#### NOAA FORM 76-35A

# U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

# NATIONAL OCEAN SERVICE DESCRIPTIVE REPORT

Type of Survey
Field No.
Registry No.
LOCALITY
State
General Locality
Sublocality
CHIEF OF PARTY
CHIEF OF PARTY
LIBRARY & ARCHIVES
DATE

NOAA FORM 77-28 U.S. DEPAR (11-72) NATIONAL OCEANIC AND ATMOSPH	TMENT OF COMMERCE ERIC ADMINISTRATION	REGISTRY No
HYDROGRAPHIC TITLE SHEET		
<b>INSTRUCTIONS</b> - The Hydrographic Sheet should be accompanied in as completely as possible, when the sheet is forwarded to the Office.	d by this form, filled	FIELD No.
State		
General Locality		
Sub-Locality		
Scale	Date of Surv	vey
Instructions dated	Project No	
Vessel_		
Chief of party		
Surveyed by		
Soundings by echo sounder, hand lead, pole		
Graphic record scaled by		
Graphic record checked by	Automated P	lot
Verification by		
Soundings in fathoms feet at MLW MLLW		
REMARKS:		

# **DESCRIPTIVE REPORT**

#### A. AREA SURVEYED

This survey was conducted in accordance with Hydrographic Survey Letter Instructions\* for Survey F00507, Los Angeles and Long Beach Harbors. The original instructions are dated August 5, 2005. Data acquisition was conducted from Aug 17, 2005- Sept 21, 2006.

See Figure 1-3 on the following pages for images of survey limits and data coverage.

#### \* Filed with original field records.

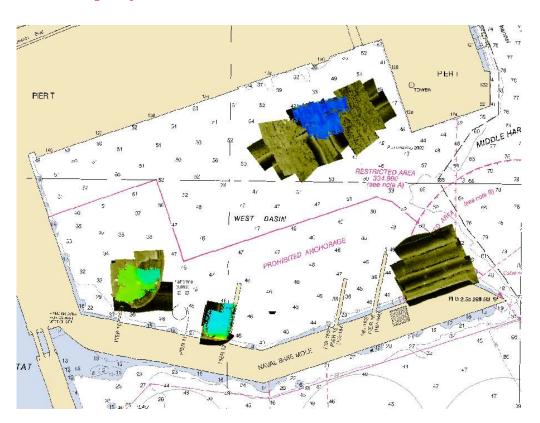


Figure 1: Long Beach Harbor Data Coverage.

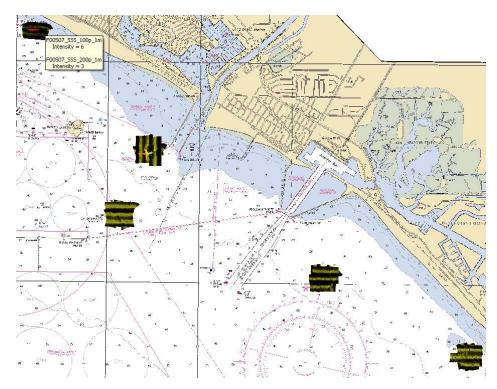


Figure 2: Long Beach to Huntington Beach Survey Data Coverage.

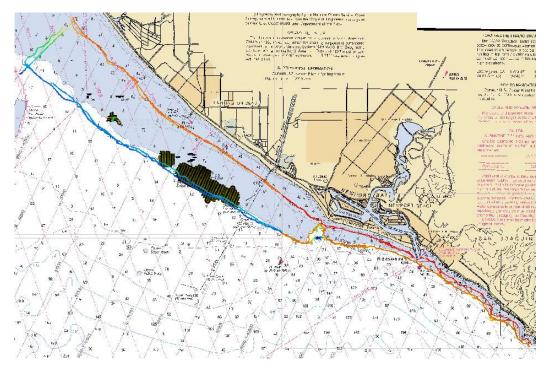


Figure 3: Huntington Beach to Newport Beach Data Coverage. Note: Image includes bathymetry data from Sheets H11485 and H11486, and SSS coverage of AWOIS items.

#### **B. DATA ACQUISITION AND PROCESSING**

#### **B.1 EQUIPMENT**

Data were acquired by NOAA Survey boat S3003, which is a 10-meter hydrographic survey vessel with an average transducer draft of 1.1 meters

NOAA Survey boat S3003 acquired soundings, imagery, and sound velocity profiles. Soundings were acquired by SIMRAD EM3000 multibeam echosounder. Imagery was acquired by KLEIN 3000 side scan sonar. Water column sound velocity data was acquired with a Sea-Bird SBE 19+ CTD.

NOAA Survey boat S3003 positioning and attitude data were determined with a TSS POS/MV 320 Version 3 GPS-aided inertial navigation system.

Refer to the Data Acquisition and Processing Report (DAPR\*) for detailed equipment and vessel configuration information. *Concur*.

#### **B.2 QUALITY CONTROL**

#### **B.2.1 Side Scan Sonar Quality Control**

Daily confidence checks were made by observing the outer ranges of the side scan sonar images. A good check consisted of distinguishing contacts or sand waves across the entire range of the side scan trace.

Throughout the survey, the outer range of the right side scan transducer appeared very faint. The cause of this is not known. Significant objects or objects with strong acoustic reflectivity were readily discernable. Refer to this project's DAPR\* for detailed discussion of SSS data acquisition and processing. *Concur.* 

\*Filed with original field records.

#### **B.2.2 Shallow Water Multibeam Quality Control**

A patch test was conducted on July 14<sup>th</sup>, 2005 (DN 143) and applied to all multibeam echosounder data. This patch test was later found to contain errors. A patch test was conducted on March 23-24, 2006 (DN 082 and 083) by NRT6, PHB and HSTP personnel. The results of the March 2006 patch test were applied to the vessel configuration files 'NRT6\_S3003\_EM3000' and 'NRT6\_S3003\_EM3000\_NAD83' and all data for the survey was remerged. *Concur.* 

Two CARIS HVF files were used in this project: NRT6\_S3003\_EM3000, and NRT6\_S3003\_EM3000\_NAD83. One day (DN 2005-229) of SWMB data was acquired and processed using the first HVF. The other two days of SWMB data for this sheet were processed using the NRT6\_S3003\_EM3000\_NAD83 HVF. This HVF corrected the Ellipsoid parameter from WGS84 to NAD83. The difference between the datums is negligible, so it wasn't deemed necessary to reprocess using the corrected HVF. *Concur*.

Refer to this project's DAPR\* for detailed discussion of SWMB system calibrations, data acquisition, and data processing.

#### **B.2.3 BASE Surfaces**

Four CARIS HIPS BASE (*B*athymetry *A*ssociated with *S*tatistical *E*rror) surfaces, which incorporate each sounding's total propagated error (TPE), were created. Each finalized BASE surface contains seven layers: depth, uncertainty (using the "greater of the two" option), density, mean, standard deviation, shoal and deep. Refer to this project's DAPR for detailed discussion of BASE Surface generation and processing. *Concur.* 

#### \* Filed with original field records.

The following Fieldsheets were generated as part of this survey:

Table 1: Fieldsheets and BASE Surfaces

<b>Fieldsheet</b>	<b># BASE Surfaces</b>	Resolution	<b>Purpose</b>
F00507	2	1m	Coverage & Finalized
F00507_BAG_A	2	1m	<b>BAG</b> Generation
F00507_BAG_B	2	1m	<b>BAG</b> Generation
F00507_BAG_C	2	1m	<b>BAG</b> Generation

Three BAG (Bathymetric Attributed Grid) surfaces were created. They are F00507\_BAG\_A, F00507\_BAG\_B, and F00507\_BAG\_C.

The latter three fieldsheets in the above table are smaller fieldsheets used to create the BAG exports. CARIS could not support a BAG file the size of the original fieldsheet. *Concur.* 

#### **B.2.4 Crosslines**

NOAA S3003 conducted the required amount of crosslines, totaling 10% of the total lineal nautical miles surveyed. Crossline-to-mainscheme data comparison was performed by visually inspecting the BASE Surface for data artifacts and large standard deviation areas. The crossline-to-mainscheme comparison was found to be satisfactory. *Concur.* 

#### **B.3 CORRECTIONS TO ECHO SOUNDING**

All methods or instruments used were as described in the project DAPR\*. A table of all sound velocity casts is located in Separate II\*.

<sup>\*</sup> Filed with original field records.

#### C. VERTICAL AND HORIZONTAL CONTROL

#### **C.1 VERTICAL CONTROL**

The tidal datum for this project is Mean Lower Low Water (MLLW). The operating National Water Level Observation Network (NWLON) station at Los Angeles, CA (941-0660) was the sole water level station for this project. See Figure 2 for station location and tide zone boundaries. The tide zoning file "L418NRT62005CORP" was applied during processing. *Concur*.



Figure 2: Preliminary Tide Zoning

The preliminary zones and correctors used for this survey are as follows:

**Table 2: Preliminary Tide Zones & Correctors** 

Zone Name	<u>Time</u>	Range Ratio	Predicted	
	Correctors (mins)		Reference	
PAC9	0	X0.97	941-0660	
PAC9A	0	x1.00	941-0660	

A Request for Approved Tides letter was sent to N/OPS1 on January 4th, 2007 and is

included in Appendix IV Tides & Water Levels. Observed water levels from the N/OPS1 CO-OPS website were downloaded and applied to all sounding data with preliminary tide zoning. Refer to the 2005 DAPR\* for a summary of the methods used to determine, evaluate, and apply tide corrections to sounding data. *Concur with clarification. Preliminary zoning was accepted as final zoning.* 

#### C.2 HORIZONTAL CONTROL

The horizontal datum used for this survey is the North American Datum of 1983 (NAD 83), projected using UTM zone 11.

Horizontal position was determined using the Global Positioning System (GPS) corrected by U.S. Coast Guard differential GPS (DGPS) beacon station at Point Loma, CA (302 kHz). No horizontal control stations were established for this survey.

Horizontal dilution of precision (HDOP) was monitored daily. The observed HDOP values did not exceed 4.00. *Concur*.

#### D. RESULTS AND RECOMMENDATIONS See Evaluation Report

#### **D.1 CHART COMPARISON**

Data accuracy standards and bottom coverage requirements have been met and survey data for survey F00507 are adequate to supersede charted data in their common areas. *Do not concur. See Evaluation Report.* 

There are four raster charts and two ENCs affected by this survey: **Do not concur.**There are three raster charts and three ENCs affected by this survey.

**Table 3: Affected Charts** 

<b>Chart Number</b>	<b>Edition</b>	<b>Edition Date</b>
18746	36 <sup>th</sup>	3/1/2005
18749	39 <sup>th</sup>	12/1/2004
18751	43 <sup>rd</sup>	12/1/2004
18754	——17 <sup>th</sup> ———	7/1/2003

ENC Cell	<b>Last Updated</b>	<b>Corresponding Chart</b>	<b>Version</b>	<u>Ed.</u>
US5CA61M	June 10, 2005	18749	2	1
US5CA62M	July 29, 2005	18751	2	2
US4CA60M	Dec. 11, 2007	18746	1	5

Soundings in the vicinity of the charted Belmont Pier suggest that the 18-foot contour has migrated seaward, with depths of 18 feet surveyed up to 75 meters seaward of the charted 18-foot depth curve. The hydrographer recommends further echosounder investigation of this area to determine the extent of shoaling. *Concur*.

#### **D.1.1 General Agreement with Charted Soundings**

Soundings in the Long Beach West Basin will be discussed below. Elsewhere, present survey soundings agree within 2 feet of charted depths. *Concur*.

#### **D.1.2 Dangers to Navigation (DtoN's)**

Seven DTONs were identified by the field party. Information pertaining to these dangers to navigation is discussed in Appendix I. Concur with clarification.. Six of the seven submitted DtoNs were later retracted due to removal of the features in question.

#### **D.1.3 AWOIS Items**

Twenty-two Twenty-one AWOIS items were identified as critical to surface navigation and assigned to survey F00507. All 22 21 items were investigated with 200% side scan sonar and contacts were developed with multibeam sonar surveys. Investigation methods, results and charting recommendations have been entered into the Pydro PSS "F00507". Information pertaining to these AWOIS items is contained in Appendix II\* of this report. Concur.

#### **D.1.4 Significant Uncharted Features**

Three significant uncharted features were observed by the field party. These features are discussed in Appendix II\* of this report. *Do not concur. Only one uncharted feature is included in Appendix II\* of this report.* 

<sup>\*</sup> Filed with original field reports.

#### **D.1.5 Non-AWOIS Charted Features & Notes**

Two non-AWOIS charted features were investigated during survey F00507. These features are addressed in Appendix II\* of this report. *Do not concur. Only one additional non-AWOIS charted feature is included in Appendix II.* 

#### **D.2 ADDITIONAL RESULTS**

#### **D.2.1 Prior Surveys**

This survey overlaps seventeen prior NOAA surveys:

**Table 4: Prior NOAA surveys** 

Registry Number	<u>Scale</u>	<b>Year Surveyed</b>
F00484	10000	2001
H10998	10000	2000
H10331	10000	1990
H09670	5000	1978
H09671	5000	1977
H09672	5000	1977
H09672A	5000	1977
H09673	5000	1977
H09674	5000	1977
H09592	5000	1976
H09493	10000	1975
H09492	10000	1975
H09494	20000	1975
H09487	10000	1975
H09580	10000	1975
H09469	10000	1974
H09470	5000	1974

#### **Long Beach West Basin**

Correspondence with the Long Beach harbormaster's office describes recent dredging in the north of Long Beach West Basin. After dredging, the West Basin has a controlled depth of 50 feet at MLLW. Documentation regarding this dredging was obtained from the harbormasters office and is included in Appendix V\*. Sounding comparisons between the present survey and the chart were not performed in the West Basin due to these dredging operations. *Concur with clarification. Only a portion of the West Basin was dredged, see Appendix V for more information.* 

<sup>\*</sup> Filed with original field reports.

The ruins of two demolished piers, West Basin Pier 1 and Pier 2, were observed in the side scan sonar data. These ruins were submitted as a Danger to Navigation on July 12<sup>th</sup>, 2006, to alert mariners to the presence of numerous small submerged piles in the area. These ruins are further described in Appendix I. Per a telephone call with the Port of Long Beach lead hydrographer Pete Jensen, the harbormaster's office has removed these piles and several others found in the vicinity. According to Jensen, all piles critical to navigation in the area have been razed below controlling depth or removed, and correspondence between the Port and MCD resulted in the DTON's being retracted. The hydrographer recommends obtaining original documentation from the Port of Long Beach describing further dredging and object removal during office evaluation. *Concur.* 

This survey is adequate to update charted features in common areas. This survey is adequate to update charted depths in common areas outside of Long Beach West Basin. *See Evaluation Report*.

#### **D.2.2** Aids to Navigation and Other Detached Positions

No fixed or floating aids to navigation were positioned during this project. *Concur*.

#### **D.2.3 Bridges and Overhead Cables**

There are no bridges or overhead cables in the survey area. *Concur*.

#### **D.2.4 Ferry Routes**

There are no ferry routes in the survey area. *Concur*.

#### **D.2.5 Submarine Cables and Pipelines**

No submarine cables or pipelines were located in the survey area. *Concur*.

#### E. APPROVAL SHEET

### OPR-L418-NRT6-05 Los Angeles and Long Beach, California

#### Survey Registry No. F00507

Field operations for this basic hydrographic survey were conducted under my daily supervision with frequent checks of progress and adequacy. All bathymetry models, this Descriptive Report, and all accompanying records and data are approved.

This survey is adequate to supersede all prior surveys in common areas and for application to the relevant NOS nautical charts.

Also submitted in association with this descriptive report has been a series of reports and data:

- SEPARATES TO ACCOMPANY PROJECT OPR-L418-NRT6-05
- OPR-L418-NRT6-05 HORIZONTAL AND VERTICAL CONTROL REPORT (*March* 2006)
- DECEMBER 2005 DATA ACQUISITION AND PROCESSING REPORT (July 2006)

Respectfully Submitted:	
Approved and Forwarded:	
	Eric Moore, NOAA
	Physical Science Technician

# APPENDIX I DANGERS TO NAVIGATION REPORT

# **F00507 - Dangers to Navigation**

**Registry Number:** F00507

State: California

Locality: Los Angeles and Long Beach Harbour

**Sub-locality:** San Pedro Bay

**Project Number:** OPR-L418-NRT6-05

**Survey Dates:** 08/17/2005 - 07/12/2006

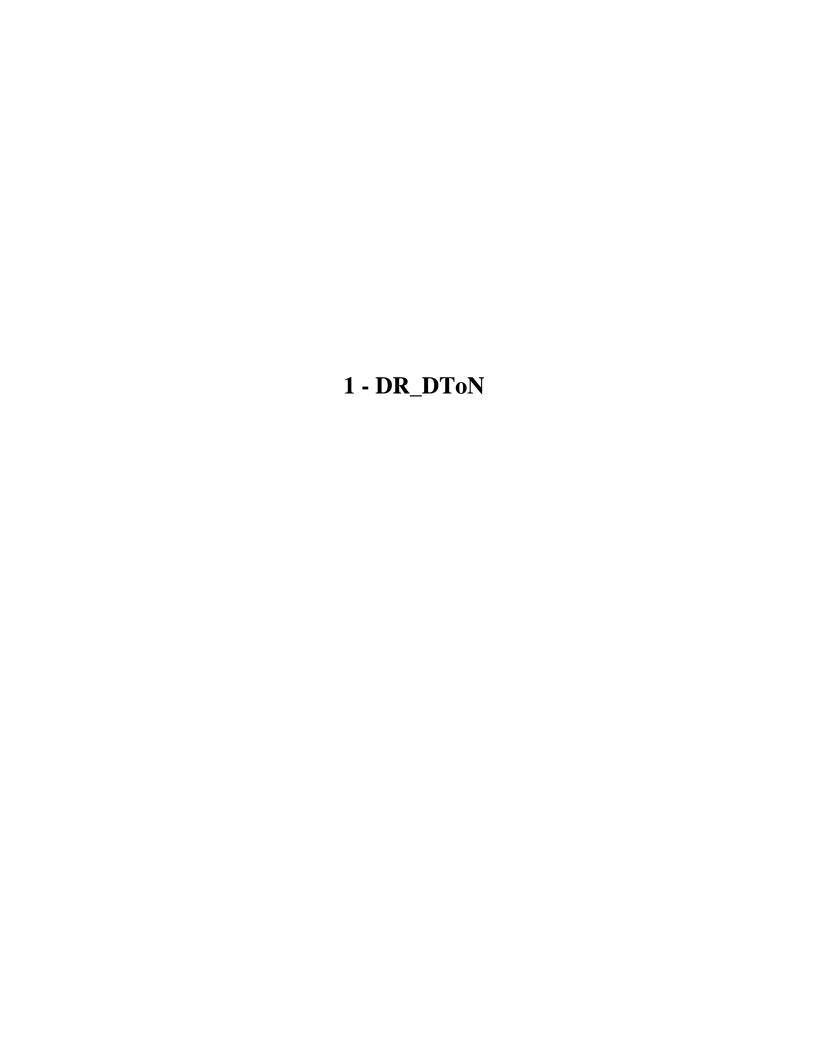
#### **Charts Affected**

Number	Edition	Date	Scale (RNC)	RNC Correction(s)*
18751	45th	11/01/2007	1:12,000 (18751_1)	USCG LNM: 05/13/2008 (05/13/2008) NGA NTM: 06/22/1996 (05/24/2008)
18749	41st	08/01/2007	1:20,000 (18749_1)	USCG LNM: 03/25/2008 (03/25/2008) NGA NTM: 06/22/1996 (04/05/2008)
18746	37th	08/01/2007	1:80,000 (18746_1)	USCG LNM: 05/13/2008 (05/13/2008) NGA NTM: 05/21/2005 (05/24/2008)
18740	41st	04/01/2005	1:234,270 (18740_1)	[L]NTM: ?
18022	35th	08/01/2005	1:868,003 (18022_1)	[L]NTM: ?
18020	37th	09/01/2003	1:1,444,000 (18020_1)	[L]NTM: ?
501	12th	11/01/2002	1:3,500,000 (501_1)	[L]NTM: ?
530	31st	06/01/2005	1:4,860,700 (530_1)	[L]NTM: ?
50	6th	06/01/2003	1:10,000,000 (50_1)	[L]NTM: ?

<sup>\*</sup> Correction(s) - source: last correction applied (last correction reviewed--"cleared date")

#### **Features**

No.	Name	Feature Type	Survey Depth	Survey Latitude	Survey Longitude	AWOIS Item
1.1	AWOIS #52885/DTON #1 - 250/13	Stationary structure, floating or fixed	11.19 m	33° 45' 09.5" N	118° 13' 41.6" W	52885
1.2	AWOIS #50963/DTON #3 - 349/123	Obstruction	7.31 m	33° 44' 42.5" N	118° 14' 18.6" W	50963
1.3	DTON #4 - 0005	Stationary structure, floating or fixed	[None]	33° 45' 09.8" N	118° 13' 41.9" W	
1.4	DTON #7 - 0006	Stationary structure, floating or fixed	[None]	33° 45' 10.3" N	118° 13' 42.1" W	
1.5	AWOIS #52888/DTON #5 - 0003	Stationary structure, floating or fixed	[None]	33° 45' 06.2" N	118° 13' 48.6" W	52888
1.6	DTON #6 - 0015	Stationary structure, floating or fixed	[None]	33° 45' 11.1" N	118° 13' 40.9" W	



#### 1.1) AWOIS #52885/DTON #1 - 250/13

#### DANGER TO NAVIGATION

#### **Primary Feature for AWOIS Item #52885**

**Search Position:** 33° 45′ 08.2″ N, 118° 13′ 41.2″ W

**Historical Depth:** [None]

**Search Radius:** 75

**Search Technique:** [unknown] **Technique Notes:** [unknown]

**History Notes:** 

[unknown]

#### **Survey Summary**

**Survey Position:** 33° 45′ 09.5″ N, 118° 13′ 41.6″ W

**Least Depth:** 11.19 m (= 36.71 ft = 6.118 fm = 6 fm 0.71 ft)

**TPU** ( $\pm$ **1.96** $\sigma$ ): THU (**TPEh**)  $\pm$ 7.882 m; TVU (**TPEv**)  $\pm$ 0.233 m

**Timestamp:** 2005-229.21:17:12.030 (08/17/2005)

**Survey Line:** f00507 / nrt6\_s3003\_em3000 / 2005-229 / 012\_2116

**Profile/Beam:** 250/13

**Charts Affected:** 18751\_1, 18749\_1, 18746\_1, 18740\_1, 18022\_1, 18020\_1, 501\_1, 530\_1, 50\_1

#### Remarks:

The feature is a submerged dolphin (AWOIS #52885) imaged with KLEIN 3000 side scan sonar. Soundings were acquired with SIMRAD EM3000 MBES and corrected to MLLW using observed water levels with preliminary tide zoning.

This feature was submitted as Danger to Navigation 'OPR-L418-NRT6-05\_DTON 1' on August 18th, 2005. Subsequent correspondence with the hydrographer of the Port of Long Beach revealed that this pile has been removed and DTON was retracted.

#### **Feature Correlation**

Address	Feature	Range	Azimuth	Status
f00507/nrt6_s3003_em3000/2005-229/012_2116	250/13	0.00	0.000	Primary
LA AWOIS_Assigned	AWOIS # 52885	42.06	345.0	Secondary

# **Hydrographer Recommendations**

Per correspondence with the harbormaster, this item has been removed. DTON has been retracted. Delete charted dolphins. See DR for additional information and supporting documentation.

#### **Cartographically-Rounded Depth (Affected Charts):**

```
36ft (18751_1, 18749_1)
6fm (18746_1, 18740_1, 18022_1, 18020_1, 530_1)
11.2m (501_1, 50_1)
```

#### S-57 Data

[None]

#### **Office Notes**

Concur with clarification. Remove charted dols based on dredging, see Appendix 5 for more information.

#### 1.2) AWOIS #50963/DTON #3 - 349/123

#### DANGER TO NAVIGATION

#### **Primary Feature for AWOIS Item #50963**

**Search Position:** 33° 44′ 42.4″ N, 118° 14′ 18.7″ W

**Historical Depth:** 0.79 m **Search Radius:** 100

Search Technique: [unknown]
Technique Notes: [unknown]

**History Notes:** 

[unknown]

#### **Survey Summary**

**Survey Position:** 33° 44′ 42.5″ N, 118° 14′ 18.6″ W

**Least Depth:** 7.31 m (= 23.99 ft = 3.999 fm = 3 fm 5.99 ft)

**TPU** ( $\pm 1.96\sigma$ ): **THU** (**TPEh**)  $\pm 7.888$  m; **TVU** (**TPEv**)  $\pm 0.238$  m

**Timestamp:** 2005-229.21:42:39.190 (08/17/2005)

**Survey Line:** f00507 / nrt6\_s3003\_em3000 / 2005-229 / 027\_2141

**Profile/Beam:** 349/123

**Charts Affected:** 18751\_1, 18749\_1, 18746\_1, 18740\_1, 18022\_1, 18020\_1, 501\_1, 530\_1, 50\_1

#### Remarks:

The feature is a cluster of three large and numerous small obstructions on a small rise in the water bottom. This obstruction was imaged with KLEIN 3000 SSS. Soundings were acquired by SIMRAD EM3000 MBES and corrected to MLLW using observed tides and preliminary tide zoning.

This feature was submitted as Danger to Navigation 'F00507 DTON #3' on July 5, 2006.

Corresponds to AWOIS #50963

#### **Feature Correlation**

Address	Feature	Range	Azimuth	Status
f00507/nrt6_s3003_em3000/2005-229/027_2141	349/123	0.00	0.000	Primary
LA AWOIS_Assigned	AWOIS # 50963	3.41	008.9	Secondary (grouped)
f00507/nrt6_s3003_klein3000_sss200/2005-285/sonar_data051012120200	0003	13.86	298.8	Secondary (grouped)

#### **Hydrographer Recommendations**

Chart a dangerous obstruction, least depth 7.31 m (24 feet) at the present survey position.

#### Cartographically-Rounded Depth (Affected Charts):

```
24ft (18751_1, 18749_1)
4fm (18746_1, 18740_1, 18022_1, 18020_1, 530_1)
7.3m (501_1, 50_1)
```

#### S-57 Data

Geo object 1: Obstruction (OBSTRN)

Attributes: QUASOU - 1:depth known

TECSOU - 2,3:found by side scan sonar, found by multi-beam

VALSOU - 7.313 m

VERDAT - 12:Mean lower low water

WATLEV - 3:always under water/submerged

#### **Office Notes**

Concur with clarification. This item was previously charted as a 26ft OBSTN (AWOIS #50963) It was revised as a DtoN to a 24ft OBSTN.

The 24Ft OBSTN is already charted correctly on the continual update raster chart as of 06/18/2008.

[Image file H:/OPR-L418-NRT6-05/F00507/PSS/PSS Images/awois50963\_2.jpg does not exist.]

[Image file H:/OPR-L418-NRT6-05/F00507/PSS/PSS Images/awois50963\_1.jpg does not exist.]

#### 1.3) DTON #4 - 0005

#### DANGER TO NAVIGATION

#### **Survey Summary**

**Survey Position:** 33° 45′ 09.8″ N, 118° 13′ 41.9″ W

**Least Depth:** [None]

TPU ( $\pm 1.96\sigma$ ): THU (TPEh) [None]; TVU (TPEv) [None]

**Timestamp:** 2006-193.06:56:29 (07/12/2006)

**Survey Line:** f00507 / nrt6\_s3003\_klein3000\_sss100 / 2005-229 / sonar\_data050817125000

**Contact/Point:** 0005/1

**Charts Affected:** 18751\_1, 18749\_1, 18746\_1, 18740\_1, 18022\_1, 18020\_1, 501\_1, 530\_1, 50\_1

#### Remarks:

The feature is a pile at the southwesternmost end of the demolished Pier 1, Port of Long Beach. This pile is one of a group of ruins at what would have been the termination of Pier 2 prior to its demolition. Imagery was acquired with KLEIN 3000 side scan sonar.

This feature was submitted as a Danger to Navigation on July 12, 2006, DTON #4.

#### **Feature Correlation**

Address	Feature	Range	Azimuth	Status	
f00507/nrt6_s3003_klein3000_sss100/2005-229/sonar_data050817125000	0005	0.00	0.000	Primary	

# **Hydrographer Recommendations**

Per correspondence with the harbormaster, this item has been removed. DTON has been retracted. No chart action is needed. See DR for additional information and supporting documentation.

#### S-57 Data

[None]

#### **Office Notes**

Concur with clarification. Remove charted dols based on dredging, see Appendix 5 for more information

#### 1.4) DTON #7 - 0006

#### DANGER TO NAVIGATION

#### **Survey Summary**

**Survey Position:** 33° 45′ 10.3″ N, 118° 13′ 42.1″ W

**Least Depth:** [None]

TPU ( $\pm 1.96\sigma$ ): THU (TPEh) [None]; TVU (TPEv) [None]

**Timestamp:** 2006-193.06:56:48 (07/12/2006)

**Survey Line:** f00507 / nrt6\_s3003\_klein3000\_sss100 / 2005-229 / sonar\_data050817125000

Contact/Point: 0006/1

**Charts Affected:** 18751\_1, 18749\_1, 18746\_1, 18740\_1, 18022\_1, 18020\_1, 501\_1, 530\_1, 50\_1

#### Remarks:

The feature is a pile from the demolished Pier 1, Port of Long Beach, West Basin. This pile is one of a group of ruins at what would have been the termination of Pier 1 prior to its demolition. Imagery was acquired with KLEIN 3000 side scan sonar. There is no bathymetry for this position.

Submitted as DTON#7

#### **Feature Correlation**

Address	Feature	Range	Azimuth	Status	
f00507/nrt6_s3003_klein3000_sss100/2005-229/sonar_data050817125000	0006	0.00	0.000	Primary	

# **Hydrographer Recommendations**

Per correspondence with the harbormaster, this item has been removed. See DR for additional information and supporting documentation.

S-57 Data

[None]

#### **Office Notes**

Concur with clarification. Remove charted dols based on dredging, see Appendix 5 for more information

#### 1.5) AWOIS #52888/DTON #5 - 0003

#### DANGER TO NAVIGATION

#### **Primary Feature for AWOIS Item #52888**

**Search Position:** 33° 45′ 06.3″ N, 118° 13′ 47.1″ W

**Historical Depth:** [None] **Search Radius:** 75

**Search Technique:** [unknown] **Technique Notes:** [unknown]

**History Notes:** 

[unknown]

#### **Survey Summary**

**Survey Position:** 33° 45′ 06.2″ N, 118° 13′ 48.6″ W

**Least Depth:** [None]

**TPU** ( $\pm 1.96\sigma$ ): **THU** (**TPEh**) [None]; **TVU** (**TPEv**) [None]

**Timestamp:** 2006-193.07:17:55 (07/12/2006)

**Survey Line:** f00507 / nrt6\_s3003\_klein3000\_sss200 / 2005-229 / sonar\_data050817131100

Contact/Point: 0003/1

**Charts Affected:** 18751\_1, 18749\_1, 18746\_1, 18740\_1, 18022\_1, 18020\_1, 501\_1, 530\_1, 50\_1

#### Remarks:

The feature is a pile at the southwesternmost end of the demolished Pier 2, Port of Long Beach. This pile is one of a group of ruins at what would have been the termination of Pier 2 prior to its demolition. Imagery was acquired with KLEIN 3000 side scan sonar. There is no bathymetry for this position.

This feature was submitted as a Danger to Navigation on July 12, 2006, DTON #5.

#### **Feature Correlation**

Address	Feature	Range	Azimuth	Status
f00507/nrt6_s3003_klein3000_sss200/2005-229/sonar_data050817131100	0003	0.00	0.000	Primary
f00507/nrt6_s3003_klein3000_sss200/2005-229/sonar_data050817131100	0014	6.73	255.4	Secondary (grouped)
f00507/nrt6_s3003_klein3000_sss200/2005-229/sonar_data050817131100	0007	17.24	158.3	Secondary (grouped)
f00507/nrt6_s3003_klein3000_sss200/2005-229/sonar_data050817131100	0005	23.99	252.3	Secondary (grouped)

f00507/nrt6_s3003_klein3000_sss100/2005-229/sonar_data050817130400	0005	27.53	263.8	Secondary
f00507/nrt6_s3003_klein3000_sss100/2005-229/sonar_data050817130400	0006	33.27	265.2	Secondary
f00507/nrt6_s3003_klein3000_sss200/2005-229/sonar_data050817131100	0004	36.29	251.2	Secondary (grouped)
f00507/nrt6_s3003_klein3000_sss200/2005-229/sonar_data050817131100	0008	37.01	161.9	Secondary (grouped)
f00507/nrt6_s3003_klein3000_sss200/2005-229/sonar_data050817131100	0006	38.13	241.6	Secondary (grouped)
LA AWOIS_Assigned	AWOIS # 52888	38.45	264.5	Secondary
f00507/nrt6_s3003_klein3000_sss100/2005-229/sonar_data050817130400	0002	40.65	239.0	Secondary
f00507/nrt6_s3003_klein3000_sss100/2005-229/sonar_data050817130400	0003	42.92	232.3	Secondary
f00507/nrt6_s3003_klein3000_sss100/2005-229/sonar_data050817130400	0004	46.82	218.1	Secondary
f00507/nrt6_s3003_klein3000_sss200/2005-229/sonar_data050817131100	0009	50.43	211.7	Secondary (grouped)
f00507/nrt6_s3003_klein3000_sss200/2005-229/sonar_data050817131100	0010	53.48	208.6	Secondary (grouped)
f00507/nrt6_s3003_klein3000_sss200/2005-229/sonar_data050817131100	0011	57.19	204.9	Secondary (grouped)
f00507/nrt6_s3003_klein3000_sss200/2005-229/sonar_data050817131100	0012	60.16	202.2	Secondary (grouped)
f00507/nrt6_s3003_klein3000_sss200/2005-229/sonar_data050817131100	0013	62.80	199.4	Secondary (grouped)

# **Hydrographer Recommendations**

Per correspondence with the harbormaster, this item has been removed. DTON has been retracted. No chart action is needed. See DR for additional information and supporting documentation.

S-57 Data

[None]

#### **Office Notes**

Concur with clarification. Remove charted dols based on dredging, see Appendix 5 for more information

#### 1.6) DTON #6 - 0015

#### DANGER TO NAVIGATION

#### **Survey Summary**

**Survey Position:** 33° 45′ 11.1″ N, 118° 13′ 40.9″ W

**Least Depth:** [None]

TPU ( $\pm 1.96\sigma$ ): THU (TPEh) [None]; TVU (TPEv) [None]

**Timestamp:** 2006-193.07:29:05 (07/12/2006)

**Survey Line:** f00507 / nrt6\_s3003\_klein3000\_sss200 / 2005-229 / sonar\_data050817131100

**Contact/Point:** 0015/1

**Charts Affected:** 18751\_1, 18749\_1, 18746\_1, 18740\_1, 18022\_1, 18020\_1, 501\_1, 530\_1, 50\_1

#### Remarks:

The feature is a pile at the southeasternmost end of the demolished Pier 1, Port of Long Beach. This pile is one of a group of ruins at what would have been the termination of Pier 1 prior to its demolition. Imagery was acquired with KLEIN 3000 side scan sonar. There is no bathymetry for this position.

This feature was submitted as a Danger to Navigation on July 12, 2006, as DTON #6 for survey F00507. DTON has since been retracted per communications with the Port of Long Beach chief surveyor.

#### **Feature Correlation**

Address	Feature	Range	Azimuth	Status	
f00507/nrt6_s3003_klein3000_sss200/2005-229/sonar_data050817131100	0015	0.00	0.000	Primary	

# **Hydrographer Recommendations**

Per correspondence with the harbormaster, this item has been removed. DTON has been retracted. No chart action is needed. See DR for additional information and supporting documentation.

#### S-57 Data

[None]

#### **Office Notes**

Concur with clarification. Remove charted dols based on dredging, see Appendix 5 for more information

# F00507\_DTON2

**Registry Number:** F00507

State: CA

**Locality:** San Pedro Bay

**Sub-locality:** San Pedro Bay Middle Breakwater

**Project Number:** OPR-L418-NRT6-05

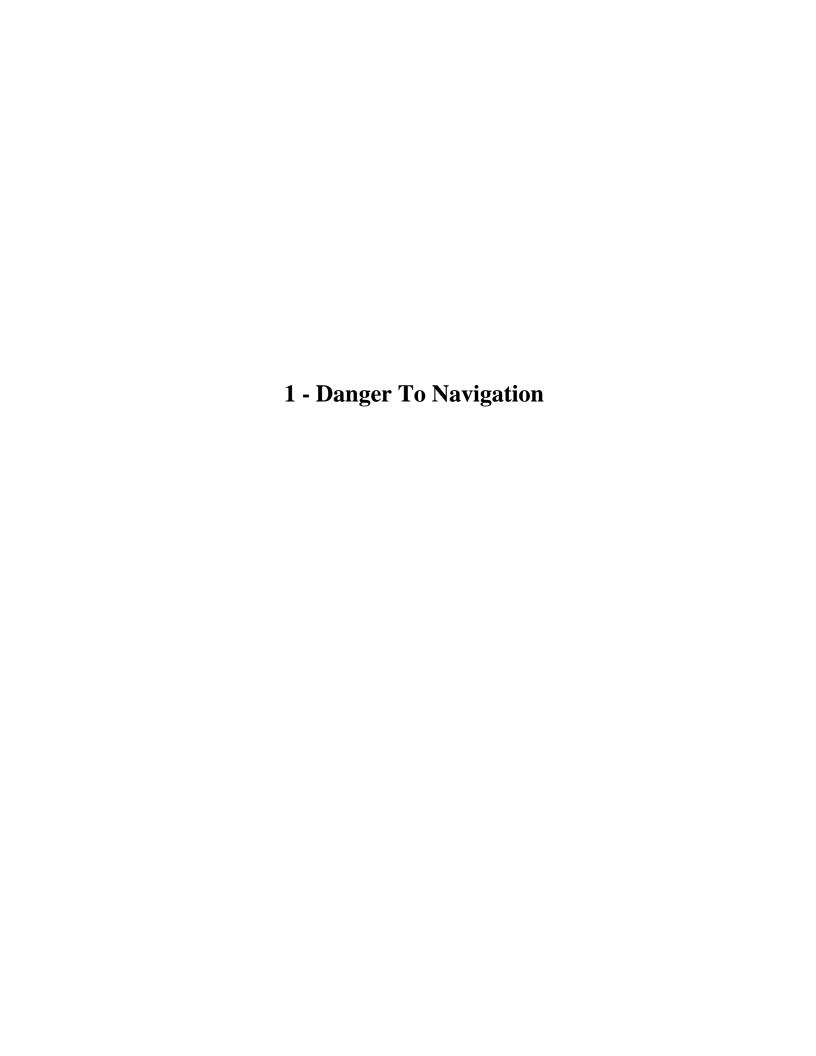
**Survey Date:** 12/15/2005

#### **Charts Affected**

Number	Version	Date	Scale
18751	43rd Ed.	12/01/2004	1:12000
18749	39th Ed.	12/01/2004	1:20000
18746	35th Ed.	11/01/2003	1:80000
18740	40th Ed.	08/01/2003	1:234270
18022	34th Ed.	11/01/2003	1:868003
18020	37th Ed.	09/01/2003	1:1444000
501	12th Ed.	11/01/2002	1:3500000
530	30th Ed.	03/23/2002	1:4860700
50	6th Ed.	06/01/2003	1:10000000

#### **Features**

No.	Feature Type	Survey Depth	Survey Latitude	Survey Longitude	AWOIS Item
1.1	Obstruction	12.73 m	033° 43' 13.419" N	118° 13' 22.558" W	
1.2	Obstruction	12.53 m	033° 43' 13.687" N	118° 13' 19.286" W	



#### **1.1) Obstr**

#### **DANGER TO NAVIGATION**

#### **Survey Summary**

**Survey Position:** 033° 43′ 13.419″ N, 118° 13′ 22.558″ W

**Least Depth:** 12.73 m

**Timestamp:** 2005-349.19:39:30.813 (12/15/2005)

**Survey Line:** anchor / nrt6\_s3003\_em3000 / 2005-349 / newliner

**Profile/Beam:** 78/40

**Charts Affected:** 18751\_1, 18749\_1, 18746\_1, 18740\_1, 18022\_1, 18020\_1, 501\_1, 530\_1, 50\_1

#### Remarks:

Debris pile located by multibeam while investigating another reported obstruction of a pile of I-beams. Most likely also a pile of I-beams.

#### **Feature Correlation**

Address	Feature	Range	Azimuth	Status
anchor/nrt6_s3003_em3000/2005-349/newliner	78/40	0.00	0.000	Primary

# **Hydrographer Recommendations**

Chart as obstruction with 42 ft. sounding.

#### **Cartographically-Rounded Depth (Affected Charts):**

```
42ft (18751_1, 18749_1)
7fm (18746_1, 18740_1, 18022_1, 18020_1, 530_1)
12.7m (501_1, 50_1)
```

#### S-57 Data

Geo object 1: Obstruction (OBSTRN)
Attributes: INFORM - Debris pile

NATCON - 7:metal
OBJNAM - Obstruction

QUASOU - 6:least depth known

TECSOU - 3: found by multi-beam

VALSOU - 12.728 m

VERDAT - 12:Mean lower low water

WATLEV - 3:always under water/submerged

# **Feature Images**

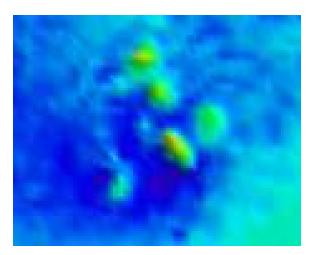


Figure 1.1.1

#### **1.2) Obstr**

#### DANGER TO NAVIGATION

#### **Survey Summary**

**Survey Position:** 033° 43′ 13.687″ N, 118° 13′ 19.286″ W

**Least Depth:** 12.53 m

**Timestamp:** 2005-349.19:40:11.299 (12/15/2005)

**Survey Line:** anchor / nrt6\_s3003\_em3000 / 2005-349 / newliner

**Profile/Beam:** 418/109

**Charts Affected:** 18751\_1, 18749\_1, 18746\_1, 18740\_1, 18022\_1, 18020\_1, 501\_1, 530\_1, 50\_1

#### Remarks:

Obstruction located with multibeam after divers found the what they reported as being a pile of 10-12 inch I-beams protruding approximately 4 ft. from the bottom.

#### **Feature Correlation**

Address	Feature	Range	Azimuth	Status
anchor/nrt6_s3003_em3000/2005-349/newliner	418/109	0.00	000.0	Primary

# **Hydrographer Recommendations**

Chart as obstruction with 41 ft. sounding.

#### **Cartographically-Rounded Depth (Affected Charts):**

```
41ft (18751_1, 18749_1)
6 34fm (18746_1, 18740_1, 18022_1, 18020_1, 530_1)
12.5m (501_1, 50_1)
```

#### S-57 Data

**Geo object 1:** Obstruction (OBSTRN)

**Attributes:** INFORM - Debris pile identified by divers as a pile of 10-12 inch metal I-beams

NATCON - 7:metal

**OBJNAM** - Obstruction

QUASOU - 6:least depth known

TECSOU - 3: found by multi-beam

VALSOU - 12.534 m

VERDAT - 12:Mean lower low water

WATLEV - 3:always under water/submerged

# **Feature Images**

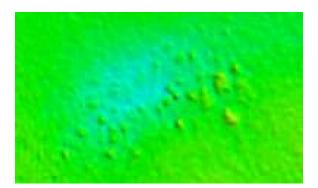


Figure 1.2.1

# APPENDIX II SURVEY FEATURES REPORT

# F00507 - AWOIS Items

**Registry Number:** F00507

State: California

Locality: Los Angeles and Long Beach Harbour

**Sub-locality:** San Pedro Bay

**Project Number:** OPR-L418-NRT6-05

**Survey Dates:** 08/17/2005 - 07/12/2006

#### **Charts Affected**

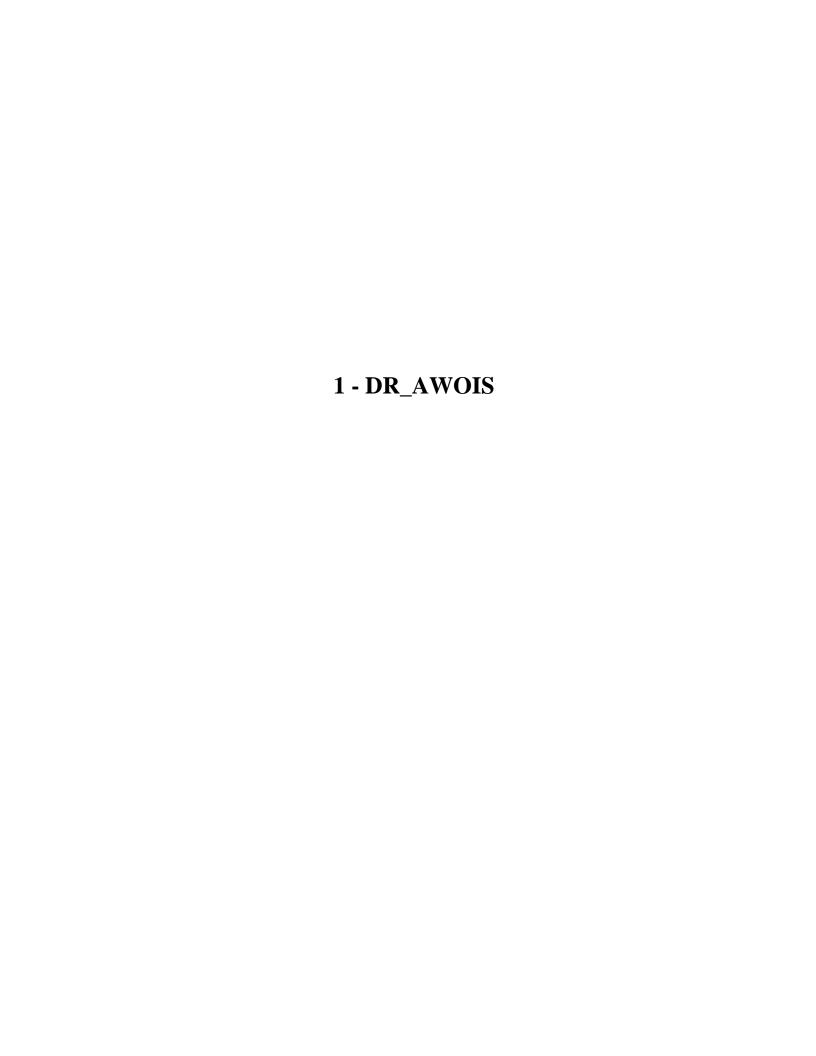
Number	Edition	Date	Scale (RNC)	RNC Correction(s)*
18751	45th	11/01/2007	1:12,000 (18751_1)	USCG LNM: 05/13/2008 (05/13/2008) NGA NTM: 06/22/1996 (05/24/2008)
18749	41st	08/01/2007	1:20,000 (18749_1)	USCG LNM: 03/25/2008 (03/25/2008) NGA NTM: 06/22/1996 (04/05/2008)
18746	37th	08/01/2007	1:80,000 (18746_1)	USCG LNM: 05/13/2008 (05/13/2008) NGA NTM: 05/21/2005 (05/24/2008)
18740	41st	04/01/2005	1:234,270 (18740_1)	[L]NTM: ?
18022	35th	08/01/2005	1:868,003 (18022_1)	[L]NTM: ?
18020	37th	09/01/2003	1:1,444,000 (18020_1)	[L]NTM: ?
501	12th	11/01/2002	1:3,500,000 (501_1)	[L]NTM: ?
530	31st	06/01/2005	1:4,860,700 (530_1)	[L]NTM: ?
50	6th	06/01/2003	1:10,000,000 (50_1)	[L]NTM: ?

<sup>\*</sup> Correction(s) - source: last correction applied (last correction reviewed--"cleared date")

#### **Features**

No.	Name	Feature Type	Survey Depth	Survey Latitude	Survey Longitude	AWOIS Item
1.1	AWOIS # 50947 - 579/64	Obstruction	12.82 m	33° 44' 35.5" N	118° 14' 00.5" W	50947
1.2	AWOIS #53259 - 652/123	Wreck	5.99 m	33° 44' 09.7" N	118° 07' 35.5" W	53259
1.3	AWOIS #53256 - 1070/41	Pile	5.70 m	33° 45' 17.0" N	118° 08' 49.6" W	53256
1.4	AWOIS #53262 - 306/49	Wreck	15.02 m	33° 39' 07.1" N	118° 02' 51.2" W	53262
1.5	AWOIS #50948 - 0002	Obstruction	[None]	33° 44' 44.1" N	118° 13' 15.5" W	50948
1.6	AWOIS #53271 - 0003	Obstruction	[None]	33° 37' 25.6" N	118° 00' 04.1" W	53271
1.7	AWOIS #51791 - 0001	Wreck	[None]	33° 37' 30.3" N	117° 59' 53.3" W	51791

1.8	AWOIS #53267/53272 - 0001	Obstruction	[None]	33° 37' 17.1" N	117° 59' 54.0" W	53267
1.9	AWOIS #53274 - 0004	Obstruction	[None]	33° 36' 55.4" N	117° 58' 53.3" W	53274
1.10	AWOIS #53273 - 0006	Obstruction	[None]	33° 37' 07.2" N	117° 59' 19.5" W	53273
1.11	OBSTRUCTION	AWOIS	[no data]	[no data]	[no data]	
1.12	OBSTRUCTION	AWOIS	[no data]	[no data]	[no data]	
1.13	OBSTRUCTION	AWOIS	[no data]	[no data]	[no data]	
1.14	OBSTRUCTION	AWOIS	[no data]	[no data]	[no data]	
1.15	OBSTRUCTION	AWOIS	[no data]	[no data]	[no data]	
1.16	OBSTRUCTION	AWOIS	[no data]	[no data]	[no data]	
1.17		AWOIS	[no data]	[no data]	[no data]	
1.18	AWOIS #53257 - 0001	SSS	[None]	33° 43' 37.1" N	118° 07' 52.4" W	53257
1.19	AWOIS #52885/DTON #1 - 250/13	Stationary structure, floating or fixed	11.19 m	33° 45' 09.5" N	118° 13' 41.6" W	52885
1.20	AWOIS #50963/DTON #3 - 349/123	Obstruction	7.31 m	33° 44' 42.5" N	118° 14' 18.6" W	50963
1.21	AWOIS #52888/DTON #5 - 0003	Stationary structure, floating or fixed	[None]	33° 45' 06.2" N	118° 13' 48.6" W	52888



F00507 - AWOIS Items 1 - DR\_AWOIS

#### 1.1) AWOIS # 50947 - 579/64

#### **Primary Feature for AWOIS Item #50947**

**Search Position:** 33° 44′ 34.1″ N, 118° 14′ 00.3″ W

Historical Depth: [None]
Search Radius: 100

Search Technique: [unknown]
Technique Notes: [unknown]

**History Notes:** 

[unknown]

#### **Survey Summary**

**Survey Position:** 33° 44′ 35.5″ N, 118° 14′ 00.5″ W

**Least Depth:** 12.82 m = 42.07 ft = 7.011 fm = 7 fm = 0.07 ft

**TPU** ( $\pm 1.96\sigma$ ): **THU** (**TPEh**)  $\pm 7.869$  m; **TVU** (**TPEv**)  $\pm 0.228$  m

**Timestamp:** 2005-229.21:51:52.335 (08/17/2005)

**Survey Line:** f00507 / nrt6\_s3003\_em3000 / 2005-229 / 013\_2150

**Profile/Beam:** 579/64

**Charts Affected:** 18751\_1, 18749\_1, 18746\_1, 18740\_1, 18022\_1, 18020\_1, 501\_1, 530\_1, 50\_1

#### Remarks:

The feature is a scattered pile of loose debris imaged by KLEIN 3000 side scan sonar. Soundings were acquired by SIMRAD EM3000 MBES and corrected to MLLW using observed water levels and preliminary tide zoning. Aside from this isolated pile of debris, the charted pier ruins were not evident in either the side scan sonar imagery or the digital terrain model.

#### **Feature Correlation**

Address	Feature	Range	Azimuth	Status
f00507/nrt6_s3003_em3000/2005-229/013_2150	579/64	0.00	0.000	Primary
LA AWOIS_Assigned	AWOIS # 50947	43.62	351.0	Secondary

## **Hydrographer Recommendations**

Delete charted pier ruins at 33°44'34.060" N, 118°14'00.250" W. Chart a dangerous obstruction, least depth 12.8 m (42 feet) at the present surveyed position.

#### **Cartographically-Rounded Depth (Affected Charts):**

```
42ft (18751_1, 18749_1)
7fm (18746_1, 18740_1, 18022_1, 18020_1, 530_1)
12.8m (501_1, 50_1)
```

S-57 Data

[None]

#### **Office Notes**

Concur. Remove charted pier ruins. Chart 42Ft Obstn.

### 1.2) AWOIS #53259 - 652/123

### **Primary Feature for AWOIS Item #53259**

**Search Position:** 33° 44′ 12.1″ N, 118° 07′ 33.2″ W

**Historical Depth:** [None] **Search Radius:** 200

Search Technique: [unknown]
Technique Notes: [unknown]

**History Notes:** 

[unknown]

### **Survey Summary**

**Survey Position:** 33° 44′ 09.7″ N, 118° 07′ 35.5″ W

**Least Depth:** 5.99 m = 19.65 ft = 3.275 fm = 3 fm = 1.65 ft

**TPU** ( $\pm 1.96\sigma$ ): **THU** (**TPEh**)  $\pm 7.892$  m; **TVU** (**TPEv**)  $\pm 0.233$  m

**Timestamp:** 2005-307.22:46:33.324 (11/03/2005)

**Survey Line:** f00507 / nrt6\_s3003\_em3000\_nad83 / 2005-307 / 012\_2245

**Profile/Beam:** 652/123

**Charts Affected:** 18749\_1, 18746\_1, 18740\_1, 18022\_1, 18020\_1, 501\_1, 530\_1, 50\_1

#### Remarks:

The feature is a charted wreck (AWOIS #53259). Imagery was acquired with KLEIN 3000 side scan sonar. Soundings were acquired by SIMRAD EM3000 MBES and corrected to MLLW using observed water levels with preliminary tide zoning.

Address	Feature	Range	Azimuth	Status
f00507/nrt6_s3003_em3000_nad83/2005-307/012_2245	652/123	0.00	0.000	Primary
LA AWOIS_Assigned	AWOIS # 53259	93.99	217.6	Secondary

# **Hydrographer Recommendations**

Delete the charted dangerous wreck, depth unknown at 33°44'12.060" N, 118°07'33.230" W. Chart a dangerous wreck, least depth 6 m (19.7 feet) at the present survey position.

#### **Cartographically-Rounded Depth (Affected Charts):**

```
19ft (18749_1)
3 ¼fm (18746_1, 18740_1, 18022_1, 18020_1, 530_1)
6.0m (501_1, 50_1)
```

S-57 Data

[None]

#### **Office Notes**

Concur. Remove charted Wk. Chart 25Ft Wk in surveyed position.

#### 1.3) AWOIS #53256 - 1070/41

### **Primary Feature for AWOIS Item #53256**

**Search Position:** 33° 45′ 17.1″ N, 118° 08′ 48.2″ W

**Historical Depth:** [None] **Search Radius:** 150

Search Technique: [unknown]
Technique Notes: [unknown]

**History Notes:** 

[unknown]

### **Survey Summary**

**Survey Position:** 33° 45′ 17.0″ N, 118° 08′ 49.6″ W

**Least Depth:** 5.70 m = 18.69 ft = 3.115 fm = 3 fm 0.69 ft

**TPU** ( $\pm$ **1.96** $\sigma$ ): THU (**TPEh**)  $\pm$ 7.866 m; TVU (**TPEv**)  $\pm$ 0.227 m

**Timestamp:** 2005-307.22:32:22.180 (11/03/2005)

**Survey Line:** f00507 / nrt6\_s3003\_em3000\_nad83 / 2005-307 / 014\_2231

**Profile/Beam:** 1070/41

**Charts Affected:** 18749\_1, 18746\_1, 18740\_1, 18022\_1, 18020\_1, 501\_1, 530\_1, 50\_1

#### Remarks:

The feature is a charted pile (AWOIS #53256). This pile was located with SIMRAD EM3000 MBES and KLEIN 3000 SSS. Soundings were corrected to MLLW using observed water levels and preliminary tide zoning.

Address	Feature	Range	Azimuth	Status
f00507/nrt6_s3003_em3000_nad83/2005-307/014_2231	1070/41	0.00	0.000	Primary
f00507/nrt6_s3003_klein3000_sss200/2005-285/sonar_data051012124600	0001	4.43	087.1	Secondary
LA AWOIS_Assigned	AWOIS # 53256	34.26	269.1	Secondary (grouped)

# **Hydrographer Recommendations**

Delete charted Pile Rep PA. Chart a dangerous submerged pile, least depth 5.7m (18.7 feet) at the present survey position.

#### **Cartographically-Rounded Depth (Affected Charts):**

```
18ft (18749_1)
3fm (18746_1, 18740_1, 18022_1, 18020_1, 530_1)
5.7m (501_1, 50_1)
```

### S-57 Data

[None]

#### **Office Notes**

Concur. Delete charted Pile Rep. PA. Chart Pile in current surveyed position.

### 1.4) AWOIS #53262 - 306/49

### **Primary Feature for AWOIS Item #53262**

**Search Position:** 33° 39′ 06.8″ N, 118° 02′ 52.9″ W

**Historical Depth:** [None] **Search Radius:** 250

Search Technique: [unknown]
Technique Notes: [unknown]

**History Notes:** 

[unknown]

### **Survey Summary**

**Survey Position:** 33° 39' 07.1" N, 118° 02' 51.2" W

**Least Depth:** 15.02 m = 49.26 ft = 8.210 fm = 8 fm = 1.26 ft

**TPU** ( $\pm 1.96\sigma$ ): THU (TPEh)  $\pm 7.871$  m; TVU (TPEv)  $\pm 0.228$  m

**Timestamp:** 2005-312.20:17:57.107 (11/08/2005)

**Survey Line:** f00507 / nrt6\_s3003\_em3000\_nad83 / 2005-312 / 076\_2016

**Profile/Beam:** 306/49

**Charts Affected:** 18746\_1, 18740\_1, 18022\_1, 18020\_1, 501\_1, 530\_1, 50\_1

#### Remarks:

The feature is a charted wreck (AWOIS #53262) imaged by KLEIN 3000 side scan sonar. Soundings were acquired by SIMRAD EM3000 MBES and corrected to MLLW using observed water levels with preliminary tide zoning.

#### **Feature Correlation**

Address	Feature	Range	Azimuth	Status
f00507/nrt6_s3003_em3000_nad83/2005-312/076_2016	306/49	0.00	0.000	Primary
LA AWOIS_Assigned	AWOIS # 53262	44.32	075.2	Secondary

## **Hydrographer Recommendations**

Delete the charted dangerous wreck, depth unknown at 33°39'06.770" N, 118°02'52.920" W. Chart a dangerous sunken wreck, least depth 15 m (49.2 feet) as per current survey findings.

#### **Cartographically-Rounded Depth (Affected Charts):**

8 ¼fm (18746\_1, 18740\_1, 18022\_1, 18020\_1, 530\_1) 15.0m (501\_1, 50\_1)

## S-57 Data

Geo object 1: Wreck (WRECKS)

**Attributes:** CATWRK - 2:dangerous wreck

TECSOU - 1,2:found by echo-sounder,found by side scan sonar

VALSOU - 15.015 m

WATLEV - 3:always under water/submerged

### **Office Notes**

Concur with clarification. Update charted subm. Wk with LD 49Ft.

### 1.5) AWOIS #50948 - 0002

### **Primary Feature for AWOIS Item #50948**

**Search Position:** 33° 44′ 45.1″ N, 118° 13′ 18.2″ W

**Historical Depth:** 8.84 m **Search Radius:** 150

Search Technique: [unknown]
Technique Notes: [unknown]

**History Notes:** 

[unknown]

### **Survey Summary**

**Survey Position:** 33° 44′ 44.1″ N, 118° 13′ 15.5″ W

**Least Depth:** [None]

TPU ( $\pm 1.96\sigma$ ): THU (TPEh) [None]; TVU (TPEv) [None]

**Timestamp:** 2005-238.09:20:32 (08/26/2005)

**Survey Line:** f00507 / nrt6\_s3003\_klein3000\_sss100 / 2005-237 / sonar\_data050825142100

Contact/Point: 0002/1

**Charts Affected:** 18751\_1, 18749\_1, 18746\_1, 18740\_1, 18022\_1, 18020\_1, 501\_1, 530\_1, 50\_1

#### Remarks:

The feature is one of a series of charted ruins. Imagery was acquired with KLEIN 3000 side scan sonar. There is no bathymetry for these ruins.

Address	Feature	Range	Azimuth	Status
f00507/nrt6_s3003_klein3000_sss100/2005-237/sonar_data050825142100	0002	0.00	0.000	Primary
f00507/nrt6_s3003_klein3000_sss200/2005-237/sonar_data050825143200	0005	5.71	114.5	Secondary (grouped)
f00507/nrt6_s3003_klein3000_sss100/2005-237/sonar_data050825142100	0007	12.83	356.1	Secondary (grouped)
f00507/nrt6_s3003_klein3000_sss100/2005-237/sonar_data050825142400	0004	36.69	185.5	Secondary (grouped)
f00507/nrt6_s3003_klein3000_sss200/2005-237/sonar_data050825143200	0006	37.30	186.5	Secondary (grouped)
f00507/nrt6_s3003_klein3000_sss200/2005-285/sonar_data051012113600	0003	44.16	198.9	Secondary (grouped)
f00507/nrt6_s3003_klein3000_sss200/2005-237/sonar_data050825143600	0004	46.36	195.9	Secondary (grouped)
f00507/nrt6_s3003_klein3000_sss200/2005-237/sonar_data050825143200	0007	73.31	187.5	Secondary (grouped)

f00507/nrt6_s3003_klein3000_sss200/2005-237/sonar_data050825143600	0001	75.87	192.3	Secondary (grouped)
LA AWOIS_Assigned	AWOIS # 50948	76.60	112.3	Secondary (grouped)
f00507/nrt6_s3003_klein3000_sss200/2005-285/sonar_data051012113600	0002	90.60	091.8	Secondary (grouped)
f00507/nrt6_s3003_klein3000_sss200/2005-237/sonar_data050825143200	0004	94.24	112.3	Secondary (grouped)
f00507/nrt6_s3003_klein3000_sss200/2005-237/sonar_data050825143200	0001	97.54	088.4	Secondary (grouped)
f00507/nrt6_s3003_klein3000_sss200/2005-237/sonar_data050825143600	0002	99.06	113.9	Secondary (grouped)
f00507/nrt6_s3003_klein3000_sss100/2005-237/sonar_data050825142100	0005	99.56	089.5	Secondary (grouped)
f00507/nrt6_s3003_klein3000_sss100/2005-237/sonar_data050825142400	0003	99.81	113.6	Secondary (grouped)
f00507/nrt6_s3003_klein3000_sss100/2005-237/sonar_data050825142400	0001	100.26	093.1	Secondary (grouped)
f00507/nrt6_s3003_klein3000_sss100/2005-237/sonar_data050825142100	0006	109.99	070.6	Secondary (grouped)

# **Hydrographer Recommendations**

Retain as charted.

S-57 Data

[None]

**Office Notes** 

Concur. Retain as charted.

#### 1.6) AWOIS #53271 - 0003

### **Primary Feature for AWOIS Item #53271**

**Search Position:** 33° 37′ 25.4″ N, 118° 00′ 04.6″ W

Historical Depth: [None]
Search Radius: 300

Search Technique: [unknown]
Technique Notes: [unknown]

**History Notes:** 

[unknown]

### **Survey Summary**

**Survey Position:** 33° 37′ 25.6″ N, 118° 00′ 04.1″ W

**Least Depth:** [None]

TPU ( $\pm 1.96\sigma$ ): THU (TPEh) [None]; TVU (TPEv) [None]

**Timestamp:** 2005-347.04:28:56 (12/13/2005)

**Survey Line:** f00507 / nrt6\_s3003\_klein3000\_sss100 / 2005-320 / sonar\_data051116132700

**Contact/Point:** 0003/1

**Charts Affected:** 18746\_1, 18740\_1, 18022\_1, 18020\_1, 501\_1, 530\_1, 50\_1

#### Remarks:

The feature is a large pile of debris forming a charted fish haven (AWOIS #53271). Imagery of this fish haven was acquired with KLEIN 3000 side scan sonar. There is no bathymetry for this position.

Address	Feature	Range	Azimuth	Status
f00507/nrt6_s3003_klein3000_sss100/2005-320/sonar_data051116132700	0003	0.00	0.000	Primary
LA AWOIS_Assigned	AWOIS # 53271	15.15	060.8	Secondary
f00507/nrt6_s3003_klein3000_sss100/2005-320/sonar_data051116132700	0001	45.63	047.9	Secondary (grouped)
f00507/nrt6_s3003_klein3000_sss200/2006-053/sonar_data060222113800	0012	49.21	045.7	Secondary (grouped)
f00507/nrt6_s3003_klein3000_sss200/2006-053/sonar_data060222113800	0013	54.14	302.7	Secondary (grouped)
f00507/nrt6_s3003_klein3000_sss200/2006-053/sonar_data060222113800	0011	66.32	100.9	Secondary (grouped)
f00507/nrt6_s3003_klein3000_sss100/2005-320/sonar_data051116132700	0004	78.40	137.3	Secondary (grouped)
f00507/nrt6_s3003_klein3000_sss200/2006-053/sonar_data060222120000	0002	81.04	142.0	Secondary (grouped)

f00507/nrt6_s3003_klein3000_sss200/2006-053/sonar_data060222120000	0004	107.15	126.7	Secondary (grouped)
f00507/nrt6_s3003_klein3000_sss200/2006-053/sonar_data060222113800	0010	114.09	124.8	Secondary (grouped)
f00507/nrt6_s3003_klein3000_sss200/2006-053/sonar_data060222120000	0003	123.23	138.7	Secondary (grouped)
f00507/nrt6_s3003_klein3000_sss200/2006-053/sonar_data060222120000	0001	136.11	129.8	Secondary (grouped)
f00507/nrt6_s3003_klein3000_sss100/2005-320/sonar_data051116131800	0002	145.41	127.9	Secondary (grouped)
f00507/nrt6_s3003_klein3000_sss200/2006-053/sonar_data060222113800	0009	146.18	128.0	Secondary (grouped)

# **Hydrographer Recommendations**

Chart obstructions, least depth unknown, at the present survey positions.

S-57 Data

[None]

**Office Notes** 

Do not concur. Retain as charted.

#### 1.7) AWOIS #51791 - 0001

## **Primary Feature for AWOIS Item #51791**

**Search Position:** 33° 37′ 30.7″ N, 117° 59′ 53.5″ W

**Historical Depth:** [None] **Search Radius:** 75

Search Technique: [unknown]
Technique Notes: [unknown]

**History Notes:** 

[unknown]

### **Survey Summary**

**Survey Position:** 33° 37′ 30.3″ N, 117° 59′ 53.3″ W

**Least Depth:** [None]

TPU ( $\pm 1.96\sigma$ ): THU (TPEh) [None]; TVU (TPEv) [None]

**Timestamp:** 2005-327.03:59:10 (11/23/2005)

**Survey Line:** f00507 / nrt6\_s3003\_klein3000\_sss100 / 2005-320 / sonar\_data051116134700

**Contact/Point:** 0001/1

**Charts Affected:** 18746\_1, 18740\_1, 18022\_1, 18020\_1, 501\_1, 530\_1, 50\_1

#### Remarks:

The feature is a charted wreck. Imagery was acquired by KLEIN 3000 side scan sonar. There is no bathymetry for this position.

#### **Feature Correlation**

Address	Feature	Range	Azimuth	Status
f00507/nrt6_s3003_klein3000_sss100/2005-320/sonar_data051116134700	0001	0.00	0.000	Primary
LA AWOIS_Assigned	AWOIS # 51791	13.94	159.6	Secondary

# **Hydrographer Recommendations**

Chart a dangerous wreck, least depth unknown, at the present survey position.

# S-57 Data

[None]

# **Office Notes**

Do not concur. Retain as charted

#### 1.8) AWOIS #53267/53272 - 0001

### **Primary Feature for AWOIS Item #53267**

**Search Position:** 33° 37′ 17.8″ N, 117° 59′ 55.5″ W

Historical Depth: [None]
Search Radius: 200

Search Technique: [unknown]
Technique Notes: [unknown]

**History Notes:** 

[unknown]

### **Survey Summary**

**Survey Position:** 33° 37′ 17.1″ N, 117° 59′ 54.0″ W

**Least Depth:** [None]

TPU ( $\pm 1.96\sigma$ ): THU (TPEh) [None]; TVU (TPEv) [None]

**Timestamp:** 2006-054.07:37:12 (02/23/2006)

**Survey Line:** f00507 / nrt6\_s3003\_klein3000\_sss200 / 2006-053 / sonar\_data060222111600

**Contact/Point:** 0001/1

**Charts Affected:** 18746\_1, 18740\_1, 18022\_1, 18020\_1, 501\_1, 530\_1, 50\_1

#### Remarks:

The feature is a cluster of debris piles forming a charted fish haven (AWOIS #53272). Imagery was acquired with KLEIN 3000 side scan sonar. There is no bathymetry for this position.

Address	Feature	Range	Azimuth	Status
f00507/nrt6_s3003_klein3000_sss200/2006-053/sonar_data060222111600	0001	0.00	000.0	Primary
f00507/nrt6_s3003_klein3000_sss100/2005-320/sonar_data051116135600	0002	2.49	221.0	Secondary (grouped)
LA AWOIS_Assigned	AWOIS # 53267	42.76	118.7	Secondary (grouped)
f00507/nrt6_s3003_klein3000_sss200/2006-053/sonar_data060222113800	0007	52.84	152.0	Secondary (grouped)
f00507/nrt6_s3003_klein3000_sss100/2005-320/sonar_data051116135600	0003	75.99	336.2	Secondary (grouped)
f00507/nrt6_s3003_klein3000_sss200/2006-053/sonar_data060222113800	0008	121.16	143.7	Secondary (grouped)
LA AWOIS_Assigned	AWOIS # 53272	164.48	188.2	Secondary (grouped)

# **Hydrographer Recommendations**

Delete charted obstruction (fish haven) located at 33°37'22.400" N, 117°59'53.120" W. Chart a dangerous obstruction (Fish haven) at the present surveyed position.

S-57 Data

[None]

**Office Notes** 

Do not concur. Retain as charted.

#### 1.9) AWOIS #53274 - 0004

### **Primary Feature for AWOIS Item #53274**

**Search Position:** 33° 37′ 00.7″ N, 117° 58′ 56.2″ W

**Historical Depth:** [None] **Search Radius:** 300

Search Technique: [unknown]
Technique Notes: [unknown]

**History Notes:** 

[unknown]

### **Survey Summary**

**Survey Position:** 33° 36′ 55.4″ N, 117° 58′ 53.3″ W

**Least Depth:** [None]

TPU ( $\pm 1.96\sigma$ ): THU (TPEh) [None]; TVU (TPEv) [None]

**Timestamp:** 2006-054.07:41:37 (02/23/2006)

**Survey Line:** f00507 / nrt6\_s3003\_klein3000\_sss200 / 2006-053 / sonar\_data060222113800

**Contact/Point:** 0004/1

**Charts Affected:** 18746\_1, 18740\_1, 18022\_1, 18020\_1, 501\_1, 530\_1, 50\_1

#### Remarks:

The feature is a large debris pile forming a fish haven (AWOIS #53274). Imagery of this fish haven was acquired with KLEIN 3000 side scan sonar. There is no bathymetry data for this position.

#### **Feature Correlation**

Address	Feature	Range	Azimuth	Status
f00507/nrt6_s3003_klein3000_sss200/2006-053/sonar_data060222113800	0004	0.00	0.000	Primary
LA AWOIS_Assigned	AWOIS # 53274	179.57	155.5	Secondary

## **Hydrographer Recommendations**

Delete the charted fish haven at 33°37'00.700" N, 117°58'56.210" W. Chart a fish haven, least depth unknown, at the present surveyed position.

# S-57 Data

[None]

# **Office Notes**

Do not concur. Retain as charted.

### 1.10) AWOIS #53273 - 0006

### **Primary Feature for AWOIS Item #53273**

**Search Position:** 33° 37′ 09.4″ N, 117° 59′ 32.1″ W

**Historical Depth:** [None]

Search Radius: 0

Search Technique: [unknown]
Technique Notes: [unknown]

**History Notes:** 

[unknown]

### **Survey Summary**

**Survey Position:** 33° 37′ 07.2" N, 117° 59′ 19.5" W

**Least Depth:** [None]

TPU ( $\pm 1.96\sigma$ ): THU (TPEh) [None]; TVU (TPEv) [None]

**Timestamp:** 2006-054.07:43:51 (02/23/2006)

**Survey Line:** f00507 / nrt6\_s3003\_klein3000\_sss200 / 2006-053 / sonar\_data060222113800

**Contact/Point:** 0006/1

**Charts Affected:** 18746\_1, 18740\_1, 18022\_1, 18020\_1, 501\_1, 530\_1, 50\_1

#### Remarks:

The feature is a group of debris piles forming a charted fish haven (AWOIS #53273). Imagery over this debris pile was acquired with KLEIN 3000 side scan sonar. There is no bathymetry for this position.

Address	Feature	Range	Azimuth	Status
f00507/nrt6_s3003_klein3000_sss200/2006-053/sonar_data060222113800	0006	0.00	0.000	Primary
f00507/nrt6_s3003_klein3000_sss100/2006-053/sonar_data060222135900	0002	4.50	276.7	Secondary
f00507/nrt6_s3003_klein3000_sss200/2006-053/sonar_data060222113800	0005	112.22	333.9	Secondary (grouped)
f00507/nrt6_s3003_klein3000_sss200/2006-053/sonar_data060222120000	0005	153.76	148.6	Secondary (grouped)
LA AWOIS_Assigned	AWOIS # 53273	327.84	101.9	Secondary (grouped)

# **Hydrographer Recommendations**

Delete the charted fish haven at 33°37'09.440" N, 117°59'32.060" W. Chart Obstrns, Fish Havens at the present surveyed positions.

S-57 Data

[None]

**Office Notes** 

Do not concur. Retain as charted.

#### **1.11) AWOIS #52876 - OBSTRUCTION**

### No Primary Survey Feature for this AWOIS Item

**Search Position:** 33° 45′ 16.9″ N, 118° 16′ 51.6″ W

**Historical Depth:** [None] **Search Radius:** 75

Search Technique: [unknown]
Technique Notes: [unknown]

**History Notes:** 

[unknown]

## **Survey Summary**

**Charts Affected:** 18751\_1, 18749\_1, 18746\_1, 18740\_1, 18022\_1, 18020\_1, 501\_1, 530\_1, 50\_1

#### Remarks:

Awois item #52876 investigated with 200% SSS and 200% MB (Survey H11471). Dols not located.

#### **Feature Correlation**

Address		Feature	Range	Azimuth	Status
	LA AWOIS_Assigned	AWOIS # 52876	0.00	0.000	Primary

## **Hydrographer Recommendations**

Remove charted Submerged Dolphins. Chart new bathymetry as per current survey findings (survey H11471).

S-57 Data

[None]

#### **Office Notes**

Do not concur. No MBES,SBES, or SSS was submitted for this position. Retain as charted.

#### **1.12) AWOIS #52884 - OBSTRUCTION**

## No Primary Survey Feature for this AWOIS Item

**Search Position:** 33° 45′ 12.4″ N, 118° 13′ 34.3″ W

**Historical Depth:** [None] **Search Radius:** 75

Search Technique: [unknown]
Technique Notes: [unknown]

**History Notes:** 

[unknown]

## **Survey Summary**

**Charts Affected:** 18751\_1, 18749\_1, 18746\_1, 18740\_1, 18022\_1, 18020\_1, 501\_1, 530\_1, 50\_1

#### Remarks:

A 200% side scan sonar search for AWOIS #52884 was conducted. No features were found.

#### **Feature Correlation**

Address	Feature	Range	Azimuth	Status
LA AWOIS_Assigned	AWOIS # 52884	0.00	0.000	Primary

## **Hydrographer Recommendations**

AWOIS #52884 is disproved. Delete charted dolphins.

S-57 Data

[None]

#### **Office Notes**

Concur with clarification. Charted dols were removed during dredging. See Appendix V for further information.

#### **1.13) AWOIS #53261 - OBSTRUCTION**

### No Primary Survey Feature for this AWOIS Item

**Search Position:** 33° 42′ 21.0″ N, 118° 04′ 02.0″ W

**Historical Depth:** [None] **Search Radius:** 200

Search Technique: [unknown]
Technique Notes: [unknown]

**History Notes:** 

[unknown]

## **Survey Summary**

**Charts Affected:** 18749\_1, 18746\_1, 18740\_1, 18022\_1, 18020\_1, 501\_1, 530\_1, 50\_1

#### Remarks:

A 200% SSS survey was conducted on AWOIS #53261, a charted obstruction PA. No contacts were found.

#### **Feature Correlation**

Address		Feature	Range	Azimuth	Status	
	LA AWOIS_Assigned	AWOIS # 53261	0.00	0.000	Primary	

## **Hydrographer Recommendations**

Remove charted obstruction from chart.

S-57 Data

[None]

**Office Notes** 

Concur. Remove charted Obstn PA.

### 1.14) AWOIS #53266 - OBSTRUCTION

### No Primary Survey Feature for this AWOIS Item

**Search Position:** 33° 43′ 03.1″ N, 118° 05′ 38.0″ W

Historical Depth: [None]
Search Radius: 200

Search Technique: [unknown]
Technique Notes: [unknown]

**History Notes:** 

[unknown]

## **Survey Summary**

**Charts Affected:** 18749\_1, 18746\_1, 18740\_1, 18022\_1, 18020\_1, 501\_1, 530\_1, 50\_1

Remarks:

A 200% SSS survey was conducted on AWOIS #53266. No contacts were found.

#### **Feature Correlation**

Address	Feature	Range	Azimuth	Status
LA AWOIS_Assigned	AWOIS # 53266	0.00	0.000	Primary

## **Hydrographer Recommendations**

Delete charted dolphin.

S-57 Data

[None]

**Office Notes** 

Concur. Remove charted Dol PA.

#### **1.15) AWOIS #53268 - OBSTRUCTION**

### No Primary Survey Feature for this AWOIS Item

**Search Position:** 33° 38′ 00.7″ N, 118° 01′ 03.2″ W

**Historical Depth:** [None] **Search Radius:** 350

Search Technique: [unknown]
Technique Notes: [unknown]

**History Notes:** 

[unknown]

## **Survey Summary**

**Charts Affected:** 18746\_1, 18740\_1, 18022\_1, 18020\_1, 501\_1, 530\_1, 50\_1

#### Remarks:

A 200% side scan sonar search was performed for AWOIS #53268. No contacts were found.

#### **Feature Correlation**

Address	Feature	Range	Azimuth	Status
LA AWOIS_Assigned	AWOIS # 53268	0.00	0.000	Primary

## **Hydrographer Recommendations**

AWOIS #53268 is disproved. Delete charted obstruction at 33°38'00.720" N, 118°01'03.220" W.

S-57 Data

[None]

#### **Office Notes**

Concur. Remove charted Obstn.

#### **1.16) AWOIS #53269 - OBSTRUCTION**

## No Primary Survey Feature for this AWOIS Item

**Search Position:** 33° 37′ 39.0″ N, 118° 00′ 26.2″ W

**Historical Depth:** [None] **Search Radius:** 350

Search Technique: [unknown]
Technique Notes: [unknown]

**History Notes:** 

[unknown]

## **Survey Summary**

**Charts Affected:** 18746\_1, 18740\_1, 18022\_1, 18020\_1, 501\_1, 530\_1, 50\_1

#### Remarks:

A 200% side scan sonar search for AWOIS #53269 was conducted. No contacts were found.

#### **Feature Correlation**

Address		Feature	Range	Azimuth	Status	
	LA AWOIS_Assigned	AWOIS # 53269	0.00	0.000	Primary	

## **Hydrographer Recommendations**

AWOIS #53269 is disproved. Delete the charted obstruction located at 33°37'39.000" N, 118°00'26.240".

S-57 Data

[None]

#### **Office Notes**

Concur. Remove charted Obstn.

### 1.17) AWOIS #53270 -

### No Primary Survey Feature for this AWOIS Item

**Search Position:** 33° 37′ 38.0″ N, 117° 59′ 53.7″ W

**Historical Depth:** [None] **Search Radius:** 350

Search Technique: [unknown]
Technique Notes: [unknown]

**History Notes:** 

[unknown]

## **Survey Summary**

**Charts Affected:** 18746\_1, 18740\_1, 18022\_1, 18020\_1, 501\_1, 530\_1, 50\_1

#### Remarks:

A 200% side scan sonar search for AWOIS #53270 was conducted by the field party. No contacts were found.

#### **Feature Correlation**

Address	Feature	Range	Azimuth	Status
LA AWOIS_Assigned	AWOIS # 53270	0.00	000.0	Primary

## **Hydrographer Recommendations**

AWOIS #53270 is disproved. Delete the charted obstruction at 33°37'38.000" N, 117°59'53.710" W.

S-57 Data

[None]

#### **Office Notes**

Concur. Remove charted Obstn.

#### 1.18) AWOIS #53257 - 0001

### **Primary Feature for AWOIS Item #53257**

**Search Position:** 33° 43′ 37.2″ N, 118° 07′ 52.0″ W

**Historical Depth:** [None] **Search Radius:** 200

Search Technique: [unknown]
Technique Notes: [unknown]

**History Notes:** 

[unknown]

### **Survey Summary**

**Survey Position:** 33° 43′ 37.1″ N, 118° 07′ 52.4″ W

**Least Depth:** [None]

TPU ( $\pm 1.96\sigma$ ): THU (TPEh) [None]; TVU (TPEv) [None]

**Timestamp:** 2006-184.05:32:59 (07/03/2006)

**Survey Line:** f00507 / nrt6\_s3003\_klein3000\_sss200 / 2005-285 / sonar\_data051012135300

**Contact/Point:** 0001/1

**Charts Affected:** 18749\_1, 18746\_1, 18740\_1, 18022\_1, 18020\_1, 501\_1, 530\_1, 50\_1

#### Remarks:

The feature is a charted obstruction. A 200% SSS survey was conducted on AWOIS #53257. Two contacts were found. No bathymetry was collected.

#### **Feature Correlation**

Address	Feature	Range	Azimuth	Status
f00507/nrt6_s3003_klein3000_sss200/2005-285/sonar_data051012135300	0001	0.00	0.000	Primary
LA AWOIS_Assigned	AWOIS # 53257	8.31	258.9	Secondary
f00507/nrt6_s3003_klein3000_sss100/2005-285/sonar_data051012141300	0001	9.19	303.0	Secondary

# **Hydrographer Recommendations**

Retain as charted.

# S-57 Data

[None]

# **Office Notes**

Concur. Retain as charted.

#### 1.19) AWOIS #52885/DTON #1 - 250/13

#### DANGER TO NAVIGATION

#### **Primary Feature for AWOIS Item #52885**

**Search Position:** 33° 45′ 08.2" N, 118° 13′ 41.2" W

**Historical Depth:** [None]

**Search Radius:** 75

**Search Technique:** [unknown] **Technique Notes:** [unknown]

**History Notes:** 

[unknown]

#### **Survey Summary**

**Survey Position:** 33° 45′ 09.5″ N, 118° 13′ 41.6″ W

**Least Depth:** 11.19 m (= 36.71 ft = 6.118 fm = 6 fm 0.71 ft)

**TPU** ( $\pm$ **1.96** $\sigma$ ): THU (**TPEh**)  $\pm$ 7.882 m; TVU (**TPEv**)  $\pm$ 0.233 m

**Timestamp:** 2005-229.21:17:12.030 (08/17/2005)

**Survey Line:** f00507 / nrt6\_s3003\_em3000 / 2005-229 / 012\_2116

**Profile/Beam:** 250/13

**Charts Affected:** 18751\_1, 18749\_1, 18746\_1, 18740\_1, 18022\_1, 18020\_1, 501\_1, 530\_1, 50\_1

#### Remarks:

The feature is a submerged dolphin (AWOIS #52885) imaged with KLEIN 3000 side scan sonar. Soundings were acquired with SIMRAD EM3000 MBES and corrected to MLLW using observed water levels with preliminary tide zoning.

This feature was submitted as Danger to Navigation 'OPR-L418-NRT6-05\_DTON 1' on August 18th, 2005. Subsequent correspondence with the hydrographer of the Port of Long Beach revealed that this pile has been removed and DTON was retracted.

	Address	Feature	Range	Azimuth	Status
1	f00507/nrt6_s3003_em3000/2005-229/012_2116	250/13	0.00	0.000	Primary
	LA AWOIS_Assigned	AWOIS # 52885	42.06	345.0	Secondary

# **Hydrographer Recommendations**

Per correspondence with the harbormaster, this item has been removed. DTON has been retracted. Delete charted dolphins. See DR for additional information and supporting documentation.

#### **Cartographically-Rounded Depth (Affected Charts):**

```
36ft (18751_1, 18749_1)
6fm (18746_1, 18740_1, 18022_1, 18020_1, 530_1)
11.2m (501_1, 50_1)
```

S-57 Data

[None]

#### **Office Notes**

Concur with clarification. Remove charted dols based on dredging, see Appendix 5 for more information.

#### 1.20) AWOIS #50963/DTON #3 - 349/123

#### DANGER TO NAVIGATION

#### Primary Feature for AWOIS Item #50963

**Search Position:** 33° 44′ 42.4″ N, 118° 14′ 18.7″ W

**Historical Depth:** 0.79 m **Search Radius:** 100

**Search Technique:** [unknown] **Technique Notes:** [unknown]

**History Notes:** 

[unknown]

#### **Survey Summary**

**Survey Position:** 33° 44′ 42.5″ N, 118° 14′ 18.6″ W

**Least Depth:** 7.31 m = 23.99 ft = 3.999 fm = 3 fm = 5.99 ft

**TPU** ( $\pm 1.96\sigma$ ): THU (TPEh)  $\pm 7.888 \text{ m}$ ; TVU (TPEv)  $\pm 0.238 \text{ m}$ 

**Timestamp:** 2005-229.21:42:39.190 (08/17/2005)

**Survey Line:** f00507 / nrt6\_s3003\_em3000 / 2005-229 / 027\_2141

**Profile/Beam:** 349/123

**Charts Affected:** 18751\_1, 18749\_1, 18746\_1, 18740\_1, 18022\_1, 18020\_1, 501\_1, 530\_1, 50\_1

#### Remarks:

The feature is a cluster of three large and numerous small obstructions on a small rise in the water bottom. This obstruction was imaged with KLEIN 3000 SSS. Soundings were acquired by SIMRAD EM3000 MBES and corrected to MLLW using observed tides and preliminary tide zoning.

This feature was submitted as Danger to Navigation 'F00507 DTON #3' on July 5, 2006.

Corresponds to AWOIS #50963

Address	Feature	Range	Azimuth	Status
f00507/nrt6_s3003_em3000/2005-229/027_2141	349/123	0.00	0.000	Primary
LA AWOIS_Assigned	AWOIS # 50963	3.41	008.9	Secondary (grouped)
f00507/nrt6_s3003_klein3000_sss200/2005-285/sonar_data051012120200	0003	13.86	298.8	Secondary (grouped)

### **Hydrographer Recommendations**

Chart a dangerous obstruction, least depth 7.31 m (24 feet) at the present survey position.

#### **Cartographically-Rounded Depth (Affected Charts):**

```
24ft (18751_1, 18749_1)
4fm (18746_1, 18740_1, 18022_1, 18020_1, 530_1)
7.3m (501_1, 50_1)
```

#### S-57 Data

Geo object 1: Obstruction (OBSTRN)

**Attributes:** QUASOU - 1:depth known

TECSOU - 2,3:found by side scan sonar, found by multi-beam

VALSOU - 7.313 m

VERDAT - 12:Mean lower low water

WATLEV - 3:always under water/submerged

#### **Office Notes**

Concur with clarification. This item was previously charted as a 26ft OBSTN (AWOIS #50963) It was revised as a DtoN to a 24ft OBSTN.

The 24Ft OBSTN is already charted correctly on the continual update raster chart as of 06/18/2008.

[Image file H:/OPR-L418-NRT6-05/F00507/PSS/PSS Images/awois50963\_2.jpg does not exist.]

[Image file H:/OPR-L418-NRT6-05/F00507/PSS/PSS Images/awois50963\_1.jpg does not exist.]

#### 1.21) AWOIS #52888/DTON #5 - 0003

#### DANGER TO NAVIGATION

#### **Primary Feature for AWOIS Item #52888**

**Search Position:** 33° 45′ 06.3″ N, 118° 13′ 47.1″ W

**Historical Depth:** [None] **Search Radius:** 75

**Search Technique:** [unknown] **Technique Notes:** [unknown]

**History Notes:** 

[unknown]

#### **Survey Summary**

**Survey Position:** 33° 45′ 06.2″ N, 118° 13′ 48.6″ W

**Least Depth:** [None]

**TPU** ( $\pm 1.96\sigma$ ): **THU** (**TPEh**) [None]; **TVU** (**TPEv**) [None]

**Timestamp:** 2006-193.07:17:55 (07/12/2006)

**Survey Line:** f00507 / nrt6\_s3003\_klein3000\_sss200 / 2005-229 / sonar\_data050817131100

Contact/Point: 0003/1

**Charts Affected:** 18751\_1, 18749\_1, 18746\_1, 18740\_1, 18022\_1, 18020\_1, 501\_1, 530\_1, 50\_1

#### Remarks:

The feature is a pile at the southwesternmost end of the demolished Pier 2, Port of Long Beach. This pile is one of a group of ruins at what would have been the termination of Pier 2 prior to its demolition. Imagery was acquired with KLEIN 3000 side scan sonar. There is no bathymetry for this position.

This feature was submitted as a Danger to Navigation on July 12, 2006, DTON #5.

Address	Feature	Range	Azimuth	Status
f00507/nrt6_s3003_klein3000_sss200/2005-229/sonar_data050817131100	0003	0.00	0.000	Primary
f00507/nrt6_s3003_klein3000_sss200/2005-229/sonar_data050817131100	0014	6.73	255.4	Secondary (grouped)
f00507/nrt6_s3003_klein3000_sss200/2005-229/sonar_data050817131100	0007	17.24	158.3	Secondary (grouped)
f00507/nrt6_s3003_klein3000_sss200/2005-229/sonar_data050817131100	0005	23.99	252.3	Secondary (grouped)

f00507/nrt6_s3003_klein3000_sss100/2005-229/sonar_data050817130400	0005	27.53	263.8	Secondary
f00507/nrt6_s3003_klein3000_sss100/2005-229/sonar_data050817130400	0006	33.27	265.2	Secondary
f00507/nrt6_s3003_klein3000_sss200/2005-229/sonar_data050817131100	0004	36.29	251.2	Secondary (grouped)
f00507/nrt6_s3003_klein3000_sss200/2005-229/sonar_data050817131100	0008	37.01	161.9	Secondary (grouped)
f00507/nrt6_s3003_klein3000_sss200/2005-229/sonar_data050817131100	0006	38.13	241.6	Secondary (grouped)
LA AWOIS_Assigned	AWOIS # 52888	38.45	264.5	Secondary
f00507/nrt6_s3003_klein3000_sss100/2005-229/sonar_data050817130400	0002	40.65	239.0	Secondary
f00507/nrt6_s3003_klein3000_sss100/2005-229/sonar_data050817130400	0003	42.92	232.3	Secondary
f00507/nrt6_s3003_klein3000_sss100/2005-229/sonar_data050817130400	0004	46.82	218.1	Secondary
f00507/nrt6_s3003_klein3000_sss200/2005-229/sonar_data050817131100	0009	50.43	211.7	Secondary (grouped)
f00507/nrt6_s3003_klein3000_sss200/2005-229/sonar_data050817131100	0010	53.48	208.6	Secondary (grouped)
f00507/nrt6_s3003_klein3000_sss200/2005-229/sonar_data050817131100	0011	57.19	204.9	Secondary (grouped)
f00507/nrt6_s3003_klein3000_sss200/2005-229/sonar_data050817131100	0012	60.16	202.2	Secondary (grouped)
f00507/nrt6_s3003_klein3000_sss200/2005-229/sonar_data050817131100	0013	62.80	199.4	Secondary (grouped)
	-		-	

# **Hydrographer Recommendations**

Per correspondence with the harbormaster, this item has been removed. DTON has been retracted. No chart action is needed. See DR for additional information and supporting documentation.

S-57 Data

[None]

## **Office Notes**

Concur with clarification. Remove charted dols based on dredging, see Appendix 5 for more information

# F00507 - Charted Items

**Registry Number:** F00507

State: California

**Locality:** Los Angeles and Long Beach Harbour

**Sub-locality:** San Pedro Bay

**Project Number:** OPR-L418-NRT6-05

**Survey Date:** 06/30/2006

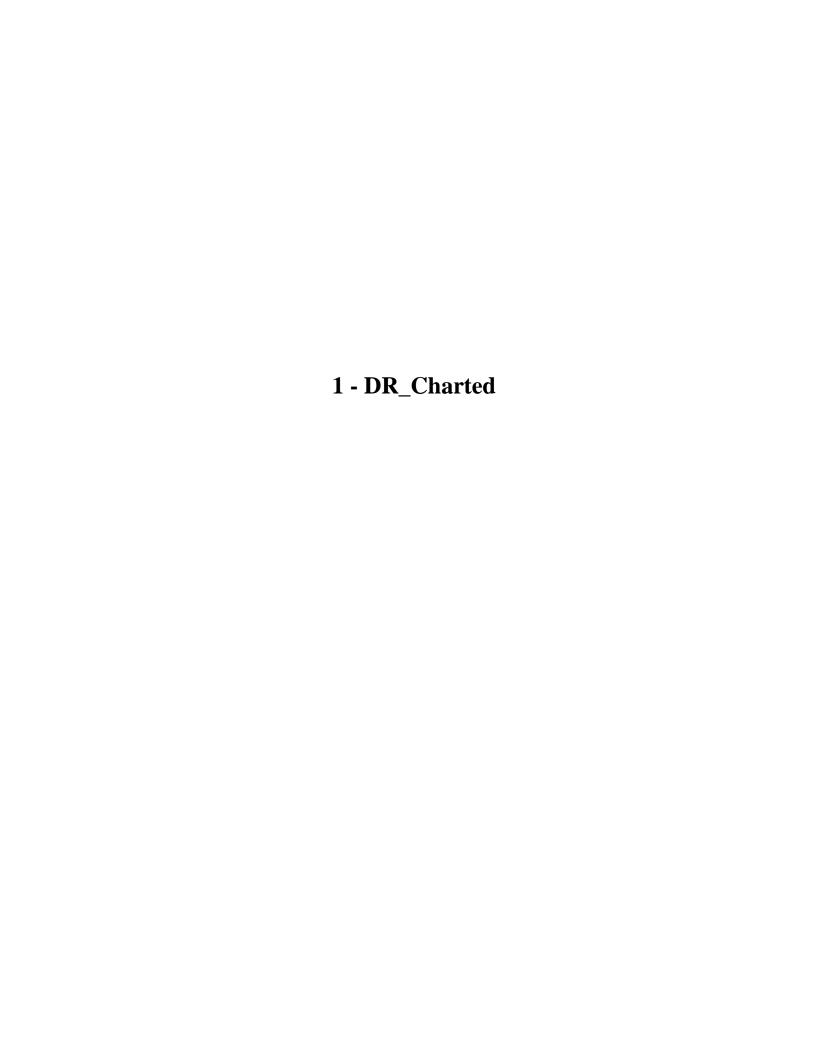
## **Charts Affected**

Number	Edition	Date	Scale (RNC)	RNC Correction(s)*
18746	37th	08/01/2007	1:80,000 (18746_1)	USCG LNM: 05/13/2008 (05/13/2008) NGA NTM: 05/21/2005 (05/24/2008)
18740	41st	04/01/2005	1:234,270 (18740_1)	[L]NTM: ?
18022	35th	08/01/2005	1:868,003 (18022_1)	[L]NTM: ?
18020	37th	09/01/2003	1:1,444,000 (18020_1)	[L]NTM: ?
501	12th	11/01/2002	1:3,500,000 (501_1)	[L]NTM: ?
530	31st	06/01/2005	1:4,860,700 (530_1)	[L]NTM: ?
50	6th	06/01/2003	1:10,000,000 (50_1)	[L]NTM: ?

<sup>\*</sup> Correction(s) - source: last correction applied (last correction reviewed--"cleared date")

#### **Features**

No.	Name	Feature Type	Survey Depth	Survey Latitude	Survey Longitude	AWOIS Item
1.1	0004	Obstruction	[None]	33° 37' 31.0" N	118° 00' 26.9" W	



F00507 - Charted Items 1 - DR\_Charted

# 1.1) 0004

# **Survey Summary**

**Survey Position:** 33° 37′ 31.0″ N, 118° 00′ 26.9″ W

Least Depth: [None]

TPU ( $\pm 1.96\sigma$ ): THU (TPEh) [None]; TVU (TPEv) [None]

**Timestamp:** 2006-181.10:01:35 (06/30/2006)

**Survey Line:** f00507 / nrt6\_s3003\_klein3000\_sss200 / 2006-053 / sonar\_data060222111600

**Contact/Point:** 0004/1

**Charts Affected:** 18746\_1, 18740\_1, 18022\_1, 18020\_1, 501\_1, 530\_1, 50\_1

#### Remarks:

The feature is a charted submerged buoy block. The buoy block is imaged with KLEIN 3000 side scan sonar. There is no bathymetry for this position.

## **Feature Correlation**

Address	Feature	Range	Azimuth	Status
f00507/nrt6_s3003_klein3000_sss200/2006-053/sonar_data060222111600	0004	0.00	0.000	Primary
ChartGPs - Digitized	1	96.22	300.2	Secondary (grouped)

# **Hydrographer Recommendations**

Delete "Obstn Subm buoy" at 33°37'29.448" N, 118°00'23.660" W. Chart an obstruction, least depth unknown, at the present surveyed position.

S-57 Data

[None]

**Office Notes** 

Do not concur. Retain as charted.

# F00507 - Uncharted Items

**Registry Number:** F00507

State: California

Locality: Los Angeles and Long Beach Harbour

**Sub-locality:** San Pedro Bay

**Project Number:** OPR-L418-NRT6-05

**Survey Date:** 06/30/2006

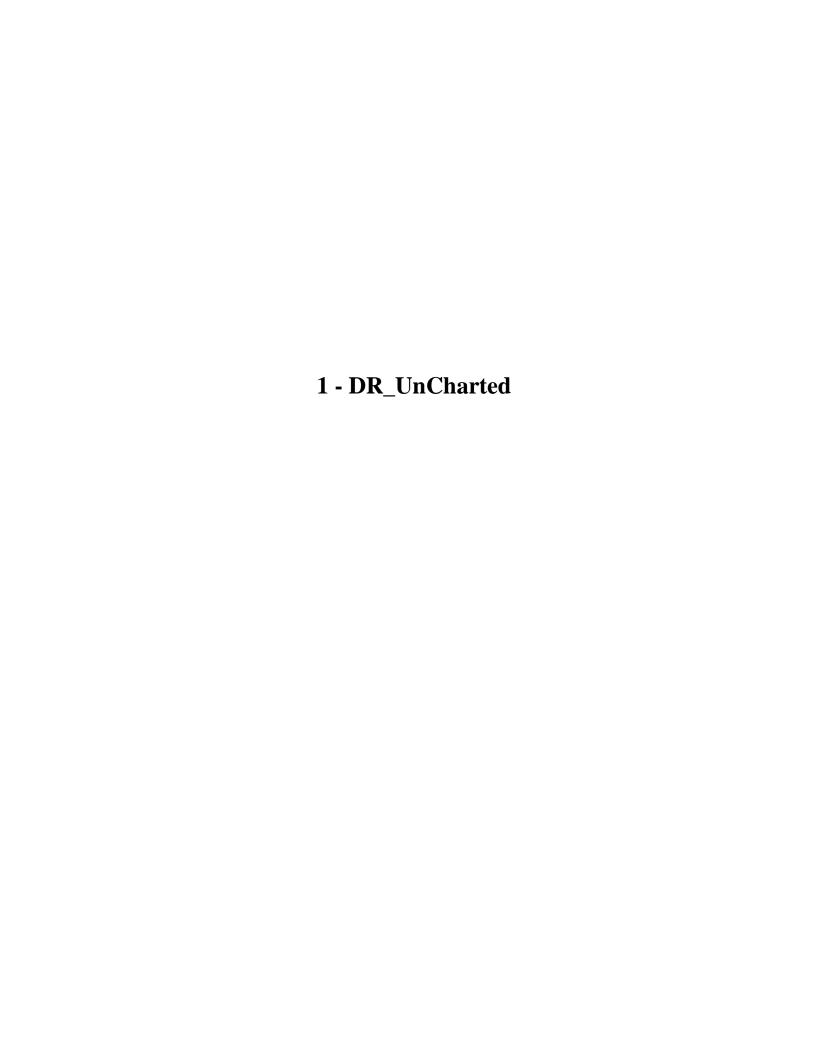
# **Charts Affected**

Number	Edition	Date	Scale (RNC)	RNC Correction(s)*
18751	45th	11/01/2007	1:12,000 (18751_1)	USCG LNM: 05/13/2008 (05/13/2008) NGA NTM: 06/22/1996 (05/24/2008)
18749	41st	08/01/2007	1:20,000 (18749_1)	USCG LNM: 03/25/2008 (03/25/2008) NGA NTM: 06/22/1996 (04/05/2008)
18746	37th	08/01/2007	1:80,000 (18746_1)	USCG LNM: 05/13/2008 (05/13/2008) NGA NTM: 05/21/2005 (05/24/2008)
18740	41st	04/01/2005	1:234,270 (18740_1)	[L]NTM: ?
18022	35th	08/01/2005	1:868,003 (18022_1)	[L]NTM: ?
18020	37th	09/01/2003	1:1,444,000 (18020_1)	[L]NTM: ?
501	12th	11/01/2002	1:3,500,000 (501_1)	[L]NTM: ?
530	31st	06/01/2005	1:4,860,700 (530_1)	[L]NTM: ?
50	6th	06/01/2003	1:10,000,000 (50_1)	[L]NTM: ?

<sup>\*</sup> Correction(s) - source: last correction applied (last correction reviewed--"cleared date")

# **Features**

No.	Name	Feature Type	Survey Depth	Survey Latitude	Survey Longitude	AWOIS Item
1.1	0005	Obstruction	[None]	33° 44' 45.2" N	118° 13' 24.0" W	



F00507 - Uncharted Items 1 - DR\_UnCharted

# 1.1) 0005

# **Survey Summary**

**Survey Position:** 33° 44′ 45.2″ N, 118° 13′ 24.0″ W

**Least Depth:** [None]

TPU ( $\pm 1.96\sigma$ ): THU (TPEh) [None]; TVU (TPEv) [None]

**Timestamp:** 2006-181.09:27:14 (06/30/2006)

**Survey Line:** f00507 / nrt6\_s3003\_klein3000\_sss100 / 2005-237 / sonar\_data050825142400

**Contact/Point:** 0005/1

**Charts Affected:** 18751\_1, 18749\_1, 18746\_1, 18740\_1, 18022\_1, 18020\_1, 501\_1, 530\_1, 50\_1

#### Remarks:

The feature is a large cluster of rocks or debris. Imagery was acquired by KLEIN 3000 side scan sonar. There is no bathymetry data for this position.

## **Feature Correlation**

Address	Feature	Range	Azimuth	Status
f00507/nrt6_s3003_klein3000_sss100/2005-237/sonar_data050825142400	0005	0.00	000.0	Primary

# **Hydrographer Recommendations**

Chart a dangerous obstruction, least depth unknown, at the present survey position.

## S-57 Data

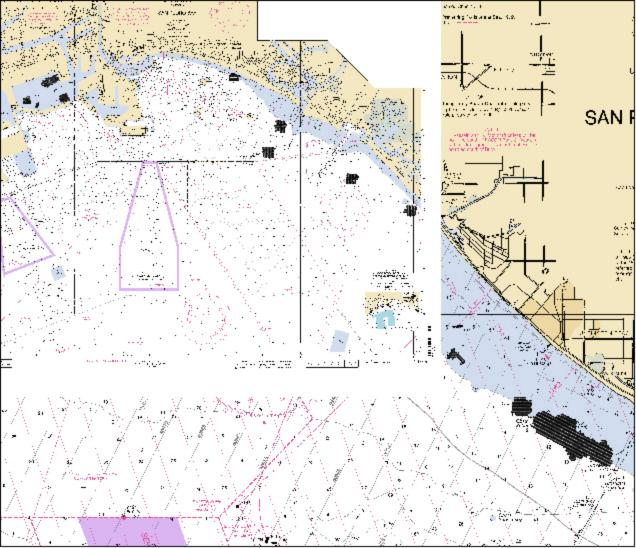
**Geo object 1:** Obstruction (OBSTRN)

**Attributes:** WATLEV - 3:always under water/submerged

## **Office Notes**

Concur. Chart Dangerous OBSTN, LD unknown.

# APPENDIX III FINAL PROGRESS SKETCH AND SURVEY



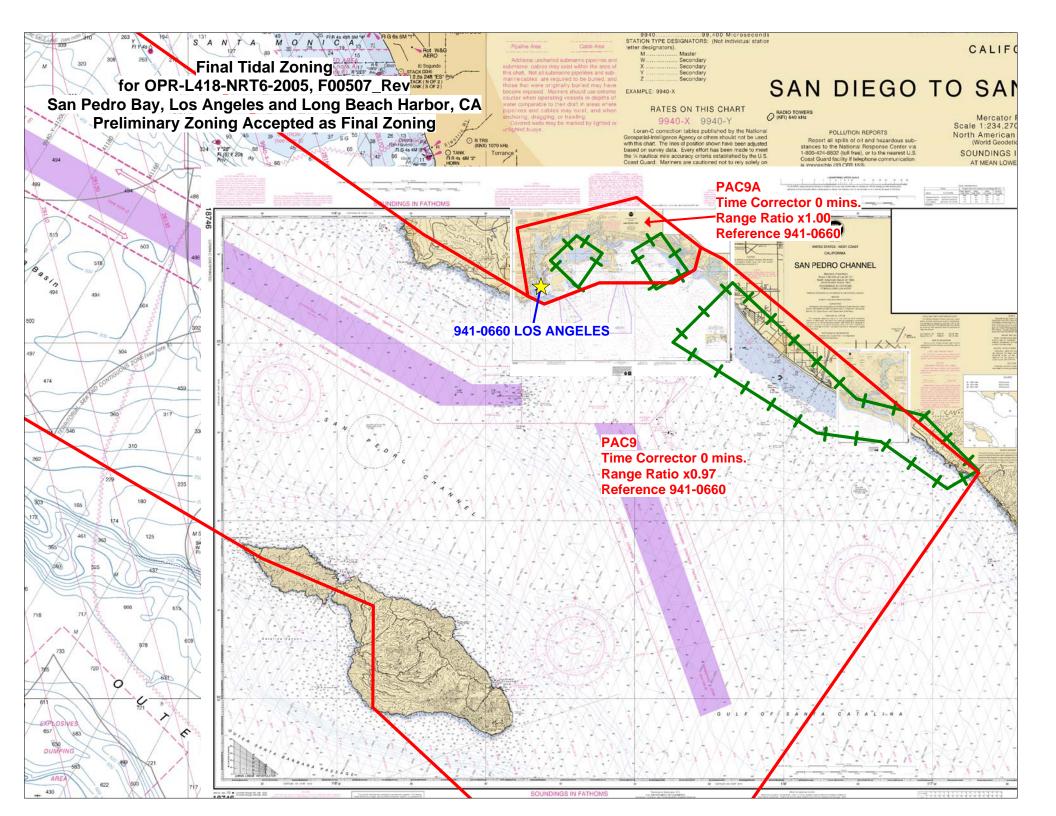
# APPENDIX IV TIDES AND WATER LEVELS



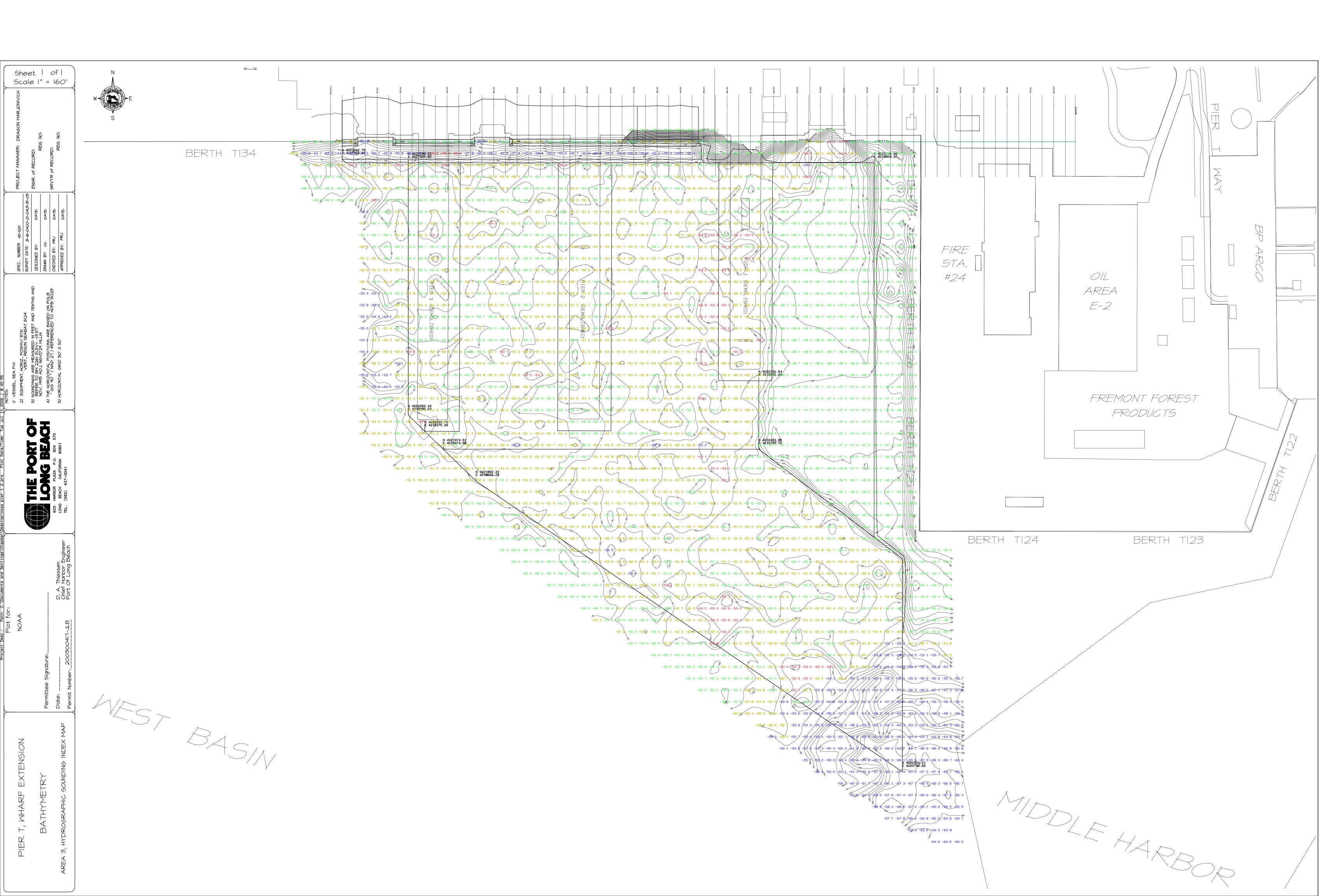
# UNITED STATES DEPARMENT OF COMMERCE National Oceanic and Atmospheric Administration

National Ocean Service Silver Spring, Maryland 20910





# APPENDIX V SUPPLEMENTAL SURVEY AND CORRESPONDENCE



Contract HD-6923 Specification HD-S2284 BPHA05000083

Work Boat: Parker I

Start Time: 0745

Stop Time: 1615

Reg. Hrs:

+ O.T. =

Total Hrs.

Supervisor: Robert Chow

Approved by:

Boa

Boat Operator: Ruvino Nomura

(1) Account	# HB 5095	T132	Total Terminals International	Rate	Hrs	Costs
			ENDERS DIVE TEAM ENDERS DIVE TEAM	317.20 317.20	8	2,537.60 2,537.60
				TOTA	L \$	5,075.20

DPIC:

Ruvino Nomura

Diver(s): Ruvino Nomura, Scott Perkoski, Pat Daly, Matt Peterson

DPIC: Tender(s

Tender(s): Scott Perkoksi, Pat Daly, Matt Peterson, Ruvino Nomura

Work Description:

#### (1) Berth T132

- 1. Divers began the day by attempting to take video footage of the pile stubs found yesterday along the east side of the old Long Beach Naval Shipyard Pier 3. However, the visibility was too poor to get any good pictures. The divers removed the down line and moved to the next location to begin surveying the remaining items in the south-east corner of the pier, Items No. 3-K through 3-E, and the items on the west side of the pier, Items No. 3-D through 3-A.
- 2. Again, due to the depth, the divers hald limited bottom time, so all four (4) divers went down on the survey.
- 3. The print indicated there were seven (7) items to be found, but the divers found twelve (12) items between Items No. 3-K and 3-E. Refer to the following chart for details of these items, and for the five (5) stub piles found between the four (4) items marked 3-D and 3-A. Please note that as the 12 items were found so close together that the divers could not determine which was which on the print except for the first and las items (3-K and 3-E). This grouping of piles was probably one of the timber dolphins that were in each corner of the pier. The items listed below in italics are the items found yesterday, and the non-italicized, bold items are what was found today:

	Pier 3 - East Side					
Station No.						
on Print	ID on Print	Description				
11+70	3-Q	Timber Pile, 12" above mudline				
11+55	3-P	Timber Pile, 12" above mudline				
11+40	3-0	Timber Pile, 12" above mudline				
11+25	3-N	Timber Pile, 12" above mudline				
11+10	3-M	Timber Pile, 36" above mudline				
11+00		Timber Pile, not marked on chart, 16" above mudline				
10+95		Timber Pile, not marked on chart, 24" above mudline				
10+90	3-L	Timber Pile, 36" above mudline				

Continued on next sheet

Parker Diving Service, Inc. P.O. Box 5272 San Pedro, CA 90733 24-hr Tel: (310) 833-4554

Report No. 060727 Date: Thu. 27 July, 2006

Sheet 1 of 7

Contract HD-6923 Specification HD-S2284 BPHA05000083

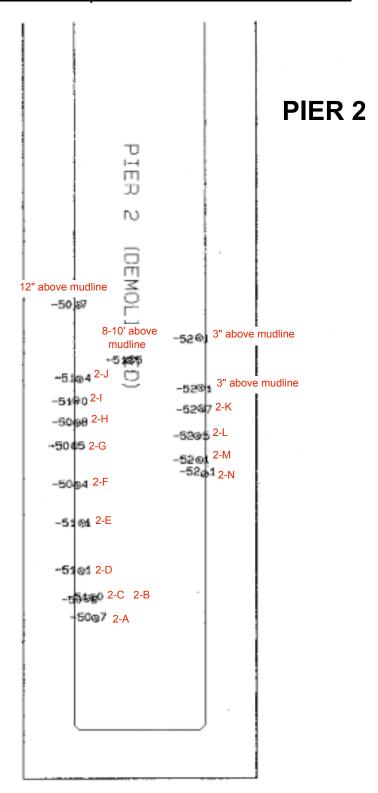
	Pier 3 - East Side						
Station No.							
on Print	ID on Print	Description					
10+35	3-K	Timber Piler, 18"" above mudline					
10+30	3-J	Timber Piler, 24" above mudline					
10+05	3-I	Timber Piler, 24" above mudline					
		Timber Piler, not on print, 24" above mudline					
		Timber Piler, not on print, 36" above mudline					
10' off pier	3-H	Timber Piler, 24" above mudline					
		Timber Piler, not on print, 24" above mudline					
20' off pier	3-G	Timber Piler, 36" above mudline					
		Timber Piler, not on print, 24" above mudline					
10' off pier	3-F	Timber Piler, 48" above mudline					
		Timber Piler, not on print, 18" above mudline					
10+05	3-E	Timber Piler, 24" above mudline					

	Pier 3 - West Side					
Station No.						
on Print	ID on Print	Description				
11+30	11+30 3-A Timber Piler, 18"" above mudline					
10+65	3-B	Timber Piler, 18" above mudline				
10+10	3-C	Timber Piler, 36" above mudline				
10+08		Timber Piler, not on print, 24" above mudline				
10+05	3-D	Timber Piler, 12" above mudline				

4. None of the timber pile stubs found on Piers 2 and 3 was five (5) feet or more above the mudline. The only item above five (5) feet was the pieces 1" rebar in the center of Pier 2, Station13+78. However, those pieces were burned off by the divers. One other timber pile stub located approximately 10' off the end of Pier 3, east side (Item 3-F) was 48" above the mudline. All others ranged between 3" and 36".

Parker Diving Service, Inc. P.O. Box 5272 San Pedro, CA 90733 24-hr Tel: (310) 833-4554

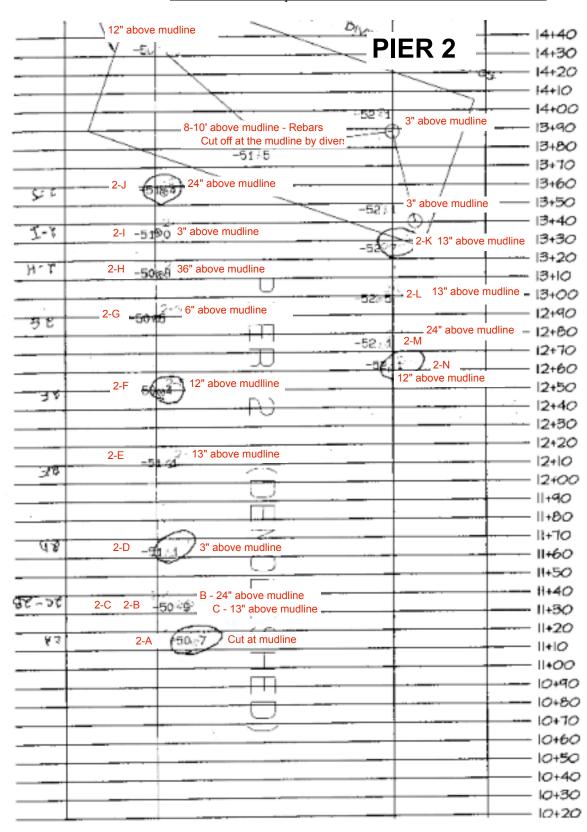
Report No. 060727 Date: Thu. 27 July, 2006 Sheet 2 of 7



Parker Diving Service, Inc. P.O. Box 5272 San Pedro, CA 90733 24-hr Tel: (310) 833-4554

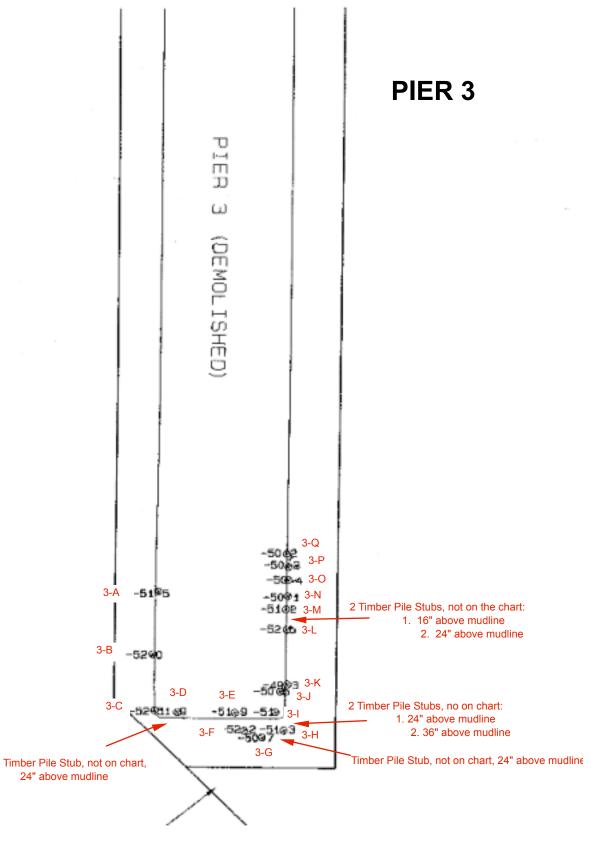
Report No. 060727 Date: Thu. 27 July, 2006 Sheet 3 of 7

Contract HD-6923 Specification HD-S2284 BPHA05000083



Parker Diving Service, Inc. P.O. Box 5272 San Pedro, CA 90733 24-hr Tel: (310) 833-4554

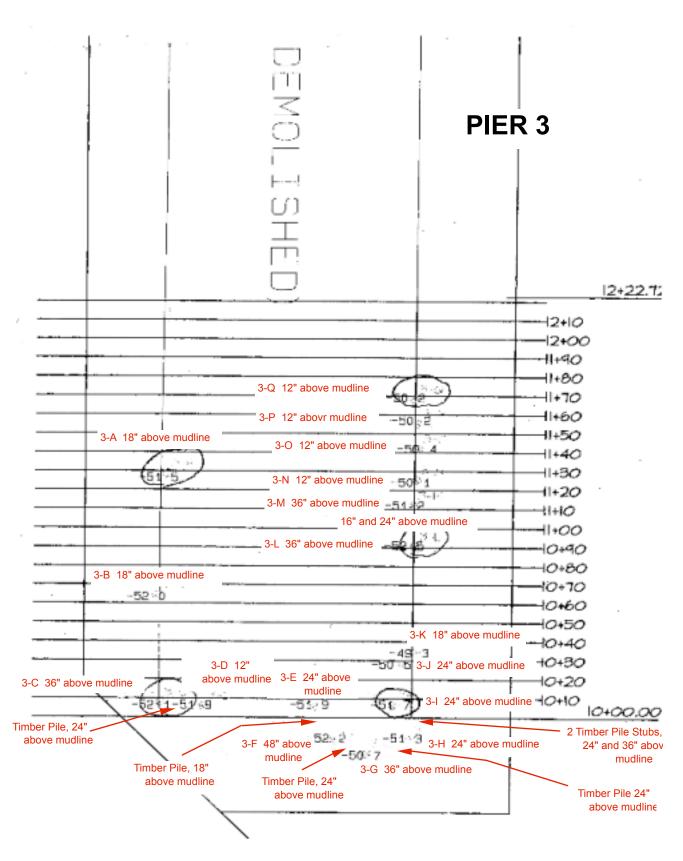
Report No. 060727 Date: Thu. 27 July, 2006 Sheet 4 of 7



Parker Diving Service, Inc. P.O. Box 5272 San Pedro, CA 90733 24-hr Tel: (310) 833-4554

Report No. 060727 Date: Thu. 27 July, 2006 Sheet 5 of 7

Contract HD-6923 Specification HD-S2284 BPHA05000083



Parker Diving Service, Inc. P.O. Box 5272 San Pedro, CA 90733 24-hr Tel: (310) 833-4554

Report No. 060727 Date: Thu. 27 July, 2006 Sheet 6 of 7

# PORT OF LONG BEACH CONTAINER INVENTORY LIST

DESCRIPTION				AMOUI	NT	
1 T/O Anodes	5					
2 Silver Anodes	13					
3 Looped Together Anodes	8					
4 Magnatite Anodes	4					
5 Crates of Turnbuckles	9					
6 Grounding Plates	7					
7 Reference Cells	1					
8 Misc Angles & Plates						
9 Spool wire - Odd Sizes	4					
10 Steel Pipe Brackets	180					
11 55 gal. Plastic Drums	2					
12 Honda 4-Stroke Motor	1					
13 Aluminum A-Frames	2					
14 Misc PVC Fittings						
15 Misc Steel for Staples						
16 Bucket small chain links	1/2					
17 Channel Clips	21					
18 Bug Sprayer	1					
19 Aluminum Flag Holder	1					
20 Aluminum Brackets	2					
21 SikaTop 123+ (bag)	7					
22 Sika Armatec 110 (bag)	1					
23 Sika Armatec A&B(kit)	0					
24 SikaTop "A" (gal)	12					
25 Sikadur 330 - (3gal kit)	16					
26 SikaWrap Hex 230C	309'					
27 Ferrogard 903 - (gal)	5/8					
28 Fox FX700 (bags)	6					
29 4x4x5 Anode w/wire	34					
30 Euco Tremie Grout (50-lb)	42					
31 Aluminum Nails (Box)	16	*Most are in 50	0-lb boxes			
32 Aluminum Washers (Box)	13					
33 Round Fiber Form (7')	2					
34 Round Fiber Form (3.5')	2					
35 150-mil Pile Wraps	85					
36 120-lb Alum. Anodes (C72)	66					
37 Splash Zone Epoxy (2 Gal Kits	) 4					
38 Anode Brackets for C72	190					
39						
40						
41						
42						
43						
44						
44 45						
46						
47						
48						

Parker Diving Service, Inc. P.O. Box 5272 San Pedro, CA 90733 24-hr Tel: (310) 833-4554 Report No. 060727 Date: Thu. 27 July, 2006 Sheet 7 of 7

Contract HD-6923 Specification HD-S2284 BPHA05000083

Work Boat: Parker I

Start Time: 0745

Stop Time: 1615

Reg. Hrs:

+ O.T. =

Total Hrs.

Supervisor: Robert Chow

Approved by:

Boat Operator: Ruvino Nomura

(1) Account #	HB 5095	T132	Total Terminals International	Rate	Hrs	Costs
Bid Item #2	TWO DIVER	S, TWO	TENDERS DIVE TEAM TENDERS DIVE TEAM O EQUIPMENT	317.20 317.20 FULL DAY	8	2,537.60 2,537.60 150.00
				TOTAL	. \$	5,225.20

DPIC:

Ruvino Nomura

Diver(s): Ruvino Nomura, Scott Perkoski, Pat Daly, Matt Peterson

DPIC: Wor

Tender(s): Scott Perkoksi, Pat Daly, Matt Peterson, Ruvino Nomura

Work Description:

## (1) Berth T132

- Divers, using co-ordinates provided by the Port Surveyors, conducted inspection dives off the berth, at the
  demolition sight of the old Long Beach Naval Shipyard Pier 2 and Pier 3. The purpose of the dives were to
  document the items and determine the height off the mudline. Please note that due to the depth ranging
  from 54' to 58', more divers were utilized as bottom time was limited to 60 minutes per man.
- The divers were instructed to locate and identify any target which sticks up to five (5) feet above the mudline. Divers took video, but visibility was very poor. Still photos were taken but were not adequate.
- 3. Divers began the survey at Pier 2. The divers completed all targets on the east side of the pier and began the west side. All targets were identified as timber pile stubs, ranging in height above the mudline from 3" to 3'. Refer to the following chart for details:

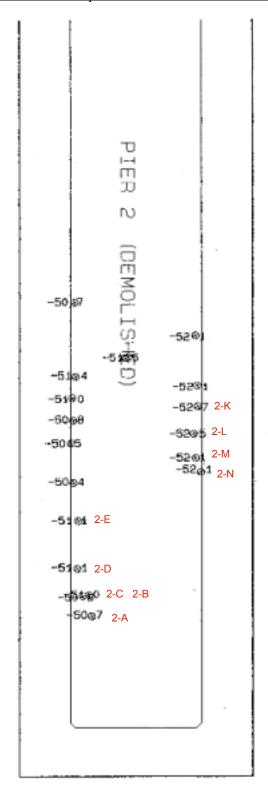
-							
	Pier 2 - East Side						
Station No.							
on Print	ID on Print	Description					
12+60	2-N	Fender Pile, 12" above mudline					
12+75	2-M	Fender Pile, 24" above mudline					
13+00	2-L	Fender Pile, 13" above mudline					
13+0		Fender Pile cut at mudline, not shown on chart					
13+25	2-K	Fender Pile, 13" above mudline					
13+50		Fender Pile not given designation on chart, 3" above mudline					
14+00		Fender Pile not given designation on chart, 3" above mudline					

	Pier 2 - West Side						
Station No.		1 101 2 1 100 1					
on Print	ID on Print	Description					
11+15	2-A	Fender Pile, cut at mudline					
11+35	2-B	Fender Pile, 24" above mudline					
11+35	2-C	Fender Pile, 13" above mudline					
11+60	2-D	Fender Pile, 3" above mudline					
12+10	2-E	Fender Pile, 13" above mudline					

Parker Diving Service, Inc. P.O. Box 5272

San Pedro, CA 90733 24-hr Tel: (310) 833-4554 Report No. 060724 Date: Mon. 24 July, 2006 Sheet 1 of 4

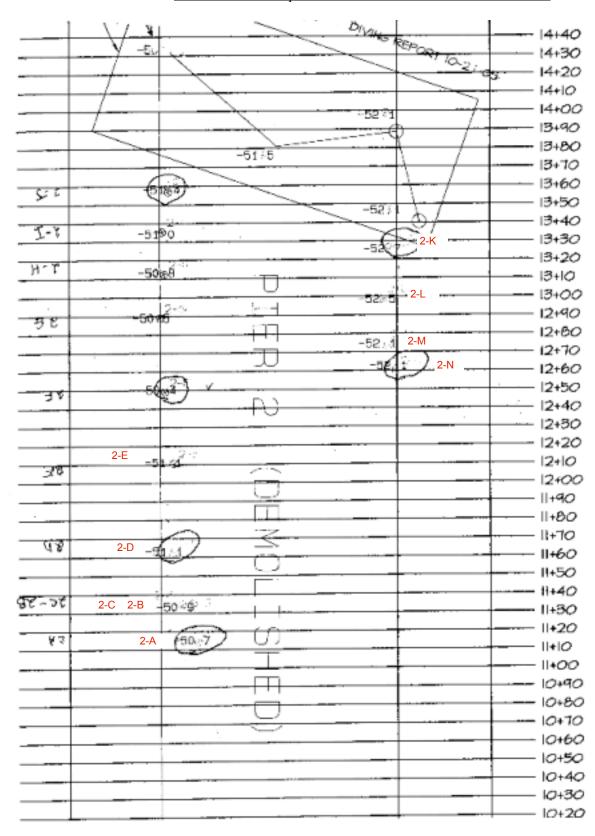
Contract HD-6923 Specification HD-S2284 BPHA05000083



Parker Diving Service, Inc. P.O. Box 5272 San Pedro, CA 90733 24-hr Tel: (310) 833-4554

Report No. 060724 Date: Mon. 24 July, 2006 Sheet 2 of 4

#### Contract HD-6923 Specification HD-S2284 BPHA05000083



Parker Diving Service, Inc. P.O. Box 5272 San Pedro, CA 90733 24-hr Tel: (310) 833-4554

Report No. 060724 Date: Mon. 24 July, 2006 Sheet 3 of 4

# PORT OF LONG BEACH CONTAINER INVENTORY LIST

DESCRIPTION			AMOL	JNT		
1 T/O Anodes	5					
2 Silver Anodes	13					
3 Looped Together Anodes	8					
4 Magnatite Anodes	4					
5 Crates of Turnbuckles	9					
6 Grounding Plates	7					
7 Reference Cells	1					
8 Misc Angles & Plates	-					
9 Spool wire - Odd Sizes	4					
10 Steel Pipe Brackets	180					
11 55 gal. Plastic Drums	2					
12 Honda 4-Stroke Motor	1					
	2					
13 Aluminum A-Frames						
14 Misc PVC Fittings						
15 Misc Steel for Staples	4 10					
16 Bucket small chain links	1/2					
17 Channel Clips	21					
18 Bug Sprayer	1					
19 Aluminum Flag Holder	1					
20 Aluminum Brackets	2					
21 SikaTop 123+ (bag)	7					
22 Sika Armatec 110 (bag)	1					
23 Sika Armatec A&B(kit)	0					
24 SikaTop "A" (gal)	12					
25 Sikadur 330 - (3gal kit)	16					
26 SikaWrap Hex 230C	309'					
27 Ferrogard 903 - (gal)	5/8					
28 Fox FX700 (bags)	6					
29 4x4x5 Anode w/wire	34					
30 Euco Tremie Grout (50-lb)	42					
31 Aluminum Nails (Box)	16	*Most are in 50-lb box	res			
32 Aluminum Washers (Box)	13					
33 Round Fiber Form (7')	2					
34 Round Fiber Form (3.5')	2					
35 150-mil Pile Wraps	85					
36 120-lb Alum. Anodes (C72)	66					
37 Splash Zone Epoxy (2 Gal Kits)	4					
38 Anode Brackets for C72	190					
39	1.00					
40						
41						
42						
43						
44						
45						
46						
47						
48					l	

Parker Diving Service, Inc. P.O. Box 5272 San Pedro, CA 90733 24-hr Tel: (310) 833-4554 Report No. 060724 Date: Mon. 24 July, 2006 Sheet 4 of 4

Contract HD-6923 Specification HD-S2284 BPHA05000083

Work Boat: PARKER-1

Start Time: 0745

Stop Time: 1615 Reg. Hrs: 8 + O.T. = 8 Total Hrs.

Supervisor: Robert Chow

Approved by

Boat Operator: Ruvino Nomura

(1) Account #	HB5095	T132	Total Terminals International	Rate	Hrs	Costs
Bid Item #2	TWO DIVE	TWO DIVERS, TWO TENDERS DIVE TEAM		317.20	4	1,268.80
					TOTAL \$	1,268.80

DPIC:

Diver(s): Andy Cummings, Matt Peterson

DPIC:

Tender(s): Ruvino Nomura, Pat Daly

(0) 1 4	LIDEO70	D04.07	Chall Tamainal	Dete	Lleo	Conto
(2) Account #	HB5270	B84-87	Shell Terminal	Rate	Hrs	Costs
Bid Item #2	TWO DIVERS, TWO TENDERS DIVE TEAM		317.20	4	1,268.80	
Bid Item #7	CRANE		0.00	4	0.00	
					TOTAL \$	1,268.80

DPIC: DPIC:

Diver(s): Andy Cummings, Matt Peterson

Tender(s): Ruvino Nomura, Pat Daly

Work Description:

#### (1) Berth T132

- 1. On October 21st, the divers made initial dive to verify that all the targeted objects on the chart below had been removed. At that time, Items #5,6 and 7 were not inspected due to time factor and ship movements. Today, the divers went back to the berth and completed the inspection, including the verification of the removal of Item #8, which had not been previously inspected as well.
- 2. All objects were found missing, and the only thing the diver could find at the coordinates for Item #8 was a big hole left from the contractor's crane bucket. All targeted items listed below are now gone.

Coordinates		1	Video
Lat	Long	Description	ID#
118 13 34.12202	33 34 15.86370	Timber Pile sticking 6.5 feet above mud line	1
118 13 34.91340	33 45 17.55603	Timber Pile sticking 12 feet above mud line	2
118 13 35.10263	33 45 17.72443	Concrete Pile sticking 6 feet above mud line	3
118 13 35.25667	33 45 17.71465	Concrete Pile sticking 12 feet above mud line	4
118 13 41.07892	33 45 11.90286	Timber Pile sticking 2 foot above mud line	5
118 13 41.41007	33 45 12.30879	Timber Pile sticking 1 foot above mud line	6
118 13 42.09733	33 45 12.02250	Concrete Pile at 30-degree angle, 13 feet above mudline	7
118 13 43.05627	33 45 12.34979	Area clam-shelled by crane, nothing here now	8

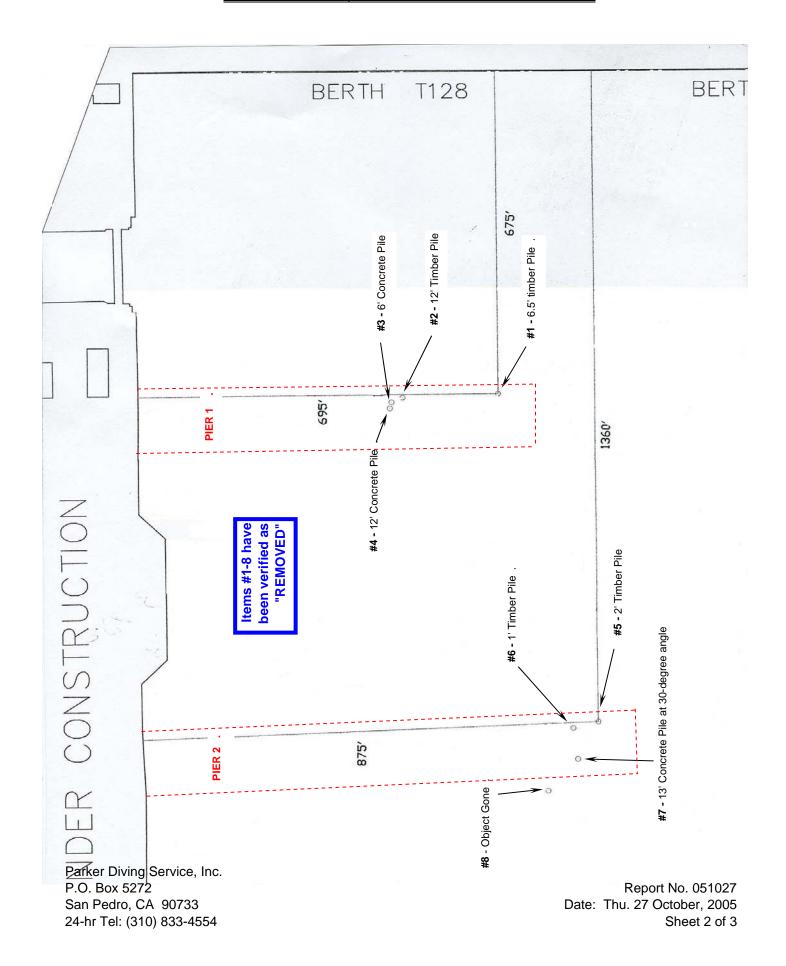
#### (2) Berth B84-87 -

Divers removed sections of the old whaler near Station 2550. The existing bolts and nuts were too corroded and had to be burned off. New sections will be attached after marked and drilled.

Parker Diving Service, Inc. P.O. Box 5272 San Pedro, CA 90733 24-hr Tel: (310) 833-4554

Report No. 051027 Date: Thu. 27 October, 2005

Sheet 1 of 3



# Contract HD-6923 Specification HD-S2284 BPHA05000083



Photo No. 1
Burning off the old bolst from the whaler



Photo No. 2 Whaler at Station 2550



Photo No. 3 Photo No. 4 Using the Boat Crane, the old whaler section was removed.





# **UNITED STATES DEPARMENT OF COMMERCE National Oceanic and Atmospheric Administration** National Ocean Service

Silver Spring, Maryland 20910

#### TIDE NOTE FOR HYDROGRAPHIC SURVEY

DATE: February 20, 2006

HYDROGRAPHIC BRANCH: Pacific

HYDROGRAPHIC PROJECT: OPR-L418-NRT6-2005

HYDROGRAPHIC SHEET: F00507 Rev

LOCALITY: San Pedro Bay, Los Angeles and Long Beach Harbor, CA

August 17 - November 8, 2005 TIME PERIOD:

September 19 -21, 2006

TIDE STATION USED: 941-0660 Los Angeles, CA

> Lat. 33° 43.2′N Long. 118° 16.3' W

PLANE OF REFERENCE (MEAN LOWER LOW WATER): 0.000 meters HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE: 1.448 meters

## REMARKS: RECOMMENDED ZONING

Preliminary zoning is accepted as the final zoning for project OPR-L418-NRT6-2005, F00507\_Rev, during the time period between August 17, 2005 - September 21, 2006.

Please use the zoning file "L418NRT62005CORP" submitted with the project instructions for OPR-L418-NRT6-2005. Zones PAC9 & PAC9A are the applicable zones for F00507 Rev.

## Refer to attachments for zoning information.

Provided time series data are tabulated in metric units Note 1: (mêters), relative to MLLW and on Greenwich Mean Time on the 1983-2001 National Tidal Datum Epoch (NTDE).



# ATLANTIC HYDROGRAPHIC BRANCH EVALUATION REPORT to Accompany Survey F00507 (2006)

This Evaluation Report has been written to supplement and/or clarify the original Descriptive Report. Sections in this report refer to the corresponding sections of the Descriptive Report.

## B. DATA ACQUISITION AND PROCESSING

The following software was used to process data at the Atlantic Hydrographic Branch:

HSTP PYDRO version 7.3 r2239 CARIS HIPS/SIPS version 6.1 SP1 HF 1-6 CARIS Bathy Manager version 2.1 HF 1-3 DKART INSPECTOR, version 5.0 Build 732 SP1 CARIS HOM version 3.3 CARIS S57 Composer version 1.0

## B.2. QUALITY CONTROL

## B.2.1. H-Cell

The AHB source depth grid for the survey's nautical chart update product was a 50cm surface from which the survey scale selected soundings were extracted. The selected sounding set is approximately 10 to 20 times the number of charted depths. The chart scale selected soundings are a subset of the survey scale selected soundings.

Depth curves were created from a 50cm product surface grid. The depth curves are forwarded to MCD for reference only. The curves were utilized during chart scale sounding selection and quality assurances efforts at AHB. The depth curves are incorporated into the S57 US500507\_CS.000 deliverable.

The pre-compilation products or components (Stand Alone HOB files (SAHOB)) include depth curves (DEPCNT), sounding selections (SOUNDG), features (OBSTRN, WRECKS, PILPNT), Meta objects (M\_COVR, M\_QUAL, M\_NSYS), and cartographic Blue Notes. The individual SAHOB files were inserted into one BASE Manager feature layer and exported to S57 format in order to create the H-Cell deliverable.

The completed H-Cell was exported as a Base Cell File (ENC.000) in S-57 format with all values in metric units. The metric equivalent ENC.000 file was then converted to NOAA chart units (ENC\_CU.000) with all values measured in feet following NOAA sounding rounding rules.

Chart compilation was performed by Atlantic Hydrographic Branch personnel in Norfolk, Virginia. Compilation data will be forwarded to Marine Chart Division, Silver Spring, Maryland.

# The F00507 CARIS H-Cell final deliverables include the following products:

US500507_CS.000	1:12,000 Scale	F00507 H-Cell with Chart Scale Selected Soundings and Depth Curves
US500507_SS.000	1:10,000 Scale	F00507 Selected Soundings (Survey Scale)
US500507_BlueNtoes.000	1:12,000 Scale	F00507 Cartographic Notes

# D. <u>RESULTS AND RECOMMENDATIONS</u>

## D.1 CHART COMPARISON

18751 (45th Edition, Nov./07) Corrected through NM 11/03/2007 Corrected through LNM 10/23/2007 Scale 1:12,000

18749 (41st Edition, Aug./07) Corrected through NM 08/04/2007 Corrected through LNM 07/31/2007 Scale 1:20,000

18746 (37th Edition, Aug./07) Corrected through NM 08/11/2007 Corrected through LNM 08/07/2007 Scale 1:80,000

## **ENC Comparison**

#### US5CA62M

Los Angeles and Long Beach Harbors Edition 11 Update Application Date 2007-11-16 Issue Date 2008-05-21 References: Chart 18751

#### US5CA61M

San Pedro Bay
Edition 10
Update Application Date 2008-03-21
Issue Date 2008-03-21
References: Chart 18749

#### US4CA60M

San Pedro Channel Edition 6 Update Application Date 2007-12-11 Issue Date 2008-05-21 References: Chart 18746

### D.1.1 Hydrography

The charted hydrography originates with prior surveys and requires no further consideration. The hydrographer makes adequate chart comparisons in section "D" and Appendix 1&2 of the Descriptive Report. With the following exceptions:

1. The majority of the surveyed area was not covered by any form of bathymetry. In areas where no bathymetry was present the side scan record was used to add new features with unknown depth. No currently charted features were updated in these areas unless disproved.

## D.3. MISCELLANEOUS

Chart compilation was done by Atlantic Hydrographic Branch personnel, in Norfolk, Virginia. Compilation data will be forwarded to Marine Chart Division, Silver Spring, Maryland. See Section D.1. of this report for a list of the Raster Charts and Electronic Navigation Charts (ENC) used for compiling the present survey:

## **D.4.** ADEQUACY OF SURVEY

The present survey is adequate to supersede the charted bathymetry within the M\_COV area. Any features not specifically addressed either in the H-Cell BASE Cell File or the Blue Notes should be retained as charted. Refer to the Descriptive Report for further recommendations by the hydrographer.

## APPROVAL SHEET F00507

## **Initial Approvals:**

The completed survey has been inspected with regard to survey coverage, delineation of depth curves, representation of critical depths, cartographic symbolization, and verification or disproval of charted data. All revisions and additions made to the H-Cell files during survey processing have been entered in the digital data for this survey. The survey records and digital data comply with National Ocean Service and Office of Coast Survey requirements except where noted in the Descriptive Report and the Evaluation Report.

All final products have undergone a comprehensive reviews per the Hydrographic surveys Division Office Processing Manual and are verified to be accurate and complete except where noted.

Sarah M. Eggleston
Physical Scientist

Physical Scientist
Atlantic Hydrographic Branch

I have reviewed the H-Cell files, accompanying data, and reports. This survey and accompanying Marine Chart Division deliverables meet National Ocean Service requirements and standards for products in support of nautical charting except where noted.

Approved:

**Shepard Smith** 

Lieutenant Commander, NOAA Chief, Atlantic Hydrographic Branch