW40	09/10/2009	22.46	8.29	33.335	0.69	9.32	3.28	0.49
3rd	HW40	09/10/2009	22.3	8.31	33.34	0.69	9.32	3.18	0.48
3rd	HW40	09/10/2009	22.02	8.3	33.348	0.69	9.32	3.31	0.50
3rd	HW40	09/10/2009	21.56	8.26	33.359	0.69	9.32	3.73	0.56
3rd	HW40	09/10/2009	21.55	8.23	33.362	0.69	9.32	3.98	0.60
3rd	HW40	09/10/2009	21.52	8.19	33.373	0.69	9.32	4.35	0.65
3rd	HW40	09/10/2009	21.47	8.16	33.384	0.69	9.32	4.67	0.70
3rd	HW41	09/10/2009	22.72	8.28	33.342	0.69	9.32	3.30	0.50
3rd	HW41	09/10/2009	22.72	8.28	33.342	0.69	9.32	3.30	0.50
3rd	HW41	09/10/2009	22.53	8.29	33.345	0.69	9.32	3.27	0.49
3rd	HW41	09/10/2009	22.16	8.27	33.352	0.69	9.32	3.50	0.53
3rd	HW41	09/10/2009	22.05	8.23	33.359	0.69	9.32	3.85	0.58
3rd	HW41	09/10/2009	21.88	8.2	33.369	0.69	9.32	4.15	0.62
3rd	HW41	09/10/2009	21.79	8.18	33.38	0.69	9.32	4.37	0.66
3rd	HW41	09/10/2009	21.7	8.17	33.392	0.69	9.32	4.49	0.67
3rd	HW41	09/10/2009	21.61	8.16	33.389	0.69	9.32	4.62	0.69
3rd	HW43	09/10/2009	22.2	8.22	33.104	0.68	9.32	3.88	0.58
3rd	HW43	09/10/2009	22.2	8.23	33.158	0.68	9.32	3.80	0.57
3rd	HW43	09/10/2009	22.16	8.24	33.197	0.68	9.32	3.73	0.56
3rd	HW43	09/10/2009	21.95	8.24	33.185	0.68	9.32	3.79	0.57
3rd	HW43	09/10/2009	21.85	8.23	33.184	0.68	9.32	3.90	0.59
3rd	HW43	09/10/2009	21.85	8.2	33.213	0.68	9.32	4.16	0.62

**Attachment M**  
**Terminal Island Water Reclamation Plant (CA0053856)**  
**Projected Total Ammonia Concentration in Receiving Water**

Quarter	Station	Date	Temp 1	pH	Salinity	l	pKas	1-hour EPA Objective (expressed as total)	4-day EPA Objective (expressed as total)
3rd	HW43	09/10/2009	21.85	8.19	33.293	0.69	9.32	4.25	0.64
3rd	HW43	09/10/2009	21.72	8.16	33.363	0.69	9.32	4.58	0.69
3rd	HW43	09/10/2009	21.65	8.16	33.37	0.69	9.32	4.61	0.69
3rd	HW44	09/10/2009	22.35	8.28	33.205	0.68	9.32	3.38	0.51
3rd	HW44	09/10/2009	22.34	8.28	33.204	0.68	9.32	3.38	0.51
3rd	HW44	09/10/2009	22.29	8.28	33.202	0.68	9.32	3.39	0.51
3rd	HW44	09/10/2009	22.18	8.28	33.185	0.68	9.32	3.42	0.51
3rd	HW44	09/10/2009	21.95	8.26	33.161	0.68	9.32	3.63	0.54
3rd	HW44	09/10/2009	21.95	8.21	33.253	0.69	9.32	4.04	0.61
3rd	HW44	09/10/2009	22.07	8.2	33.374	0.69	9.32	4.10	0.62
3rd	HW44	09/10/2009	21.85	8.2	33.382	0.69	9.32	4.16	0.63
3rd	HW44	09/10/2009	21.74	8.2	33.376	0.69	9.32	4.20	0.63
3rd	HW44	09/10/2009	21.64	8.19	33.374	0.69	9.32	4.32	0.65
3rd	HW44	09/10/2009	21.25	8.18	33.375	0.69	9.32	4.54	0.68
3rd	HW44	09/10/2009	21.11	8.17	33.378	0.69	9.32	4.68	0.70
3rd	HW44	09/10/2009	20.6	8.15	33.378	0.69	9.32	5.07	0.76
3rd	HW44	09/10/2009	19.92	8.11	33.375	0.69	9.32	5.82	0.87
3rd	HW44	09/10/2009	19.34	8.07	33.376	0.69	9.32	6.63	1.00
3rd	HW44	09/10/2009	18.9	8.04	33.379	0.69	9.32	7.31	1.10
3rd	HW44	09/10/2009	18.57	8.01	33.382	0.69	9.32	8.01	1.20
3rd	HW44	09/10/2009	17.98	8	33.386	0.69	9.32	8.55	1.28
3rd	HW44	09/10/2009	17.12	7.98	33.385	0.69	9.32	9.52	1.43
3rd	HW47	09/10/2009	21.65	8.2	33.35	0.69	9.32	4.22	0.63
3rd	HW47	09/10/2009	21.65	8.2	33.35	0.69	9.32	4.22	0.63
3rd	HW47	09/10/2009	21.64	8.2	33.35	0.69	9.32	4.22	0.63
3rd	HW47	09/10/2009	21.63	8.2	33.349	0.69	9.32	4.23	0.64
3rd	HW47	09/10/2009	21.62	8.2	33.348	0.69	9.32	4.23	0.64
3rd	HW47	09/10/2009	21.57	8.2	33.349	0.69	9.32	4.25	0.64
3rd	HW47	09/10/2009	21.38	8.19	33.357	0.69	9.32	4.40	0.66
3rd	HW47	09/10/2009	21.21	8.17	33.363	0.69	9.32	4.65	0.70
3rd	HW47	09/10/2009	21.11	8.15	33.368	0.69	9.32	4.89	0.73
3rd	HW47	09/10/2009	21	8.14	33.37	0.69	9.32	5.04	0.76
3rd	HW47	09/10/2009	20.68	8.12	33.376	0.69	9.32	5.39	0.81
3rd	HW47	09/10/2009	20.34	8.06	33.379	0.69	9.32	6.30	0.95
3rd	HW47	09/10/2009	19.79	8.04	33.382	0.69	9.32	6.86	1.03
3rd	HW47	09/10/2009	19.38	8.02	33.38	0.69	9.32	7.38	1.11
3rd	HW47	09/10/2009	19.28	8.03	33.381	0.69	9.32	7.27	1.09
3rd	HW49	09/10/2009	21.69	8.2	33.374	0.69	9.32	4.21	0.63
3rd	HW49	09/10/2009	21.69	8.2	33.373	0.69	9.32	4.21	0.63
3rd	HW49	09/10/2009	21.67	8.2	33.373	0.69	9.32	4.22	0.63
3rd	HW50	09/10/2009	22.79	8.28	33.342	0.69	9.32	3.28	0.49
3rd	HW50	09/10/2009	22.76	8.28	33.342	0.69	9.32	3.29	0.49
3rd	HW50	09/10/2009	22.72	8.28	33.341	0.69	9.32	3.30	0.50
3rd	HW50	09/10/2009	22.32	8.28	33.349	0.69	9.32	3.39	0.51
3rd	HW50	09/10/2009	21.94	8.23	33.357	0.69	9.32	3.88	0.58
3rd	HW50	09/10/2009	21.76	8.22	33.359	0.69	9.32	4.01	0.60
3rd	HW50	09/10/2009	21.54	8.2	33.363	0.69	9.32	4.25	0.64
3rd	HW50	09/10/2009	21.52	8.19	33.363	0.69	9.32	4.35	0.65
3rd	HW50	09/10/2009	21.45	8.17	33.365	0.69	9.32	4.57	0.69
3rd	HW50	09/10/2009	21.47	8.17	33.364	0.69	9.32	4.56	0.69
3rd	HW50	09/10/2009	21.45	8.15	33.365	0.69	9.32	4.78	0.72
3rd	HW51	09/10/2009	22.75	8.3	33.343	0.69	9.32	3.15	0.47
3rd	HW51	09/10/2009	22.72	8.3	33.341	0.69	9.32	3.16	0.47
3rd	HW51	09/10/2009	22.69	8.3	33.34	0.69	9.32	3.16	0.48
3rd	HW51	09/10/2009	22.26	8.29	33.344	0.69	9.32	3.33	0.50
3rd	HW51	09/10/2009	22.1	8.24	33.353	0.69	9.32	3.75	0.56
3rd	HW51	09/10/2009	22.06	8.21	33.36	0.69	9.32	4.01	0.60
3rd	HW51	09/10/2009	21.93	8.19	33.373	0.69	9.32	4.23	0.64

**Attachment M**  
**Terminal Island Water Reclamation Plant (CA0053856)**  
**Projected Total Ammonia Concentration in Receiving Water**

Quarter	Station	Date	Temp 1	pH	Salinity	l	pKas	1-hour EPA Objective (expressed as total)	4-day EPA Objective (expressed as total)
3rd	HW51	09/10/2009	21.86	8.18	33.379	0.69	9.32	4.35	0.65
3rd	HW51	09/10/2009	21.82	8.17	33.381	0.69	9.32	4.45	0.67
3rd	HW51	09/10/2009	21.75	8.16	33.379	0.69	9.32	4.57	0.69
3rd	HW53	09/10/2009	22.67	8.28	33.301	0.69	9.32	3.31	0.50
3rd	HW53	09/10/2009	22.68	8.28	33.301	0.69	9.32	3.30	0.50
3rd	HW53	09/10/2009	22.65	8.28	33.301	0.69	9.32	3.31	0.50
3rd	HW53	09/10/2009	22.55	8.28	33.294	0.69	9.32	3.33	0.50
3rd	HW53	09/10/2009	22.39	8.27	33.284	0.69	9.32	3.44	0.52
3rd	HW53	09/10/2009	22.25	8.25	33.305	0.69	9.32	3.63	0.55
3rd	HW53	09/10/2009	22.15	8.22	33.34	0.69	9.32	3.90	0.59
3rd	HW53	09/10/2009	22.11	8.2	33.347	0.69	9.32	4.09	0.61
3rd	HW53	09/10/2009	22.02	8.19	33.361	0.69	9.32	4.20	0.63
3rd	HW53	09/10/2009	21.73	8.19	33.408	0.69	9.32	4.29	0.64
3rd	HW54	09/10/2009	22.14	8.24	33.202	0.68	9.32	3.74	0.56
3rd	HW54	09/10/2009	22.19	8.24	33.209	0.68	9.32	3.72	0.56
3rd	HW54	09/10/2009	22.1	8.25	33.19	0.68	9.32	3.67	0.55
3rd	HW54	09/10/2009	21.9	8.24	33.161	0.68	9.32	3.80	0.57
3rd	HW54	09/10/2009	22.05	8.21	33.268	0.69	9.32	4.01	0.60
3rd	HW54	09/10/2009	22.09	8.21	33.303	0.69	9.32	4.00	0.60
3rd	HW54	09/10/2009	22	8.21	33.312	0.69	9.32	4.03	0.61
3rd	HW54	09/10/2009	21.95	8.21	33.327	0.69	9.32	4.04	0.61
3rd	HW54	09/10/2009	21.93	8.21	33.345	0.69	9.32	4.05	0.61
3rd	HW54	09/10/2009	21.51	8.21	33.354	0.69	9.32	4.17	0.63
3rd	HW54	09/10/2009	21.15	8.2	33.366	0.69	9.32	4.37	0.66
3rd	HW54	09/10/2009	20.45	8.16	33.372	0.69	9.32	5.02	0.75
3rd	HW54	09/10/2009	19.8	8.15	33.368	0.69	9.32	5.37	0.81
3rd	HW54	09/10/2009	19.56	8.12	33.365	0.69	9.32	5.84	0.88
3rd	HW54	09/10/2009	19.46	8.08	33.364	0.69	9.32	6.42	0.97
3rd	HW54	09/10/2009	19.31	8.06	33.369	0.69	9.32	6.79	1.02
3rd	HW54	09/10/2009	18.55	8.04	33.383	0.69	9.32	7.50	1.13
3rd	HW54	09/10/2009	17.87	8.01	33.382	0.69	9.32	8.42	1.27
3rd	HW54	09/10/2009	17.25	8	33.379	0.69	9.32	9.01	1.35
3rd	HW56	09/10/2009	22.01	8.22	33.353	0.69	9.32	3.94	0.59
3rd	HW56	09/10/2009	21.99	8.22	33.356	0.69	9.32	3.95	0.59
3rd	HW56	09/10/2009	21.92	8.21	33.362	0.69	9.32	4.05	0.61
3rd	HW56	09/10/2009	21.73	8.21	33.369	0.69	9.32	4.11	0.62
3rd	HW56	09/10/2009	21.64	8.21	33.361	0.69	9.32	4.13	0.62
3rd	HW56	09/10/2009	21.52	8.21	33.363	0.69	9.32	4.17	0.63
3rd	HW56	09/10/2009	21.42	8.21	33.367	0.69	9.32	4.20	0.63
3rd	HW56	09/10/2009	21.27	8.2	33.369	0.69	9.32	4.34	0.65
3rd	HW56	09/10/2009	21.18	8.18	33.369	0.69	9.32	4.56	0.68
3rd	HW56	09/10/2009	21.1	8.17	33.371	0.69	9.32	4.69	0.70
3rd	HW62	09/10/2009	22.74	8.27	33.329	0.69	9.32	3.36	0.51
3rd	HW62	09/10/2009	22.69	8.27	33.331	0.69	9.32	3.37	0.51
3rd	HW62	09/10/2009	22.59	8.27	33.337	0.69	9.32	3.40	0.51
3rd	HW62	09/10/2009	22.49	8.27	33.344	0.69	9.32	3.42	0.51
3rd	HW62	09/10/2009	22.31	8.27	33.349	0.69	9.32	3.46	0.52
3rd	HW62	09/10/2009	22.02	8.26	33.367	0.69	9.32	3.61	0.54
3rd	HW62	09/10/2009	21.98	8.24	33.381	0.69	9.32	3.78	0.57
3rd	HW62	09/10/2009	21.92	8.23	33.376	0.69	9.32	3.88	0.58
3rd	HW62	09/10/2009	21.87	8.2	33.377	0.69	9.32	4.16	0.62
3rd	HW62	09/10/2009	21.58	8.18	33.405	0.69	9.32	4.43	0.67
3rd	HW62	09/10/2009	21.47	8.17	33.409	0.69	9.32	4.57	0.69
3rd	HW63	09/10/2009	22.81	8.28	33.323	0.69	9.32	3.27	0.49
3rd	HW63	09/10/2009	22.78	8.28	33.325	0.69	9.32	3.28	0.49
3rd	HW63	09/10/2009	22.63	8.29	33.333	0.69	9.32	3.25	0.49
3rd	HW63	09/10/2009	22.53	8.28	33.338	0.69	9.32	3.34	0.50
3rd	HW63	09/10/2009	22.36	8.27	33.361	0.69	9.32	3.45	0.52

**Attachment M**  
**Terminal Island Water Reclamation Plant (CA0053856)**  
**Projected Total Ammonia Concentration in Receiving Water**

Quarter	Station	Date	Temp 1	pH	Salinity	l	pKas	1-hour EPA Objective (expressed as total)	4-day EPA Objective (expressed as total)
3rd	HW63	09/10/2009	22.22	8.26	33.359	0.69	9.32	3.56	0.54
3rd	HW63	09/10/2009	22.06	8.23	33.364	0.69	9.32	3.84	0.58
3rd	HW63	09/10/2009	21.81	8.22	33.372	0.69	9.32	4.00	0.60
3rd	HW63	09/10/2009	21.76	8.21	33.384	0.69	9.32	4.10	0.62
3rd	HW63	09/10/2009	21.68	8.2	33.405	0.69	9.32	4.21	0.63
3rd	HW63	09/10/2009	21.62	8.2	33.41	0.69	9.32	4.23	0.64
3rd	HW63	09/10/2009	21.37	8.19	33.43	0.69	9.32	4.40	0.66
3rd	HW63	09/10/2009	20.68	8.18	33.395	0.69	9.32	4.72	0.71
3rd	HW63	09/10/2009	19.68	8.15	33.371	0.69	9.32	5.42	0.81
3rd	HW63	09/10/2009	18.6	8.1	33.377	0.69	9.32	6.54	0.98
3rd	HW63	09/10/2009	18.05	8.05	33.382	0.69	9.32	7.60	1.14
3rd	HW63	09/10/2009	17.35	8.02	33.375	0.69	9.32	8.55	1.28
3rd	HW63	09/10/2009	16.44	8.01	33.366	0.69	9.32	9.35	1.40
3rd	HW63	09/10/2009	16.13	8.02	33.361	0.69	9.32	9.35	1.40
3rd	HW63	09/10/2009	15.99	8.02	33.363	0.69	9.32	9.44	1.42
3rd	HW64	09/10/2009	22.41	8.25	33.332	0.69	9.32	3.59	0.54
3rd	HW64	09/10/2009	22.35	8.25	33.336	0.69	9.32	3.61	0.54
3rd	HW64	09/10/2009	22.31	8.25	33.338	0.69	9.32	3.62	0.54
3rd	HW64	09/10/2009	22.27	8.24	33.341	0.69	9.32	3.71	0.56
3rd	HW64	09/10/2009	22.24	8.24	33.342	0.69	9.32	3.71	0.56
3rd	HW64	09/10/2009	22.17	8.24	33.345	0.69	9.32	3.73	0.56
3rd	HW64	09/10/2009	22.05	8.23	33.351	0.69	9.32	3.85	0.58
3rd	HW64	09/10/2009	21.8	8.22	33.372	0.69	9.32	4.00	0.60
3rd	HW64	09/10/2009	21.68	8.2	33.392	0.69	9.32	4.21	0.63
3rd	HW64	09/10/2009	21.04	8.17	33.384	0.69	9.32	4.71	0.71
3rd	HW64	09/10/2009	20.57	8.13	33.374	0.69	9.32	5.31	0.80
3rd	HW64	09/10/2009	20.31	8.11	33.37	0.69	9.32	5.66	0.85
3rd	HW64	09/10/2009	19.97	8.09	33.374	0.69	9.32	6.06	0.91
3rd	HW64	09/10/2009	19.77	8.07	33.368	0.69	9.32	6.42	0.96
3rd	HW64	09/10/2009	18.67	8.05	33.381	0.69	9.32	7.27	1.09
3rd	HW64	09/10/2009	17.99	8	33.384	0.69	9.32	8.54	1.28
3rd	HW64	09/10/2009	17.81	7.98	33.382	0.69	9.32	9.05	1.36
3rd	HW64	09/10/2009	17.79	7.98	33.383	0.69	9.32	9.06	1.36
3rd	HW64	09/10/2009	17.45	7.98	33.381	0.69	9.32	9.29	1.40
3rd	HW64	09/10/2009	16.81	8	33.374	0.69	9.32	9.30	1.40
3rd	HW64	09/10/2009	16.48	8.01	33.368	0.69	9.32	9.32	1.40
3rd	HW65	09/10/2009	22.29	8.25	33.351	0.69	9.32	3.62	0.54
3rd	HW65	09/10/2009	22.3	8.26	33.351	0.69	9.32	3.54	0.53
3rd	HW65	09/10/2009	22.21	8.26	33.354	0.69	9.32	3.56	0.54
3rd	HW65	09/10/2009	21.96	8.25	33.358	0.69	9.32	3.71	0.56
3rd	HW65	09/10/2009	21.8	8.23	33.363	0.69	9.32	3.91	0.59
3rd	HW65	09/10/2009	21.78	8.22	33.362	0.69	9.32	4.01	0.60
3rd	HW65	09/10/2009	21.74	8.21	33.365	0.69	9.32	4.10	0.62
3rd	HW65	09/10/2009	21.63	8.21	33.366	0.69	9.32	4.14	0.62
3rd	HW65	09/10/2009	21.5	8.2	33.366	0.69	9.32	4.27	0.64
3rd	HW65	09/10/2009	21.37	8.19	33.369	0.69	9.32	4.40	0.66
4th	HW20	11/18/2009	16.62	7.99	33.227	0.69	9.32	9.64	1.45
4th	HW20	11/18/2009	16.27	7.99	33.22	0.68	9.32	9.89	1.49
4th	HW20	11/18/2009	16.16	7.99	33.217	0.68	9.32	9.97	1.50
4th	HW20	11/18/2009	16.11	8	33.218	0.68	9.32	9.78	1.47
4th	HW20	11/18/2009	16.09	7.99	33.217	0.68	9.32	10.02	1.51
4th	HW20	11/18/2009	16.07	7.99	33.215	0.68	9.32	10.03	1.51
4th	HW20	11/18/2009	16.04	7.98	33.215	0.68	9.32	10.28	1.54
4th	HW20	11/18/2009	16.02	7.98	33.211	0.68	9.32	10.30	1.55
4th	HW21	11/18/2009	16.6	8.02	33.262	0.69	9.32	9.03	1.36
4th	HW21	11/18/2009	16.4	8.02	33.299	0.69	9.32	9.16	1.38
4th	HW21	11/18/2009	16.19	8.02	33.34	0.69	9.32	9.30	1.40
4th	HW21	11/18/2009	16.14	8.02	33.323	0.69	9.32	9.34	1.40

**Attachment M**  
**Terminal Island Water Reclamation Plant (CA0053856)**  
**Projected Total Ammonia Concentration in Receiving Water**

Quarter	Station	Date	Temp 1	pH	Salinity	l	pKas	1-hour EPA Objective (expressed as total)	4-day EPA Objective (expressed as total)
4th	HW21	11/18/2009	16.2	8.02	33.385	0.69	9.32	9.30	1.40
4th	HW23	11/18/2009	16.26	7.97	33.03	0.68	9.32	10.34	1.55
4th	HW23	11/18/2009	16.21	7.97	33.037	0.68	9.32	10.38	1.56
4th	HW23	11/18/2009	16.18	7.97	33.057	0.68	9.32	10.40	1.56
4th	HW23	11/18/2009	16.17	7.97	33.074	0.68	9.32	10.41	1.56
4th	HW23	11/18/2009	16.09	7.97	33.175	0.68	9.32	10.48	1.57
4th	HW23	11/18/2009	16.07	7.97	33.195	0.68	9.32	10.49	1.58
4th	HW23	11/18/2009	16.06	7.97	33.202	0.68	9.32	10.50	1.58
4th	HW24	11/18/2009	16.24	7.97	33.094	0.68	9.32	10.36	1.56
4th	HW24	11/18/2009	16.2	7.98	33.103	0.68	9.32	10.16	1.53
4th	HW24	11/18/2009	16.13	7.99	33.104	0.68	9.32	9.98	1.50
4th	HW24	11/18/2009	16.02	8	33.112	0.68	9.32	9.84	1.48
4th	HW24	11/18/2009	16.12	8	33.204	0.68	9.32	9.77	1.47
4th	HW24	11/18/2009	16.15	7.98	33.237	0.69	9.32	10.20	1.53
4th	HW24	11/18/2009	16.15	7.98	33.251	0.69	9.32	10.20	1.53
4th	HW24	11/18/2009	16.13	7.98	33.261	0.69	9.32	10.22	1.54
4th	HW24	11/18/2009	16.12	7.98	33.278	0.69	9.32	10.23	1.54
4th	HW24	11/18/2009	16.13	7.98	33.286	0.69	9.32	10.22	1.54
4th	HW24	11/18/2009	16.12	7.98	33.291	0.69	9.32	10.23	1.54
4th	HW24	11/18/2009	16.1	7.98	33.295	0.69	9.32	10.24	1.54
4th	HW24	11/18/2009	16.08	7.98	33.293	0.69	9.32	10.26	1.54
4th	HW24	11/18/2009	16.06	7.98	33.292	0.69	9.32	10.27	1.54
4th	HW24	11/18/2009	16.01	7.98	33.287	0.69	9.32	10.31	1.55
4th	HW24	11/18/2009	15.97	7.98	33.286	0.69	9.32	10.34	1.55
4th	HW24	11/18/2009	15.93	7.98	33.284	0.69	9.32	10.37	1.56
4th	HW24	11/18/2009	15.92	7.97	33.288	0.69	9.32	10.62	1.59
4th	HW33	11/18/2009	16.16	7.97	33.056	0.68	9.32	10.42	1.56
4th	HW33	11/18/2009	16.13	7.97	33.118	0.68	9.32	10.44	1.57
4th	HW33	11/18/2009	16.14	7.98	33.114	0.68	9.32	10.20	1.53
4th	HW33	11/18/2009	16.13	7.98	33.131	0.68	9.32	10.21	1.53
4th	HW33	11/18/2009	16.12	7.98	33.162	0.68	9.32	10.22	1.54
4th	HW33	11/18/2009	16.07	7.98	33.189	0.68	9.32	10.26	1.54
4th	HW33	11/18/2009	16.03	7.97	33.216	0.68	9.32	10.53	1.58
4th	HW33	11/18/2009	16.03	7.97	33.217	0.68	9.32	10.53	1.58
4th	HW33	11/18/2009	16.04	7.97	33.217	0.68	9.32	10.52	1.58
4th	HW40	11/18/2009	16.42	7.99	33.245	0.69	9.32	9.78	1.47
4th	HW40	11/18/2009	16.33	7.99	33.23	0.69	9.32	9.85	1.48
4th	HW40	11/18/2009	16.23	7.99	33.225	0.68	9.32	9.92	1.49
4th	HW40	11/18/2009	16.22	7.99	33.224	0.68	9.32	9.93	1.49
4th	HW40	11/18/2009	16.2	7.99	33.223	0.68	9.32	9.94	1.49
4th	HW40	11/18/2009	16.17	7.99	33.222	0.68	9.32	9.96	1.50
4th	HW40	11/18/2009	16.15	7.99	33.221	0.68	9.32	9.98	1.50
4th	HW40	11/18/2009	16.09	7.99	33.219	0.68	9.32	10.02	1.51
4th	HW40	11/18/2009	16.06	7.98	33.219	0.68	9.32	10.27	1.54
4th	HW41	11/18/2009	16.56	7.99	33.225	0.68	9.32	9.68	1.45
4th	HW41	11/18/2009	16.26	7.99	33.222	0.68	9.32	9.90	1.49
4th	HW41	11/18/2009	16.16	8	33.22	0.68	9.32	9.75	1.46
4th	HW41	11/18/2009	16.09	8	33.218	0.68	9.32	9.80	1.47
4th	HW41	11/18/2009	16.07	7.99	33.217	0.68	9.32	10.03	1.51
4th	HW41	11/18/2009	16.07	7.98	33.217	0.68	9.32	10.26	1.54
4th	HW41	11/18/2009	16.06	7.98	33.219	0.68	9.32	10.27	1.54
4th	HW41	11/18/2009	16.05	7.98	33.219	0.68	9.32	10.28	1.54
4th	HW41	11/18/2009	16.03	7.98	33.216	0.68	9.32	10.29	1.55
4th	HW43	11/18/2009	16.23	7.97	33.107	0.68	9.32	10.37	1.56
4th	HW43	11/18/2009	16.25	7.97	33.129	0.68	9.32	10.35	1.56
4th	HW43	11/18/2009	16.25	7.98	33.172	0.68	9.32	10.13	1.52
4th	HW43	11/18/2009	16.19	7.98	33.186	0.68	9.32	10.17	1.53
4th	HW43	11/18/2009	16.13	7.98	33.202	0.68	9.32	10.22	1.53

**Attachment M**  
**Terminal Island Water Reclamation Plant (CA0053856)**  
**Projected Total Ammonia Concentration in Receiving Water**

Quarter	Station	Date	Temp 1	pH	Salinity	l	pKas	1-hour EPA Objective (expressed as total)	4-day EPA Objective (expressed as total)
4th	HW43	11/18/2009	16.09	7.98	33.206	0.68	9.32	10.25	1.54
4th	HW43	11/18/2009	16.07	7.97	33.212	0.68	9.32	10.50	1.58
4th	HW43	11/18/2009	16.06	7.97	33.216	0.68	9.32	10.50	1.58
4th	HW43	11/18/2009	16.05	7.97	33.218	0.68	9.32	10.51	1.58
4th	HW44	11/18/2009	16.25	7.98	33.095	0.68	9.32	10.12	1.52
4th	HW44	11/18/2009	16.2	7.98	33.124	0.68	9.32	10.16	1.53
4th	HW44	11/18/2009	16.16	7.99	33.131	0.68	9.32	9.96	1.50
4th	HW44	11/18/2009	16.07	7.99	33.117	0.68	9.32	10.03	1.51
4th	HW44	11/18/2009	16.18	8	33.228	0.69	9.32	9.73	1.46
4th	HW44	11/18/2009	16.14	7.99	33.245	0.69	9.32	9.98	1.50
4th	HW44	11/18/2009	16.14	7.98	33.252	0.69	9.32	10.21	1.53
4th	HW44	11/18/2009	16.15	7.98	33.263	0.69	9.32	10.21	1.53
4th	HW44	11/18/2009	16.16	7.98	33.268	0.69	9.32	10.20	1.53
4th	HW44	11/18/2009	16.16	7.98	33.277	0.69	9.32	10.20	1.53
4th	HW44	11/18/2009	16.14	7.99	33.278	0.69	9.32	9.99	1.50
4th	HW44	11/18/2009	16.11	7.98	33.282	0.69	9.32	10.24	1.54
4th	HW44	11/18/2009	16.11	7.98	33.289	0.69	9.32	10.24	1.54
4th	HW44	11/18/2009	16.11	7.99	33.298	0.69	9.32	10.01	1.50
4th	HW44	11/18/2009	16.1	7.99	33.297	0.69	9.32	10.02	1.50
4th	HW44	11/18/2009	16.08	7.99	33.294	0.69	9.32	10.03	1.51
4th	HW44	11/18/2009	16.04	7.98	33.294	0.69	9.32	10.29	1.55
4th	HW44	11/18/2009	15.97	7.98	33.296	0.69	9.32	10.34	1.55
4th	HW44	11/18/2009	15.81	7.98	33.296	0.69	9.32	10.46	1.57
4th	HW47	11/18/2009	16.12	8.02	33.288	0.69	9.32	9.35	1.40
4th	HW47	11/18/2009	16.1	8.02	33.29	0.69	9.32	9.36	1.41
4th	HW47	11/18/2009	16.09	8.02	33.289	0.69	9.32	9.37	1.41
4th	HW47	11/18/2009	16.08	8.02	33.289	0.69	9.32	9.38	1.41
4th	HW47	11/18/2009	16.05	8.02	33.29	0.69	9.32	9.40	1.41
4th	HW47	11/18/2009	16.03	8.02	33.29	0.69	9.32	9.41	1.41
4th	HW47	11/18/2009	16	8.01	33.291	0.69	9.32	9.65	1.45
4th	HW47	11/18/2009	16	8.01	33.292	0.69	9.32	9.65	1.45
4th	HW47	11/18/2009	15.99	8	33.293	0.69	9.32	9.87	1.48
4th	HW47	11/18/2009	15.99	8	33.294	0.69	9.32	9.87	1.48
4th	HW47	11/18/2009	15.98	8	33.295	0.69	9.32	9.88	1.48
4th	HW47	11/18/2009	15.98	8	33.296	0.69	9.32	9.88	1.48
4th	HW47	11/18/2009	15.98	7.99	33.296	0.69	9.32	10.10	1.52
4th	HW47	11/18/2009	15.97	7.99	33.296	0.69	9.32	10.11	1.52
4th	HW47	11/18/2009	15.96	7.99	33.296	0.69	9.32	10.12	1.52
4th	HW49	11/18/2009	16.13	7.97	33.292	0.69	9.32	10.45	1.57
4th	HW49	11/18/2009	16	7.97	33.29	0.69	9.32	10.55	1.59
4th	HW49	11/18/2009	15.89	7.97	33.29	0.69	9.32	10.64	1.60
4th	HW50	11/18/2009	16.56	8.01	33.237	0.69	9.32	9.26	1.39
4th	HW50	11/18/2009	16.37	8.01	33.227	0.69	9.32	9.39	1.41
4th	HW50	11/18/2009	16.24	8.01	33.225	0.68	9.32	9.48	1.42
4th	HW50	11/18/2009	16.13	8.01	33.225	0.68	9.32	9.55	1.43
4th	HW50	11/18/2009	16.1	8	33.225	0.68	9.32	9.79	1.47
4th	HW50	11/18/2009	16.09	7.99	33.225	0.68	9.32	10.02	1.51
4th	HW50	11/18/2009	16.09	7.99	33.227	0.69	9.32	10.02	1.51
4th	HW50	11/18/2009	16.09	7.99	33.228	0.69	9.32	10.02	1.51
4th	HW50	11/18/2009	16.08	7.99	33.229	0.69	9.32	10.03	1.51
4th	HW50	11/18/2009	16.08	7.99	33.232	0.69	9.32	10.03	1.51
4th	HW50	11/18/2009	16.08	7.99	33.236	0.69	9.32	10.03	1.51
4th	HW51	11/18/2009	16.21	7.99	33.217	0.68	9.32	9.93	1.49
4th	HW51	11/18/2009	16.2	7.99	33.218	0.68	9.32	9.94	1.49
4th	HW51	11/18/2009	16.15	7.99	33.218	0.68	9.32	9.98	1.50
4th	HW51	11/18/2009	16.11	7.99	33.217	0.68	9.32	10.00	1.50
4th	HW51	11/18/2009	16.09	7.99	33.217	0.68	9.32	10.02	1.51
4th	HW51	11/18/2009	16.08	7.98	33.217	0.68	9.32	10.25	1.54

**Attachment M**  
**Terminal Island Water Reclamation Plant (CA0053856)**  
**Projected Total Ammonia Concentration in Receiving Water**

Quarter	Station	Date	Temp 1	pH	Salinity	l	pKas	1-hour EPA Objective (expressed as total)	4-day EPA Objective (expressed as total)
4th	HW51	11/18/2009	16.07	7.98	33.217	0.68	9.32	10.26	1.54
4th	HW51	11/18/2009	16.05	7.98	33.215	0.68	9.32	10.28	1.54
4th	HW51	11/18/2009	16.04	7.98	33.215	0.68	9.32	10.28	1.54
4th	HW51	11/18/2009	16.03	7.97	33.216	0.68	9.32	10.53	1.58
4th	HW53	11/18/2009	16.53	7.98	33.219	0.68	9.32	9.92	1.49
4th	HW53	11/18/2009	16.23	7.99	33.21	0.68	9.32	9.92	1.49
4th	HW53	11/18/2009	16.1	7.98	33.209	0.68	9.32	10.24	1.54
4th	HW53	11/18/2009	16.12	7.98	33.208	0.68	9.32	10.22	1.54
4th	HW53	11/18/2009	16.09	7.98	33.208	0.68	9.32	10.25	1.54
4th	HW53	11/18/2009	16.07	7.98	33.208	0.68	9.32	10.26	1.54
4th	HW53	11/18/2009	16.05	7.98	33.209	0.68	9.32	10.28	1.54
4th	HW53	11/18/2009	16.04	7.98	33.212	0.68	9.32	10.28	1.54
4th	HW53	11/18/2009	16.04	7.98	33.214	0.68	9.32	10.28	1.54
4th	HW53	11/18/2009	16.04	7.98	33.215	0.68	9.32	10.28	1.54
4th	HW54	11/18/2009	16.29	7.99	33.158	0.68	9.32	9.87	1.48
4th	HW54	11/18/2009	16.26	7.99	33.154	0.68	9.32	9.89	1.49
4th	HW54	11/18/2009	16.19	8	33.144	0.68	9.32	9.72	1.46
4th	HW54	11/18/2009	16.12	8	33.137	0.68	9.32	9.77	1.47
4th	HW54	11/18/2009	16.08	8	33.162	0.68	9.32	9.80	1.47
4th	HW54	11/18/2009	16.1	8	33.203	0.68	9.32	9.79	1.47
4th	HW54	11/18/2009	16.09	7.99	33.216	0.68	9.32	10.02	1.51
4th	HW54	11/18/2009	16.08	7.99	33.223	0.68	9.32	10.03	1.51
4th	HW54	11/18/2009	16.08	7.99	33.227	0.69	9.32	10.03	1.51
4th	HW54	11/18/2009	16.09	7.99	33.231	0.69	9.32	10.02	1.51
4th	HW54	11/18/2009	16.09	7.99	33.237	0.69	9.32	10.02	1.51
4th	HW54	11/18/2009	16.1	7.99	33.254	0.69	9.32	10.01	1.50
4th	HW54	11/18/2009	16.11	7.99	33.263	0.69	9.32	10.01	1.50
4th	HW54	11/18/2009	16.1	7.99	33.264	0.69	9.32	10.01	1.50
4th	HW54	11/18/2009	16.1	7.98	33.269	0.69	9.32	10.24	1.54
4th	HW54	11/18/2009	16.1	7.98	33.276	0.69	9.32	10.24	1.54
4th	HW54	11/18/2009	16.09	7.98	33.283	0.69	9.32	10.25	1.54
4th	HW54	11/18/2009	16.07	7.98	33.296	0.69	9.32	10.27	1.54
4th	HW56	11/18/2009	16.32	8.02	33.301	0.69	9.32	9.22	1.38
4th	HW56	11/18/2009	16.28	8.02	33.299	0.69	9.32	9.24	1.39
4th	HW56	11/18/2009	16.24	8.02	33.299	0.69	9.32	9.27	1.39
4th	HW56	11/18/2009	16.24	8.02	33.298	0.69	9.32	9.27	1.39
4th	HW56	11/18/2009	16.26	8.02	33.299	0.69	9.32	9.26	1.39
4th	HW56	11/18/2009	16.23	8.02	33.297	0.69	9.32	9.28	1.39
4th	HW56	11/18/2009	16.11	8.02	33.293	0.69	9.32	9.36	1.41
4th	HW56	11/18/2009	16.09	8.01	33.29	0.69	9.32	9.58	1.44
4th	HW56	11/18/2009	16.05	8.01	33.292	0.69	9.32	9.61	1.44
4th	HW56	11/18/2009	16.04	8	33.293	0.69	9.32	9.84	1.48
4th	HW56	11/18/2009	16.03	7.99	33.292	0.69	9.32	10.07	1.51
4th	HW62	11/18/2009	16.56	7.99	33.235	0.69	9.32	9.68	1.45
4th	HW62	11/18/2009	16.22	7.99	33.295	0.69	9.32	9.93	1.49
4th	HW62	11/18/2009	16.11	7.99	33.221	0.68	9.32	10.00	1.50
4th	HW62	11/18/2009	16.08	7.99	33.222	0.68	9.32	10.03	1.51
4th	HW62	11/18/2009	16.07	7.99	33.223	0.68	9.32	10.03	1.51
4th	HW62	11/18/2009	16.07	7.99	33.223	0.68	9.32	10.03	1.51
4th	HW62	11/18/2009	16.06	7.99	33.224	0.68	9.32	10.04	1.51
4th	HW62	11/18/2009	16.06	7.99	33.225	0.68	9.32	10.04	1.51
4th	HW62	11/18/2009	16.05	7.99	33.23	0.69	9.32	10.05	1.51
4th	HW62	11/18/2009	16.05	7.98	33.233	0.69	9.32	10.28	1.54
4th	HW62	11/18/2009	16.06	7.98	33.239	0.69	9.32	10.27	1.54
4th	HW63	11/18/2009	16.15	7.98	33.213	0.68	9.32	10.20	1.53
4th	HW63	11/18/2009	16.15	7.98	33.213	0.68	9.32	10.20	1.53
4th	HW63	11/18/2009	16.12	7.98	33.214	0.68	9.32	10.22	1.54
4th	HW63	11/18/2009	16.09	7.98	33.214	0.68	9.32	10.25	1.54

**Attachment M**  
**Terminal Island Water Reclamation Plant (CA0053856)**  
**Projected Total Ammonia Concentration in Receiving Water**

Quarter	Station	Date	Temp 1	pH	Salinity	I	pKas	1-hour EPA Objective (expressed as total)	4-day EPA Objective (expressed as total)
4th	HW63	11/18/2009	16.09	7.98	33.214	0.68	9.32	10.25	1.54
4th	HW63	11/18/2009	16.06	7.98	33.216	0.68	9.32	10.27	1.54
4th	HW63	11/18/2009	16.06	7.98	33.216	0.68	9.32	10.27	1.54
4th	HW63	11/18/2009	16.06	7.98	33.217	0.68	9.32	10.27	1.54
4th	HW63	11/18/2009	16.06	7.98	33.225	0.68	9.32	10.27	1.54
4th	HW63	11/18/2009	16.06	7.98	33.227	0.69	9.32	10.27	1.54
4th	HW63	11/18/2009	16.09	7.98	33.245	0.69	9.32	10.25	1.54
4th	HW63	11/18/2009	16.1	7.98	33.25	0.69	9.32	10.24	1.54
4th	HW63	11/18/2009	16.11	7.98	33.258	0.69	9.32	10.23	1.54
4th	HW63	11/18/2009	16.12	7.98	33.261	0.69	9.32	10.23	1.54
4th	HW63	11/18/2009	16.09	7.99	33.262	0.69	9.32	10.02	1.51
4th	HW63	11/18/2009	16.04	7.99	33.262	0.69	9.32	10.06	1.51
4th	HW63	11/18/2009	16.03	7.98	33.267	0.69	9.32	10.30	1.55
4th	HW63	11/18/2009	16.03	7.98	33.271	0.69	9.32	10.30	1.55
4th	HW63	11/18/2009	16.01	7.98	33.279	0.69	9.32	10.31	1.55
4th	HW63	11/18/2009	15.98	7.98	33.295	0.69	9.32	10.33	1.55
4th	HW64	11/18/2009	16.11	7.98	33.136	0.68	9.32	10.23	1.54
4th	HW64	11/18/2009	16.04	7.99	33.145	0.68	9.32	10.05	1.51
4th	HW64	11/18/2009	16.02	8.01	33.149	0.68	9.32	9.62	1.45
4th	HW64	11/18/2009	15.99	8	33.165	0.68	9.32	9.87	1.48
4th	HW64	11/18/2009	15.98	7.99	33.167	0.68	9.32	10.10	1.52
4th	HW64	11/18/2009	15.96	7.99	33.17	0.68	9.32	10.11	1.52
4th	HW64	11/18/2009	15.96	7.98	33.175	0.68	9.32	10.34	1.55
4th	HW64	11/18/2009	15.97	7.98	33.184	0.68	9.32	10.34	1.55
4th	HW64	11/18/2009	15.99	7.98	33.203	0.68	9.32	10.32	1.55
4th	HW64	11/18/2009	16.01	7.98	33.219	0.68	9.32	10.31	1.55
4th	HW64	11/18/2009	16.01	7.98	33.229	0.69	9.32	10.31	1.55
4th	HW64	11/18/2009	16	7.98	33.23	0.69	9.32	10.32	1.55
4th	HW64	11/18/2009	16.01	7.98	33.233	0.69	9.32	10.31	1.55
4th	HW64	11/18/2009	16.03	7.98	33.25	0.69	9.32	10.29	1.55
4th	HW64	11/18/2009	16.06	7.99	33.271	0.69	9.32	10.04	1.51
4th	HW64	11/18/2009	16.07	7.99	33.281	0.69	9.32	10.04	1.51
4th	HW64	11/18/2009	16.07	7.98	33.285	0.69	9.32	10.27	1.54
4th	HW64	11/18/2009	16.01	7.98	33.29	0.69	9.32	10.31	1.55
4th	HW64	11/18/2009	15.83	7.98	33.292	0.69	9.32	10.45	1.57
4th	HW64	11/18/2009	15.78	7.98	33.289	0.69	9.32	10.49	1.58
4th	HW64	11/18/2009	15.75	7.98	33.288	0.69	9.32	10.51	1.58
4th	HW64	11/18/2009	15.72	7.97	33.288	0.69	9.32	10.77	1.62
4th	HW65	11/18/2009	16.31	8.01	33.221	0.68	9.32	9.43	1.42
4th	HW65	11/18/2009	16.31	8.01	33.262	0.69	9.32	9.43	1.42
4th	HW65	11/18/2009	16.17	8.01	33.378	0.69	9.32	9.53	1.43
4th	HW65	11/18/2009	16.05	8	33.377	0.69	9.32	9.83	1.48
4th	HW65	11/18/2009	15.92	7.98	33.439	0.69	9.32	10.39	1.56
4th	HW65	11/18/2009	15.91	7.97	33.469	0.69	9.33	10.63	1.60
<b>MAX</b>								22.5583	3.3886
<b>MIN</b>								3.1514	0.4734



**Attachment N**  
**Terminal Island Water Reclamation Plant (CA0053856)**  
**Ammonia and MBAS Non-priority Pollutants Effluent Reasonable Potential Analysis**

CONSTITUENT	Units	Number of Samples	Maximum Observed Effluent Concentration	CV	Multiplier	Projected Maximum Effluent Concentration (99/99)	Background Concentration	Dilution Ratio Application	Projected Maximum Receiving Water Concentration	Monthly Average Water Quality Objective	Daily Maximum Water Quality Objective	If Projected Maximum Effluent Concentration (99/99) > Monthly Average Water Quality Objective, Then Trigger RPA	BU - Beneficial use protection NC-Human noncarcinogen AP-Aquatic life protection	If Projected Maximum Receiving Water Concentration < Monthly Average Water Quality Objective, Then Dilution Ratio Granted	MONTHLY AVERAGE	DAILY MAXIMUM
Ammonia	mg/L	11	1.1	0.556	2.706	2.977	0.01	61	0.06	0.4734*	3.1514*	Yes	AP	Yes	29.351	195.39
MBAS	mg/L	11	0.61	0.609	2.941	1.794	0.12	61	0.15	0.5	NA	Yes	BU	Yes	31	NA
*: Results show on Table F8 of Order No. R4-2010-XXXX.																

**Attachment O**  
**Terminal Island Water Reclamation Plant (CA0053856)**  
**Copper Effluent Reasonable Potential Analysis**

CTR#		MEC-Eff	WQO Saltwater Acute	WQO Saltwater Chronic	WQO Human Health	Water Quality Criteria (C)	Background (B)	B>C	B<C	Dilution Credit allowed
6	Copper	14	5.8	3.7	NA	3.7	1.8	No	Yes	Yes

**Attachment O**  
**Terminal Island Water Reclamation Plant (CA0053856)**  
**Copper Effluent Reasonable Potential Analysis**

	Dilution Credit	CV	ECA Acute	ECA Chronic	ECA Human Health	ECA Multipliers Acute 99	ECA Multipliers Chronic 99	LTA Acute	LTA Chronic
Copper	61	1.0487	249.8	119.6	NA	0.1954	0.3588	48.822	42.915

**Attachment O**  
**Terminal Island Water Reclamation Plant (CA0053856)**  
**Copper Effluent Reasonable Potential Analysis**

	Lowest LTA	AMEL Multiplier 95	MDEL Multiplier 99	AMEL Aquatic Life	MDEL Aquatic Life	AMEL Human Health	MDEL Human Health	Limitation of Monthly Average	Limitation of Daily Maximum
Copper	42.915	1.9923	5.1165	85.5	219.57	NA	NA	<b>85.5</b>	<b>219.57</b>