

Tijuana River (TJR) NERR Water Quality Metadata
January to December 2006
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I. Data Set and Research Descriptors

1) Principal Investigators and contact persons

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2) Entry Verification

Deployment data are uploaded from the YSI data logger to an IBM compatible personal computer. Data plots are produced and examined and erroneous data are detected using the PC6000 or EcoWatch software from YSI. Notes are made of any unusual data during that deployment. Files are exported from EcoWatch in a comma-delimited format (.CSV) and opened in Microsoft Excel for pre-processing with the EQWin format macro that was developed by the CDMO to reformat the header columns, insert station codes, insert a corrected time column and allow the technician to remove any pre- and post-deployment data from the file. Where deployment overlap occurs between files, the data produced by the newly calibrated sonde is accepted as being the most accurate. The pre-processed file is then ready to be copied into the EQWin water.eqi file where the data are QA/QC checked and archived in a database. EQWin queries, reports and graphs are used to discover data set outliers (values which fall outside the range that the instrument is designed to measure) and large changes in the data. EQWin is also used to generate statistics, view graphs, create customized queries and reports of the data, cross query the water, weather and nutrient data and finally export the data to the CDMO. All data is archived on a files server which is backed up to a remote location daily. The persons responsible for the data management are Rachel Borgatti and Michelle Cordrey.

3) Research Objectives

The Tijuana River National Estuarine Research Reserve is impacted heavily by periodic raw sewage outflows and urban development. About a quarter of the reserve's 2,531 acres are tidally influenced and few channels are deep enough for datalogger deployment. Two stations were originally set up: a treatment station was set up close to the mouth on the Southern end of the Oneonta Slough, while a control station was set up on the northern end of Oneonta Slough. The treatment station location was chosen because it would be the site most affected by sewage outflow. Deployment at the treatment station, however, was continually halted by both shifting sediment and massive wracks of kelp (*Macrocystis pyrifera*), which would often bury the deployment set-up on incoming tides. After a number of different deployment equipment designs were implemented, with no success, logging at this site was terminated.

Four YSI datalogger stations are installed at the Tijuana River reserve. Station locations are designed to investigate spatial gradients of water quality parameters across the reserve as well as document the water quality changes over time to areas in the reserve which have been restored to increase tidal flushing. The original control station in the northern end of Oneonta Slough is still in place. The second station, Tidal Linkage, is located in the north arm of the reserve in a constructed channel designed to increase tidal exchange in that portion of the reserve. Data logging at the Tidal Linkage station began in May 1997 but has not been continuous due to episodic sedimentation events. A third datalogger station is located at the inlet to the Model Marsh, a constructed 20-acre restoration site in the southern arm of the estuary. The Model Marsh was opened to tidal flushing in February 2000 and data logging at the station began in October 2000. The newest site, called Boca Rio, was established in December 2004 and is located near the mouth of the Tijuana River. This station replaces the River Channel station, which was established in August 2002 to monitor the Tijuana River, the largest source of freshwater to the Reserve. This station was discontinued in November 2004 due to unusually heavy sedimentation from intense rainfall events.

4) Research Methods (Dataloggers)

Dataloggers at the Model Marsh, Oneonta Slough, and Boca Rio stations are deployed using a 4-inch diameter PVC pipe that is strapped vertically to two "rail" style fence posts driven into the sediment. Multiple 1.5 inch holes have been drilled around the bottom of the tube to permit unrestricted water flow to the sensors. During deployment the datalogger units are then placed into and rest on a bolt fixed across the bottom of the tubes. Tidal Linkage station dataloggers are deployed horizontally, in a 4-inch diameter pvc pipe that is fastened to 4 copper pipes that have been driven into the sediment until refusal.

The sampling period is between two and four weeks, with measurements taken every 30 minutes. Beginning 12/20/2006 the sampling interval at the Oneonta Slough station was changed to 15minute intervals. Measurements for specific conductivity, salinity, dissolved oxygen (percent saturation), dissolved oxygen (mg/l), temperature, turbidity

and water level are recorded. At the end of each sampling period, the YSI dataloggers are brought back to the laboratory for data downloading, cleaning and recalibration. They are usually redeployed in the field within 24 hours. These procedures are carried out according to the methods described in the YSI Operations Manual (see sections 3 and 7). Calibration standards for specific conductivity and turbidity are purchased from YSI and pH standards (7 and 10) are purchased from Clarkson Scientific, a local supplier. The QA/QC procedures for the collected data are followed from the CDMO Operations Manual version 4.0.

A Sutron Sat-Link2 transmitter was installed at the Oneonta Slough station on 12/20/2006 and transmits data to the NOAA GOES satellite, NESDIS ID #3B0252F2. The transmissions are scheduled hourly and contain four (4) datasets reflecting fifteen minute data sampling intervals. The telemetry data is “Provisional” data and not the “Authentic” dataset used for long term monitoring and study. This data can be viewed by going to <http://cdmo.baruch.sc.edu>.

5) Site location and character

General site Characteristics (TJE)

- a) Tidal exchange (extremes): approx. -2 +7 MLLW,
- b) Salinity: 4 ppt (extreme rain events) to 38 ppt
- c) Latitude and longitude: 32 deg. 34 min. N, 117 deg. 07 min. W
- d) Potential impacts include runoff from the adjacent military airfield and residential area and sewage spills from Mexico into the Tijuana River. Approximately 2/3 of the watershed for the Tijuana River estuary is in Mexico. Vegetation in the area is dominated by common pickleweed (*Salicornia virginica*) and Pacific cordgrass (*Spartina foliosa*).
- e) The dominant freshwater source to the estuary is the Tijuana River, which drains a 4,483 sq. km watershed. Stream flows in the river vary considerably from season to season and year to year with no flow during many months with a mean annual discharge of .82 cubic meters per second (cms). Additional freshwater sources are storm drains located mostly in the northern arm of the estuary. The entire estuary is shallow and has a relatively small tidal prism (0.36 Mm³) so even low freshwater flows result in reduced salinity throughout the reserve. Estimated residence times for freshwater entering the estuary vary from 7 hours to a few days depending on the tide and mouth conditions. Rainfall within the watershed accounts for most of the freshwater entering the reserve with 90% of the mean annual rainfall falling between November and April. Freshwater discharges with untreated sewage occur year round, although these have decreased with the construction of binational water treatment plant.
- f) Pollutants: Known pollutants include macro waste (tires, plastic bottles), human sewage, agricultural waste products (animal fecal matter, herbicides, pesticides), and detergents (phosphates). Potential pollutants include PCBs and heavy metals.

Specific Site characteristics: Oneonta Slough (OS)

- a) Orientation of site: The Datalogger station is located on the upper portion of Oneonta Slough. The channel runs north to south and is located on the northwestern edge of the reserve. Latitude is 32 deg 34 min 04.8 sec N, longitude is 117 deg 07 min 52.3 sec W.
- b) The elevation of the channel bottom directly below the datalogger is approx. 0.55 meters NGVD (date of last survey was 2001).
- c) Channel width is approx. 20 meters. Datalogger site is located 1km from the river mouth.
- d) Bottom type: sand and sediment
- e) Tide range: 0.3 to 1.78 meters above channel bottom
- f) Salinity range: 0.32 to 37.5 ppt
- g) Area adjacent to west side of channel is developed. There is a 50 meter buffer of natural vegetation between development and the channel. Area adjacent to east side of channel is relatively undisturbed.
- h) Direct impacts may be runoff from streets into channel during rain events.

Specific Site Characteristics: Model Marsh (MM)

- a) Orientation of site: The datalogger station is located in the middle of a natural channel which runs north to south. The channel is approximately 20m north of a newly constructed 20 acre mudflat restoration area in the southern section of the reserve. Latitude is 32deg 32min 52.1sec longitude: 117deg 7min 22.5sec due to heavy sedimentation.
- b) The elevation of the channel bottom: -.39 meters NGVD (date of last survey was 2001)
- c) Channel width: 5 meters
- d) Bottom type: Mostly mud with some sand
- e) Tide range: 0.2 to 1.6 meters above channel bottom
- f) Salinity range: 0.03 to 37.1 ppt

Specific Site Characteristics: Tidal Linkage (TL)

- a) Orientation of site: Datalogger station is located in the middle of the constructed channel known as the Tidal Linkage. The channel runs northwest to southwest and is located adjacent to the visitor's center in the northeastern section of the reserve. Latitude is 32 deg 34 min 27.9 sec N, longitude is 117 deg 07 min 37.8 sec W.
- b) The elevation of the channel bottom: No current survey data available.
- c) Channel width: 5 meters
- d) Bottom type: very fine mud.
- e) Tide range: 0.2 to 1.6 meters above channel bottom
- f) Salinity range: 0.03 to 37.1 ppt

Specific Site characteristics: Boca Rio (BR)

- a) Orientation of site: Datalogger station is located approximately 300 meters north of the Tijuana River in the middle of a channel which runs north to south. Latitude is 32 33 34.3 N and Longitude is 117 deg 07 min 43.7 sec W.
- b) The elevation of channel bottom: No current survey data available
- c) Channel width: Approximately 10 meters
- d) Bottom type: mostly sand, very little mud
- e) Tide range: 0.5 to 2.14 meters above channel bottom

f) Salinity range: 0.14 to 35.6 ppt

6) Data Collection period

YSI model 6600 EDS dataloggers were used to collect data for the following dates and times.

Oneonta Slough

Deploy Date	Time	Retrieve Date	Time
01/01/06	00:00	01/07/06	12:30
02/02/06	18:30	02/21/06	08:30
02/22/06	16:30	03/06/06	12:30
03/07/06	13:30	03/29/06	16:00
03/30/06	17:00	04/20/06	11:30
04/21/06	19:00	05/04/06	09:30
05/06/06	14:00	05/25/06	13:30
05/26/06	16:00	06/22/06	13:30
06/23/06	15:30	07/17/06	11:00
07/18/06	11:00	08/09/06	16:30
08/10/06	18:30	08/25/06	15:30
08/25/06	16:00	09/22/06	14:00
09/23/06	13:30	10/03/06	13:00
10/04/06	15:30	11/01/06	12:00
11/01/06	12:30	12/01/06	13:00
12/02/06	16:30	12/20/06	16:00
12/20/06	16:30	01/05/07	16:45

Tidal Linkage

Deploy Date	Time	Retrieve Date	Time
01/01/06	00:00	01/01/06	04:00
02/02/06	18:00	02/21/06	08:00
02/22/06	12:30	03/06/06	13:00
03/07/06	13:00	03/29/06	16:30
03/30/06	14:00	04/16/06	16:00
04/21/06	17:00	05/04/06	12:30
05/05/06	14:30	05/27/06	13:30
05/27/06	14:00	06/24/06	06:00
06/24/06	06:30	07/17/06	10:30
07/18/06	11:00	08/10/06	17:00
08/10/06	17:30	09/07/06	15:00
09/08/06	17:00	09/22/06	14:00
09/24/06	17:00	10/03/06	13:00
10/04/06	15:00	10/31/06	13:00
11/03/06	15:00	12/02/06	16:30
12/02/06	17:00	12/19/06	13:30

12/20/06	17:00	01/03/07	16:30
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Model Marsh

Deploy Date	Time	Retrieve Date	Time
12/11/05	14:30	01/07/06	12:00
01/08/06	14:00	02/04/06	17:00
02/04/06	17:30	02/21/06	09:30
02/22/06	16:00	03/06/06	10:00
03/07/06	11:30	03/28/06	13:30
04/01/06	13:30	04/21/06	12:30
04/21/06	19:00	05/04/06	12:00
05/05/06	13:30	05/26/06	14:30
05/26/06	15:00	06/23/06	14:00
06/23/06	14:30	07/19/06	11:00
07/19/06	11:30	08/09/06	15:30
08/10/06	16:30	09/07/06	14:00
09/08/06	16:30	09/24/06	14:30
09/24/06	15:00	10/03/06	11:30
10/04/06	14:00	11/01/06	13:30
11/01/06	14:00	12/02/06	15:00
12/02/06	15:30	12/20/06	14:30
12/20/06	15:00	01/03/07	15:00

Boca Rio

Deploy Date	Time	Retrieve Date	Time
01/01/06	00:00	01/09/06	22:00
01/13/06	16:30	02/01/06	16:30
02/02/06	19:00	02/21/06	12:00
02/22/06	14:30	03/06/06	11:30
03/07/06	13:00	03/29/06	15:30
03/30/06	16:30	04/21/06	11:30
04/21/06	13:00	05/04/06	11:00
05/04/06	12:00	05/25/06	13:00
05/26/06	15:00	06/22/06	13:00
06/23/06	14:30	07/19/06	10:30
07/19/06	11:00	08/11/06	15:30
08/11/06	16:00	09/08/06	16:30
09/08/06	17:00	09/22/06	14:30
09/23/06	14:30	10/05/06	16:00
10/05/06	16:30	11/01/06	12:30
11/01/06	13:00	12/02/06	14:00
12/02/06	14:30	12/20/06	15:30
12/20/06	16:00	01/03/07	16:00

7) Distribution

NOAA/ERD retains the right to analyze, synthesize and publish summaries of the NERRS System-wide Monitoring Program data. The PI retains the right to be fully credited for having collected and processed the data. Following academic courtesy standards, the PI and NERR site where the data were collected will be contacted and fully acknowledged in any subsequent publications in which any part of the data are used. Manuscripts resulting from this NOAA/OCRM supported research that are produced for publication in open literature, including refereed scientific journals, will acknowledge that the research was conducted under an award from the Estuarine Reserves Division, Office of Ocean and Coastal Resource Management, National Ocean Service, National Oceanic and Atmospheric Administration. The data set enclosed within this package/transmission is only as good as the quality assurance and quality control procedures outlined by the enclosed metadata reporting statement. The user bears all responsibility for its subsequent use/misuse in any further analyses or comparisons. The Federal government does not assume liability to the Recipient or third persons, nor will the Federal government reimburse or indemnify the Recipient for its liability due to any losses resulting in any way from the use of this data.

NERR water quality data and metadata can be obtained from the Research Coordinator at the individual NERR site (please see Principal investigators and contact persons), from the Data Manager at the Centralized Data Management Office (please see personnel directory under the general information link on the CDMO home page) and online at the CDMO home page <http://cdmo.baruch.sc.edu/>. Data are available in text tab-delimited format.

8) Associated researchers and projects

NERR SWMP water quality and weather data are used in a variety of reserve-based and external research and education programs. Water quality data from the Tijuana River, which rarely experiences mouth closure, provides an interesting contrast to data from other regional systems, which experience frequent closure events. Also, SWMP water quality data are incorporated into a high school curriculum developed at the reserve. Tier 1 nutrient sampling is being conducted at all water quality datalogger stations. NERR SWMP meteorological sampling is being conducted at 1 station which is located near the Tidal Linkage water quality station. Within the watershed nutrient sampling and flow studies are being conducted by Dr. Richard Gersberg of the San Diego State University Department of Public Health. In addition, much of the reserve is used as a testbed for research related to adaptive marsh restoration, with recent attention on the Model Marsh. The Model Marsh is the ongoing site of research being conducted by PERL which focuses on methods for increasing the success of saltmarsh revegetation projects.

II. Physical Structure Descriptors

9) Sensor Specifications

YSI 6600EDS datalogger

Parameter: Temperature
Units: Celsius (C)
Sensor Type: Thermistor
Model #: 6560
Range: -5 to 45 °C
Accuracy: +/-0.15 °C
Resolution: 0.01 °C

Parameter: Conductivity
Units: milli-Siemens per cm (mS/cm)
Sensor Type: 4-electrode cell with autoranging
Model #: 6560
Range: 0 to 100 mS/cm
Accuracy: +/-0.5% of reading + 0.001 mS/cm
Resolution: 0.001 mS/cm to 0.1 mS/cm (range dependent)

Parameter: Salinity
Units: parts per thousand (ppt)
Sensor Type: Calculated from conductivity and temperature
Range: 0 to 70 ppt
Accuracy: +/- 1.0% of reading or 0.1 ppt, whichever is greater
Resolution: 0.01 ppt

Parameter: Dissolved Oxygen % saturation
Units: percent air saturation (%)
Sensor Type: Rapid Pulse – Clark type, polarographic
Model #: 6562
Range: 0 to 500 % air saturation
Accuracy: 0-200 % air saturation, +/- 2 % of the reading or 2 % air saturation, whichever is greater; 200-500 % air saturation, +/- 6 % of the reading
Resolution: 0.1 % air saturation

Parameter: Dissolved Oxygen mg/L (Calculated from % air saturation, temperature and salinity)
Units: milligrams per Liter (mg/L)
Sensor Type: Rapid Pulse – Clark type, polarographic
Model #: 6562
Range: 0 to 50 mg/L
Accuracy: 0 to 20 mg/L, +/- 2 % of the reading or 0.2 mg/L, whichever is greater; 20 to 50 mg/L, +/- 6 % of the reading
Resolution: 0.01 mg/L

Parameter: Non-Vented Level – Shallow (Depth)
Units: feet or meters (ft or m)
Sensor Type: Stainless steel strain gauge

Range: 0 to 30 ft (9.1 m)
Accuracy: +/- 0.06 ft (0.018 m)
Resolution: 0.001 ft (0.001 m)

Parameter: pH
Units: units
Sensor Type: Glass combination electrode
Model #: 6561
Range: 0 to 14 units
Accuracy: +/- 0.2 units
Resolution: 0.01 units

Parameter: Turbidity
Units: nephelometric turbidity units (NTU)
Sensor Type: Optical, 90 ° scatter, with mechanical cleaning
Model #: 6136
Range: 0 to 1000 NTU
Accuracy: +/- 5 % reading or 2 NTU (whichever is greater)
Resolution: 0.1 NTU

The reliability of the dissolved oxygen (DO) data after 96 hours post-deployment for non-EDS (Extended Deployment System) data sondes may be problematic due to fouling which forms on the DO probe membrane during some deployments (Wenner et al. 2001, 2002). Many reserves have upgraded to YSI 6600 EDS data sondes, which increase DO accuracy and longevity by reducing the environmental effects of fouling. The user is therefore advised to consult the metadata and to exercise caution when utilizing the DO data beyond the initial 96-hour time period. However, this potential drift is not always problematic for some uses of the data, ie. periodicity analysis. It should be noted that the amount of fouling is site specific and that not all data are affected. The Research Coordinator at the specific NERR site should be contacted concerning the reliability of the DO data because of the site and seasonal variation in the fouling of the DO sensor. All data sondes used at TJR NERR sites in 2006 were EDS models.

The NERR System-Wide Monitoring Program utilizes YSI data sondes that can be equipped with either depth or water level sensors. Both sensors measure water depth, but by convention, level sensors refer to atmospherically vented measurements and depth refers to non-vented measurements. Readings for both vented and non-vented sensors are automatically compensated for water density change due to variations in temperature and salinity; but for all non-vented depth measurements, changes in atmospheric pressure between calibrations appear as changes in water depth. The error is equal to approximately 1.03 cm for every 1 millibar change in atmospheric pressure, and is eliminated for level sensors because they are vented to the atmosphere throughout the deployment time interval.

Beginning in 2006, NERR SWMP standard calibration protocol calls for all non-vented depth sensors to read 0 meters at a (local) barometric pressure of 1013.25 mb (760 mm/hg). To achieve this, each site calibrates their depth sensor with a depth offset number, which is calculated using the actual atmospheric pressure at the time of

calibration and the equation provided in the SWMP calibration sheet or Digital Calibration Log. This offset procedure standardizes each depth calibration for the entire NERR System. If accurate atmospheric pressure data are available, non-vented sensor depth measurements at any NERR site can be corrected. The Research Coordinator at the specific NERR site should be contacted in order to obtain information regarding atmospheric pressure data availability.

10) Coded variable definitions

Sampling station: Sampling site code: Station code:

Oneonta Slough	OS	tjroswq
Model Marsh	MM	tjrmmwq
Tidal Linkage	TL	tjrtlwq
Boca Rio	BR	tjrbrwq

11) Data anomalies (suspect data)

On 01/22/2019 this dataset was updated to include embedded QAQC flags for anomalous/suspect data. System-wide monitoring data beginning in 2007 were processed to allow for QAQC flags and codes to be embedded in the data files rather than detailed in the metadata alone (as in the anomalous/suspect, deleted, and missing data sections above). Prior to 2006, rejected data were deleted from the dataset so they are unavailable to be used at all, but suspect data were only noted in the metadata document. Suspect data flags <1> were embedded retroactively in order to allow suspect data to be easily identified and filtered from the dataset if desired for analysis and reporting purposes. No other flags or codes were embedded in the dataset and users should still refer to the detailed explanations above for more information.

Oneonta Slough:

OS January 2006

a) 01/01/2006, 00:00:00 – 01/07/2006, 12:30:00; Dissolved oxygen data for this deployment are suspect. Post cal was 59.6% (100) and the readings appear to be depressed and declining.

b) Negative depth readings were recorded, but the probes remained in the water. Data was not removed for the following dates and times:

01/01/2006 17:30 - 20:00

OS February 2006

a) Lower than average specific conductivity and salinity and higher than average dissolved oxygen and turbidity values were recorded towards the end of this month, which is likely related to rain and discharges from the Tijuana River. Please refer to section 15 for rainfall and discharge details.

b) Highly positive turbidity values (>1000 NTU) were recorded on the following dates and times which were not consistent with the overall data set. Data were not removed.

Date	Time	Turbidity
2/8/2006	9:30:00	1363

c) Negative depth readings were recorded, but the probes remained in the water. Data was not removed for the following dates and times:

02/23/2006 14:30 - 17:00
 02/24/2006 16:00 - 17:00
 02/26/2006 16:30 - 18:00
 02/27/2006 03:00 - 04:00
 02/27/2006 15:30 - 18:30
 02/28/2006 03:30 - 04:30

OS March 2006

a) Lower than average specific conductivity and salinity and higher than average dissolved oxygen and turbidity values were recorded throughout the month, which is likely related to rain and discharges from the Tijuana River. Please refer to section 15 for rainfall and discharge details.

b) 03/30/2006, 17:00:00 – 03/31/2006 23:30:00; pH data are suspect for this deployment. Readings became elevated and erratic. Post cal was 7.67 (7) and the slope was low.

c) Highly positive turbidity values (>1000 NTU) were recorded on the following dates and times which were not consistent with the overall data set. Data were not removed.

Date	Time	Turbidity
3/28/2006	12:00:00	1794.8

d) Negative depth readings were recorded, but the probes remained in the water. Data was not removed for the following dates and times:

03/01/2006 16:30 - 18:30
 03/02/2006 05:00 - 07:00
 03/02/2006 16:00 - 19:00
 03/03/2006 05:30 - 07:30
 03/04/2006 07:00 - 07:30
 03/07/2006 14:00 - 15:00
 03/08/2006 12:00 - 16:00
 03/09/2006 12:30 - 16:30
 03/10/2006 13:30 - 17:00
 03/11/2006 15:00 - 16:00
 03/12/2006 15:30 - 16:30
 03/13/2006 16:00 - 17:30
 03/14/2006 03:00 - 04:30
 03/14/2006 15:00 - 18:00
 03/15/2006 03:30 - 05:30
 03/15/2006 15:30 - 18:00
 03/16/2006 04:30 - 06:00
 03/16/2006 17:00 - 17:30
 03/17/2006 05:30 - 06:30
 03/17/2006 16:30 - 18:00

OS April 2006

a) Lower than average specific conductivity and salinity and higher than average dissolved oxygen and turbidity values were recorded throughout the month, which is likely related to rain and discharges from the Tijuana River. Please refer to section 15 for rainfall and discharge details.

b) 04/01/2006, 00:00:00 - 04/20/2006, 11:30:00; pH data are suspect for this deployment. Readings became elevated and erratic. Post cal was 7.67 (7) and the slope was low.

OS May 2006

a) Lower than average specific conductivity and salinity and higher than average dissolved oxygen and turbidity values were recorded towards the end of this month, which is likely related to rain and discharges from the Tijuana River. Please refer to section 15 for rainfall and discharge details.

b) 05/06/2006, 14:00:00 – 05/31/2006 23:30:00; All parameter data for the deployments beginning on 5/6 and 5/26 are suspect. Strange data patterns emerged during these deployments with extreme erratic decreases in temperature and SpCond/Salinity spikes that were out of character. Possibly a sonde mainboard problem.

c) 05/17/2006 16:00:00 Lower than average temperature and higher than average specific conductivity values were recorded. Data were not removed.

d) 05/26/2006 – 05/31/2006 Lower than average temperatures and higher than average specific conductivity values were recorded periodically during this time period. Data were not removed.

e) Negative depth readings were recorded, but the probes remained in the water. Data was not removed for the following dates and times:

05/16/2006 08:00 - 08:30

05/17/2006 07:30 - 10:00

05/18/2006 09:30 - 10:30

05/20/2006 12:00

05/21/2006 12:30

OS June 2006

a) 06/01/2006 - 06/22/2006 Lower than average temperatures and higher than average specific conductivity values were recorded periodically during this time period. Data were not removed.

B06/01/2006, 00:00:00 – 06/22/2006 13:30:00; All parameter data for the deployments beginning on 5/6 and 5/26 are suspect. Strange data patterns emerged during these deployments with extreme erratic decreases in temperature and SpCond/Salinity spikes that were out of character. Possibly a sonde mainboard problem.

c) Negative depth readings were recorded, but the probes remained in the water. Data was not removed for the following dates and times:

06/24/2006 02:30 - 03:30

06/25/2006 03:30 - 06:30

06/26/2006 04:00 - 07:30

06/27/2006 04:00 - 08:00

06/28/2006 04:30 - 08:30

06/29/2006 05:00 - 06:00

06/30/2006 07:00 - 09:00

OS July 2006

a) Highly positive turbidity values (>1000 NTU) were recorded on the following dates and times which were not consistent with the overall data set. Data were not removed.

Date	Time	Turbidity
7/2/2006	21:00:00	1526.4
7/2/2006	21:30:00	1523.4
7/2/2006	22:30:00	1518.3
7/2/2006	23:30:00	1516.2
7/3/2006	1:30:00	1496.3
7/3/2006	3:30:00	1500.7
7/3/2006	15:30:00	1480.7
7/3/2006	17:00:00	1491.5
7/3/2006	18:30:00	1530.5

b) 07/11/2006 Lower than average temperature and higher than average specific conductivity values were recorded. Data were not removed.

c) Negative depth readings were recorded, but the probes remained in the water. Data was not removed for the following dates and times:

07/01/2006 06:00 - 08:30
07/06/2006 00:30 - 02:00
07/07/2006 02:30
07/07/2006 03:30
07/08/2006 02:30 - 04:30
07/09/2006 02:00 - 05:30
07/10/2006 03:00 - 06:00
07/11/2006 04:00 - 07:00
07/12/2006 04:30 - 07:30
07/13/2006 05:00 - 08:00
07/14/2006 05:30 - 08:30
07/15/2006 05:30 - 08:30
07/16/2006 08:00

OS August 2006

No anomalies

OS September 2006

a) Highly positive turbidity values (>1000 NTU) were recorded on the following dates and times which were not consistent with the overall data set. Data were not removed.

Date	Time	Turbidity
9/8/2006	03:01:00	1832
9/8/2006	06:01:00	1092
9/20/2006	01:31:00	1037
9/20/2006	05:01:00	1004

b) Negative depth readings were recorded, but the probes remained in the water. Data was not removed for the following dates and times:

09/02/2006 01:01 - 01:31

09/03/2006 02:01 - 03:01

09/04/2006 01:31 - 03:31

09/13/2006 22:31

c) The following negative turbidity values were recorded. No reason found. Data were not removed.

Date	Time	Turbidity+
------	------	------------

09/23/2006	22:30:00	-1
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09/24/2006	10:30:00	-1
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09/24/2006	22:30:00	-1
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09/28/2006	12:00:00	-1
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OS October 2006

a) Lower than average specific conductivity and salinity and higher than average dissolved oxygen and turbidity values were recorded throughout the month, which is likely related to rain. Please refer to section 15 for rainfall details.

b) Negative depth readings were recorded, but the probes remained in the water. Data was not removed for the following dates and times:

10/05/2006 03:00 - 03:30

10/05/2006 15:00

10/06/2006 02:30 - 04:00

10/07/2006 15:30 - 16:00

10/07/2006 17:00 - 17:30

10/08/2006 03:00 - 04:00

10/08/2006 16:30 - 18:30

10/09/2006 17:00 - 19:30

10/10/2006 17:30 - 21:00

10/11/2006 18:00 - 22:00

10/12/2006 19:00 - 23:00

10/13/2006 21:00 - 23:30

10/14/2006 00:00 - 00:30

10/14/2006 22:00 - 23:30

10/15/2006 00:00 - 01:00

10/15/2006 23:00 - 23:30

10/16/2006 00:00 - 02:00

10/17/2006 00:00 - 02:30

10/18/2006 02:00

c) The following negative turbidity values were recorded. No reason found. Data were not removed.

Date	Time	Turbidity+
------	------	------------

10/02/2006	07:00:00	-1
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10/03/2006	07:30:00	-1
------------	----------	----

10/07/2006	22:00:00	-1
------------	----------	----

10/08/2006	22:30:00	-1
------------	----------	----

10/08/2006	23:00:00	-1
------------	----------	----

10/09/2006	22:30:00	-1
------------	----------	----

10/09/2006	23:00:00	-1
10/09/2006	23:30:00	-1
10/10/2006	00:00:00	-1
10/10/2006	08:00:00	-1
10/10/2006	11:30:00	-1
10/10/2006	12:00:00	-1
10/11/2006	09:30:00	-1
10/11/2006	11:30:00	-1
10/11/2006	12:00:00	-1
10/11/2006	12:30:00	-1
10/12/2006	02:00:00	-1
10/12/2006	03:00:00	-1
10/12/2006	04:00:00	-1
10/12/2006	04:30:00	-1
10/12/2006	09:00:00	-1
10/12/2006	10:00:00	-1
10/12/2006	10:30:00	-1
10/12/2006	11:30:00	-1
10/12/2006	12:00:00	-1
10/12/2006	12:30:00	-1
10/12/2006	13:00:00	-1
10/12/2006	13:30:00	-1
10/13/2006	04:00:00	-1
10/13/2006	05:00:00	-1
10/13/2006	05:30:00	-1
10/13/2006	07:30:00	-1
10/13/2006	11:00:00	-1
10/13/2006	13:00:00	-1
10/13/2006	13:30:00	-1
10/13/2006	14:00:00	-1
10/13/2006	14:30:00	-1
10/13/2006	15:00:00	-1
10/17/2006	07:30:00	-1
10/18/2006	06:30:00	-1

OS November 2006

a) Negative depth readings were recorded, but the probes remained in the water. Data was not removed for the following dates and times:

11/07/2006 17:00 - 20:00
 11/08/2006 17:30 - 20:30
 11/09/2006 18:00 - 20:00
 11/11/2006 20:30 - 22:30
 11/18/2006 15:00 - 16:00
 11/25/2006 18:00 - 19:00

b) The following negative turbidity values were recorded. No reason found. Data were not removed.

Date	Time	Turbidity+
11/01/2006	15:00:00	-1
11/01/2006	16:00:00	-1
11/01/2006	16:30:00	-2
11/01/2006	17:00:00	-2
11/01/2006	17:30:00	-1
11/01/2006	18:00:00	-2
11/01/2006	18:30:00	-2
11/01/2006	19:00:00	-2
11/01/2006	19:30:00	-2
11/01/2006	20:00:00	-1
11/02/2006	00:00:00	-1
11/02/2006	00:30:00	-1
11/02/2006	01:00:00	-1
11/02/2006	04:00:00	-1
11/02/2006	05:00:00	-2
11/02/2006	06:00:00	-1
11/02/2006	07:30:00	-2
11/02/2006	08:00:00	-2
11/02/2006	08:30:00	-1
11/02/2006	13:00:00	-1
11/02/2006	15:00:00	-1
11/02/2006	17:00:00	-1
11/02/2006	17:30:00	-2
11/02/2006	18:00:00	-2
11/02/2006	18:30:00	-1
11/02/2006	19:00:00	-3
11/02/2006	19:30:00	-3
11/02/2006	20:00:00	-3
11/02/2006	20:30:00	-1
11/02/2006	21:30:00	-1
11/02/2006	22:00:00	-1
11/02/2006	23:00:00	-1
11/03/2006	05:00:00	-2
11/03/2006	05:30:00	-1
11/03/2006	08:00:00	-1
11/03/2006	08:30:00	-1
11/03/2006	09:00:00	-1
11/03/2006	16:00:00	-1
11/03/2006	18:00:00	-2
11/03/2006	18:30:00	-2
11/03/2006	19:00:00	-3
11/03/2006	19:30:00	-3
11/03/2006	20:00:00	-3
11/03/2006	20:30:00	-3
11/03/2006	21:00:00	-2

11/03/2006	21:30:00	-1
11/03/2006	22:30:00	-1
11/03/2006	23:00:00	-1
11/03/2006	23:30:00	-1
11/04/2006	00:00:00	-1
11/04/2006	05:00:00	-1
11/04/2006	08:30:00	-2
11/04/2006	09:00:00	-2
11/04/2006	09:30:00	-1
11/04/2006	18:30:00	-1
11/04/2006	19:00:00	-2
11/04/2006	19:30:00	-2
11/04/2006	20:00:00	-3
11/04/2006	20:30:00	-3
11/04/2006	21:00:00	-3
11/04/2006	21:30:00	-3
11/04/2006	22:00:00	-2
11/05/2006	04:30:00	-1
11/05/2006	05:00:00	-2
11/05/2006	05:30:00	-2
11/05/2006	09:30:00	-1
11/05/2006	10:00:00	-1
11/05/2006	19:30:00	-1
11/05/2006	20:00:00	-2
11/05/2006	20:30:00	-2
11/05/2006	21:00:00	-3
11/05/2006	21:30:00	-3
11/05/2006	22:00:00	-3
11/05/2006	22:30:00	-3
11/05/2006	23:00:00	-3
11/05/2006	23:30:00	-1
11/06/2006	04:30:00	-1
11/06/2006	05:00:00	-2
11/06/2006	05:30:00	-2
11/06/2006	06:00:00	-1
11/06/2006	10:00:00	-1
11/06/2006	10:30:00	-1
11/06/2006	20:30:00	-1
11/06/2006	21:00:00	-3
11/06/2006	21:30:00	-3
11/06/2006	22:00:00	-3
11/06/2006	22:30:00	-3
11/06/2006	23:00:00	-3
11/06/2006	23:30:00	-3
11/07/2006	00:00:00	-3
11/07/2006	00:30:00	-2

11/07/2006	01:00:00	-2
11/07/2006	01:30:00	-1
11/07/2006	04:00:00	-1
11/07/2006	04:30:00	-1
11/07/2006	05:00:00	-2
11/07/2006	05:30:00	-3
11/07/2006	06:00:00	-2
11/07/2006	06:30:00	-2
11/07/2006	10:30:00	-1
11/07/2006	11:00:00	-2
11/07/2006	11:30:00	-1
11/07/2006	21:30:00	-2
11/07/2006	22:00:00	-3
11/07/2006	22:30:00	-3
11/07/2006	23:00:00	-3
11/07/2006	23:30:00	-3
11/08/2006	00:00:00	-3
11/08/2006	00:30:00	-3
11/08/2006	01:00:00	-3
11/08/2006	01:30:00	-2
11/08/2006	02:00:00	-3
11/08/2006	02:30:00	-2
11/08/2006	04:00:00	-1
11/08/2006	04:30:00	-1
11/08/2006	05:00:00	-2
11/08/2006	05:30:00	-2
11/08/2006	06:00:00	-3
11/08/2006	06:30:00	-3
11/08/2006	07:00:00	-3
11/08/2006	07:30:00	-3
11/08/2006	08:00:00	-2
11/08/2006	10:00:00	-1
11/08/2006	10:30:00	-3
11/08/2006	11:00:00	-3
11/08/2006	11:30:00	-2
11/08/2006	12:00:00	-2
11/08/2006	12:30:00	-1
11/08/2006	18:00:00	-1
11/08/2006	20:00:00	-1
11/08/2006	20:30:00	-1
11/08/2006	21:00:00	-2
11/08/2006	21:30:00	-2
11/08/2006	22:00:00	-2
11/08/2006	22:30:00	-2
11/08/2006	23:00:00	-3
11/08/2006	23:30:00	-3

11/09/2006	00:00:00	-4
11/09/2006	00:30:00	-3
11/09/2006	01:00:00	-4
11/09/2006	01:30:00	-4
11/09/2006	02:00:00	-3
11/09/2006	02:30:00	-3
11/09/2006	03:00:00	-3
11/09/2006	03:30:00	-2
11/09/2006	04:00:00	-2
11/09/2006	04:30:00	-2
11/09/2006	05:00:00	-2
11/09/2006	05:30:00	-2
11/09/2006	06:00:00	-3
11/09/2006	06:30:00	-3
11/09/2006	07:00:00	-3
11/09/2006	07:30:00	-3
11/09/2006	08:00:00	-3
11/09/2006	08:30:00	-3
11/09/2006	09:00:00	-1
11/09/2006	11:00:00	-1
11/09/2006	11:30:00	-2
11/09/2006	12:00:00	-2
11/09/2006	12:30:00	-2
11/09/2006	13:00:00	-1
11/09/2006	17:30:00	-1
11/09/2006	18:00:00	-1
11/09/2006	18:30:00	-1
11/09/2006	19:00:00	-1
11/09/2006	19:30:00	-1
11/09/2006	20:00:00	-1
11/09/2006	20:30:00	-1
11/09/2006	21:00:00	-1
11/09/2006	21:30:00	-2
11/09/2006	22:00:00	-2
11/09/2006	22:30:00	-2
11/09/2006	23:00:00	-2
11/09/2006	23:30:00	-2
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11/10/2006	01:00:00	-3
11/10/2006	01:30:00	-4
11/10/2006	02:00:00	-3
11/10/2006	02:30:00	-3
11/10/2006	03:00:00	-3
11/10/2006	03:30:00	-3
11/10/2006	04:00:00	-3

11/10/2006	04:30:00	-3
11/10/2006	05:00:00	-3
11/10/2006	05:30:00	-2
11/10/2006	06:00:00	-2
11/10/2006	06:30:00	-3
11/10/2006	07:00:00	-3
11/10/2006	07:30:00	-3
11/10/2006	08:00:00	-3
11/10/2006	08:30:00	-3
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11/10/2006	10:30:00	-3
11/10/2006	11:00:00	-3
11/10/2006	11:30:00	-3
11/10/2006	12:00:00	-4
11/10/2006	12:30:00	-3
11/10/2006	13:00:00	-3
11/10/2006	13:30:00	-2
11/10/2006	14:00:00	-1
11/10/2006	14:30:00	-1
11/10/2006	21:00:00	-1
11/10/2006	21:30:00	-1
11/10/2006	22:00:00	-1
11/10/2006	22:30:00	-1
11/10/2006	23:00:00	-2
11/10/2006	23:30:00	-1
11/11/2006	00:00:00	-2
11/11/2006	00:30:00	-2
11/11/2006	01:00:00	-2
11/11/2006	01:30:00	-3
11/11/2006	02:00:00	-3
11/11/2006	02:30:00	-3
11/11/2006	03:00:00	-3
11/11/2006	03:30:00	-4
11/11/2006	04:00:00	-3
11/11/2006	04:30:00	-3
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11/11/2006	05:30:00	-3
11/11/2006	06:00:00	-3
11/11/2006	06:30:00	-3
11/11/2006	07:00:00	-3
11/11/2006	07:30:00	-2
11/11/2006	08:00:00	-3
11/11/2006	08:30:00	-3
11/11/2006	09:00:00	-3

11/11/2006	09:30:00	-3
11/11/2006	10:00:00	-3
11/11/2006	10:30:00	-4
11/11/2006	11:00:00	-3
11/11/2006	11:30:00	-3
11/11/2006	12:00:00	-3
11/11/2006	12:30:00	-3
11/11/2006	13:00:00	-4
11/11/2006	13:30:00	-4
11/11/2006	14:00:00	-3
11/11/2006	14:30:00	-3
11/11/2006	15:00:00	-3
11/11/2006	15:30:00	-2
11/11/2006	16:00:00	-1
11/12/2006	00:30:00	-1
11/12/2006	01:00:00	-1
11/12/2006	01:30:00	-1
11/12/2006	02:00:00	-2
11/12/2006	02:30:00	-3
11/12/2006	03:00:00	-3
11/12/2006	03:30:00	-3
11/12/2006	04:00:00	-3
11/12/2006	04:30:00	-3
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11/12/2006	05:30:00	-3
11/12/2006	06:00:00	-3
11/12/2006	06:30:00	-2
11/12/2006	07:00:00	-3
11/12/2006	07:30:00	-3
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11/12/2006	08:30:00	-2
11/12/2006	09:00:00	-2
11/12/2006	09:30:00	-2
11/12/2006	10:00:00	-2
11/12/2006	10:30:00	-3
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11/12/2006	11:30:00	-3
11/12/2006	12:00:00	-3
11/12/2006	12:30:00	-3
11/12/2006	13:00:00	-3
11/12/2006	13:30:00	-3
11/12/2006	14:00:00	-3
11/12/2006	14:30:00	-3
11/12/2006	15:00:00	-3
11/12/2006	15:30:00	-3
11/12/2006	16:00:00	-3

11/12/2006	16:30:00	-2
11/12/2006	17:00:00	-3
11/12/2006	17:30:00	-1
11/12/2006	18:00:00	-1
11/13/2006	01:30:00	-1
11/13/2006	02:00:00	-1
11/13/2006	02:30:00	-2
11/13/2006	03:00:00	-2
11/13/2006	03:30:00	-3
11/13/2006	04:00:00	-3
11/13/2006	04:30:00	-3
11/13/2006	05:00:00	-3
11/13/2006	05:30:00	-4
11/13/2006	06:00:00	-3
11/13/2006	06:30:00	-3
11/13/2006	07:00:00	-3
11/13/2006	07:30:00	-3
11/13/2006	08:00:00	-2
11/13/2006	08:30:00	-2
11/13/2006	09:00:00	-1
11/13/2006	11:30:00	-1
11/13/2006	12:00:00	-1
11/13/2006	12:30:00	-1
11/13/2006	13:00:00	-2
11/13/2006	13:30:00	-2
11/13/2006	14:00:00	-2
11/13/2006	14:30:00	-3
11/13/2006	15:00:00	-3
11/13/2006	15:30:00	-3
11/13/2006	16:00:00	-3
11/13/2006	16:30:00	-3
11/13/2006	17:00:00	-3
11/13/2006	17:30:00	-3
11/13/2006	18:00:00	-2
11/13/2006	18:30:00	-1
11/13/2006	19:00:00	-1
11/14/2006	02:30:00	-2
11/14/2006	03:00:00	-2
11/14/2006	03:30:00	-3
11/14/2006	04:00:00	-3
11/14/2006	04:30:00	-3
11/14/2006	05:00:00	-3
11/14/2006	05:30:00	-3
11/14/2006	06:00:00	-3
11/14/2006	06:30:00	-3
11/14/2006	07:00:00	-3

11/14/2006	07:30:00	-2
11/14/2006	08:00:00	-2
11/14/2006	08:30:00	-1
11/14/2006	09:00:00	-1
11/14/2006	09:30:00	-1
11/14/2006	10:00:00	-1
11/14/2006	11:00:00	-1
11/14/2006	11:30:00	-1
11/14/2006	12:30:00	-1
11/14/2006	13:00:00	-2
11/14/2006	13:30:00	-2
11/14/2006	14:00:00	-2
11/14/2006	14:30:00	-2
11/14/2006	15:00:00	-2
11/14/2006	15:30:00	-3
11/14/2006	16:00:00	-3
11/14/2006	16:30:00	-3
11/14/2006	17:00:00	-3
11/14/2006	17:30:00	-3
11/14/2006	18:00:00	-3
11/14/2006	18:30:00	-3
11/14/2006	19:00:00	-3
11/14/2006	19:30:00	-2
11/14/2006	20:00:00	-1
11/14/2006	20:30:00	-1
11/15/2006	02:30:00	-1
11/15/2006	03:00:00	-1
11/15/2006	03:30:00	-2
11/15/2006	04:00:00	-3
11/15/2006	04:30:00	-3
11/15/2006	05:00:00	-3
11/15/2006	05:30:00	-3
11/15/2006	06:00:00	-3
11/15/2006	06:30:00	-3
11/15/2006	07:00:00	-3
11/15/2006	07:30:00	-3
11/15/2006	08:00:00	-3
11/15/2006	08:30:00	-2
11/15/2006	09:00:00	-2
11/15/2006	09:30:00	-1
11/15/2006	10:00:00	-1
11/15/2006	10:30:00	-1
11/15/2006	11:00:00	-1
11/15/2006	11:30:00	-1
11/15/2006	12:00:00	-1
11/15/2006	13:00:00	-1

11/15/2006	13:30:00	-2
11/15/2006	14:00:00	-2
11/15/2006	14:30:00	-2
11/15/2006	15:00:00	-2
11/15/2006	15:30:00	-2
11/15/2006	16:00:00	-2
11/15/2006	16:30:00	-2
11/15/2006	17:00:00	-3
11/15/2006	17:30:00	-2
11/15/2006	18:00:00	-2
11/15/2006	18:30:00	-1
11/15/2006	19:00:00	-3
11/15/2006	19:30:00	-3
11/15/2006	20:00:00	-2
11/15/2006	20:30:00	-1
11/16/2006	03:30:00	-1
11/16/2006	04:00:00	-2
11/16/2006	04:30:00	-2
11/16/2006	05:00:00	-2
11/16/2006	05:30:00	-2
11/16/2006	06:00:00	-2
11/16/2006	06:30:00	-2
11/16/2006	07:00:00	-1
11/16/2006	07:30:00	-3
11/16/2006	08:00:00	-2
11/16/2006	08:30:00	-1
11/16/2006	10:30:00	-1
11/16/2006	11:00:00	-1
11/16/2006	11:30:00	-1
11/16/2006	12:00:00	-1
11/16/2006	12:30:00	-2
11/16/2006	13:00:00	-2
11/16/2006	13:30:00	-2
11/16/2006	14:00:00	-2
11/16/2006	14:30:00	-2
11/16/2006	15:00:00	-2
11/16/2006	15:30:00	-1
11/16/2006	16:00:00	-1
11/16/2006	16:30:00	-2
11/16/2006	17:00:00	-2
11/16/2006	17:30:00	-3
11/16/2006	18:00:00	-3
11/16/2006	18:30:00	-3
11/16/2006	19:00:00	-3
11/16/2006	19:30:00	-3
11/16/2006	20:00:00	-3

11/16/2006	20:30:00	-3
11/16/2006	21:00:00	-1
11/17/2006	03:30:00	-1
11/17/2006	04:00:00	-2
11/17/2006	04:30:00	-2
11/17/2006	05:00:00	-2
11/17/2006	05:30:00	-2
11/17/2006	06:00:00	-2
11/17/2006	06:30:00	-2
11/17/2006	07:00:00	-2
11/17/2006	07:30:00	-2
11/17/2006	08:00:00	-3
11/17/2006	08:30:00	-2
11/17/2006	09:00:00	-1
11/17/2006	12:00:00	-1
11/17/2006	12:30:00	-1
11/17/2006	13:00:00	-2
11/17/2006	13:30:00	-2
11/17/2006	14:00:00	-2
11/17/2006	14:30:00	-2
11/17/2006	15:00:00	-2
11/17/2006	15:30:00	-2
11/17/2006	16:00:00	-2
11/17/2006	16:30:00	-1
11/17/2006	17:00:00	-1
11/17/2006	17:30:00	-2
11/17/2006	18:00:00	-2
11/17/2006	18:30:00	-3
11/17/2006	19:00:00	-4
11/17/2006	19:30:00	-3
11/17/2006	20:00:00	-3
11/17/2006	20:30:00	-4
11/17/2006	21:00:00	-2
11/17/2006	21:30:00	-1
11/17/2006	22:00:00	-1
11/17/2006	22:30:00	-1
11/17/2006	23:00:00	-1
11/18/2006	03:30:00	-1
11/18/2006	04:00:00	-2
11/18/2006	04:30:00	-2
11/18/2006	05:00:00	-3
11/18/2006	05:30:00	-3
11/18/2006	06:00:00	-2
11/18/2006	06:30:00	-1
11/18/2006	07:30:00	-1
11/18/2006	08:00:00	-2

11/18/2006	08:30:00	-2
11/18/2006	09:00:00	-2
11/18/2006	09:30:00	-1
11/18/2006	13:00:00	-1
11/18/2006	13:30:00	-1
11/18/2006	14:00:00	-1
11/18/2006	14:30:00	-2
11/18/2006	15:00:00	-2
11/18/2006	15:30:00	-2
11/18/2006	16:00:00	-1
11/18/2006	16:30:00	-2
11/18/2006	18:00:00	-1
11/18/2006	18:30:00	-2
11/18/2006	19:00:00	-3
11/18/2006	19:30:00	-3
11/18/2006	20:00:00	-3
11/18/2006	20:30:00	-4
11/18/2006	21:00:00	-3
11/18/2006	21:30:00	-3
11/18/2006	22:00:00	-3
11/18/2006	22:30:00	-1
11/18/2006	23:00:00	-1
11/19/2006	03:30:00	-1
11/19/2006	04:00:00	-2
11/19/2006	04:30:00	-2
11/19/2006	05:00:00	-3
11/19/2006	05:30:00	-2
11/19/2006	06:00:00	-2
11/19/2006	08:00:00	-1
11/19/2006	08:30:00	-2
11/19/2006	09:00:00	-3
11/19/2006	09:30:00	-2
11/19/2006	10:00:00	-2
11/19/2006	13:30:00	-1
11/19/2006	14:30:00	-1
11/19/2006	15:00:00	-1
11/19/2006	16:30:00	-1
11/19/2006	17:00:00	-1
11/19/2006	17:30:00	-1
11/19/2006	18:30:00	-1
11/19/2006	19:00:00	-2
11/19/2006	19:30:00	-3
11/19/2006	20:00:00	-4
11/19/2006	20:30:00	-4
11/19/2006	21:00:00	-3
11/19/2006	21:30:00	-3

11/19/2006	22:00:00	-3
11/19/2006	22:30:00	-3
11/19/2006	23:00:00	-2
11/19/2006	23:30:00	-1
11/20/2006	00:00:00	-1
11/20/2006	00:30:00	-1
11/20/2006	03:30:00	-1
11/20/2006	04:00:00	-2
11/20/2006	04:30:00	-3
11/20/2006	05:00:00	-3
11/20/2006	05:30:00	-3
11/20/2006	06:00:00	-2
11/20/2006	06:30:00	-2
11/20/2006	08:00:00	-1
11/20/2006	08:30:00	-3
11/20/2006	09:00:00	-3
11/20/2006	09:30:00	-2
11/20/2006	10:00:00	-2
11/20/2006	10:30:00	-1
11/20/2006	14:30:00	-1
11/20/2006	16:00:00	-1
11/20/2006	16:30:00	-1
11/20/2006	17:00:00	-1
11/20/2006	17:30:00	-2
11/20/2006	18:00:00	-2
11/20/2006	18:30:00	-1
11/20/2006	19:00:00	-2
11/20/2006	19:30:00	-2
11/20/2006	20:00:00	-4
11/20/2006	20:30:00	-4
11/20/2006	21:00:00	-4
11/20/2006	21:30:00	-4
11/20/2006	22:00:00	-4
11/20/2006	22:30:00	-3
11/20/2006	23:00:00	-3
11/20/2006	23:30:00	-3
11/21/2006	00:00:00	-2
11/21/2006	00:30:00	-1
11/21/2006	01:30:00	-1
11/21/2006	02:30:00	-1
11/21/2006	03:00:00	-2
11/21/2006	03:30:00	-1
11/21/2006	04:00:00	-2
11/21/2006	04:30:00	-3
11/21/2006	05:00:00	-3
11/21/2006	05:30:00	-3

11/21/2006	06:00:00	-3
11/21/2006	06:30:00	-2
11/21/2006	08:00:00	-1
11/21/2006	08:30:00	-1
11/21/2006	09:00:00	-2
11/21/2006	09:30:00	-3
11/21/2006	10:00:00	-2
11/21/2006	10:30:00	-2
11/21/2006	11:00:00	-1
11/21/2006	14:30:00	-2
11/21/2006	15:00:00	-2
11/21/2006	15:30:00	-2
11/21/2006	16:00:00	-2
11/21/2006	16:30:00	-2
11/21/2006	17:00:00	-3
11/21/2006	17:30:00	-2
11/21/2006	18:00:00	-2
11/21/2006	18:30:00	-2
11/21/2006	19:00:00	-2
11/21/2006	19:30:00	-1
11/21/2006	20:00:00	-3
11/21/2006	20:30:00	-2
11/21/2006	21:00:00	-3
11/21/2006	21:30:00	-3
11/21/2006	22:00:00	-4
11/21/2006	22:30:00	-3
11/21/2006	23:00:00	-3
11/21/2006	23:30:00	-3
11/22/2006	00:00:00	-3
11/22/2006	00:30:00	-3
11/22/2006	01:00:00	-2
11/22/2006	01:30:00	-1
11/22/2006	02:00:00	-1
11/22/2006	02:30:00	-1
11/22/2006	03:00:00	-1
11/22/2006	03:30:00	-2
11/22/2006	04:00:00	-1
11/22/2006	04:30:00	-3
11/22/2006	05:00:00	-3
11/22/2006	05:30:00	-3
11/22/2006	06:00:00	-3
11/22/2006	06:30:00	-3
11/22/2006	07:00:00	-3
11/22/2006	07:30:00	-2
11/22/2006	09:00:00	-1
11/22/2006	09:30:00	-2

11/22/2006	10:00:00	-3
11/22/2006	10:30:00	-2
11/22/2006	11:00:00	-2
11/22/2006	11:30:00	-1
11/22/2006	15:30:00	-1
11/22/2006	16:00:00	-2
11/22/2006	16:30:00	-1
11/22/2006	17:00:00	-1
11/22/2006	17:30:00	-1
11/22/2006	18:00:00	-1
11/22/2006	18:30:00	-1
11/22/2006	19:30:00	-1
11/22/2006	20:00:00	-1
11/22/2006	20:30:00	-1
11/22/2006	21:00:00	-2
11/22/2006	21:30:00	-3
11/22/2006	22:00:00	-2
11/22/2006	22:30:00	-4
11/22/2006	23:00:00	-4
11/22/2006	23:30:00	-3
11/23/2006	00:00:00	-3
11/23/2006	01:00:00	-2
11/23/2006	01:30:00	-1
11/23/2006	04:00:00	-1
11/23/2006	04:30:00	-1
11/23/2006	05:00:00	-2
11/23/2006	05:30:00	-2
11/23/2006	06:00:00	-2
11/23/2006	06:30:00	-2
11/23/2006	07:00:00	-2
11/23/2006	07:30:00	-3
11/23/2006	08:00:00	-1
11/23/2006	10:00:00	-2
11/23/2006	10:30:00	-3
11/23/2006	11:30:00	-2
11/23/2006	12:00:00	-1
11/23/2006	18:30:00	-1
11/23/2006	19:30:00	-2
11/23/2006	20:00:00	-2
11/23/2006	20:30:00	-2
11/23/2006	21:00:00	-1
11/23/2006	22:00:00	-2
11/23/2006	22:30:00	-2
11/23/2006	23:00:00	-3
11/23/2006	23:30:00	-2
11/24/2006	00:00:00	-2

11/24/2006	00:30:00	-2
11/24/2006	01:00:00	-3
11/24/2006	01:30:00	-3
11/24/2006	03:00:00	-1
11/24/2006	03:30:00	-1
11/24/2006	04:00:00	-1
11/24/2006	05:00:00	-1
11/24/2006	05:30:00	-2
11/24/2006	06:00:00	-2
11/24/2006	06:30:00	-2
11/24/2006	07:00:00	-2
11/24/2006	07:30:00	-2
11/24/2006	11:00:00	-1
11/24/2006	11:30:00	-1
11/24/2006	12:30:00	-1
11/24/2006	13:00:00	-1
11/24/2006	22:00:00	-1
11/24/2006	23:30:00	-2
11/25/2006	00:00:00	-1
11/25/2006	01:00:00	-1
11/25/2006	01:30:00	-1
11/25/2006	02:00:00	-2
11/25/2006	02:30:00	-2
11/25/2006	03:00:00	-3
11/25/2006	03:30:00	-2
11/25/2006	04:00:00	-1
11/25/2006	04:30:00	-1
11/25/2006	05:00:00	-1
11/25/2006	05:30:00	-1
11/25/2006	06:00:00	-2
11/25/2006	06:30:00	-2
11/25/2006	07:00:00	-3
11/25/2006	07:30:00	-3
11/25/2006	08:00:00	-2
11/25/2006	08:30:00	-2
11/25/2006	09:00:00	-3
11/25/2006	10:00:00	-1
11/25/2006	10:30:00	-1
11/25/2006	11:00:00	-1
11/25/2006	11:30:00	-2
11/25/2006	12:00:00	-3
11/25/2006	12:30:00	-1
11/25/2006	17:00:00	-1
11/25/2006	18:00:00	-1
11/25/2006	20:30:00	-1
11/25/2006	21:30:00	-1

11/25/2006	22:00:00	-1
11/25/2006	23:00:00	-1
11/26/2006	00:00:00	-1
11/26/2006	00:30:00	-2
11/26/2006	01:00:00	-3
11/26/2006	02:30:00	-2
11/26/2006	03:00:00	-1
11/26/2009	04:00:00	-1
11/26/2006	04:30:00	-2
11/26/2006	06:00:00	-2
11/26/2006	06:30:00	-2
11/26/2006	07:00:00	-2
11/26/2006	08:00:00	-1
11/26/2006	08:30:00	-2
11/26/2006	09:30:00	-3
11/26/2006	10:00:00	-2
11/26/2006	11:30:00	-3
11/26/2006	12:00:00	-2
11/26/2006	12:30:00	-1
11/26/2006	13:00:00	-3
11/26/2006	13:30:00	-2
11/26/2009	14:00:00	-1
11/27/2006	03:00:00	-2
11/27/2006	04:00:00	-2
11/27/2006	05:30:00	-2
11/27/2006	10:00:00	-2
11/27/2006	12:00:00	-1
11/27/2006	13:00:00	-2
11/27/2006	14:00:00	-1

OS December 2006

a) Lower than average specific conductivity and salinity and higher than average dissolved oxygen and turbidity values were recorded throughout the month, which is likely related to rain and discharges from the Tijuana River. Please refer to section 15 for rainfall and discharge details.

b) 12/02/2006, 16:30:00 – 12/20/2006, 16:00:00; pH data for this deployment are suspect. Post cal values were 6.78 (7) and 10.24 (10) and the slopes were out of range (124 and 143). The values appear depressed.

c) 12/20/2006 - 12/31/2006 The time was offset by one minute during this period. It was corrected to the nearest half hour.

d) Negative depth readings were recorded, but the probes remained in the water. Data was not removed for the following dates and times:

12/07/2006 16:30 - 18:30

12/07/2006 20:00

12/08/2006 17:30 - 18:00

12/20/2006 17:16 - 17:46

12/21/2006 16:01 - 19:46
 12/22/2006 16:46 - 19:46
 12/23/2006 17:01 - 20:46
 12/25/2006 17:31 - 22:01
 12/26/2006 20:31 - 21:16
 12/30/2006 15:16 - 15:31
 12/31/2006 14:01 – 16:46

e) The following negative turbidity values were recorded. No reason found. Data were not removed.

Date	Time	Turbidity+
12/01/2006	07:00:00	-2
12/01/2006	07:30:00	-1
12/01/2006	08:00:00	-1
12/01/2006	12:00:00	-1
12/20/2006	23:00:00	-1
12/20/2006	23:16:00	-1
12/21/2006	22:15:00	-1
12/21/2006	22:30:00	-1
12/21/2006	22:45:00	-1
12/21/2006	23:01:00	-1
12/21/2006	23:15:00	-1
12/21/2006	23:31:00	-1
12/21/2006	23:46:00	-1
12/22/2006	00:00:00	-1
12/25/2006	01:46:00	-1
12/25/2006	11:16:00	-1
12/25/2006	11:30:00	-1
12/25/2006	11:46:00	-1
12/25/2006	12:00:00	-1
12/25/2006	12:15:00	-1
12/25/2006	12:30:00	-1
12/25/2006	12:45:00	-1
12/26/2006	02:45:00	-1
12/26/2006	13:15:00	-1
12/26/2006	13:30:00	-1
12/26/2006	13:45:00	-1
12/26/2006	14:00:00	-1
12/31/2006	21:15:00	-1

Tidal Linkage:
 TL January 2006
 No anomalies

TL February 2006

a) 02/05/2006 - 02/21/2006; Turbidity values were higher than average throughout deployment. This was likely caused by excessive sediment around sonde and sonde holder. Data were not removed.

b) Highly positive turbidity values (>1000 NTU) were recorded on the following dates and times which were not consistent with the overall data set. Data were not removed.

Date	Time	Turbidity
02/05/2006	21:00:00	1722
02/05/2006	22:00:00	1415
02/05/2006	23:00:00	1307
02/06/2006	00:00:00	1659
02/06/2006	01:30:00	1728
02/06/2006	03:00:00	1434
02/06/2006	04:30:00	1406
02/06/2006	08:30:00	1424
02/06/2006	10:00:00	1543
02/06/2006	11:00:00	1043
02/06/2006	12:30:00	1764
02/06/2006	14:00:00	2161
02/06/2006	16:30:00	1291
02/06/2006	23:30:00	1095
02/07/2006	01:00:00	1134
02/07/2006	04:30:00	1092
02/08/2006	03:00:00	1823
02/08/2006	18:00:00	1236
02/08/2006	21:00:00	1132
02/09/2006	03:00:00	1129
02/09/2006	19:30:00	1988
02/13/2006	07:00:00	1492
02/13/2006	07:30:00	1915
02/14/2006	19:30:00	1072
02/15/2006	08:30:00	1465
02/16/2006	04:30:00	1359
02/16/2006	06:00:00	1913
02/16/2006	09:30:00	1229
02/16/2006	18:30:00	1200
02/16/2006	22:00:00	1903
02/19/2006	18:00:00	1058
02/20/2006	00:30:00	1109
02/20/2006	06:30:00	1041
02/20/2006	20:00:00	1973

c) The following negative turbidity values were recorded. No reason found. Data were not removed.

02/05/2006	14:00:00	-1
02/05/2006	14:30:00	-1
02/05/2006	15:00:00	-1
02/05/2006	18:30:00	-1

TL March 2006

- a) 03/04/2006, 05:00:00 - 03/06/2006, 13:00:00; Turbidity values were higher than average. Reason was not known and data were retained.
- b) Lower than average specific conductivity and salinity and higher than average dissolved oxygen and turbidity values were recorded throughout the month, which is likely related to rain and discharges from the Tijuana River. Please refer to section 15 for rainfall and discharge details.
- c) Highly positive turbidity values (>1000 NTU) were recorded on the following dates and times which were not consistent with the overall data set. Data were not removed.

Date	Time	Turbidity
03/04/2006	05:00:00	1170
03/04/2006	06:00:00	1055
03/04/2006	07:00:00	1036
03/04/2006	09:30:00	1989
03/04/2006	15:30:00	1118
03/04/2006	17:30:00	1858
03/04/2006	19:00:00	1131
03/04/2006	20:30:00	1160
03/04/2006	23:30:00	1113
03/05/2006	00:00:00	1686
03/05/2006	04:00:00	1673
03/05/2006	13:00:00	1056
03/05/2006	19:00:00	1292
03/06/2006	02:30:00	1383
03/06/2006	04:00:00	1996
03/10/2006	14:30:00	1013
03/17/2006	00:30:00	1250
03/17/2006	02:00:00	2070
03/22/2006	14:30:00	1259
03/22/2006	22:00:00	1280
03/22/2006	23:00:00	1221
03/24/2006	05:30:00	1209
03/24/2006	22:30:00	2187
03/24/2006	23:00:00	2182
03/25/2006	01:00:00	2149
03/25/2006	01:30:00	1928
03/25/2006	03:30:00	1116
03/25/2006	20:00:00	1241
03/27/2006	19:30:00	2153
03/28/2006	02:30:00	2100

- d) Negative depth readings were recorded, but the probes remained in the water. Data was not removed for the following dates and times:

03/09/2006 12:00:00 - 17:30

03/10/2006 12:30:00 - 18:00

03/11/2006 00:30:00 - 02:30

03/11/2006 13:30:00 - 17:30
03/18/2006 04:30:00 - 08:30
03/18/2006 16:00:00 - 19:00
03/19/2006 05:00:00 - 09:30
03/19/2006 16:00:00 - 18:30

TL April 2006

a) Between 04/27/2006 – 04/30/2006 periods of higher than average turbidity were recorded. This is likely related to rainfall and discharge from the Tijuana River. Please refer to section 15 for rainfall and discharge details.

b) Highly positive turbidity values (>1000 NTU) were recorded on the following dates and times which were not consistent with the overall data set. Data were not removed.

Date	Time	Turbidity
04/11/2006	20:00:00	1466
04/11/2006	21:30:00	1948
04/13/2006	03:00:00	1383
04/13/2006	04:30:00	1910
04/13/2006	12:00:00	1967
04/13/2006	13:00:00	1192
04/13/2006	16:00:00	1170
04/13/2006	20:00:00	1293
04/13/2006	22:00:00	1878
04/13/2006	23:00:00	1885
04/14/2006	00:30:00	1110
04/14/2006	02:30:00	1173
04/14/2006	04:30:00	1184
04/14/2006	11:30:00	1183
04/14/2006	23:30:00	1142
04/15/2006	01:30:00	1142
04/15/2006	04:00:00	1802
04/15/2006	11:00:00	1037
04/15/2006	12:30:00	1319
04/15/2006	14:00:00	1408
04/15/2006	15:30:00	1682
04/15/2006	23:30:00	1007
04/27/2006	23:00:00	1427
04/27/2006	23:30:00	1050
04/28/2006	14:30:00	1121
04/28/2006	16:30:00	2162
04/28/2006	17:30:00	1209
04/28/2006	19:00:00	1253
04/28/2006	23:00:00	1149
04/29/2006	01:00:00	1535
04/29/2006	02:00:00	1849
04/29/2006	02:30:00	1100

TL May 2006

a) Lower than average specific conductivity and salinity and higher than average dissolved oxygen and turbidity values were recorded throughout the month, which is likely related to rain and discharges from the Tijuana River. Please refer to section 15 for rainfall and discharge details.

b) Highly positive turbidity values (>1000 NTU) were recorded on the following dates and times which were not consistent with the overall data set. Data were not removed.

Date	Time	Turbidity
05/02/2006	18:00:00	1460
05/03/2006	17:30:00	1079
05/03/2006	19:30:00	1333
05/03/2006	21:00:00	1007
05/20/2006	08:00:00	2037
05/21/2006	09:00:00	1006
05/22/2006	04:30:00	1042
05/22/2006	23:00:00	2024
05/23/2006	03:00:00	2013
05/24/2006	07:00:00	1885
05/27/2006	08:00:00	2001
05/27/2006	09:00:00	1980
05/29/2006	13:00:00	1060
05/29/2006	17:00:00	1492
05/29/2006	22:30:00	1365

TL June 2006

a) Lower than average specific conductivity and salinity and higher than average turbidity values were recorded throughout the month. The reason is not known.

b) 5/27/2006 - 6/24/2006 Post calibration showed a lower than average value for dissolved oxygen but it was determined that that was in error and the data were ok.

c) Highly positive turbidity values (>1000 NTU) were recorded on the following dates and times which were not consistent with the overall data set. Data were not removed.

Date	Time	Turbidity
06/01/2006	19:30:00	1452
06/04/2006	18:30:00	1195
06/04/2006	21:00:00	1452
06/05/2006	18:30:00	1444
06/14/2006	00:00:00	1374
06/14/2006	19:30:00	1460
06/17/2006	14:00:00	1492

TL July 2006

a) Lower than average specific conductivity and salinity and higher than average turbidity values were recorded throughout the month. The reason is not known.

b) Highly positive turbidity values (>1000 NTU) were recorded on the following dates and times which were not consistent with the overall data set. Data were not removed.

Date	Time	Turbidity
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07/20/2006	09:30:00	1205
07/20/2006	10:00:00	1012
07/21/2006	16:00:00	1188
07/29/2006	17:30:00	2774
07/31/2006	15:00:00	1221
07/31/2006	16:30:00	2781

c) The following negative turbidity values were recorded. No reason found. Data were not removed.

Date	Time	Turbidity+
07/18/2006	14:00:00	-2
07/18/2006	14:30:00	-1
07/18/2006	15:00:00	-2
07/18/2006	16:30:00	-5
07/18/2006	17:00:00	-5
07/18/2006	17:30:00	-6
07/18/2006	18:00:00	-4
07/18/2006	18:30:00	-5
07/18/2006	19:00:00	-5
07/18/2006	19:30:00	-2
07/18/2006	20:00:00	-3
07/18/2006	21:00:00	-2
07/18/2006	21:30:00	-3
07/18/2006	22:00:00	-3
07/18/2006	22:30:00	-4
07/18/2006	23:00:00	-4
07/18/2006	23:30:00	-4
07/19/2006	00:00:00	-4
07/19/2006	00:30:00	-4
07/19/2006	01:00:00	-4
07/19/2006	01:30:00	-4
07/19/2006	02:00:00	-5
07/19/2006	02:30:00	-5
07/19/2006	03:00:00	-5
07/19/2006	03:30:00	-5
07/19/2006	04:00:00	-4
07/19/2006	04:30:00	-4
07/19/2006	05:00:00	-2
07/19/2006	06:00:00	-5
07/19/2006	06:30:00	-5
07/19/2006	07:00:00	-5
07/19/2006	07:30:00	-4
07/19/2006	08:00:00	-3
07/19/2006	08:30:00	-2
07/19/2006	09:30:00	-3
07/19/2006	10:00:00	-2
07/19/2006	13:00:00	-1

07/19/2006	16:00:00	-2
07/19/2006	16:30:00	-3
07/19/2006	17:00:00	-5
07/19/2006	17:30:00	-4
07/19/2006	18:00:00	-2
07/19/2006	19:00:00	-2
07/20/2006	11:30:00	-2
07/20/2006	13:00:00	-3
07/20/2006	13:30:00	-3
07/20/2006	14:00:00	-2
07/20/2006	14:30:00	-1
07/20/2006	16:00:00	-1
07/20/2006	16:30:00	-2
07/20/2006	17:00:00	-5
07/20/2006	17:30:00	-6
07/20/2006	18:00:00	-5
07/20/2006	18:30:00	-6
07/20/2006	19:00:00	-5
07/20/2006	20:00:00	-5
07/20/2006	20:30:00	-5
07/20/2006	21:00:00	-4
07/20/2006	21:30:00	-3
07/20/2006	22:00:00	-3
07/20/2006	23:30:00	-2
07/21/2006	00:30:00	-2
07/21/2006	01:30:00	-2
07/21/2006	02:30:00	-1
07/21/2006	03:00:00	-2
07/21/2006	03:30:00	-3
07/21/2006	04:00:00	-3
07/21/2006	04:30:00	-4
07/21/2006	05:00:00	-3
07/21/2006	05:30:00	-3
07/21/2006	06:00:00	-4
07/21/2006	06:30:00	-4
07/21/2006	07:00:00	-3
07/21/2006	07:30:00	-3
07/21/2006	08:00:00	-1
07/21/2006	09:00:00	-2
07/21/2006	10:00:00	-1
07/21/2006	13:30:00	-2
07/21/2006	19:00:00	-4
07/21/2006	20:30:00	-4
07/21/2006	21:00:00	-5
07/21/2006	21:30:00	-4
07/21/2006	22:00:00	-5

07/21/2006	22:30:00	-3
07/21/2006	23:00:00	-1
07/21/2006	23:30:00	-2
07/22/2006	00:00:00	-1
07/22/2006	00:30:00	-2
07/22/2006	01:00:00	-1
07/22/2006	01:30:00	-2
07/22/2006	02:00:00	-2
07/22/2006	02:30:00	-2
07/22/2006	03:00:00	-2
07/22/2006	03:30:00	-3
07/22/2006	04:00:00	-3
07/22/2006	04:30:00	-3
07/22/2006	05:00:00	-4
07/22/2006	05:30:00	-4
07/22/2006	06:00:00	-4
07/22/2006	06:30:00	-4
07/22/2006	08:30:00	-2
07/22/2006	11:00:00	-2
07/22/2006	15:30:00	-1
07/24/2006	06:00:00	-1
07/24/2006	06:30:00	-2
07/24/2006	07:00:00	-1
07/24/2006	07:30:00	-1
07/24/2006	23:30:00	-1

TL August 2006

a) Lower than average specific conductivity and salinity and higher than average turbidity values were recorded throughout the month. The reason is not known.

b) Highly positive turbidity values (>1000 NTU) were recorded on the following dates and times which were not consistent with the overall data set. Data were not removed.

Date	Time	Turbidity
08/1/2006	12:00:00	2752
08/1/2006	14:30:00	1158
08/2/2006	08:00:00	1100
08/2/2006	16:00:00	1614
08/3/2006	16:00:00	2726

c) 08/10/2006 – 08/31/2006 The time was offset by one minute during this period. It was corrected to the nearest half hour.

d) Negative depth readings were recorded, but the probes remained in the water. Data was not removed for the following dates and times:

08/20/2006	14:01:00 - 15:01
08/21/2006	15:01:00 - 16:01
08/22/2006	14:31:00 - 16:31
08/23/2006	15:31:00 - 17:31
08/24/2006	15:31:00 - 17:31

e) The following negative turbidity values were recorded. No reason found. Data were not removed.

08/07/2006	20:00:00	-1
08/07/2006	22:00:00	-1
08/07/2006	22:30:00	-1
08/08/2006	04:30:00	-1
08/08/2006	05:00:00	-1
08/08/2006	05:30:00	-1
08/08/2006	06:00:00	-1
08/08/2006	06:30:00	-2
08/08/2006	07:00:00	-2
08/08/2006	07:30:00	-2
08/08/2006	08:30:00	-1
08/08/2006	11:00:00	-1
08/08/2006	12:30:00	-2
08/10/2006	20:01:00	-1
08/10/2006	23:01:00	-1
08/10/2006	23:31:00	-5
08/11/2006	00:01:00	-4
08/11/2006	00:31:00	-3
08/11/2006	01:01:00	-2
08/11/2006	01:31:00	-3
08/11/2006	02:01:00	-2
08/11/2006	03:31:00	-2
08/11/2006	04:01:00	-3
08/11/2006	04:31:00	-2
08/11/2006	05:01:00	-3
08/11/2006	05:31:00	-3
08/11/2006	06:01:00	-4
08/11/2006	06:31:00	-4
08/11/2006	07:01:00	-3
08/11/2006	07:31:00	-4
08/11/2006	08:01:00	-4
08/11/2006	08:31:00	-4
08/11/2006	14:31:00	-2
08/11/2006	15:01:00	-1
08/11/2006	16:31:00	-1
08/11/2006	18:30:00	-1
08/11/2006	19:01:00	-1
08/11/2006	19:31:00	-2
08/11/2006	21:31:00	-1
08/11/2006	22:31:00	-4
08/11/2006	23:01:00	-4
08/11/2006	23:31:00	-4
08/12/2006	00:01:00	-4
08/12/2006	00:31:00	-4

08/12/2006	01:01:00	-4
08/12/2006	01:31:00	-4
08/12/2006	02:01:00	-3
08/12/2006	02:31:00	-2
08/12/2006	03:01:00	-2
08/12/2006	03:31:00	-1
08/12/2006	04:01:00	-2
08/12/2006	04:31:00	-2
08/12/2006	05:01:00	-2
08/12/2006	05:31:00	-2
08/12/2006	06:01:00	-3
08/12/2006	06:31:00	-2
08/12/2006	07:01:00	-2
08/12/2006	07:31:00	-2
08/12/2006	08:01:00	-2
08/12/2006	08:31:00	-3
08/12/2006	10:31:00	-1
08/12/2006	15:01:00	-1
08/12/2006	16:01:00	-2
08/12/2006	22:31:00	-1
08/12/2006	23:01:00	-1
08/12/2006	23:31:00	-2
08/13/2006	00:01:00	-1
08/13/2006	00:31:00	-1
08/13/2006	01:01:00	-1
08/13/2006	01:31:00	-1
08/13/2006	02:01:00	-1
08/13/2006	02:31:00	-1
08/13/2006	03:01:00	-3
08/13/2006	03:31:00	-3
08/13/2006	04:01:00	-3
08/13/2006	04:31:00	-2
08/13/2006	05:01:00	-1
08/13/2006	05:31:00	-1
08/13/2006	06:01:00	-2
08/13/2006	06:31:00	-2
08/13/2006	07:01:00	-2
08/13/2006	07:31:00	-1
08/13/2006	08:01:00	-1
08/13/2006	08:31:00	-1
08/13/2006	09:01:00	-1
08/13/2006	11:01:00	-2
08/13/2006	22:01:00	-2
08/13/2006	22:31:00	-2
08/13/2006	23:01:00	-2
08/13/2006	23:31:00	-2

08/14/2006	00:01:00	-1
08/14/2006	00:31:00	-1
08/14/2006	01:01:00	-1
08/14/2006	01:31:00	-1
08/14/2006	09:31:00	-3
08/14/2006	11:31:00	-1
08/14/2006	12:01:00	-1
08/15/2006	00:31:00	-1
08/16/2006	21:01:00	-1
08/16/2006	21:31:00	-1
08/16/2006	22:01:00	-1
08/16/2006	22:31:00	-1
08/17/2006	11:01:00	-1
08/17/2006	17:01:00	-3
08/18/2006	09:01:00	-1
08/18/2006	09:31:00	-1
08/18/2006	10:01:00	-1
08/18/2006	10:31:00	-1
08/18/2006	11:01:00	-1
08/18/2006	11:31:00	-1
08/18/2006	12:01:00	-1
08/18/2006	12:31:00	-1
08/18/2006	13:01:00	-2
08/18/2006	17:31:00	-4
08/18/2006	18:01:00	-5
08/18/2006	18:31:00	-4
08/18/2006	19:01:00	-5
08/18/2006	19:31:00	-5
08/18/2006	20:01:00	-4
08/18/2006	20:31:00	-2
08/18/2006	21:01:00	-2
08/18/2006	21:31:00	-1
08/18/2006	22:01:00	-1
08/18/2006	22:30:00	-1
08/18/2006	23:01:00	-1
08/19/2006	00:00:00	-1
08/19/2006	00:31:00	-1
08/19/2006	01:01:00	-1
08/19/2006	01:31:00	-2
08/19/2006	02:01:00	-2
08/19/2006	02:31:00	-2
08/19/2006	03:01:00	-2
08/19/2006	03:31:00	-2
08/19/2006	04:01:00	-3
08/19/2006	04:31:00	-3
08/19/2006	05:01:00	-2

08/19/2006	05:31:00	-3
08/19/2006	06:01:00	-2
08/19/2006	06:31:00	-1
08/19/2006	07:01:00	-1
08/19/2006	07:31:00	-1
08/19/2006	11:01:00	-1
08/19/2006	14:31:00	-1
08/19/2006	17:31:00	-1
08/19/2006	18:01:00	-4
08/19/2006	18:31:00	-5
08/19/2006	19:01:00	-5
08/19/2006	19:31:00	-5
08/19/2006	20:01:00	-4
08/19/2006	20:31:00	-5
08/19/2006	21:01:00	-5
08/19/2006	21:31:00	-3
08/19/2006	22:01:00	-2
08/19/2006	22:31:00	-2
08/19/2006	23:31:00	-2
08/20/2006	00:01:00	-2
08/20/2006	00:30:00	-1
08/20/2006	01:01:00	-1
08/20/2006	01:31:00	-2
08/20/2006	02:01:00	-2
08/20/2006	02:31:00	-2
08/20/2006	03:01:00	-3
08/20/2006	03:31:00	-3
08/20/2006	04:01:00	-3
08/20/2006	04:31:00	-3
08/20/2006	05:01:00	-3
08/20/2006	05:31:00	-3
08/20/2006	06:01:00	-2
08/20/2006	06:31:00	-2
08/20/2006	07:31:00	-1
08/20/2006	08:31:00	-1
08/20/2006	09:01:00	-1
08/20/2006	09:31:00	-2
08/20/2006	10:01:00	-2
08/20/2006	10:31:00	-3
08/20/2006	11:01:00	-2
08/20/2006	11:31:00	-2
08/20/2006	12:31:00	-1
08/20/2006	13:01:00	-1
08/20/2006	13:31:00	-1
08/20/2006	14:01:00	-2
08/20/2006	14:31:00	-1

08/20/2006	15:01:00	-1
08/20/2006	18:31:00	-4
08/20/2006	19:01:00	-4
08/20/2006	19:31:00	-4
08/20/2006	20:01:00	-5
08/20/2006	20:31:00	-5
08/20/2006	21:01:00	-5
08/20/2006	21:31:00	-5
08/20/2006	22:01:00	-5
08/20/2006	22:31:00	-4
08/20/2006	23:01:00	-3
08/20/2006	23:31:00	-2
08/21/2006	00:01:00	-2
08/21/2006	00:31:00	-2
08/21/2006	01:01:00	-2
08/21/2006	01:31:00	-1
08/21/2006	02:01:00	-2
08/21/2006	02:31:00	-3
08/21/2006	03:01:00	-4
08/21/2006	03:31:00	-4
08/21/2006	04:01:00	-4
08/21/2006	04:31:00	-4
08/21/2006	05:01:00	-4
08/21/2006	05:31:00	-4
08/21/2006	06:01:00	-4
08/21/2006	06:31:00	-4
08/21/2006	07:01:00	-2
08/21/2006	08:31:00	-3
08/21/2006	09:01:00	-1
08/21/2006	09:31:00	-3
08/21/2006	10:01:00	-3
08/21/2006	10:31:00	-2
08/21/2006	11:01:00	-2
08/21/2006	11:31:00	-1
08/21/2006	12:31:00	-2
08/21/2006	13:01:00	-2
08/21/2006	13:31:00	-2
08/21/2006	14:01:00	-1
08/21/2006	14:31:00	-2
08/21/2006	15:01:00	-1
08/21/2006	15:31:00	-1
08/21/2006	16:01:00	-1
08/21/2006	18:31:00	-1
08/21/2006	19:01:00	-4
08/21/2006	19:31:00	-5
08/21/2006	20:01:00	-5

08/21/2006	20:31:00	-4
08/21/2006	21:01:00	-5
08/21/2006	21:31:00	-5
08/21/2006	22:01:00	-5
08/21/2006	22:31:00	-4
08/21/2006	23:01:00	-3
08/21/2006	23:31:00	-3
08/22/2006	00:01:00	-3
08/22/2006	00:31:00	-3
08/22/2006	01:01:00	-2
08/22/2006	01:31:00	-2
08/22/2006	02:01:00	-2
08/22/2006	02:31:00	-3
08/22/2006	03:01:00	-3
08/22/2006	03:31:00	-3
08/22/2006	04:01:00	-3
08/22/2006	04:31:00	-3
08/22/2006	05:01:00	-3
08/22/2006	05:31:00	-3
08/22/2006	06:01:00	-3
08/22/2006	06:31:00	-3
08/22/2006	07:01:00	-4
08/22/2006	07:31:00	-3
08/22/2006	09:31:00	-2
08/22/2006	10:01:00	-2
08/22/2006	10:31:00	-2
08/22/2006	12:31:00	-3
08/22/2006	13:31:00	-3
08/22/2006	14:01:00	-2
08/22/2006	14:31:00	-1
08/22/2006	15:01:00	-2
08/22/2006	15:31:00	-2
08/22/2006	16:01:00	-2
08/22/2006	16:31:00	-2
08/22/2006	19:01:00	-1
08/22/2006	19:31:00	-3
08/22/2006	20:01:00	-5
08/22/2006	20:31:00	-5
08/22/2006	21:01:00	-5
08/22/2006	21:31:00	-5
08/22/2006	22:01:00	-5
08/22/2006	22:31:00	-4
08/22/2006	23:01:00	-5
08/23/2006	05:01:00	-1
08/23/2006	13:31:00	-1
08/23/2006	16:01:00	-2

08/23/2006	20:01:00	-2
08/23/2006	20:31:00	-4
08/23/2006	21:01:00	-4
08/23/2006	21:31:00	-3
08/23/2006	22:01:00	-3
08/23/2006	22:31:00	-4
08/23/2006	23:01:00	-2
08/23/2006	23:31:00	-3
08/24/2006	00:01:00	-1
08/24/2006	23:31:00	-2
08/25/2006	02:31:00	-1
08/25/2006	03:01:00	-1
08/25/2006	03:31:00	-3
08/25/2006	04:01:00	-2
08/25/2006	04:31:00	-2
08/25/2006	05:01:00	-3
08/25/2006	05:31:00	-3
08/25/2006	06:01:00	-4
08/25/2006	06:31:00	-3
08/25/2006	07:01:00	-3
08/25/2006	07:31:00	-3
08/25/2006	08:01:00	-3
08/25/2006	08:31:00	-2
08/25/2006	09:01:00	-1
08/25/2006	10:01:00	-2
08/25/2006	10:31:00	-2
08/25/2006	21:31:00	-1
08/25/2006	23:31:00	-1
08/26/2006	00:01:00	-2
08/26/2006	00:31:00	-1
08/26/2006	01:01:00	-1
08/26/2006	02:01:00	-2
08/26/2006	02:31:00	-1
08/26/2006	03:01:00	-1
08/26/2006	03:31:00	-1
08/26/2006	04:01:00	-2
08/26/2006	04:31:00	-2
08/26/2006	05:01:00	-2
08/26/2006	05:31:00	-2
08/26/2006	06:01:00	-1
08/26/2006	06:31:00	-2
08/26/2006	08:01:00	-2
08/26/2006	10:31:00	-1
08/27/2006	02:01:00	-2
08/27/2006	02:31:00	-2
08/27/2006	04:01:00	-3

08/27/2006	04:31:00	-3
08/27/2006	05:01:00	-2
08/27/2006	05:31:00	-2
08/27/2006	06:01:00	-3
08/27/2006	06:31:00	-3
08/27/2006	07:01:00	-3
08/27/2006	07:31:00	-3
08/27/2006	08:01:00	-2
08/27/2006	08:31:00	-1
08/29/2006	11:31:00	-1
08/29/2006	12:01:00	-1
08/30/2006	12:31:00	-1
08/30/2006	13:01:00	-1
08/30/2006	23:01:00	-1
08/30/2006	23:31:00	-1
08/31/2006	00:01:00	-1

TL September 2006

a) Highly positive turbidity values (>1000 NTU) were recorded on the following dates and times which were not consistent with the overall data set. Data were not removed.

Date	Time	Turbidity
9/6/2006	23:31:00	1374.6

b) 09/01/2006- 09/7/2006 The time was offset by one minute during this period. It was corrected to the nearest half hour.

c) Negative depth readings were recorded, but the probes remained in the water. Data was not removed for the following dates and times:

09/05/2006 15:01

09/06/2006 15:31:00 - 16:31

09/20/2006 15:00:00 - 16:30

09/21/2006 16:30:00 - 17:00

d) The following negative turbidity values were recorded. No reason found. Data were not removed.

09/01/2006	08:30:00	-1
09/01/2006	10:01:00	-1
09/05/2006	05:01:00	-1
09/05/2006	06:01:00	-4
09/05/2006	07:31:00	-4
09/05/2006	08:01:00	-4
09/05/2006	08:31:00	-4
09/05/2006	09:01:00	-5
09/05/2006	09:31:00	-4
09/05/2006	10:31:00	-3
09/05/2006	11:01:00	-2
09/05/2006	12:01:00	-3
09/05/2006	12:31:00	-4
09/05/2006	13:01:00	-3

09/05/2006	13:31:00	-1
09/06/2006	23:30:00	-1
09/07/2006	00:01:00	-6
09/09/2006	00:00:00	-2
09/09/2006	00:30:00	-3
09/09/2006	01:00:00	-2
09/09/2006	02:00:00	-1
09/09/2006	02:30:00	-1
09/09/2006	03:00:00	-1
09/09/2006	03:30:00	-1
09/09/2006	04:00:00	-1
09/09/2006	04:30:00	-1
09/09/2006	05:00:00	-1
09/09/2006	05:30:00	-2
09/09/2006	06:00:00	-2
09/09/2006	06:30:00	-2
09/09/2006	07:00:00	-1
09/09/2006	07:30:00	-1
09/09/2006	08:00:00	-1
09/09/2006	08:30:00	-2
09/09/2006	09:00:00	-2
09/09/2006	09:30:00	-1
09/09/2006	10:00:00	-2
09/09/2006	10:30:00	-2
09/09/2006	11:00:00	-2
09/09/2006	11:30:00	-1
09/09/2006	12:00:00	-2
09/09/2006	12:30:00	-1
09/09/2006	13:00:00	-1
09/09/2006	13:30:00	-2
09/09/2006	14:00:00	-1
09/09/2006	14:30:00	-1
09/09/2006	15:00:00	-1
09/13/2006	12:00:00	-1
09/13/2006	12:30:00	-1
09/17/2006	06:30:00	-1
09/17/2006	07:00:00	-1
09/17/2006	07:30:00	-1
09/17/2006	08:00:00	-1
09/17/2006	08:30:00	-1
09/17/2006	09:00:00	-1
09/17/2006	09:30:00	-1
09/18/2006	02:30:00	-1
09/18/2006	03:00:00	-1
09/18/2006	03:30:00	-1
09/18/2006	04:00:00	-1

09/18/2006	04:30:00	-1
09/18/2006	05:00:00	-2
09/18/2006	05:30:00	-1
09/18/2006	08:30:00	-1
09/18/2006	09:30:00	-1

TL October 2006

No anomalies

TL November 2006

a) 11/03/2006, 15:00:00 – 11/30/2006, 23:30:00; SpConductivity and dependent Salinity, DO mg/L and Depth parameters are suspect. Specific conductivity and salinity readings for this deployment appear elevated, and post cal was quite high at 55.8 (50). Readings dropped back to normal with the beginning of the next deployment.

TL December 2006

a) 12/01/2006, 00:00:00 - 12/02/2006 16:30; SpConductivity and dependent Salinity, DO mg/L and Depth parameters are suspect. Specific conductivity and salinity readings for this deployment appear elevated, and post cal was quite high at 55.8 (50). Readings dropped back to normal with the beginning of the next deployment.

b) 12/20/2006, 17:00:00 - 12/31/2006, 23:30:00; The pH values declined throughout deployment. Post-calibration showed no indication of probe problems so data were retained.

c) Highly positive turbidity values (>1000 NTU) were recorded on the following dates and times which were not consistent with the overall data set. Data were not removed.

Date	Time	Turbidity
12/13/2006	08:31:00	1902.5
12/15/2006	08:01:00	2402.4
12/22/2006	23:30:00	2300.7
12/23/2006	07:00:00	1337.7
12/23/2006	07:30:00	1389.2
12/23/2006	08:00:00	1244.6

d) The following negative turbidity values were recorded. No reason found. Data were not removed.

12/26/2006	19:30:00	-1
12/26/2006	20:00:00	-1
12/26/2006	20:30:00	-1
12/26/2006	21:00:00	-1
12/26/2006	21:30:00	-1
12/26/2006	22:00:00	-1
12/26/2006	22:30:00	-1
12/26/2006	23:00:00	-1
12/26/2006	23:30:00	-1
12/27/2006	00:00:00	-1
12/27/2006	00:30:00	-1

12/27/2006	01:00:00	-1
12/27/2006	01:30:00	-1
12/27/2006	02:00:00	-1
12/27/2006	02:30:00	-1
12/27/2006	03:00:00	-1
12/27/2006	03:30:00	-1
12/27/2006	04:00:00	-1
12/27/2006	04:30:00	-1
12/27/2006	05:00:00	-1
12/27/2006	05:30:00	-1
12/27/2006	06:00:00	-1
12/27/2006	06:30:00	-1
12/27/2006	07:00:00	-1
12/27/2006	07:30:00	-1
12/27/2006	08:00:00	-1
12/27/2006	08:30:00	-1
12/27/2006	09:00:00	-1
12/27/2006	09:30:00	-1
12/27/2006	10:00:00	-1
12/27/2006	10:30:00	-1
12/27/2006	11:00:00	-1
12/27/2006	11:30:00	-1
12/27/2006	12:00:00	-1
12/27/2006	12:30:00	-1
12/27/2006	13:00:00	-1
12/27/2006	13:30:00	-1
12/27/2006	14:00:00	-1
12/27/2006	14:30:00	-1
12/27/2006	15:00:00	-1
12/27/2006	15:30:00	-1
12/27/2006	16:00:00	-1
12/27/2006	16:30:00	-1
12/27/2006	17:00:00	-1
12/27/2006	17:30:00	-1
12/27/2006	18:00:00	-1
12/27/2006	18:30:00	-1
12/27/2006	19:00:00	-1
12/27/2006	19:30:00	-1
12/27/2006	20:00:00	-1
12/27/2006	20:30:00	-1
12/27/2006	21:00:00	-1
12/27/2006	21:30:00	-1
12/27/2006	22:00:00	-1
12/27/2006	22:30:00	-1
12/27/2006	23:00:00	-1
12/27/2006	23:30:00	-1

12/28/2006	00:00:00	-1
12/28/2006	00:30:00	-1
12/28/2006	01:00:00	-1
12/28/2006	01:30:00	-1
12/28/2006	02:00:00	-1
12/28/2006	02:30:00	-1
12/28/2006	03:00:00	-1
12/28/2006	03:30:00	-1
12/28/2006	04:00:00	-1
12/28/2006	04:30:00	-1
12/28/2006	05:00:00	-1
12/28/2006	05:30:00	-1
12/28/2006	06:00:00	-1
12/28/2006	06:30:00	-1
12/28/2006	07:00:00	-1
12/28/2006	07:30:00	-1
12/28/2006	08:00:00	-1
12/28/2006	08:30:00	-1
12/28/2006	09:00:00	-1
12/28/2006	09:30:00	-1
12/28/2006	10:00:00	-1
12/28/2006	10:30:00	-1
12/28/2006	11:00:00	-1
12/28/2006	11:30:00	-1
12/28/2006	12:00:00	-1
12/28/2006	12:30:00	-1
12/28/2006	13:00:00	-1
12/28/2006	13:30:00	-1
12/28/2006	14:00:00	-1
12/28/2006	14:30:00	-1
12/28/2006	15:00:00	-1
12/28/2006	15:30:00	-1
12/28/2006	16:00:00	-1
12/28/2006	16:30:00	-1
12/28/2006	17:00:00	-1
12/28/2006	17:30:00	-1
12/28/2006	18:00:00	-1
12/28/2006	18:30:00	-1
12/28/2006	19:00:00	-1
12/28/2006	19:30:00	-1
12/28/2006	20:00:00	-1
12/28/2006	20:30:00	-1
12/28/2006	21:00:00	-1
12/28/2006	21:30:00	-1
12/28/2006	22:00:00	-1
12/28/2006	22:30:00	-1

12/28/2006	23:00:00	-1
12/28/2006	23:30:00	-1
12/29/2006	01:30:00	-1
12/29/2006	02:00:00	-1
12/29/2006	02:30:00	-1
12/29/2006	03:00:00	-1
12/29/2006	03:30:00	-1
12/29/2006	04:00:00	-1
12/29/2006	04:30:00	-1
12/29/2006	05:00:00	-1
12/29/2006	05:30:00	-1
12/29/2006	06:00:00	-1
12/29/2006	06:30:00	-1
12/29/2006	07:00:00	-1
12/29/2006	07:30:00	-1
12/29/2006	08:00:00	-1
12/29/2006	08:30:00	-1
12/29/2006	09:00:00	-1
12/29/2006	09:30:00	-1
12/29/2006	10:00:00	-1
12/29/2006	10:30:00	-1
12/29/2006	11:00:00	-1
12/29/2006	11:30:00	-1
12/29/2006	12:00:00	-1
12/29/2006	12:30:00	-1
12/29/2006	13:00:00	-1
12/29/2006	13:30:00	-1
12/29/2006	14:00:00	-1
12/29/2006	14:30:00	-1
12/29/2006	15:00:00	-1
12/29/2006	15:30:00	-1
12/29/2006	16:00:00	-1
12/29/2006	16:30:00	-1
12/29/2006	17:00:00	-1
12/29/2006	17:30:00	-1
12/29/2006	18:00:00	-1
12/29/2006	18:30:00	-1
12/29/2006	19:00:00	-1
12/29/2006	19:30:00	-1
12/29/2006	20:00:00	-1
12/29/2006	20:30:00	-1
12/29/2006	21:00:00	-1
12/29/2006	21:30:00	-1
12/29/2006	22:00:00	-1
12/29/2006	22:30:00	-1
12/29/2006	23:00:00	-1

12/29/2006	23:30:00	-1
12/30/2006	00:00:00	-1
12/30/2006	00:30:00	-1
12/30/2006	01:00:00	-1
12/30/2006	01:30:00	-1
12/30/2006	02:00:00	-1
12/30/2006	02:30:00	-1
12/30/2006	03:00:00	-1
12/30/2006	03:30:00	-1
12/30/2006	04:00:00	-1
12/30/2006	04:30:00	-1
12/30/2006	05:00:00	-1
12/30/2006	05:30:00	-1
12/30/2006	06:00:00	-1
12/30/2006	06:30:00	-1
12/30/2006	07:00:00	-1
12/30/2006	07:30:00	-1
12/30/2006	08:00:00	-1
12/30/2006	08:30:00	-1
12/30/2006	09:00:00	-1
12/30/2006	09:30:00	-1
12/30/2006	10:00:00	-1
12/30/2006	10:30:00	-1
12/30/2006	11:00:00	-1
12/30/2006	11:30:00	-1
12/30/2006	12:00:00	-1
12/30/2006	12:30:00	-1
12/30/2006	13:00:00	-1
12/30/2006	13:30:00	-1
12/30/2006	14:00:00	-1
12/30/2006	14:30:00	-2
12/30/2006	15:00:00	-1
12/30/2006	15:30:00	-2
12/30/2006	16:00:00	-2
12/30/2006	16:30:00	-2
12/30/2006	17:00:00	-2
12/30/2006	17:30:00	-1
12/30/2006	18:00:00	-1
12/30/2006	18:30:00	-1
12/30/2006	19:00:00	-1
12/30/2006	19:30:00	-1
12/30/2006	20:00:00	-1
12/30/2006	20:30:00	-1
12/30/2006	21:00:00	-1
12/30/2006	21:30:00	-1
12/30/2006	22:00:00	-1

12/30/2006	22:30:00	-1
12/30/2006	23:00:00	-1
12/30/2006	23:30:00	-1
12/31/2006	00:00:00	-1
12/31/2006	00:30:00	-1
12/31/2006	01:00:00	-1
12/31/2006	01:30:00	-1
12/31/2006	02:00:00	-1
12/31/2006	02:30:00	-1
12/31/2006	03:00:00	-1
12/31/2006	03:30:00	-1
12/31/2006	04:00:00	-1
12/31/2006	04:30:00	-1
12/31/2006	05:00:00	-1
12/31/2006	05:30:00	-1
12/31/2006	06:00:00	-1

Model Marsh:

MM January 2006

a) 01/17/2006 - 01/23/2006 Higher than average salinity was observed. Data were not removed.

MM February 2006

a) Lower than average specific conductivity and salinity values were recorded towards the end of the month, which is likely related to rain and discharges from the Tijuana River. Please refer to section 15 for rainfall and discharge details.

b) The following negative turbidity values were recorded. No reason found. Data were not removed.

Date	Time	Turbidity+
02/06/2006	15:00:00	-15
02/06/2006	15:30:00	-6
02/06/2006	16:00:00	-4
02/06/2006	16:30:00	-5
02/06/2006	17:00:00	-13
02/06/2006	17:30:00	-4
02/06/2006	18:00:00	-4
02/06/2006	18:30:00	-7
02/06/2006	19:00:00	-5
02/06/2006	19:30:00	-4
02/06/2006	20:00:00	-4
02/06/2006	20:30:00	-6
02/06/2006	21:00:00	-4
02/06/2006	21:30:00	-4
02/06/2006	22:00:00	-4
02/06/2006	22:30:00	-6
02/06/2006	23:00:00	-4

02/06/2006	23:30:00	-4
02/07/2006	00:00:00	-12
02/07/2006	00:30:00	-11
02/10/2006	19:00:00	-5
02/10/2006	19:30:00	-8
02/10/2006	20:00:00	-4
02/24/2006	20:00:00	-4
02/24/2006	20:30:00	-11

MM March 2006

a) Lower than average specific conductivity and salinity values were recorded throughout the month, which is likely related to rain and discharges from the Tijuana River. Please refer to section 15 for rainfall and discharge details.

b) Highly positive turbidity values (>1000 NTU) were recorded on the following dates and times which were not consistent with the overall data set. Data were not removed.

Date	Time	Turbidity
3/5/2006	20:00:00	1285

c) The following negative turbidity values were recorded. No reason found. Data were not removed.

Date	Time	Turbidity+
03/01/2006	19:30:00	-4
03/01/2006	20:00:00	-7
03/05/2006	19:30:00	-4
03/07/2006	15:30:00	-15
03/07/2006	16:00:00	-4
03/07/2006	16:30:00	-4
03/07/2006	17:00:00	-9
03/07/2006	17:30:00	-4
03/07/2006	18:00:00	-4
03/07/2006	18:30:00	-9
03/07/2006	19:00:00	-4
03/07/2006	19:30:00	-4
03/07/2006	20:00:00	-9
03/07/2006	20:30:00	-4
03/07/2006	21:00:00	-4
03/07/2006	21:30:00	-9
03/07/2006	22:00:00	-4
03/07/2006	22:30:00	-4
03/07/2006	23:00:00	-9
03/07/2006	23:30:00	-4
03/08/2006	00:00:00	-4
03/08/2006	00:30:00	-9
03/08/2006	01:00:00	-4
03/08/2006	01:30:00	-4
03/08/2006	02:00:00	-9
03/08/2006	02:30:00	-4

03/23/2006	15:00:00	-13
03/23/2006	15:30:00	-4
03/23/2006	16:00:00	-4
03/23/2006	16:30:00	-7
03/23/2006	17:00:00	-4
03/23/2006	17:30:00	-4
03/23/2006	18:00:00	-12
03/23/2006	18:30:00	-4
03/23/2006	19:00:00	-14
03/23/2006	19:30:00	-5
03/23/2006	20:00:00	-4
03/23/2006	20:30:00	-7
03/23/2006	21:00:00	-4
03/23/2006	21:30:00	-4
03/23/2006	22:00:00	-7
03/23/2006	22:30:00	-4
03/23/2006	23:00:00	-4
03/23/2006	23:30:00	-7
03/24/2006	00:00:00	-4
03/24/2006	00:30:00	-4
03/24/2006	01:00:00	-7
03/24/2006	01:30:00	-4
03/24/2006	02:00:00	-5
03/24/2006	02:30:00	-11
03/24/2006	03:00:00	-4
03/24/2006	03:30:00	-6
03/24/2006	04:00:00	-4
03/24/2006	04:30:00	-4
03/24/2006	05:00:00	-5
03/24/2006	05:30:00	-4
03/24/2006	06:00:00	-4
03/24/2006	12:30:00	-4
03/24/2006	14:30:00	-8
03/24/2006	18:30:00	-7
03/24/2006	19:00:00	-4
03/24/2006	19:30:00	-4
03/24/2006	20:00:00	-7
03/24/2006	20:30:00	-4
03/24/2006	21:00:00	-6
03/24/2006	21:30:00	-4
03/24/2006	22:00:00	-4
03/24/2006	22:30:00	-8
03/24/2006	23:00:00	-4
03/24/2006	23:30:00	-4
03/25/2006	00:00:00	-17
03/25/2006	00:30:00	-5

03/25/2006	01:00:00	-4
03/25/2006	01:30:00	-7
03/25/2006	02:00:00	-8
03/25/2006	02:30:00	-4
03/25/2006	03:00:00	-4
03/25/2006	04:00:00	-6
03/25/2006	16:00:00	-15
03/25/2006	16:30:00	-4
03/25/2006	17:00:00	-4
03/25/2006	17:30:00	-5
03/25/2006	18:00:00	-4
03/25/2006	18:30:00	-15
03/26/2006	15:00:00	-9
03/26/2006	15:30:00	-4
03/26/2006	16:00:00	-4
03/26/2006	16:30:00	-6
03/26/2006	17:00:00	-4
03/26/2006	17:30:00	-4
03/26/2006	18:00:00	-7
03/26/2006	18:30:00	-4
03/26/2006	20:00:00	-4
03/26/2006	22:30:00	-4
03/26/2006	23:00:00	-6
03/26/2006	23:30:00	-4
03/27/2006	00:00:00	-4
03/27/2006	00:30:00	-6
03/27/2006	01:00:00	-4
03/27/2006	01:30:00	-4
03/27/2006	02:00:00	-4
03/27/2006	02:30:00	-6
03/27/2006	03:00:00	-4
03/27/2006	19:00:00	-5
03/27/2006	19:30:00	-7
03/27/2006	20:00:00	-4
03/27/2006	20:30:00	-4
03/27/2006	23:00:00	-4
03/27/2006	23:30:00	-6
03/28/2006	00:00:00	-4
03/28/2006	00:30:00	-4
03/28/2006	01:00:00	-6
03/28/2006	01:30:00	-5
03/28/2006	02:00:00	-4
03/28/2006	02:30:00	-4
03/28/2006	03:00:00	-6
03/28/2006	03:30:00	-4
03/28/2006	04:00:00	-4

03/28/2006	04:30:00	-8
03/28/2006	05:00:00	-9
03/28/2006	05:30:00	-4
03/28/2006	06:00:00	-4
03/28/2006	06:30:00	-6

MM April 2006

a) Numerous negative turbidity values were recorded during the 04/01/06 13:30 – 04/21/06 12:30 deployment, likely due to a small calibration error. These negative values ranged from -15 to -1, but were generally small. All turbidity data for this deployment should be considered suspect. Data were not removed.

b) 04/05/2006-04/07/2006 Lower than average specific conductivity and salinity, and higher than average turbidity values were recorded throughout this time period, which is likely related to rain and discharges from the Tijuana River. Please refer to section 15 for rainfall and discharge details.

c) Highly positive turbidity values (>1000 NTU) were recorded on the following dates and times which were not consistent with the overall data set. Data were not removed.

Date	Time	Turbidity
4/10/2006	14:30:00	1303
4/28/2006	00:30:00	1289.9
4/29/2006	01:00:00	1310.8
4/30/2006	00:00:00	1314.3

d) Negative depth readings were recorded, but the probes remained in the water. Data was not removed for the following dates and times:

04/22/2006 13:00:00 - 15:30:00
 04/23/2006 14:30:00 - 15:30:00
 04/24/2006 14:30:00 - 16:00:00
 04/26/2006 15:00:00 - 16:30:00
 04/28/2006 15:00:00 - 17:00:00
 04/29/2006 15:00:00 - 17:00:00
 04/30/2006 15:30:00 - 17:30:00

MM May 2006

a) 05/22/2006 – 05/26/2006; Lower than average specific conductivity and salinity were recorded throughout this time period, which is likely related to rainfall and discharges from the Tijuana River. Please refer to section 15 for rainfall and discharge details.

b) Highly positive turbidity values (>1000 NTU) were recorded on the following dates and times which were not consistent with the overall data set. Data were not removed.

Date	Time	Turbidity
5/1/2006	01:00:00	1316.8
5/2/2006	02:00:00	1334.7
5/6/2006	01:00:00	1344.3
5/9/2006	03:00:00	1332.2
5/14/2006	14:00:00	1365.8
5/15/2006	03:30:00	1324.6

c) Negative depth readings were recorded, but the probes remained in the water. Data was not removed for the following dates and times:

05/06/2006 13:30:00 - 15:00:00

05/07/2006 13:00:00 - 15:30:00

05/20/2006 12:00:00 - 14:00:00

05/21/2006 11:00:00 - 14:00:00

05/24/2006 13:30:00 - 15:00:00

d) Numerous negative turbidity values were recorded during the 05/26/06 15:00 – 06/23/06 14:00 deployment, likely due to a small calibration error. These negative values ranged from -23 to -1, but were generally small. All turbidity data for this deployment should be considered suspect. Data were not removed.

MM June 2006

a) Negative depth readings were recorded, but the probes remained in the water. Data was not removed for the following dates and times:

06/25/2006 15:00:00

06/26/2006 14:30:00 - 16:30:00

06/27/2006 16:00:00

06/28/2006 15:30:00 - 18:00:00

06/29/2006 16:00:00 - 18:30:00

06/30/2006 17:00:00 - 19:00:00

b) Numerous negative turbidity values were recorded during the 05/26/06 15:00 – 06/23/06 14:00 deployment, likely due to a small calibration error. These negative values ranged from -23 to -1, but were generally small. All turbidity data for this deployment should be considered suspect. Data were not removed.

MM July 2006

a) Highly positive turbidity values (>1000 NTU) were recorded on the following dates and times which were not consistent with the overall data set. Data were not removed.

Date	Time	Turbidity
7/8/2006	18:30:00	1674.8
7/14/2006	00:30:00	1642.8
7/14/2006	01:00:00	1645.2

b) Negative depth readings were recorded, but the probes remained in the water. Data was not removed for the following dates and times:

07/01/2006 08:30:00 - 10:30:00

07/01/2006 19:00:00

07/02/2006 09:00:00 - 10:30:00

07/03/2006 09:30:00 - 11:00:00

07/03/2006 21:00:00 - 23:00:00

07/04/2006 10:00:00 - 11:00:00

07/04/2006 22:00:00 - 23:30:00

07/10/2006 14:30:00

07/11/2006 14:00:00 - 16:30:00

07/12/2006 14:00:00 - 17:30:00

07/13/2006 15:00:00 - 18:30:00

07/14/2006 16:30:00 - 19:00:00

07/15/2006 17:30:00 - 20:00:00

07/16/2006 19:30:00 - 21:00:00

07/17/2006 22:00:00

07/18/2006 23:00:00

c) The following negative turbidity values were recorded. No reason found. Data were not removed.

Date	Time	Turbidity+
07/19/2006	11:30:00	-8
07/19/2006	12:00:00	-12
07/19/2006	12:30:00	-7
07/19/2006	13:00:00	-7
07/19/2006	13:30:00	-7
07/29/2006	16:00:00	-11

MM August 2006

a) Highly positive turbidity values (>1000 NTU) were recorded on the following dates and times which were not consistent with the overall data set. Data were not removed.

Date	Time	Turbidity
8/16/2006	19:00:00	2108
8/20/2006	09:30:00	2375.3

b) The following negative turbidity values were recorded. No reason found. Data were not removed.

Date	Time	Turbidity+
08/05/2006	17:00:00	-11
08/06/2006	13:30:00	-10
08/06/2006	14:00:00	-7

c) Numerous negative turbidity values were recorded during the 08/10/06 16:30 – 09/07/06 14:00 deployment, likely due to a small calibration error. These negative values ranged from -12 to -1, but were generally small. All turbidity data for this deployment should be considered suspect. Data were not removed.

MM September 2006

a) Numerous negative turbidity values were recorded during the 08/10/06 16:30 – 09/07/06 14:00 deployment, likely due to a small calibration error. These negative values ranged from -12 to -1, but were generally small. All turbidity data for this deployment should be considered suspect. Data were not removed.

b) Numerous negative turbidity values were recorded during the 09/08/06 16:30 – 09/24/06 14:30 deployment, likely due to a small calibration error. These negative values ranged from -10 to -1, but were generally small. All turbidity data for this deployment should be considered suspect. Data were not removed.

MM October 2006

a) The following negative turbidity values were recorded. No reason found. Data were not removed.

Date	Time	Turbidity+
10/05/2006	21:00:00	-1

MM November 2006

a) 11/15/2006 - 11/19/2009; higher than average turbidity values were recorded. Reason was not found but probe was determined to be operating properly.

MM December 2006

a) Higher than average turbidity values were recorded. Reason was not known and data were retained.

b) The following negative turbidity values were recorded. No reason found. Data were not removed.

Date	Time	Turbidity+
12/04/2006	08:30:00	-1
12/04/2006	09:00:00	-1
12/04/2006	09:30:00	-1
12/05/2006	09:00:00	-1
12/05/2006	09:30:00	-2
12/05/2006	10:00:00	-1
12/06/2006	09:30:00	-1
12/06/2006	10:00:00	-1
12/06/2006	10:30:00	-1
12/06/2006	11:00:00	-1
12/07/2006	10:00:00	-1
12/07/2006	10:30:00	-2
12/07/2006	11:00:00	-2
12/07/2006	11:30:00	-1
12/08/2006	10:30:00	-1
12/08/2006	11:00:00	-1
12/08/2006	11:30:00	-2
12/08/2006	12:00:00	-1
12/08/2006	12:30:00	-1
12/09/2006	09:00:00	-1
12/09/2006	12:00:00	-1
12/09/2006	12:30:00	-1
12/10/2006	11:30:00	-1
12/10/2006	12:00:00	-1
12/10/2006	12:30:00	-1
12/10/2006	13:00:00	-1
12/10/2006	13:30:00	-1
12/10/2006	14:00:00	-1
12/11/2006	21:00:00	-1
12/11/2006	22:00:00	-1
12/11/2006	22:30:00	-1
12/12/2006	20:00:00	-1
12/12/2006	20:30:00	-1
12/12/2006	21:00:00	-1
12/12/2006	21:30:00	-1

12/12/2006	22:00:00	-1
12/12/2006	22:30:00	-2
12/12/2006	23:00:00	-2
12/12/2006	23:30:00	-1
12/13/2006	10:00:00	-1
12/13/2006	10:30:00	-2
12/13/2006	11:00:00	-2
12/13/2006	11:30:00	-2
12/13/2006	12:00:00	-1
12/13/2006	12:30:00	-2
12/13/2006	13:00:00	-2
12/13/2006	13:30:00	-2
12/13/2006	14:00:00	-2
12/13/2006	14:30:00	-1
12/13/2006	15:30:00	-1
12/13/2006	16:00:00	-1
12/13/2006	18:00:00	-1
12/13/2006	18:30:00	-1
12/13/2006	19:00:00	-1
12/13/2006	19:30:00	-1
12/13/2006	20:00:00	-1
12/13/2006	20:30:00	-1
12/13/2006	21:00:00	-1
12/13/2006	21:30:00	-1
12/13/2006	22:00:00	-1
12/13/2006	22:30:00	-2
12/13/2006	23:00:00	-1
12/13/2006	23:30:00	-1
12/14/2006	00:00:00	-2
12/14/2006	00:30:00	-2
12/14/2006	01:00:00	-2
12/14/2006	10:00:00	-1
12/14/2006	10:30:00	-1
12/14/2006	11:30:00	-2
12/14/2006	12:00:00	-1
12/14/2006	12:30:00	-1
12/14/2006	13:00:00	-1
12/14/2006	13:30:00	-2
12/14/2006	14:00:00	-2
12/14/2006	14:30:00	-2
12/14/2006	15:00:00	-2
12/14/2006	15:30:00	-2
12/14/2006	16:00:00	-2
12/14/2006	16:30:00	-1
12/14/2006	17:00:00	-1
12/14/2006	22:30:00	-1

12/14/2006	23:00:00	-1
12/15/2006	07:30:00	-1
12/15/2006	12:00:00	-1
12/15/2006	12:30:00	-2
12/15/2006	13:00:00	-2
12/15/2006	13:30:00	-2
12/15/2006	14:00:00	-2
12/15/2006	14:30:00	-1
12/15/2006	15:00:00	-2
12/15/2006	15:30:00	-1
12/15/2006	16:00:00	-2
12/15/2006	16:30:00	-2
12/15/2006	17:00:00	-2
12/15/2006	17:30:00	-2
12/15/2006	18:00:00	-2
12/15/2006	18:30:00	-1
12/15/2006	19:00:00	-1
12/15/2006	19:30:00	-1
12/15/2006	20:00:00	-1
12/15/2006	20:30:00	-1
12/15/2006	21:00:00	-2
12/15/2006	21:30:00	-2
12/15/2006	22:00:00	-2
12/15/2006	22:30:00	-2
12/15/2006	23:00:00	-2
12/15/2006	23:30:00	-2
12/16/2006	00:00:00	-1
12/16/2006	00:30:00	-2
12/16/2006	01:00:00	-2
12/16/2006	02:00:00	-2
12/16/2006	02:30:00	-1
12/16/2006	03:00:00	-1
12/16/2006	07:30:00	-1
12/16/2006	12:00:00	-1
12/16/2006	12:30:00	-2
12/16/2006	13:00:00	-1
12/16/2006	13:30:00	-1
12/16/2006	14:00:00	-1
12/16/2006	14:30:00	-1
12/16/2006	15:00:00	-1
12/16/2006	15:30:00	-1
12/16/2006	16:00:00	-1
12/16/2006	16:30:00	-2
12/16/2006	17:00:00	-1
12/16/2006	17:30:00	-1
12/16/2006	18:00:00	-2

12/16/2006	18:30:00	-1
12/16/2006	19:30:00	-1
12/16/2006	20:00:00	-1
12/16/2006	20:30:00	-2
12/16/2006	21:00:00	-1
12/16/2006	21:30:00	-1
12/16/2006	22:00:00	-1
12/16/2006	22:30:00	-1
12/16/2006	23:00:00	-2
12/16/2006	23:30:00	-1
12/17/2006	00:00:00	-1
12/17/2006	00:30:00	-1
12/17/2006	01:00:00	-1
12/17/2006	01:30:00	-1
12/17/2006	02:00:00	-1
12/17/2006	02:30:00	-1
12/17/2006	03:00:00	-1
12/17/2006	14:30:00	-1
12/17/2006	15:00:00	-1
12/17/2006	15:30:00	-1
12/17/2006	16:00:00	-1
12/17/2006	17:00:00	-1
12/17/2006	17:30:00	-1
12/17/2006	18:00:00	-1
12/17/2006	18:30:00	-1
12/17/2006	19:30:00	-1
12/17/2006	20:00:00	-1
12/17/2006	21:00:00	-1
12/17/2006	22:30:00	-1
12/17/2006	23:00:00	-1
12/17/2006	23:30:00	-1
12/18/2006	00:00:00	-1
12/18/2006	00:30:00	-1
12/18/2006	01:00:00	-1
12/18/2006	01:30:00	-1
12/18/2006	02:00:00	-1
12/18/2006	02:30:00	-1

Boca Rio:

BR January 2006

a) Lower than average dissolved oxygen (percent saturation) and dissolved oxygen (mg/l) values were observed during the month, possibly due to discharge from the Tijuana River. Please refer to section 15 for discharge details. Data were not removed.

BR February 2006

a) Lower than average specific conductivity and salinity and higher than average turbidity values were recorded throughout the month, which is likely related to rain and discharges from the Tijuana River. Please refer to section 15 for rainfall and discharge details.

BR March 2006

a) Lower than average specific conductivity and salinity and higher than average turbidity values were recorded throughout the month, which is likely related to rain and discharges from the Tijuana River. Please refer to section 15 for rainfall and discharge details.

BR April 2006

a) Higher than average turbidity values were recorded throughout the month, which is likely related to rain and discharges from the Tijuana River. Please refer to section 15 for rainfall and discharge details.

b) Highly positive turbidity values (>1000 NTU) were recorded on the following dates and times which were not consistent with the overall data set. Data were not removed.

Date	Time	Turbidity
4/5/2006	16:31:00	1075.3
4/5/2006	17:01:00	1817.6
4/6/2006	17:01:00	1353
4/6/2006	17:31:00	1361.2
4/6/2006	18:01:00	1161.6
4/6/2006	18:31:00	1316.5
4/6/2006	19:01:00	1301.9
4/6/2006	19:31:00	1260.8
4/6/2006	20:01:00	1215.2
4/6/2006	20:31:00	1170.5
4/6/2006	21:01:00	1126.7
4/6/2006	21:31:00	1072.3
4/6/2006	22:01:00	1138
4/6/2006	22:31:00	1118.9
4/6/2006	23:01:00	1099
4/6/2006	23:31:00	1105.2
4/7/2006	00:01:00	1094.4
4/7/2006	00:31:00	1090.3
4/7/2006	01:01:00	1068.4
4/7/2006	01:31:00	1056.1
4/7/2006	02:01:00	1013.6

BR May 2006

a) Lower than average specific conductivity and salinity and higher than average turbidity values were recorded throughout the month, which is likely related to rain and discharges from the Tijuana River. Please refer to section 15 for rainfall and discharge details.

b) Highly positive turbidity values (>1000 NTU) were recorded on the following dates and times which were not consistent with the overall data set. This was possibly due to seaweed wrack on the holder. Data were not removed.

Date	Time	Turbidity
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5/29/2006	09:30:00	1218.2
5/30/2006	00:00:00	1264.5
5/30/2006	06:00:00	1217.5
5/30/2006	10:00:00	2084.7
5/30/2006	11:30:00	1840.6
5/30/2006	16:00:00	1037.7
5/30/2006	20:30:00	1206.4
5/31/2006	09:00:00	1012.6
5/31/2006	11:30:00	1178.6

c) 05/29/2006, 09:30:00 – 05/31/2006 23:30:00; Turbidity readings for this entire deployment should be considered suspect. Seaweed was found wrapped around the wiper upon sonde retrieval.

BR June 2006

a) Lower than average specific conductivity and salinity and higher than average turbidity values were recorded throughout the month, which is likely related to discharges from the Tijuana River. Please refer to section 15 for rainfall and discharge details.

b) Highly positive turbidity values (>1000 NTU) were recorded on the following dates and times which were not consistent with the overall data set. Data were not removed.

Date	Time	Turbidity
6/2/2006	04:00:00	1065.3
6/5/2006	22:00:00	1800.5
6/5/2006	23:30:00	1299.5
6/6/2006	13:30:00	1006.8
6/6/2006	16:30:00	1178.7
6/6/2006	17:00:00	1123.7
6/6/2006	17:30:00	1048.5
6/14/2006	10:00:00	2085.6
6/14/2006	11:00:00	2014.3
6/14/2006	12:00:00	1508.7
6/14/2006	12:30:00	1380.6
6/14/2006	13:00:00	1456.6

c) 06/01/2006, 00:00:00 - 06/22/2006, 13:00:00; Turbidity readings for this entire deployment should be considered suspect. Seaweed was found wrapped around the wiper upon sonde retrieval.

BR July 2006

a) Lower than average specific conductivity and salinity and higher than average turbidity values were recorded during the month, which is likely related to discharges from the Tijuana River. Please refer to section 15 for rainfall and discharge details.

BR August 2006

a) Numerous negative turbidity values were recorded during the 8/11/06 16:00 – 09/08/06 16:30 deployment, likely due to a small calibration error. These negative values ranged from -10 to -1, but were generally small. All turbidity data for this deployment should be considered suspect. Data were not removed.

BR September 2006

a) Numerous negative turbidity values were recorded during the 8/11/06 16:00 – 09/08/06 16:30 deployment, likely due to a small calibration error. These negative values ranged from -10 to -1, but were generally small. All turbidity data for this deployment should be considered suspect. Data were not removed.

b) A particularly low negative turbidity reading was recorded for the following date/time:
09/07/2006 17:00:00 -19

c) 09/08/2006, 17:00:00 – 09/22/2006, 14:30:00; Dissolved oxygen data are suspect for this entire deployment. There was a hole in the DO membrane upon retrieval of the sonde and the post cal value was low at 87 (100).

d) 09/12/2006, 16:00 – 09/22/2006, 14:30:00; Turbidity readings beginning approximately at 16:00 on 9/12 through the end of the deployment on 9/22 should be considered suspect. The wiper fell off at some point during the deployment and there was sediment and moderate fouling upon retrieval.

e) Small negative turbidity values were recorded for the following dates/times, possibly due to a small calibration error. Data were not removed.

Date	Time	Turbidity+
09/08/2006	17:00:00	-2
09/08/2006	17:30:00	-5
09/08/2006	18:00:00	-6
09/08/2006	18:30:00	-6
09/08/2006	19:00:00	-6
09/08/2006	19:30:00	-6
09/08/2006	20:00:00	-5
09/08/2006	20:30:00	-4
09/08/2006	21:00:00	-3
09/08/2006	21:30:00	-6
09/08/2006	22:00:00	-7
09/08/2006	22:30:00	-7
09/08/2006	23:00:00	-7
09/08/2006	23:30:00	-3
09/09/2006	02:30:00	-3
09/09/2006	03:00:00	-6
09/09/2006	03:30:00	-7
09/09/2006	04:00:00	-8
09/09/2006	04:30:00	-8
09/09/2006	05:00:00	-7
09/09/2006	06:00:00	-6
09/09/2006	06:30:00	-5
09/09/2006	07:00:00	-6
09/09/2006	07:30:00	-5
09/09/2006	08:00:00	-4
09/09/2006	08:30:00	-4
09/09/2006	09:00:00	-4
09/09/2006	09:30:00	-3

09/09/2006	10:00:00	-6
09/09/2006	10:30:00	-5
09/09/2006	11:00:00	-8
09/09/2006	11:30:00	-7
09/09/2006	12:00:00	-2
09/09/2006	16:00:00	-4
09/09/2006	16:30:00	-5
09/09/2006	17:00:00	-7
09/09/2006	17:30:00	-4
09/09/2006	18:30:00	-6
09/09/2006	19:00:00	-7
09/09/2006	19:30:00	-6
09/09/2006	20:00:00	-7
09/09/2006	20:30:00	-7
09/09/2006	21:00:00	-7
09/09/2006	21:30:00	-6
09/09/2006	22:00:00	-7
09/09/2006	22:30:00	-7
09/09/2006	23:00:00	-8
09/09/2006	23:30:00	-8
09/10/2006	00:00:00	-7
09/10/2006	00:30:00	-4
09/10/2006	01:00:00	-1
09/10/2006	01:30:00	-3
09/10/2006	02:00:00	-4
09/10/2006	02:30:00	-5
09/10/2006	03:00:00	-6
09/10/2006	03:30:00	-6
09/10/2006	04:00:00	-6
09/10/2006	04:30:00	-7
09/10/2006	05:00:00	-7
09/10/2006	05:30:00	-7
09/10/2006	06:30:00	-5
09/10/2006	07:00:00	-6
09/10/2006	07:30:00	-5
09/10/2006	08:00:00	-5
09/10/2006	08:30:00	-3
09/10/2006	09:00:00	-3
09/10/2006	09:30:00	-3
09/10/2006	10:00:00	-3
09/10/2006	10:30:00	-4
09/10/2006	11:00:00	-3
09/10/2006	11:30:00	-5
09/10/2006	12:00:00	-6
09/10/2006	12:30:00	-3
09/10/2006	16:30:00	-1

09/10/2006	17:00:00	-5
09/10/2006	17:30:00	-5
09/10/2006	18:00:00	-7
09/10/2006	18:30:00	-6
09/10/2006	19:00:00	-5
09/10/2006	19:30:00	-3
09/10/2006	20:00:00	-5
09/10/2006	20:30:00	-5
09/10/2006	21:00:00	-6
09/10/2006	21:30:00	-6
09/10/2006	22:00:00	-6
09/10/2006	22:30:00	-6
09/10/2006	23:00:00	-7
09/10/2006	23:30:00	-7
09/11/2006	00:00:00	-7
09/11/2006	00:30:00	-7
09/11/2006	01:00:00	-7
09/11/2006	01:30:00	-6
09/11/2006	02:00:00	-6
09/11/2006	02:30:00	-6
09/11/2006	03:00:00	-6
09/11/2006	03:30:00	-5
09/11/2006	04:00:00	-6
09/11/2006	04:30:00	-5
09/11/2006	05:00:00	-6
09/11/2006	05:30:00	-6
09/11/2006	06:00:00	-4
09/11/2006	06:30:00	-5
09/11/2006	07:00:00	-4
09/11/2006	07:30:00	-4
09/11/2006	08:00:00	-5
09/11/2006	08:30:00	-5
09/11/2006	09:00:00	-4
09/11/2006	09:30:00	-4
09/11/2006	10:00:00	-3
09/11/2006	10:30:00	-3
09/11/2006	11:00:00	-5
09/11/2006	11:30:00	-5
09/11/2006	12:00:00	-5
09/11/2006	12:30:00	-5
09/11/2006	13:00:00	-5
09/16/2006	19:00:00	-1

BR October 2006

a) Lower than average specific conductivity and salinity and higher than average turbidity values were recorded throughout the month, which is likely related to rainfall. Please refer to section 15 for rainfall details.

BR November 2006

a) 11/01/2006 – 11/30/2006 Lower than average salinity and specific conductivity values were recorded during low tides. Data were not removed.

b) The following negative turbidity values were recorded. No reason found. Data were not removed.

Date	Time	Turbidity+
------	------	------------

11/05/2006	23:00:00	-1
11/07/2006	00:00:00	-1
11/07/2006	00:30:00	-1
11/07/2006	01:00:00	-1
11/07/2006	01:30:00	-1
11/07/2006	02:00:00	-1
11/07/2006	02:30:00	-1
11/07/2006	03:30:00	-1
11/07/2006	23:00:00	-1
11/08/2006	00:00:00	-1
11/08/2006	00:30:00	-1
11/08/2006	01:00:00	-1
11/08/2006	01:30:00	-1
11/08/2006	02:00:00	-1
11/08/2006	02:30:00	-1
11/08/2006	03:00:00	-1
11/08/2006	03:30:00	-1
11/08/2006	04:00:00	-1
11/08/2006	04:30:00	-1
11/08/2006	05:00:00	-1
11/08/2006	11:00:00	-1
11/09/2006	00:30:00	-1
11/09/2006	01:00:00	-1
11/09/2006	01:30:00	-1
11/09/2006	02:00:00	-1
11/09/2006	02:30:00	-1
11/09/2006	03:00:00	-1
11/09/2006	03:30:00	-1
11/09/2006	04:00:00	-1
11/09/2006	05:00:00	-1
11/09/2006	05:30:00	-1
11/09/2006	06:00:00	-1
11/10/2006	01:30:00	-1
11/10/2006	02:30:00	-1
11/10/2006	03:00:00	-1
11/10/2006	03:30:00	-1

11/10/2006	04:00:00	-1
11/10/2006	04:30:00	-1
11/10/2006	05:30:00	-1
11/10/2006	06:00:00	-1
11/10/2006	06:30:00	-1
11/10/2006	07:30:00	-1
11/11/2006	04:00:00	-1
11/11/2006	04:30:00	-1
11/11/2006	05:00:00	-1
11/11/2006	05:30:00	-1
11/11/2006	06:30:00	-1
11/11/2006	07:00:00	-1
11/11/2006	07:30:00	-1
11/11/2006	08:00:00	-1
11/11/2006	08:30:00	-1
11/11/2006	09:00:00	-1
11/11/2006	10:30:00	-1
11/11/2006	11:00:00	-1
11/11/2006	11:30:00	-1
11/11/2006	12:00:00	-1
11/11/2006	12:30:00	-1
11/11/2006	13:00:00	-1
11/11/2006	13:30:00	-1
11/11/2006	14:00:00	-1
11/11/2006	14:30:00	-1
11/11/2006	15:00:00	-1
11/11/2006	15:30:00	-1
11/11/2006	16:00:00	-1
11/12/2006	07:30:00	-1
11/12/2006	08:00:00	-1
11/12/2006	08:30:00	-1
11/12/2006	09:00:00	-1
11/12/2006	09:30:00	-1
11/12/2006	10:00:00	-1
11/12/2006	10:30:00	-1
11/12/2006	12:00:00	-1
11/12/2006	16:30:00	-1
11/13/2006	06:30:00	-1
11/13/2006	07:30:00	-1
11/13/2006	08:00:00	-1
11/13/2006	08:30:00	-1
11/13/2006	09:00:00	-1
11/13/2006	10:00:00	-1
11/13/2006	10:30:00	-1
11/13/2006	11:00:00	-1
11/13/2006	11:30:00	-1

11/13/2006	12:30:00	-1
11/13/2006	15:00:00	-1
11/13/2006	15:30:00	-1
11/13/2006	16:00:00	-1
11/13/2006	16:30:00	-1
11/13/2006	17:00:00	-1
11/13/2006	17:30:00	-1
11/13/2006	18:00:00	-1
11/13/2006	18:30:00	-1
11/13/2006	19:00:00	-1
11/14/2006	03:00:00	-1
11/14/2006	03:30:00	-1
11/14/2006	04:00:00	-1
11/14/2006	04:30:00	-1
11/14/2006	05:00:00	-1
11/14/2006	05:30:00	-1
11/14/2006	06:00:00	-1
11/14/2006	07:00:00	-1
11/14/2006	07:30:00	-1
11/14/2006	08:00:00	-1
11/14/2006	09:00:00	-1
11/14/2006	09:30:00	-1
11/14/2006	10:00:00	-1
11/14/2006	10:30:00	-1
11/14/2006	11:00:00	-1
11/14/2006	18:00:00	-1
11/14/2006	18:30:00	-1
11/14/2006	19:00:00	-1
11/14/2006	19:30:00	-1
11/14/2006	20:00:00	-1
11/14/2006	20:30:00	-1
11/15/2006	06:30:00	-1
11/15/2006	07:00:00	-1
11/15/2006	07:30:00	-1
11/15/2006	08:00:00	-1
11/15/2006	13:00:00	-1
11/15/2006	17:00:00	-1
11/15/2006	18:30:00	-1
11/15/2006	19:00:00	-1
11/15/2006	19:30:00	-1
11/15/2006	20:00:00	-1
11/15/2006	21:30:00	-1
11/15/2006	22:00:00	-1
11/16/2006	13:30:00	-1
11/16/2006	14:00:00	-1
11/16/2006	20:30:00	-1

11/16/2006	21:00:00	-1
11/17/2006	20:30:00	-1
11/17/2006	21:00:00	-1
11/17/2006	21:30:00	-1
11/17/2006	22:00:00	-1
11/18/2006	21:30:00	-1
11/18/2006	22:00:00	-1
11/19/2006	21:30:00	-1
11/19/2006	22:00:00	-1
11/19/2006	22:30:00	-1
11/19/2006	23:30:00	-1
11/20/2006	03:30:00	-1
11/20/2006	04:00:00	-1
11/20/2006	08:30:00	-1
11/20/2006	09:30:00	-1
11/20/2006	19:00:00	-1
11/20/2006	21:30:00	-1
11/20/2006	22:00:00	-1
11/20/2006	22:30:00	-1
11/20/2006	23:00:00	-1
11/20/2006	23:30:00	-1
11/21/2006	00:00:00	-1
11/21/2006	00:30:00	-1
11/21/2006	01:30:00	-1
11/21/2006	19:30:00	-1
11/21/2006	20:00:00	-1
11/21/2006	20:30:00	-1
11/21/2006	21:00:00	-1
11/21/2006	21:30:00	-1
11/21/2006	22:00:00	-1
11/21/2006	22:30:00	-1
11/22/2006	00:00:00	-1
11/22/2006	00:30:00	-1
11/22/2006	01:00:00	-1
11/22/2006	02:00:00	-1
11/23/2006	00:30:00	-1

BR December 2006

a) Highly positive turbidity values (>1000 NTU) were recorded on the following dates and times which were not consistent with the overall data set. It is likely associated with freshwater flows from the Tijuana River. Data were not removed.

Date	Time	Turbidity
12/22/2006	13:30:00	1451
12/22/2006	14:00:00	1452

b) 12/01/2006 - 12/02/2006; Lower than average salinity and specific conductivity values were recorded during low tides. Data were not removed.

c) Numerous negative turbidity values were recorded during the 12/02/06 14:30 – 12/20/06 15:30 deployment, likely due to a small calibration error. These negative values ranged from -12 to -1, but were generally small. All turbidity data for this deployment should be considered suspect. Data were not removed.

d) Small negative turbidity values were recorded for the following dates/times, possibly due to a small calibration error. Data were not removed.

Date	Time	Turbidity+
------	------	------------

12/23/2006	19:30:00	-1
12/23/2006	20:00:00	-1
12/24/2006	01:00:00	-1
12/24/2006	01:30:00	-1
12/24/2006	02:00:00	-1
12/24/2006	02:30:00	-1
12/24/2006	03:00:00	-1
12/24/2006	04:00:00	-1
12/24/2006	04:30:00	-1
12/24/2006	05:00:00	-1
12/24/2006	23:00:00	-1
12/24/2006	23:30:00	-1
12/25/2006	00:00:00	-1
12/25/2006	01:30:00	-1
12/25/2006	02:00:00	-1
12/25/2006	02:30:00	-1
12/25/2006	03:00:00	-1
12/25/2006	03:30:00	-1
12/25/2006	04:00:00	-1
12/25/2006	04:30:00	-1
12/25/2006	05:00:00	-1
12/25/2006	05:30:00	-1
12/25/2006	06:00:00	-1
12/25/2006	06:30:00	-1
12/25/2006	10:30:00	-1
12/25/2006	12:00:00	-1
12/25/2006	12:30:00	-1
12/25/2006	13:30:00	-1
12/25/2006	14:00:00	-1
12/25/2006	23:30:00	-1
12/26/2006	00:00:00	-1
12/26/2006	00:30:00	-1
12/26/2006	01:00:00	-1
12/26/2006	01:30:00	-1
12/26/2006	02:00:00	-1
12/26/2006	02:30:00	-1
12/26/2006	03:00:00	-1
12/26/2006	03:30:00	-1
12/26/2006	04:00:00	-1

12/26/2006	04:30:00	-1
12/26/2006	05:00:00	-1
12/26/2006	05:30:00	-1
12/26/2006	06:00:00	-1
12/26/2006	06:30:00	-1
12/26/2006	07:00:00	-1
12/26/2006	08:00:00	-1
12/26/2006	08:30:00	-1
12/26/2006	10:30:00	-1
12/26/2006	11:30:00	-1
12/26/2006	13:00:00	-1
12/26/2006	13:30:00	-1
12/26/2006	14:00:00	-1
12/26/2006	14:30:00	-1
12/26/2006	15:00:00	-1
12/26/2006	15:30:00	-1
12/26/2006	16:00:00	-1
12/26/2006	17:00:00	-1
12/27/2006	00:30:00	-1
12/27/2006	01:00:00	-1
12/27/2006	01:30:00	-1
12/27/2006	02:00:00	-1
12/27/2006	02:30:00	-1
12/27/2006	03:30:00	-1
12/27/2006	04:00:00	-1
12/27/2006	04:30:00	-1
12/27/2006	05:00:00	-1
12/27/2006	05:30:00	-1
12/27/2006	10:00:00	-1
12/27/2006	16:30:00	-1
12/27/2006	17:00:00	-1
12/27/2006	17:30:00	-1
12/28/2006	12:30:00	-1
12/28/2006	20:30:00	-1
12/28/2006	21:00:00	-1
12/28/2006	21:30:00	-1
12/28/2006	22:00:00	-1
12/28/2006	22:30:00	-1
12/28/2006	23:00:00	-1
12/29/2006	13:00:00	-1
12/29/2006	13:30:00	-1
12/29/2006	14:00:00	-1
12/29/2006	14:30:00	-1
12/29/2006	15:00:00	-1
12/29/2006	20:00:00	-1
12/29/2006	20:30:00	-1

12/29/2006	21:00:00	-1
12/29/2006	21:30:00	-1
12/29/2006	22:00:00	-1
12/29/2006	22:30:00	-1
12/29/2006	23:00:00	-1
12/29/2006	23:30:00	-1
12/30/2006	00:00:00	-1
12/30/2006	13:30:00	-1
12/30/2006	14:00:00	-1
12/30/2006	14:30:00	-1
12/30/2006	15:00:00	-1
12/30/2006	15:30:00	-1
12/30/2006	16:00:00	-1
12/30/2006	17:30:00	-1
12/30/2006	18:00:00	-1
12/30/2006	18:30:00	-1
12/30/2006	19:00:00	-1
12/30/2006	19:30:00	-1
12/30/2006	20:00:00	-1
12/30/2006	20:30:00	-1
12/30/2006	21:00:00	-1
12/30/2006	21:30:00	-1
12/30/2006	22:00:00	-1
12/30/2006	22:30:00	-1
12/30/2006	23:00:00	-1
12/30/2006	23:30:00	-1
12/31/2006	00:00:00	-1
12/31/2006	00:30:00	-1
12/31/2006	01:00:00	-1
12/31/2006	02:00:00	-1
12/31/2006	02:30:00	-1
12/31/2006	03:00:00	-1
12/31/2006	04:00:00	-1
12/31/2006	07:00:00	-1
12/31/2006	13:30:00	-1
12/31/2006	14:30:00	-1
12/31/2006	15:00:00	-1
12/31/2006	15:30:00	-1
12/31/2006	16:00:00	-1
12/31/2006	18:30:00	-1
12/31/2006	19:00:00	-1
12/31/2006	19:30:00	-1
12/31/2006	20:00:00	-1
12/31/2006	20:30:00	-1
12/31/2006	21:00:00	-1
12/31/2006	21:30:00	-1

12/31/2006	22:00:00	-1
12/31/2006	22:30:00	-1
12/31/2006	23:00:00	-1
12/31/2006	23:30:00	-1

12) Deleted Data Oneonta Slough:

OS January 2006
No data were deleted.

OS February 2006
No data were deleted.

OS March 2006
No data were deleted.

OS April 2006
a) 04/21/2006, 19:00:00 - 04/30/2006, 23:30:00; The pH values were missing due to a bad probe. Data were deleted.

OS May 2006
a) 05/01/2006, 00:00:00 - 05/04/2006, 09:30:00; The pH values were missing due to a bad probe. Data were deleted.
b) 05/06/2006, 14:00:00 – 05/31/2006; Specific Conductivity and dependent salinity, DO mg/L and depth parameter data were deleted due to probe and/or sonde malfunction. Specific conductivity and salinity data displayed abnormal erratic spiking behavior to extreme values.

OS June 2006
a) 06/01/2006, 00:00 – 06/22/2006, 13:30:00; Specific Conductivity and dependent salinity, DO mg/L and depth parameter data were deleted due to probe and/or sonde malfunction. Specific conductivity and salinity data displayed abnormal erratic spiking behavior to extreme values.

OS July 2006
a) 07/18/2006, 11:00:00 – 07/31/2006, 23:30:00; All parameters were deleted due to temperature sensor malfunction.

OS August 2006
a) 08/01/2006, 00:00:00 - 08/09/2006, 16:30:00; All parameters were deleted due to temperature sensor malfunction.
b) 08/10/2006, 18:30:00 - 08/25/2006, 16:00:00; All parameters were deleted due to temperature sensor malfunction.

OS September 2006

a) 09/15/2006, 02:31:00 - 09/17/2006, 20:01:00 and 23:31:00; Turbidity data was deleted due to wiper parking on optics.

OS December 2006

a) 12/02/2006, 16:30:00 - 12/20/2006, 16:00:00; Turbidity data deleted due to very negative values.

Tidal Linkage:

TL January 2006

TL February 2006

a) 02/02/2006, 18:00:00 - 02/21/2006, 08:00:00; Dissolved oxygen (percent saturation) and dissolved oxygen (mg/l) were deleted. Sensor was buried in the sediment.

TL March 2006

a) 03/30/2006, 14:00:00 - 03/31/2006 23:30:00; Dissolved oxygen (percent saturation) and dissolved oxygen (mg/l) were deleted. Dissolved oxygen charge was high throughout deployment and values were consistently recorded that were outside the manufacturers specified range.

b) 03/30/2006, 14:00:00 - 03/31/2006 23:30:00; pH values were deleted due to water contamination in sensor port.

TL April 2006

a) 04/01/2006 00:00:00 - 04/16/2006, 16:00:00; Dissolved oxygen (percent saturation) and dissolved oxygen (mg/l) were deleted. Dissolved oxygen charge was high throughout deployment and values were consistently recorded that were outside the manufacturers specified range.

b) 04/01/2006 00:00:00 - 04/16/2006, 16:00:00; pH values were deleted due to water contamination in sensor port.

TL May 2006

No data were deleted.

TL June 2006

No data were deleted.

TL July 2006

a) The following slightly negative dissolved oxygen values were recorded. Those values were deleted as they are outside the manufactures specified range for the sensor.

Date	Time	DO%
7/25/2006	12:00:00	-0.4
Date	Time	DOmg/l
7/25/2006	12:00:00	-0.03

TL August 2006

a) 08/10/2006, 17:31:00 – 08/31/2006 23:30:00; Dissolved oxygen (percent saturation) and dissolved oxygen (mg/l) were deleted. Dissolved oxygen charge was high throughout deployment and values were consistently recorded that were outside the manufacturers specified range.

b) 08/10/2006, 17:31:00 – 08/31/2006 23:30:00; Specific Conductivity, salinity, and depth were deleted due to probe malfunction.

TL September 2006

a) 09/01/2006 00:00:00 - 09/07/2006, 15:01:00 Dissolved oxygen (percent saturation) and dissolved oxygen (mg/l) were deleted. Dissolved oxygen charge was high throughout deployment and values were consistently recorded that were outside the manufacturers specified range. Specific Conductivity and salinity were also deleted due to probe malfunction.

b) 09/01/2006 00:00:00 - 09/07/2006, 15:01:00; Specific conductivity, salinity, and depth were deleted due to probe malfunction.

c) 09/08/2006, 17:00:00 - 09/22/2006, 14:00:00; Salinity, specific conductivity, depth, and dissolved oxygen (mg/l) were deleted due to specific conductivity probe malfunction.

d) 09/24/2006, 17:00:00 - 09/30/2006, 23:30:00; Specific conductivity, salinity, depth, and dissolved oxygen (mg/l) were deleted due to specific conductivity probe malfunction.

TL October 2006

a) 10/01/2006, 00:00:00 – 10/03/2006, 13:00:00; Specific conductance, salinity, depth, and dissolved oxygen (mg/l) were deleted due to specific conductance probe malfunction.

b) 10/04/2006, 15:01:00 - 10/31/2006, 13:01:00; Specific conductance, salinity, depth, and dissolved oxygen (mg/l) were deleted due to specific conductance probe malfunction.

TL November 2006

a) 11/05/2006, 00:30:00 – 11/30/2006, 23:30:00; Dissolved oxygen (percent saturation) and dissolved oxygen (mg/l) were deleted due to probe malfunction.

b) 11/17/2006, 18:30:00; Negative turbidity value (-7) was deleted, cause unknown.

c) 11/19/2006, 15:00:00; Turbidity spike was deleted. The value was unreasonably high (1320), cause unknown.

TL December 2006

a) 12/01/2006, 00:00:00 - 12/02/2006, 16:30:00 Dissolved oxygen (percent saturation) and dissolved oxygen (mg/l) were deleted due to probe malfunction.

b) The following negative dissolved oxygen values were recorded. Data were deleted as it was outside manufacturer's specified range.

Date	Time	DO%
12/28/2006	23:30:00	-0.1
12/29/2006	00:00:00	-0.2
12/29/2006	00:30:00	-0.1
Date	Time	DOmg/l
12/28/2006	23:30:00	-0.01
12/29/2006	00:00:00	-0.01

12/29/2006 00:30:00 -0.01

Model Marsh:

MM January 2006

No data were deleted.

MM February 2006

No data were deleted.

MM March 2006

No data were deleted.

MM April 2006

No data were deleted.

MM May 2006

No data were deleted.

MM June 2006

No data were deleted.

MM July 2006

a) Negative dissolved oxygen (percent saturation) and dissolved oxygen (mg/l) were deleted during the following dates and time. Values that were outside the manufacture's specified range were recorded. The post-calibration diagnostics showed the probe to be functioning correctly so the remaining values in the deployment were retained.

07/17/2006 05:30:00 – 07/19/2006 11:00:00

b) 07/19/2006, 11:30:00 - 07/31/2006, 23:30:00; The pH values were deleted due to a sensor malfunction.

MM August 2006

a) 08/01/2006, 00:00:00 - 08/09/2006, 15:30:00; The pH values were deleted due to a sensor malfunction.

b) 08/10/2006, 16:30:00 – 08/31/2006, 23:30:00; The pH values were deleted due to a sensor malfunction. Post cal values were 7.67 (7) and 8.61 (10), pre and post cal slopes were both out of range.

MM September 2006

a) 09/01/2006, 00:00:00 - 09/07/2006, 14:00:00; The pH values were deleted due to a sensor malfunction. Post cal values were 7.67 (7) and 8.61 (10), pre and post cal slopes were both out of range.

b) 09/08/2006, 16:31:00 - 09/24/2006, 14:31:00; Dissolved oxygen (percent saturation) and dissolved oxygen (mg/l) values were deleted. Values outside the manufacturer's specified range were recorded.

b) 09/08/2006, 16:31:00 - 09/24/2006, 14:31:00; The pH values were deleted due to a probe malfunction.

MM October 2006
No data were deleted.

MM November 2006
No data were deleted.

MM December 2006
No data were deleted.

Boca Rio:
BR January 2006
a) 01/01/2006, 00:00:00 – 01/09/2006, 22:00; Dissolved oxygen data were deleted, post cal was 150 (100).

BR February 2006
No data were deleted.

BR March 2006
No data were deleted.

BR April 2006
No data were deleted.

BR May 2006
No data were deleted.

BR June 2006
a) 06/02/2006, 00:30:00 - 06/22/2006, 13:00:00; Dissolved oxygen (percent saturation) and dissolved oxygen (mg/l) were deleted due to a puncture in the membrane.

BR July 2006
a) 07/19/2006, 11:00:00 -07/31/2006 23:30:00 Turbidity missing due to a sensor malfunction. Data were deleted.

BR August 2006
a) 08/01/2006, 00:00:00 - 08/11/2006, 15:30:00; Turbidity missing due to a sensor malfunction. Data were deleted.

BR September 2006
No data were deleted.

BR November 2006
No data were deleted.

BR December 2006
No data were deleted.

13) Missing Data

Data are missing due to equipment failure, specific probes not being deployed, and time of maintenance or calibration of equipment. For more details on deleted data, see Deleted Data Section (12.). If additional information on missing data are needed, contact the Research Coordinator at the reserve submitting the data.

OS

Data are missing for the following period, no sonde was deployed:
01/07/06 13:00 – 2/2/06 18:00

TL

Data are missing for the following period, no sonde was deployed:
01/01/06 04:30 – 02/02/06 17:30

14) Post deployment information

np = no probe installed

nc = no calibration done

numbers in parentheses are used if standard differs from those stated.

Site	Date	SpCond Std(50)	DO% std(100)	Depth std(0)	pH std(7)	Turb std(0)
OS	1/7/2006	48.73	59.60	0.00	7.14	0.40
	2/1/2006	50.53	166.00	N/D	7.14	-0.20
	2/21/2006	49.96	101.20	0.03	N/D	-1.50
	3/6/2006	49.87	102.20	0.00	7.16	-0.10
	3/29/2006	49.55	108.00	0.30	7.22	-0.04
	4/20/2006	49.34	88.90	0.01	7.67	0.20
	5/4/2006	50.99	96.00	0.03	N/D	0.20
	5/25/2006	49.92	99.90	-0.07	6.98	0.00
	6/22/2006	49.79	102.30	0.06	7.11	0.00
	7/17/2006	50.80	98.80	0.03	6.93	8.00
	8/9/2006	49.86	97.00	-0.02	7.04	2.90
	8/25/2006	49.90	101.00	0.00	6.99	2.00
	9/22/2006	49.93	103.00	0.04	6.94	-3.00
	10/3/2006	48.55	102.00	0.02	6.95	0.00
	11/1/2006	49.75	106.00	0.00	6.85	0.10
	12/1/2006	49.60	96.20	0.00	6.98	0.60
	12/20/2006	50.00	94.00	0.05	6.78	-9.00
	1/5/2007	49.93	93.50	-0.05	7.24	-2.00

TL	1/8/2006	48.46	99.20	-0.02	7.13	-0.50
	2/1/2006	50.05	N/D	0.02	6.92	-0.70
	2/21/2006	50.25	75.00	0.03	N/D	0.50
	3/6/2006	48.93	104.00	-0.01	ND	0.10
	3/29/2006	49.26	101.50	N/D	7.01	ND
	4/20/2006	50.17	N/D	0.02	ND	-0.10
	5/4/2006	49.31	112.00	0.02	6.90	1.50
	5/27/2006	49.32	109.00	-0.06	7.01	0.00
	6/24/2006	48.85	85.80	0.04	7.17	0.10
	7/17/2006	50.08	111.20	-0.01	6.90	8.00
	8/10/2006	51.64	100.30	0.00	6.94	0.40
	9/7/2006	56.58	120.00	0.00	6.79	-6.70
	9/27/2006	61.29	103.00	-0.02	7.03	-4.30
	10/3/2006	54.40	109.00	0.00	6.99	2.80
	10/31/2006	51.90	101.80	0.00	6.90	-0.20
	12/2/2006	55.84	95.90	0.04	6.96	5.80
	12/20/2006	50.88	103.4	0.09	7.16	-1.00
	1/03/2007	49.30	98.70	-0.07	7.05	-0.20
BR	1/10/2006	50.70	150.00	0.01	7.26	0.10
	2/1/2006	50.50	99.90	0.01	N/D	-0.06
	2/21/2006	32.93	108.60	0.04	7.05	0.80
	3/6/2006	49.51	103.00	0.06	7.02	0.10
	3/29/2006	49.50	103.10	-0.05	7.13	N/D
	4/21/2006	50.02	100.90	0.00	6.89	-0.30
	5/4/2006	50.10	101.30	0.03	7.02	-0.02
	5/25/2006	49.34	100.90	-0.04	7.03	0.40
	6/22/2006	48.80	100.90	0.06	6.99	-0.03
	7/19/2006	48.80	103.00	0.06	6.99	-1.00
	8/11/2006	49.59	103.00	-0.01	6.93	-1.00
	9/8/2006	49.27	88.00	0.40	6.90	-9.70
	9/22/2006	50.19	87.50	-0.04	6.87	N/D
	10/5/2006	50.18	97.70	0.02	6.99	-0.40
	11/1/2006	49.48	102.00	0.03	N/D	1.90
	12/2/2006	50.15	86.40	0.05	7.11	0.60
	12/20/2006	50.00	102.00	0.08	6.81	-10.30
	1/3/2007	49.90	87.00	-0.08	6.92	-1.10
MM	1/07/2006	49.79	114.20	0.00	7.04	-0.60
	2/4/2006	N/D	100.30	-0.02	N/D	N/D
	2/21/2006	50.31	101.10	0.04	6.88	0.40
	3/6/2006	49.69	102.00	0.02	7.12	-0.50
	3/28/2006	49.74	101.40	-0.05	7.07	5.00
	4/21/2006	48.91	103.00	-0.04	7.07	-7.10
	5/4/2006	50.72	93.70	-0.07	6.97	0.80

5/26/2006	49.54	98.70	0.00	7.03	0.30
6/23/2006	49.08	105.90	0.04	6.96	-4.20
7/19/2006	49.46	103.30	0.00	7.00	-1.00
8/9/2006	50.55	96.00	-0.01	N/D	8.30
9/7/2006	50.14	101.60	-0.03	7.67	-10.00
9/24/2006	50.90	120.00	0.02	N/D	N/D
10/3/2006	50.06	103.00	0.02	6.70	1.40
11/1/2006	50.27	107.30	0.01	7.30	-0.50
12/2/2006	50.23	93.00	0.11	6.92	2.40
12/20/2006	50.20	114.00	0.06	7.03	-1.40
1/3/2007	49.60	66.00	-0.07	7.31	-0.90

15) Other Remarks

On 10/02/2019 this dataset was updated to include embedded QAQC flags for anomalous/suspect data. System-wide monitoring data beginning in 2007 were processed to allow for QAQC flags and codes to be embedded in the data files rather than detailed in the metadata alone (as in the anomalous/suspect, deleted, and missing data sections above). Prior to 2006, rejected data were deleted from the dataset so they are unavailable to be used at all, but suspect data were only noted in the metadata document. Suspect data flags <1> were embedded retroactively in order to allow suspect data to be easily identified and filtered from the dataset if desired for analysis and reporting purposes. No other flags or codes were embedded in the dataset and users should still refer to the detailed explanations above for more information.

a) There were a few instances at this NERR site where turbidity recorded small negative values (-0001 and -0002). Because turbidity has a range of accuracy of +/-2 NTU, the technician did not edit or delete these values in any way.

b) Hypoxic (< 20%) and super-saturation (>100%) dissolved oxygen events were recorded at all sites. The events were cyclic (primarily diel) and the duration of each event was less than 24hrs.

c) 2006 Daily Rainfall Totals Recorded at Tijuana Estuary:

Date	ppt (mm)
01/01/2006	0.762
01/02/2006	8.382
01/03/2006	6.096
01/14/2006	0.762
02/18/2006	1.524
02/19/2006	20.574
02/20/2006	0.762
02/27/2006	3.81
02/28/2006	22.098
03/01/2006	12.192

03/02/2006	7.62
03/03/2006	3.81
03/04/2006	0.762
03/07/2006	8.382
03/08/2006	3.048
03/10/2006	8.382
03/11/2006	27.432
03/12/2006	0.762
03/13/2006	0.762
03/18/2006	0.762
03/19/2006	0.762
03/20/2006	0.762
03/21/2006	0.762
03/28/2006	1.524
03/29/2006	1.524
04/05/2006	0.762
04/06/2006	5.588
04/14/2006	12.192
04/15/2006	2.286
04/23/2006	6.858
04/27/2006	3.048
05/22/2006	60.198
10/13/2006	3.048
10/14/2006	2.032
10/15/2006	0.508
11/12/2006	0.254
11/14/2006	0.254
11/17/2006	0.254
11/19/2006	0.254
11/20/2006	0.508
11/22/2006	0.254
12/10/2006	1.524
12/15/2006	0.254
12/16/2006	0.762
12/17/2006	1.524
12/22/2006	1.016
12/27/2006	1.778
12/28/2006	0.508

d) Tijuana River Discharges Near the International Border - Discharge in Millions of gallons per day (mgd)

01/01/06	10.04
01/02/06	121.63
01/03/06	43.81
01/04/06	25.79

01/05/06	18.48
01/06/06	13.69
01/07/06	11.41
01/08/06	13.69
01/09/06	11.41
01/10/06	9.13
01/11/06	1.83
01/12/06	6.62
01/13/06	4.34
01/14/06	4.34
01/15/06	11.41
01/16/06	11.41
01/17/06	1.83
01/20/06	4.34
01/21/06	1.83
02/04/06	11.41
02/05/06	4.34
02/19/06	94.47
02/20/06	20.99
02/21/06	12.78
02/22/06	43.81
02/23/06	10.04
02/24/06	13.69
02/25/06	1.83
02/27/06	83.29
02/28/06	148.33
03/01/06	90.82
03/02/06	17.8
03/03/06	47.01
03/04/06	16.2
03/05/06	13.69
03/06/06	13.69
03/07/06	25.79
03/08/06	16.2
03/09/06	13.69
03/10/06	83.29
03/11/06	202.41
03/12/06	83.29
03/13/06	34.46
03/14/06	23.28
03/15/06	18.48
03/16/06	20.99
03/17/06	16.2
03/18/06	37.65
03/19/06	118.21
03/20/06	47.01

03/21/06	99.5
03/22/06	28.3
03/23/06	18.48
03/24/06	20.54
03/25/06	18.48
03/26/06	16.2
03/27/06	13.69
03/28/06	67.32
03/29/06	154.04
03/30/06	16.2
03/31/06	9.13
04/1/06	6.62
04/2/06	6.62
04/3/06	6.62
04/4/06	157.69
04/5/06	132.36
04/6/06	35.143
04/7/06	28.98
04/8/06	20.99
04/9/06	18.48
04/10/06	25.79
04/11/06	25.79
04/12/06	28.3
04/13/06	23.28
04/14/06	90.14
04/15/06	50.2
04/16/06	18.48
04/17/06	18.48
04/18/06	18.48
04/19/06	18.48
04/20/06	16.2
04/21/06	13.69
04/22/06	16.2
04/23/06	31.95
04/24/06	8.9
04/25/06	7.99
04/26/06	9.81
04/27/06	12.09
04/28/06	10.73
04/29/06	11.41
04/30/06	17.57
05/01/06	20.99
05/02/06	11.41
05/05/06	6.61
05/15/06	1.82
05/22/06	90.82

05/23/06	18.02
05/24/06	17.79
05/25/06	18.02
05/26/06	18.48
05/27/06	13.23
05/28/06	17.79
05/29/06	15.51
07/06/06	80.55
07/17/06	10.04
09/12/06	23.96
09/13/06	23.96
11/07/06	25.79
11/08/06	25.79
11/12/06	25.79
11/25/06	4.34
11/27/06	28.73
11/28/06	9.13
11/29/06	4.34
12/01/06	6.62
12/02/06	2.82
12/09/06	11.41
12/10/06	73.25
12/11/06	13.7
12/12/06	6.62
12/13/06	4.34
12/14/06	4.34
12/15/06	6.62
12/16/06	20.99
12/17/06	25.79
12/18/06	13.7
12/22/06	50.89
12/23/06	18.03
12/24/06	3.42
12/27/06	46.1