

10379

Diagram No. 1284-2

NOAA FORM 76-35A

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SERVICE

DESCRIPTIVE REPORT

Type of Survey . . . Hydrographic
Field No. AHP2-10-6-91
Registry No. H-10379

LOCALITY

State Texas
General Locality . Matagorda Bay
Sublocality Broad Bayou to
Powerhorn Bayou
1991

CHIEF OF PARTY
LT T.R. Waddington

LIBRARY & ARCHIVES

DATE April 27, 1993

10379

EC/G
PRODUCTS

11317
11316
CP5

11300-NC

HYDROGRAPHIC TITLE SHEET

H-10379

INSTRUCTIONS - The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

FIELD NO.

AHP2-10-6-91

State Texas

General locality Matagorda Bay

Locality Broad Bayou to Powderhorn Bayou

Scale 1: 10,000 Date of survey May 16, 1991 to July 29, 1991

Instructions dated March 1, 1991 Project No. OPR-K228

Vessel NOAA Launch 518

Chief of party Lt. Thomas R. Waddington

Surveyed by David B. Elliott

Soundings taken by echo sounder, hand lead, ~~pot~~ in meters

Graphic record scaled by Field Party Personnel

Graphic record checked by David B. Elliott, Robert R. Rogers

Verification by: J. Green, B. Olmstead Automated plot by PHS Xynetics Plotter

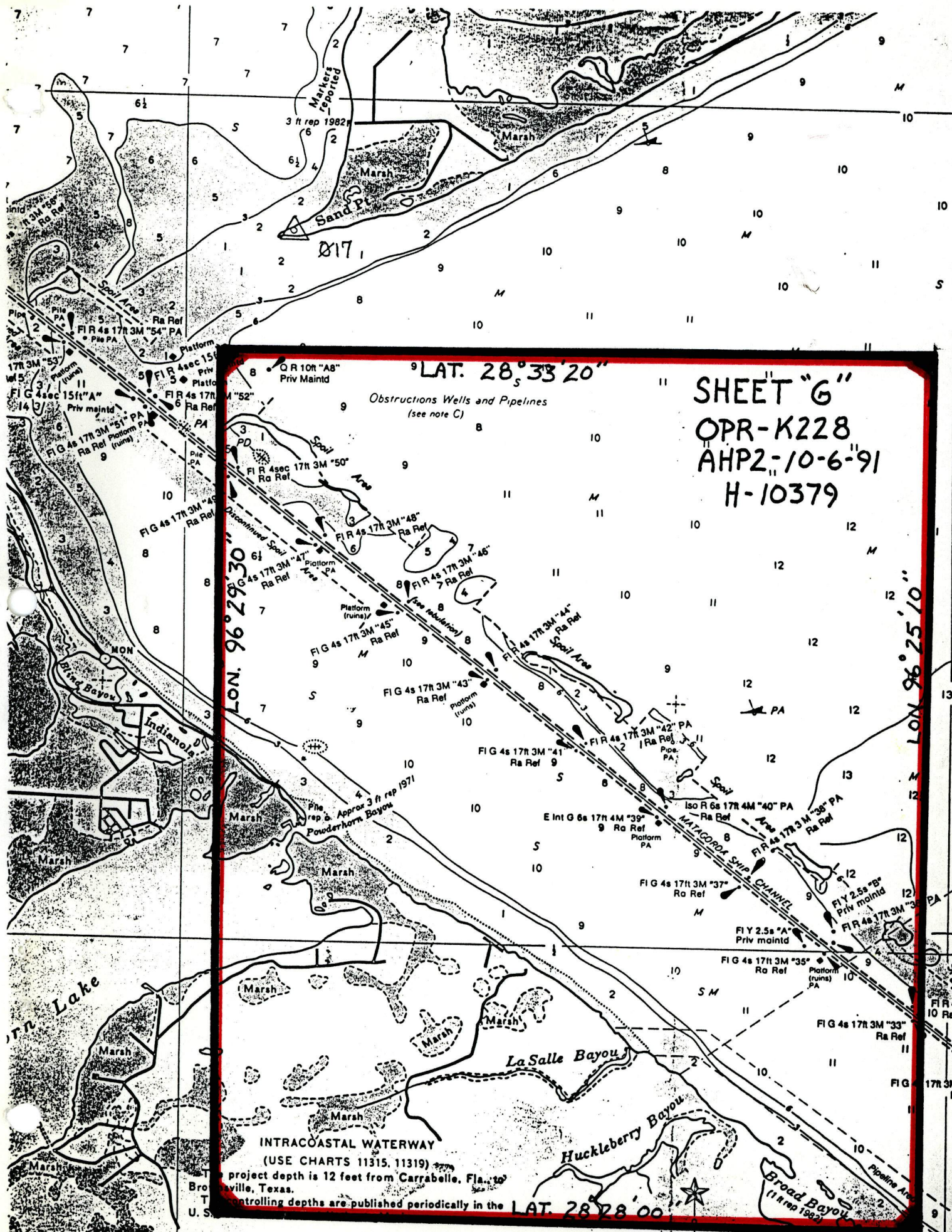
Evaluation by: B. Olmstead

Soundings in ~~feet~~ ^{meters} at ~~MLLW~~ ~~MLLW~~ and decimeters

REMARKS: Time in UTC. Revisions and marginal notes in black were generated during office processing. All separates are filed with the hydrographic data, as a result page numbering may be interrupted or non-sequential.

AWOIS/SURF ✓ 6/4/93 SJV ✓

60 JAN 29 1997



LAT. $28^{\circ}33'20''$
 Obstructions Wells and Pipelines
 (see note C)

SHEET "G"

OPR-K228

AHP2-10-6-91

H-10379

LAT. $28^{\circ}29'30''$
 LON. $96^{\circ}29'30''$

LON. $96^{\circ}25'10''$

INTRACOASTAL WATERWAY

(USE CHARTS 11315, 11319)

project depth is 12 feet from Carrabelle, Fla. to
 Brownsville, Texas.
 Controlling depths are published periodically in the

LAT. $28^{\circ}28'00''$

DESCRIPTIVE REPORT TO ACCOMPANY
HYDROGRAPHIC SURVEY H-10379
(Field No. AHP2-10-6-91)
Scale:1:10,000

1991

Atlantic Hydrographic Party Two
Chief of Party: Lt. Thomas R. Waddington, NOAA

A. PROJECT ✓

This survey was conducted in accordance with Hydrographic Project Instructions OPR-K228-AHP2, Corpus Christi, Texas dated March 1, 1991, change No. 1 dated June 4, 1991 and change No. 2 dated 11 June 1991.

The purpose of project OPR-K228-AHP2 is to provide modern hydrographic data to revise the existing nautical charts. Considerable oil development, fishing and oyster industries exist in Matagorda Bay and its main tributaries.

This survey is designated as sheet "G" in the project instructions.

B. AREA SURVEYED - See Eval Rpt, section 1

The area surveyed for H-10379 covers the western portion of Matagorda Bay in the locality of Boggy Bayou to Powderhorn Bayou. The survey limits are as follows:

North - Latitude	28°33' ⁴ 20"N
South - Latitude	28°28' ⁴ 50"N
East - Longitude	096°25'10"W
West - Longitude	096°29'30 ⁴ W

Per Section 1.8 of the project instructions, main scheme lines were run to the 0.7-meter depth curve.

This survey was conducted from May 16, 1991 (DN 136) to July 29, 1991 (DN 210).

C. SOUNDING VESSEL ✓

Vessel 0518 (EDP No. 0518), a 21-foot MonArk, was used to collect all data on this survey. No problems were encountered with this vessel.

Sounding lines were run at 100 meter spacing, per Section 4.3 of the hydrographic manual.

D. AUTOMATED DATA ACQUISITION AND PROCESSING ✓

Hewlett-Packard HDAPS Programs:

<u>PROGRAM NAME</u>	<u>VERSION</u>
DISC_UTIL	1.00
MB	0.00
HJ	0.00
AUTOST	1.10
SURVEY	6.02
POINT	1.31
PLOTALL	1.95
PRINTALL	2.30
CARTO	1.20
BASELINE	1.10
QUICK	1.10
CONVERT	2.41
INVERSE	1.31
LOADNEW	1.30
GLOBAL	1.11
REJECT	1.00
MAKEFIX	1.00
BIGABST	1.13
REAPPLY	1.32
DIAGNOSTIC	2.70
HPRAZ	1.22
FILESYS	2.11
BACKUP	2.00
BACKOLD	1.11
NEWCONT	1.10
LISTAWOIS	1.20
PREDICT	1.11
POSTSUR	5.12
READPROJS	1.07
SOFTCHECK	1.11
DP	1.11
MANU_DATA	1.11
RAMSAVER	1.00
CSTAT_UP	1.00
REFTIDE4	*.**
Vers	*.**
DAS_SURV	6.03
CAT_KEYS	.99B
CATALOGER	*.**

PC-DAS program, NOAAEXE directory, Version 3.6 was used for on line data acquisition on the survey vessel.

In addition to the HDAPS, the following non-HDAPS computer programs were used:

VELOCITY (IBM PC) 1.11

3/9/90

MTEN3 with enhancements geodetic 6/88
computations (IBM PC)

E. SONAR EQUIPMENT ✓

Not applicable.

F. SOUNDING EQUIPMENT ✓

The following Innerspace 448 echo sounder was used for this survey:

EDP#	S/N	Days
-----	-----	-----
0518	175	136,148,155,158,161,162,170, 171,176,177,178,183,184,190, 204,205,206,210.

Soundings were recorded in meters, with an assumed speed of sound through water of 1500 m/sec. Depths encountered in the survey area range from 0.5 meter to 12.5 meters.

The digitized soundings from the echosounder were compared closely with the analogue trace to ensure agreement between the two; any necessary adjustments were noted on the fathogram. The only regular manual manipulation of this instrument was in the gain adjustment while operating in a gated setting.

G. CORRECTIONS TO ECHO SOUNDINGS ✓

Corrections for the speed of sound through the water column were computed from data obtained with an Odom Hydrographic Systems Inc., Digibar, Model DB1100 speed of sound probe, serial number 155. This instrument was calibrated by the manufacturer on May 14, 1991; a copy of this calibration may be found in the Separates*Following Survey Data. In addition to this, on May 29, 1991 simultaneous velocity casts were performed with Digibar serial numbers 154 and 155 for comparison purposes; each of these casts is labeled number "one". The cats for vessel number 1292 is strictly for comparison only and not incorporated in any velocity table for survey H-10379. Program "Velocity" was used for determining the speed of sound correctors.

* Filed with the hydrographic data.

Velocity casts were taken in the survey area and speed of sound correctors were applied to all soundings taken during hydrography, during semi-smooth and final plotting with the HDAPS. Note: Table below does not affect bottom samples DN 136 & DN 148.

HDAPS Table#	DN	Date	Applied From - To	Cast#	Depth
1	149	5/29/91	149 - 154	1	4 m
2	155	6/4/91	155 - 160	2	12m
3	161	6/10/91	161 - 169	3	12m
4	170	6/19/91	170 - 175	4	12m
5	176	6/25/91	176 - 189	5	12m
6	190	7/9/91	190 - 202	6	12m
7	203	7/22/91	203 - 210	7	11m

Speed of sound tables and cast data are included in the Separates*Following Survey Data, filed with the Hydrographic Data.

Lead line comparisons were taken daily to determine instrument error and to verify static draft. The lead line was last calibrated on May 14, 1991. Results of this calibration and the daily lead-line comparison log are included in the Separates*Following Survey Data - IV.

The static draft of 0.3 meters was determined by measuring the difference between a punch mark two feet above the transducer down to the water surface. The draft was applied to all soundings acquired with the echosounder through the use of the PC-DAS offset table. The offset table is included with the Separates*Following Survey Data - IV.

Settlement and squat measurements for vessel 0518 were performed last on 08 November, 1990. Settlement and squat correctors were determined and applied to all survey data by means of the PC-DAS offset table; a copy can be found in the Separates*Following Survey Data - IV.

The final field sheet was plotted using predicted tides determined from Port O' Connor, Texas with correctors specified for zone "I" in the project instructions. The values were applied direct in accordance with these instructions.

Approved water levels were requested from the Sea and Lake Levels Branch, N/OMA12, in a letter dated August 5, 1991. A copy is included in the Separates Following Survey Data, filed with the Hydrographic Data.

* Filed with the hydrographic data.

H. CONTROL STATIONS - See Eval Rpt, section 2

The horizontal control datum for this project is the North American Datum of 1983. A signal list as well as a copy of the HDAPS Control Station Table is included ~~in Appendix III~~ following the Descriptive Report.

The Coastal Surveys Unit from Norfolk, Virginia used third order, class I traverse and intersection methods to establish NAD83 horizontal control for this project. The horizontal control report was written and submitted by the Coastal Surveys Unit personnel for OPR-K228-AHP2.

I. HYDROGRAPHIC POSITION CONTROL ✓

Survey Methods

Hydrographic position control was accomplished using Motorola Mini-Ranger Falcon 484 system which provided accuracy to meet 1:10,000 scale survey requirements. Range/range positioning with three and four lines of position were used during this project.

The following Falcon Mini-Ranger equipment was used:

<u>VESNO</u>	<u>EQUIPMENT</u>	<u>S/N</u>
0518	RPU	D0017
	R/T	F3411
	R/S	D2128 CD #A
	R/S	C2058 CD #B
	R/S	E2913 CD #7
	R/S	F3237 CD #8
	R/S	F3298 CD #9

When using three or four lines of position (LOP), a critical system check is continuously being obtained by observing the error circle radii (~~ACHIER~~) and residual values on the Complex screen in the survey vessel. Fixes which had erratic lines of position indicated by high residuals on the raw listing were "smoothed" during processing. Positions were "smoothed" by dead reckoning between two accurate positions. If more than four consecutive positions had high residuals with an erratic track plot, the data were rejected and later rerun. A point position recomputation was also used when fix data was erratic and the smoothing process was not adequate to save the data. Positions were recomputed by rejecting an LOP, or reaccepting an LOP that was turned-off manually or automatically while on-line. If acceptable ~~ACHIER~~ and residual values were indicated, the data were then smoothed and saved on the HDAPS.

Critical System Checks ✓

Fixed-point system checks are logged on a daily basis as per section 3.1.3.3 of the Field Procedures Manual. The daily printouts of hydrographic acquisition with MLOPS via HDAPS reflect these figures and are in compliance with values in this section.

Mini-Ranger Falcon Calibrations ✓

Baseline calibrations were performed on 6 May, 1991 (DN 126) and May 30, 1991 (DN 150) to the standards of Section 3.1.2.1 of the field procedures manual. The baseline correctors were incorporated into the Complex "C-0" table and applied directly to all on-line data. All records of these calibrations are included in the Separates*Following Survey Data - III. A closing baseline calibration was not performed since the survey was conducted in less than a six month period.

J. SHORELINE - See Eval Rpt, section 2

Shoreline detail shown on the final field sheet was transferred by hand from TP-01648, NAD 1983. The shoreline manuscript was compiled at 1:20,000 scale, and enlarged to 1:10,000 scale for use with this survey.

The shoreline was verified by its junction with hydrographic data and by visual inspection when possible. The shoreline agreed well with the shoreline manuscript which should take precedent over the current charted shoreline. Concur

K. CROSSLINES ✓

A total of 41.8 linear nautical miles (16% of main scheme hydrography) of channel and cross-lines were run on H-10379. These soundings agree within 0.3 meter of the main scheme soundings.

L. JUNCTIONS - See Eval Rpt, section 5

The hydrography run on this sheet junctions with H-10381 (May 1991) to the west, sheet "E" to the north, and sheets "F" and "H" to the east. Sheet "E", H-10417 (1992), Sheet "F", H-10415 (1991-92) Sheet "H", H-10395 (1991).

Junction soundings between the present survey and H-5866 agree well and are discussed in detail in section M of this text.

Junction soundings between the present survey and H-10381 (May 1991) agree well, within 0.25 meters. Concur

* Filed with the hydrographic data

M. COMPARISON WITH PRIOR SURVEYS - See Eval Rpt, section 6

The present survey was compared to the following prior surveys:

<u>Survey NO.</u>	<u>Scale</u>	<u>Year</u>
H-5857	1:20,000	1934-35
H-5866	1:20,000	1934-35

Due to extensive dredging operations by the U.S. Army Corps of Engineers for the creation of the Matagorda Ship Channel, both H-5866 and H-5857 had little value for sounding comparisons. (According to Mr. Robert Beggs, Area Engineer, of the Corpus Christi U.S. Army Corps of Engineers, additional dredging operations will be conducted from the channel entrance to Point Comfort in 1991.) Shoreline details for the prior surveys were also significantly different from the present. The bottom samples taken during H-10379 were found to be in general agreement with prior surveys. The hydrographer recommends that the prior surveys be superseded in all respects by H-10379 *except for the obstruction, concrete block, transferred from H-5866 (1934-35). See Eval Rpt, Section 6.*

The following was noted during comparison:

- 1) There are now numerous oil and gas wellheads with platforms located in the surveyed area at present.
- 2) In general soundings acquired during H-10379 were found to agree within 0.5 meters outside of Matagorda ship channel.
- 3) Existing bayous along shore had no geographic names.

There have been significant changes to the spoil islands to the east of, and running parallel to the ship channel. These changes are reflected by the final field sheet and show all spoil islands as submerged with the exception of one in the northwest corner at latitude 28°32'55" N, and longitude 096°29'20" W. This island is defined by sounding lines and should be redefined on future charts. *Chart as shown on TP-01648.*

The present survey was also compared to the following topographic map:

<u>MAP</u>	<u>DATE</u>	<u>SCALE</u>
6740 IV NW	1952-73	1:24,000

In general shoreline depicted on this survey has varied little with respect to shoreline detail. There were no other topographic maps made available for comparison during this survey. *Concur*

N. COMPARISON WITH THE CHART - See Eval Rpt, section 7

Comparisons were made with the following largest scale charts covering the present survey area:

Chart No.	Edition	Edition Date
11316	33rd	January 19, 1991
11317	19th	January 20, 1990
11319 SC	22nd	February 10, 1990
11317	20th	March 23, 1991
11317	21st	July 4, 1992

Survey plot outside this chart coverage

H-10379 soundings and contours agreed well with presently charted soundings and contours, after allowing for the different sounding units. In general, H-10379 channel depths are between 0.5 and 1.0 meter deeper than those indicated on the chart tabulations.

All AWOIS items (total of 10) were addressed on this survey. These items appear on the overlay sheet and are filed in order of resolution in the Separates*Following Survey Data - VI. Some of these items are described in this section for further clarification. The hydrographer strongly recommends that the verifier have a plot of the charted features, the AWOIS items, (i.e., the Field Sheet) and the surveyed detached positions on the Overlay for comparison. This will serve as a visual aid and should prove beneficial when interpreting the items mentioned in this section. An enlarged copy of the chart in conjunction with the Final Field sheets and the survey records were used for office processing.

AWOIS #5363 was addressed on sheet "D", H-10381 (1991). Concur

The following seven uncharted items were positioned:

ITEM	POS#	DN	Latitude	Longitude
Pile (1 ⁶)	- 156	- 158	28° 30' 38. ⁸⁰ " N,	096° 29' 00. ²⁸ " W
Pile (1 ⁶)	- 157	- 158	28° 30' 38. ⁰⁵ " N,	096° 29' 05. ⁹¹ " W
* Pipe (0 ⁸)	- 159	- 158	28° 31' 28. ²⁵ " N,	096° 27' 12. ⁴⁰ " W
+ Priv marker (lighted) (3 ⁷) light	- 2154	- 183	28° 32' 49. ⁷⁵ " N,	096° 27' 53. ²⁸ " W
Platform (10)	- 2155	- 183	28° 32' 50. ⁶¹ " N,	096° 28' 47. ⁵³ " W
Platform (4) Wellhead	- 2156	- 183	28° 32' 48. ⁹⁵ " N,	096° 28' 45. ³⁹ " W
Platform (4) Wellhead	- 2157	- 183	28° 32' 31.9 ^{32.00} " N,	096° 28' 58. ⁵⁵ " W

* The pipe listed above is a "Danger to Navigation" and is supported by a letter that can be found in the Descriptive Report Appendices I.
(copy attached).

* AWOIS Investigation Forms are attached to this report and filed numerically.

+ This light marks a pipeline and is not listed in section "P" of this report, but may be found on the 76-40 in the Descriptive Report ^(attached) ~~Appendices II~~.

A daily log entitled (RECORD) is included in the Separates* Following Survey Data with photographs and descriptions of all detached positions. This daily summary of production is filed with the Hydrographic Data.

An unknown spike appeared on DN 183 at position No. 2056 between the 2nd and 3rd selected sounding. At latitude 28°30'30.9" N, and longitude 96°25'45.1" W. A 40 meter diver circle search was conducted on DN 184 at this position and nothing was found. On a separate occasion during a circle search one diver reported feeling air bubbles expelling from the bottom; although this phenomenon is not expected to account for the unknown spike it could be directly linked to the spike that plots on what is now a submerged spoil island. *The spike mentioned above has been rejected. Chart this area as shown on the smooth sheet.*

O. ADEQUACY OF SURVEY ✓

This survey is a complete basic hydrographic survey and is adequate to supersede all prior surveys within the common area. *Concur*
One item, a concrete obstruction, was transferred from H-5866. See Eval Rpt, section 6.

This surveys sheet limits were expanded to the North to encompass Matagorda Ship Channel and alleviate sheet "E" of any channel lines. *Sheet "E", H-10417 (1992).*

P. AIDS TO NAVIGATION - See Eval Rpt, section 7d.

No floating aids to navigation are within the sheet limits.

Twenty-~~two~~^{one} fixed aids to navigation were located within the survey area. *Concur*

<u>Non-Floating Aid</u>	<u>Survey Position</u>	<u>Light List Position</u>
Lavaca Pipeline Light #A-8	28°33'18. ³⁸ ₂ " N 96°29'27. ⁴⁸ ₈ " W	28°33.4' N 96°29.6' W LLN 26805
Matagorda Ship Chann. Light #50 Fl Red	28°32'46. ^{45.97} ₈ " N 96°29'35. ⁶³ ₈ " W	None LLN 26350
Matagorda Ship Chann. Light #49 Fl Green	28°32'42. ¹² ₂ " N 96°29'39. ¹⁶ ₂ " W	28°32.7' N 96°29.7' W LLN 26345

* Filed with the hydrographic data.

Matagorda Ship Chann. Light #48 Fl Red	28°32'25. ⁸⁸ ₂₉ " N 96°29'07. ² " W	27°32.4' N 96°29.1' W LLN 26340
Matagorda Ship Chann. Light #47 Fl Green	28°32'21. ⁴⁸ ₀₆ " N 96°29'10. ² " W	28°32.3' N 96°29.1' W LLN 26335
Matagorda Ship Chann. Light #46 Fl Red	28°32'02. ⁰⁷ ₄₉ " N 96°28'33. ⁸ " W	28°32.0' N 96°28.5' W LLN 26320
Matagorda Ship Chann. Light #45 Fl Green	28°31'58. ⁴⁴ ₄₅ " N 96°28'37. ⁴ " W	28°32.0' N 96°28.6' W LLN 26315
Matagorda Ship Chann. Light #44 Fl Red	28°31'37. ³⁴ ₅₁ " N 96°27'58. ⁸ " W	28°31.6' N 96°28.0' W LLN 26310
Matagorda Ship Chann. Light #43 Fl Green	28°31'33. ⁷⁸ ₂₄ " N 96°28'02. ² " W	28°31.5' N 96°28.0' W LLN 26305
Matagorda Ship Chann. Light #42 Fl Red	28°31'12. ¹⁷ ₀₄ " N 96°27'23. ⁸ " W	28°31.2' N 96°27.4' W LLN 26300
Matagorda Ship Chann. Light #41 Fl Green	28°31'08. ¹¹ ₁₉ " N 96°27'25. ⁸ " W	28°31.2' N 96°27.4' W LLN 26295
Matagorda Ship Chann. Light #40 Fl Red	28°30'49. ⁷¹ ₆₅ " N 96°26'51. ⁸ " W	None LLN 26290
Matagorda Ship Chann. Light #39 Fl Green	28°30'46. ¹⁶ ₇₁ " N 96°26'54. ⁷ " W	None LLN 26285
Matagorda Ship Chann. Light #38 Fl Red	28°30'25. ⁵⁶ ₃₉ " N 96°26'17. ⁴ " W	28°30.6' N 96°26.3' W LLN 26280
Matagorda Ship Chann. Light #37 Fl Green	28°30'22. ⁷⁴ ₄₆ " N 96°26'21. ⁸ " W	None LLN 26275
Matagorda Bay Pipeline Marker Light B Fl Y	28°30'07. ³⁷ ₃₂ " N 96°25'46. ² " W	28°30.1' N 96°25.8' W LLN 26270
Matagorda Bay Pipeline Marker Light A Fl Y	28°30'01. ⁹⁷ ₆₇ " N 96°25'56. ⁸ " W	28°30.0' N 96°25.9' W LLN 26265

Matagorda Ship Chann.	28°30'05.78" N	None
Light #36 Fl Red	96°25'48.99" W	LLN 26260
Matagorda Ship Chann.	28°30'00.98" N	None
Light #35 Fl Green	96°25'50.98" N	LLN 26255
Matagorda Ship Chann.	28°29'39.98" N	None
Light #34 Fl Red	96°25'12.98" W	LLN 26250
Matagorda Ship Chann.	28°29'36.98" N	None
Light #33 Fl Green	96°25'15.98" W	LLN 26245

The non-floating aids to navigation are in good agreement with existing charts and U.S. Coast Guard Light List Volume IV, 1990. *Do not concur. See Eval Rpt, section 7d, for discrepancies.*

Numerous pipelines exist in the survey area. No recommendation is made to chart these pipelines. Per a telephone conversation with Mr. James Daily, in the Mapping and Charting Branch (N/CG2222), the current NOAA policy regarding charting of the pipelines in this survey area is to let the magenta warning of "obstructions, wells, and pipelines" suffice. *Concur*

Q. STATISTICS ✓

<u>Description</u>	<u>Quantities</u>
Total Positions	2784
Total Nautical Miles of Hydro	307.5
Sq. Nautical Miles of Hydrography	12.5
Days of Production	18
Detached Positions	34
Bottom Samples	54
Tide Stations	1
Velocity casts	7
Duplicate Positions	6

R. MISCELLANEOUS ✓

Bottom samples were taken and submitted to the Smithsonian Institution as directed in Section 6.7 of the project instructions. 54 bottom samples were transmitted on May 29, 1991. Bottom sample positions are plotted on the overlay and are listed on the Oceanographic Log Sheet-M, NOAA Form 75-44, which may be found in the Separates*Following Survey Data.

No anomalous currents were observed in the survey area.

* Filed with the hydrographic data.

Prevailing winds and high and low pressure weather systems in the Matagorda Bay area have a dramatic effect on the water levels. These winds and weather systems create high or low tides that often negate the typical daily predicted tide curves. *Concur*

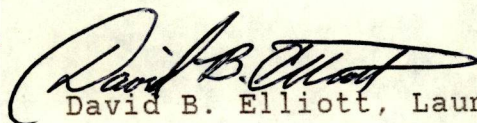
S. RECOMMENDATIONS ✓

Although U.S. Power Squadron and Coast Guard Auxiliary units are deemed a valuable source of information, they rarely have any way to accurately locate a reported feature. Because the source position is so questionable, the corresponding search radius required for disproval of these items tends to be large. Considering the time and effort required of the field survey units to conduct an adequate large radius search, we initially try to research these questionable items through discussions with knowledgeable local sources. This process would be far more successful if we required more detailed feature information from the contributing sources, and then provided this information to the survey units. *Concur*

T. REFERRAL TO REPORTS ✓

<u>Title</u>	<u>Transmittal Information</u>
Descriptive Report to Accompany H-10381	Pacific Marine Center Seattle, Washington, N/CG245
Horizontal Control Report for OPR-K228-AHP2	Field Photogrammetry Section Norfolk, Virginia, N/CG233
Chart Sales Agent Report	Chart Distribution Branch Rockville, Maryland, N/CG33
User Evaluation Report	Atlantic Hydrographic Section Norfolk, Virginia, N/CG244
Chart Inspection Report	Atlantic Hydrographic Section Norfolk, Virginia, N/CG244
Coast Pilot Report	Coast Pilot Section Mapping and Charting Branch N/CG223 Rockville, MD

Submitted by:



David B. Elliott, Launch Hydrographer in Charge

AWOIS INVESTIGATION

AWOIS # 5370

DATE: 6/4/91 (155)

CHART # 11317

LAUNCH: 0518

ITEM DESCRIPTION: Platform in Ruins (PA)

SOURCE: CL1592/81--USPS (scaled from chart 11317)

GEODETTIC POSITION

	LATITUDE (N)	LONGITUDE (W)	POSITION
CHARTED:	28° 32' 18.99"	96° 29' 06.90"	
OBSERVED:	28° 32' 20. ³⁰ ₃ "	96° 29' 1 ^{0 96} _{1.0} "	152

POSITION DETERMINED BY: HDAPS, Mini-Ranger w/ MLOP

METHOD OF INVESTIGATION: Visual

FINDINGS: Wooden platform in ruins, 2 meters sq. bares ^{2.1} meters at MHW.

DIVING INVESTIGATION

DIVERS: NONE
SEARCH RADIUS:
WATER VISIBILITY:
MAXIMUM DEPTH: BOTTOM TIME:
LEAST DEPTH:
FINDINGS:

CHARTING RECOMMENDATIONS:

The hydrographer recommends ^{retaining} retain this feature as charted. Do not concur.
Delete charted platform, PA, and chart ruins (platform) as found on this survey.

AWOIS INVESTIGATION

AWOIS # 5371

DATE: 7/3/91 (184)

CHART # 11317

LAUNCH: 0518

ITEM DESCRIPTION: Platform ruins ★

SOURCE: CL1692/77--USPS, platform reported in ruins
(scaled from chart 1:50,000)

GEODETTIC POSITION

	LATITUDE (N)	LONGITUDE (W)	POSITION
CHARTED:	28° 31' 58.99"	96° 28' 42.90"	
OBSERVED:	28° 31' 58. ⁸⁸ ₉ "	96° 28' 42. ⁸⁷ ₉ "	2159 (Center of dive search)

POSITION DETERMINED BY: HDAPS, Mini-Ranger w/ MLOP

METHOD OF INVESTIGATION: Fathometer and dive.

FINDINGS: Nothing Found.

DIVING INVESTIGATION

DIVERS: B. Ramsey, R. Rogers, D. Elliott

SEARCH RADIUS: 50 meters

WATER VISIBILITY: 1-2 meters

MAXIMUM DEPTH: 3.2 meters

BOTTOM TIME: 30 min.

LEAST DEPTH: none

FINDINGS: Negative contact

CHARTING RECOMMENDATIONS:

The hydrographer recommends ~~remove~~ ^{removing} this feature from chart. Concur

AWOIS INVESTIGATION

AWOIS # 5372

DATE: 6/4/91 (155)

CHART # 11317

LAUNCH: 0518

ITEM DESCRIPTION: Platform in Ruins

SOURCE: BP76755--5/69 COE (scaled from chart 11317)
CL1309/84--USPS

GEODETIC POSITION

	LATITUDE (N)	LONGITUDE (W)	POSITION
CHARTED:	28° 31' 30.99"	96° 28' 03.90"	
OBSERVED:	28° 31' 32. ³² / ₃ "	96° 28' 03. ¹² / ₂ "	153

POSITION DETERMINED BY: HDAPS, Mini-Ranger w/ MLOP

METHOD OF INVESTIGATION: Visual

FINDINGS: 2-12" dia. wooden piles, bares 1.⁶/₈ meters ^{at} MHW.
Remains of platform in ruins.

DIVING INVESTIGATION

DIVERS: NONE

SEARCH RADIUS:

WATER VISIBILITY:

MAXIMUM DEPTH: BOTTOM TIME:

LEAST DEPTH:

FINDINGS:

CHARTING RECOMMENDATIONS:

The hydrographer recommends ^{retaining} ~~retain~~ this feature as charted. Do not concur
Remove charted feature and chart ruins (platform) as found on this survey.

AWOIS INVESTIGATION

AWOIS # 5373

DATE: 6/7/91 (158)

CHART # 11317

LAUNCH: 0518

ITEM DESCRIPTION: Wreck of a steel boiler

SOURCE: H-5866/34-35 1:20,000

GEODETIC POSITION

	LATITUDE (N)	LONGITUDE (W)	POSITION
CHARTED:	28° 31' 09.40"	96° 29' 08.10"	
OBSERVED:	28° 31' 08. ⁸¹ / ₈ "	96° 29' 08. ²⁷ / ₈ "	154

POSITION DETERMINED BY: HDAPS, Mini-Ranger w/ MLOP

METHOD OF INVESTIGATION: Fathometer and dive.

FINDINGS: ^{Obstruction,} ~~Wreck of a~~ locomotive w/ steel boiler, 16 meters long and 4 meters wide lying on a west to east axis.

DIVING INVESTIGATION

DIVERS: B. Ramsey, R. Rogers, D. Elliott

SEARCH RADIUS: 50 meters

WATER VISIBILITY: 1-2 meters

MAXIMUM DEPTH: 2.5 meters

BOTTOM TIME: 30 min. Dive on day 184 confirms Fathometer depth.

LEAST DEPTH: ~~1.0~~ meters (3ft)

FINDINGS: ~~Wreck~~ / Obsrtuction, steel boiler.

CHARTING RECOMMENDATIONS:

The hydrographer recommends ^{retaining} retain this feature as charted. Do not concur. Delete charted submerged wreck and chart 3ft Obsn (steel boiler) as found on this survey.

AWOIS INVESTIGATION

AWOIS # 5374

DATE: 6/7/91 (158)

CHART # 11317

LAUNCH: 0518

ITEM DESCRIPTION: Reported Pile

SOURCE: CL292/72(BP82673)--USPS (scaled from chart 1:50,000)

GEODETTIC POSITION

	LATITUDE (N)	LONGITUDE (W)	POSITION
CHARTED:	28° 30' 45.00"	96° 29' 03.90"	
OBSERVED:	28° 30' 47. ²⁶ / ₂ "	96° 29' 04. ⁵¹ / ₅ "	155

POSITION DETERMINED BY: HDAPS, Mini-Ranger w/ MLOP

METHOD OF INVESTIGATION: Fathometer and visual

FINDINGS: 4 inch dia. PVC pile. *Says 1.6 meters at MHW.*

DIVING INVESTIGATION

DIVERS: NONE
SEARCH RADIUS:
WATER VISIBILITY:
MAXIMUM DEPTH: BOTTOM TIME:
LEAST DEPTH:

FINDINGS:

CHARTING RECOMMENDATIONS:

The hydrographer recommends ^{revision of} revise this feature.
Delete the charted reported pile and chart a visible pile as found on this survey. Concur

AWOIS INVESTIGATION

AWOIS # 5375

DATE: 6/7/91 (158)

CHART # 11317

LAUNCH: 0518

ITEM DESCRIPTION: Sounding (Approx 3 Ft rep 1971)

SOURCE: CL292/72(BP82673)--USPS (scaled from chart 1:50,000)

GEODETTIC POSITION

	LATITUDE (N)	LONGITUDE (W)	POSITION
CHARTED:	28° 30' 43.00"	96° 29' 00.90"	
OBSERVED:	28° 30' 43. ⁰⁹ _{.2} " 28° 30' 42.31"	96° 29' 02. ⁹⁶ _{.0} " 96° 29' 00.82"	158 721/01

POSITION DETERMINED BY: HDAPS, Mini-Ranger w/ MLOP

METHOD OF INVESTIGATION: Fathometer

FINDINGS: ² foot sounding ^{(07 meters).} as reported
A 2-foot (07 meter) sounding was found at latitude 28° 30' 42.31" N longitude 96° 29' 00.82" W (pos # 721/01). See Section 7b, AWOIS 5375, for further discussion.

DIVING INVESTIGATION

DIVERS: NONE
SEARCH RADIUS:
WATER VISIBILITY:
MAXIMUM DEPTH: BOTTOM TIME:
LEAST DEPTH:

FINDINGS:

CHARTING RECOMMENDATIONS:

The hydrographer recommends ^{retaining} ~~retain~~ this sounding as charted. Do not concur
Delete charted note and chart note "2 Ft 1991".

AWOIS INVESTIGATION

AWOIS # 5376

DATE: 7/3/91 (184)

CHART # 11317

LAUNCH: 0518

ITEM DESCRIPTION: Pipe (PA)

SOURCE: LNM39/79(9/19/79)--8th CGD, A 20 inch pipe reported. ✓

GEODETTIC POSITION

	LATITUDE (N)	LONGITUDE (W)	POSITION
CHARTED:	28° 31' 12.99"	96° 26' 48.90"	
OBSERVED:	28° 31' 12. ⁹⁷ "	96° 26' 48. ⁹¹ "	2160 (Center of dive search)

POSITION DETERMINED BY: HDAPS, Mini-Ranger w/ MLOP

METHOD OF INVESTIGATION: Fathometer and dive.

FINDINGS: Nothing Found.

DIVING INVESTIGATION

DIVERS: B. Ramsey, R. Rogers, D. Elliott

SEARCH RADIUS: 100 meters

WATER VISIBILITY: 1.5 meters

MAXIMUM DEPTH: 2.8 meters

BOTTOM TIME: 30 min.

LEAST DEPTH: none

FINDINGS: Negative contact

CHARTING RECOMMENDATIONS:

The hydrographer recommends ^{removal of} remove this feature from ^{the} chart. Concur

AWOIS INVESTIGATION

AWOIS # 5377

DATE: 7/29/91

CHART # 11317

LAUNCH: 0518

ITEM DESCRIPTION: WRECK, Reported above water.

SOURCE: CL1692/77--USPS

GEODETIC POSITION

	LATITUDE (N)	LONGITUDE (W)	POSITION
CHARTED:	28° 31' 24.99"N	096° 26' 18.90"W	
OBSERVED:	28° 31' 28.64"N	096° 26' 22.46"W	2780
	28° 31' 28.15"N	096° 26' 14.50"W	2781
	28° 31' 22.08"N	096° 26' 22.44"W	2782
	28° 31' 22.17"N	096° 26' 14.70"W	2783

} Dives

POSITION DETERMINED BY: HDAPS, MLOP

METHOD OF INVESTIGATION: Four 125 meter radius diver circle searches from the center of a buoy at the above specified locations.

FINDINGS: Nothing Found

DIVE INVESTIGATION

DIVERS: R. Ramsey, R. Rogers, D. Elliott
SEARCH RADIUS: 4-125 Meter Radius

WATER VISIBILITY: <1m
MAXIMUM DEPTH: 3.5m

BOTTOM TIME: Totaled 2 hr 52 min.

LEAST DEPTH: none

FINDINGS: NO CONTACTS OR SNAGS WERE FOUND.

CHARTING RECOMMENDATIONS: The hydrographer recommends the removal of this wreck from future charts. Do not concur. See EV21 Rpt, section 7b.

AWOIS INVESTIGATION

AWOIS # 5378

DATE: 6/7/91 (158)

CHART # 11317

LAUNCH: 0518

ITEM DESCRIPTION: Platform (PA)

SOURCE: CL1592/81--USPS, New platform reported
(scaled from chart 1:50,000)

GEODETTIC POSITION

	LATITUDE (N)	LONGITUDE (W)	POSITION
CHARTED:	28° 30' 45.00"	96° 26' 55.90"	
OBSERVED:	28° 30' 44. ⁸⁴ ₈ "	96° 26' 55. ⁶⁶ ₂ "	160

POSITION DETERMINED BY: HDAPS, Mini-Ranger w/ MLOP

METHOD OF INVESTIGATION: Fathometer and visual

FINDINGS: 1-12" dia. wooden pile, bares 2 meters at MHW.
This pile is the corner of platform ruins.

DIVING INVESTIGATION

DIVERS: NONE
SEARCH RADIUS:
WATER VISIBILITY:
MAXIMUM DEPTH: BOTTOM TIME:
LEAST DEPTH:

FINDINGS:

CHARTING RECOMMENDATIONS:

The hydrographer recommends ~~retain~~ ^{retaining} this feature as charted. Do not concur.
Remove charted platform (PA) and chart ruins (platform) as found on this survey.

AWOIS INVESTIGATION

AWOIS # 5379

DATE: 7/29/91

CHART # 11317

LAUNCH: 0518

ITEM DESCRIPTION: Platform ruins

SOURCE: CL1592/81--USPS New platform reported
CL1309/84--USPS Platform reported missing

GEODETTIC POSITION

	LATITUDE (N)	LONGITUDE (W)	POSITION
CHARTED:	28° 29' 57.00"N	096° 25' 50.90"W	
OBSERVED:	28° 29' 57. ⁰⁷ 0"N	096° 25' 50. ⁶² 0"W	2784 (Center of dive search)

POSITION DETERMINED BY: HDAPS, MLOP

METHOD OF INVESTIGATION: One 75 meter radius diver circle search from the center of a buoy at the above specified location.

FINDINGS: Nothing Found

DIVE INVESTIGATION

DIVERS: R.Ramsey, R. Rogers, D. Elliott
SEARCH RADIUS: 75 meters

WATER VISIBILITY: <1m
MAXIMUM DEPTH: 3.5m
BOTTOM TIME: 30 min.

LEAST DEPTH: none

FINDINGS: NO CONTACTS OR SNAGS WERE FOUND.

*Delete from chart - per
telcon Steve Verry and Bruce O'Rourke
- Awois radius = 50 meters
6/4/93*

CHARTING RECOMMENDATIONS: The hydrographer recommends the removal of this platform in ruins from future charts. *Do not concur*
Awois investigation requires 200 meter search. Retain this charted feature as submerged ruins PA at the present position. See Eval Rpt, sec 7b.

CONTROL STATIONS as of 5 Aug 1991

No	Type	Latitude	Longitude	H	Cart	Freq	Vel	Code	MM/DD/YY	Station Name
001	F	028:39:08.751	096:33:48.618	0	250	0.0	0.0		05/08/91	ALCOA 1990
002	F	028:40:17.832	096:38:14.547	0	250	0.0	0.0		05/08/91	BLUF 1990
003	F	028:39:44.602	096:34:56.482	0	250	0.0	0.0		05/08/91	CAUS 1990
004	F	028:34:59.695	096:36:29.911	0	250	0.0	0.0		05/08/91	CHOC 1990
005	F	028:33:23.435	096:31:27.214	0	250	0.0	0.0		05/08/91	INDI 1990
006	F	028:30:25.466	096:28:47.523	0	250	0.0	0.0	A	05/08/91	IOLA 1990
007	F	028:41:53.224	096:34:34.010	0	250	0.0	0.0		05/08/91	LAVACA RIVER LIGHT 3
008	F	028:34:07.670	096:33:55.900	0	250	0.0	0.0		05/08/91	MAGNOLIA 1934
009	F	028:35:58.915	096:34:14.622	0	250	0.0	0.0		05/08/91	MATAGORDA SHIP CH RNG C FRT LT
010	F	028:36:35.748	096:35:07.087	0	250	0.0	0.0		05/08/91	MATAGORDA SHIP CH RNG C R LT
011	F	028:35:46.234	096:34:02.389	0	250	0.0	0.0		05/08/91	MATAGORDA SHIP CH RNG D FRT LT
012	F	028:35:26.693	096:34:02.933	0	250	0.0	0.0		05/08/91	MATAGORDA SHIP CH RNG D R LT
013	F	028:38:45.468	096:33:40.338	0	250	0.0	0.0		05/08/91	MITCHELL 2 1956
014	F	028:38:23.410	096:36:38.092	0	250	0.0	0.0		05/08/91	NOLE 1990
015	F	028:39:26.182	096:35:09.367	0	250	0.0	0.0		05/08/91	PIER PK 1990
016	F	028:36:57.750	096:30:48.192	0	250	0.0	0.0		05/08/91	RHOD 1990
017	F	028:34:12.754	096:29:19.106	11	250	0.0	0.0	B	05/08/91	SAND 1990
018	F	028:43:17.942	096:36:36.067	0	250	0.0	0.0		05/08/91	VEDO 1990
019	F	028:38:37.047	096:33:47.871	0	250	0.0	0.0		05/08/91	ZEPP 1989
020	F	028:26:10.962	096:20:01.576	0	250	0.0	0.0		05/08/91	TEMP 01
021	F	028:27:39.775	096:17:46.171	0	250	0.0	0.0		05/08/91	DSGOOD 2 1906
022	F	028:35:28.458	096:11:22.074	0	250	0.0	0.0		05/08/91	LAKE 2 1906
023	F	028:40:34.424	096:16:14.007	0	250	0.0	0.0		05/08/91	TURT 1991
024	F	028:36:26.854	096:24:20.046	0	250	0.0	0.0		05/08/91	DUNG 1991
025	F	028:35:13.036	096:26:49.243	0	250	0.0	0.0		05/08/91	VACA 1991
026	F	028:23:56.880	096:24:25.771	0	250	0.0	0.0		05/08/91	RUIN 1991
027	F	028:32:20.572	096:18:44.039	0	250	0.0	0.0		05/08/91	PLAT PK 1991
028	F	028:41:52.040	096:12:37.980	0	250	0.0	0.0		05/08/91	PALA 1991
029	F	028:38:33.080	096:14:06.707	0	250	0.0	0.0		05/08/91	INDY 1991
030	F	028:35:08.620	096:17:11.588	10	250	0.0	0.0	7	05/08/91	CHAN PK 1991
031	F	028:34:45.983	096:13:33.884	0	250	0.0	0.0		05/08/91	EROD 1991
032	F	028:36:02.270	096:14:05.710	0	250	0.0	0.0		05/08/91	BULL 1991
033	F	028:26:58.573	096:24:12.880	0	250	0.0	0.0		05/08/91	EARL 1991
034	F	028:27:04.927	096:24:15.672	0	250	0.0	0.0		05/08/91	3701 E 1989
035	F	028:26:44.592	096:23:42.326	0	250	0.0	0.0		05/08/91	IW MB PORT O CONNOR LT 2
036	F	028:27:29.804	096:21:39.302	0	250	0.0	0.0		05/08/91	MATAGORDA SHIP CH N DREDGE LT
037	F	028:27:15.806	096:21:29.032	0	250	0.0	0.0		05/08/91	MATAGORDA SHIP CH S DREDGE LT
038	F	028:26:50.319	096:25:20.875	39	250	0.0	0.0		05/08/91	PORT O CONNOR MUN TANK
039	F	028:28:50.457	096:17:17.626	0	250	0.0	0.0		05/08/91	MATAGORDA BAY RANGE L REAR LT
040	F	028:28:23.778	096:18:36.611	0	250	0.0	0.0		05/08/91	MATAGORDA BAY RANGE L FRONT LT
041	F	028:27:50.191	096:19:46.085	0	250	0.0	0.0		05/08/91	MATAGORDA BAY RANGE K FRONT LT
042	F	028:27:02.190	096:21:02.812	20	250	0.0	0.0	9	05/08/91	MATAGORDA BAY RANGE K REAR LT
043	F	028:27:01.247	096:21:11.033	0	250	0.0	0.0		05/08/91	MATAGORDA BAY RANGE A REAR LT
044	F	028:26:33.967	096:20:41.967	0	250	0.0	0.0		05/08/91	MATAGORDA BAY RANGE A FRONT LT
045	F	028:26:27.482	096:26:34.785	0	250	0.0	0.0		05/08/91	PORT O CONNOR CABLE TV MAST
046	F	028:25:18.494	096:19:05.925	0	250	0.0	0.0		05/08/91	MATAGORDA BAY RANGE B REAR LT
047	F	028:25:50.351	096:20:07.986	0	250	0.0	0.0		05/08/91	MATA 1934
048	F	028:25:40.635	096:19:37.260	0	250	0.0	0.0		05/08/91	MATAGORDA BAY RANGE B FRONT LT
049	F	028:29:45.812	096:15:16.339	20	250	0.0	0.0	8	05/08/91	MATAGORDA BAY RANGE H REAR LT
050	F	028:38:33.045	096:19:19.991	0	250	0.0	0.0		05/08/91	TRULL SAT
051	F	028:43:28.301	096:15:09.749	0	250	0.0	0.0		05/08/91	PALAPORT
052	F	028:28:36.298	096:15:07.070	0	250	0.0	0.0		05/08/91	SMYTH SAT
053	F	028:30:56.831	096:10:21.410	0	250	0.0	0.0		05/08/91	POE 1934
054	F	028:39:16.001	096:13:41.524	0	250	0.0	0.0		05/24/91	COON 1991



**ADVANCE
INFORMATION**

**U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL OCEAN SERVICE**

Atlantic Hydrographic Party 2
439 West York St.
Norfolk, VA 23510-1114

June 28, 1991

TO: Commander, Eight U. S. Coast Guard District
Hale Boggs Federal Building
501 Magazine Street
New Orleans, LA 70130-3396

FROM: *LT Thomas R. Waddington*
LCDR Thomas R. Waddington, NOAA
Chief, Atlantic Hydrographic Party Two

SUBJECT: Danger to Navigation Notice for inclusion in the Local
Notice to Mariners.

While conducting a basic hydrographic survey of Matagorda Bay, Texas, for nautical charting (Registry No. H-10379), an uncharted obstruction was found. A 0.8 meter diameter steel pipe, baring 1 meter, was located at latitude 28°31'28.2"N, longitude 096°27'12.4"W (NAD 1983 Datum). It was identified as an abandoned dredge pipe. This position is 0.5 nautical miles northeast of Matagorda Ship Channel light "42".

This obstruction constitutes a correction to information shown on Chart 11317, 19th ed., Jan 20/90, and should be included in the Local Notice to Mariners.

This item was located by four lines of position from Motorola Falcon Mini-Ranger electronic positioning system units set up on third order, class 1, ground control stations. The position of the item is North American Datum of 1983.

A chart section of this area, showing the location of this danger is also included.

Questions concerning this report should be directed to the Atlantic Marine Center, Atlantic Hydrographic Section, at (804) 441-6746.

N/CG241
N/CG244X1
N/CG221

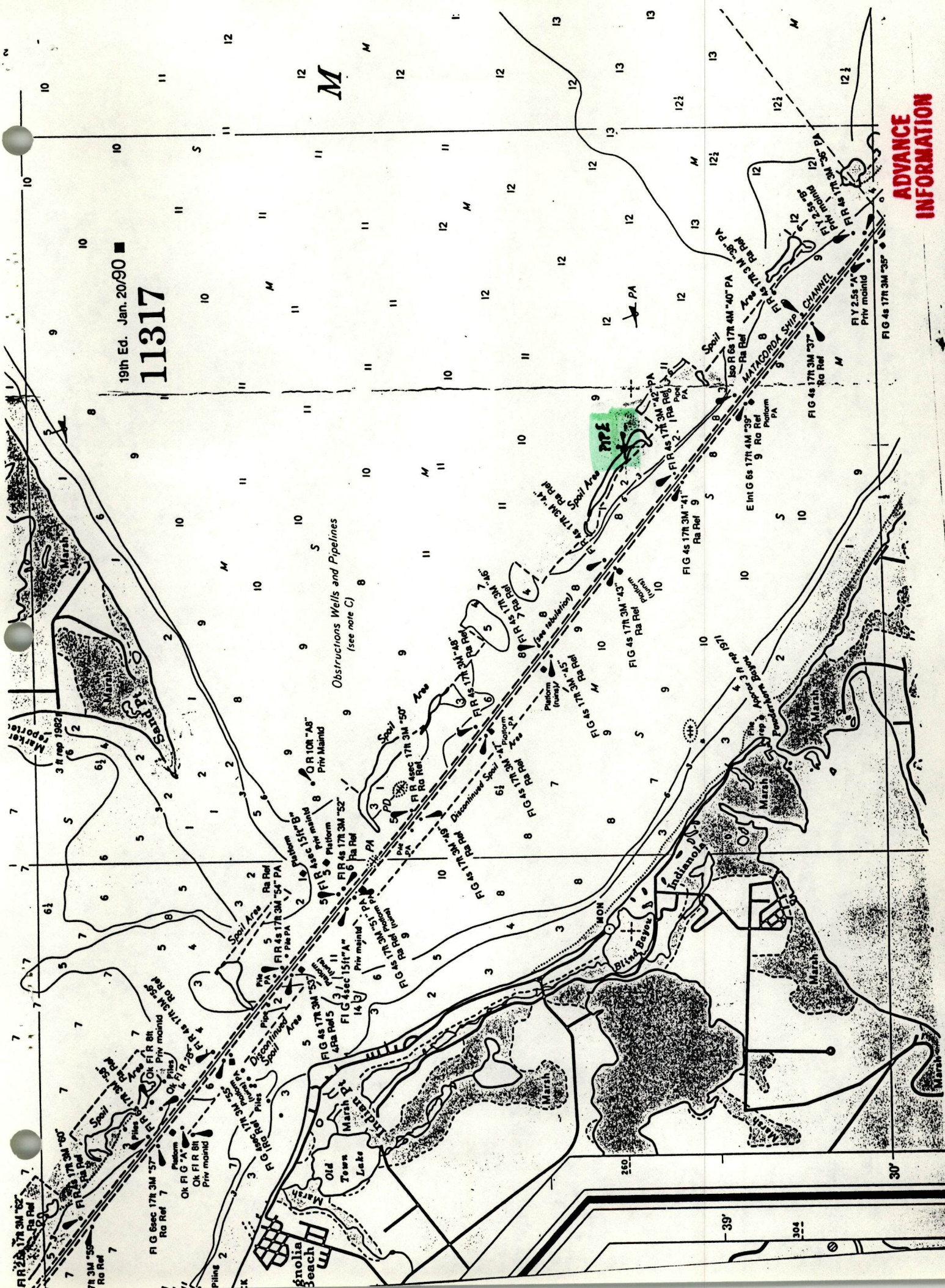
THIS IS ADVANCE FIELD INFORMATION
SUBJECT TO OFFICE VERIFICATION



19th Ed. Jan. 20/90

11317

ADVANCE INFORMATION



Obstructions Wells and Pipelines
(see note C)

OR 10R '48'
Priv moored

FIG 4s 17R 3M '52'
Ra Ref

FIG 4s 17R 3M '54' PA
Ra Ref

FIG 4s 17R 3M '57'
Ra Ref

FIG 4s 17R 3M '50'
Ra Ref

FIG 4s 17R 3M '51'
Ra Ref

FIG 4s 17R 3M '53'
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FIG 4s 17R 3M '55'
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FIG 4s 17R 3M '56'
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FIG 4s 17R 3M '30'
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FIG 4s 17R 3M '39'
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FIG 4s 17R 3M '40'
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FIG 4s 17R 3M '41'
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FIG 4s 17R 3M '42'
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FIG 4s 17R 3M '61'
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FIG 4s 17R 3M '62'
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FIG 4s 17R 3M '63'
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FIG 4s 17R 3M '64'
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FIG 4s 17R 3M '65'
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FIG 4s 17R 3M '66'
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FIG 4s 17R 3M '67'
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FIG 4s 17R 3M '68'
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FIG 4s 17R 3M '69'
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FIG 4s 17R 3M '70'
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FIG 4s 17R 3M '71'
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FIG 4s 17R 3M '73'
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FIG 4s 17R 3M '74'
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FIG 4s 17R 3M '75'
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FIG 4s 17R 3M '90'
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FIG 4s 17R 3M '91'
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FIG 4s 17R 3M '92'
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FIG 4s 17R 3M '99'
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FIG 4s 17R 3M '00'
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FIG 4s 17R 3M '01'
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FIG 4s 17R 3M '03'
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FIG 4s 17R 3M '56'
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FIG 4s 17R 3M '57'
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FIG 4s 17R 3M '58'
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FIG 4s 17R 3M '59'
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FIG 4s 17R 3M '60'
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FIG 4s 17R 3M '61'
Ra Ref

NOAA FORM 76-40
(8-74)

Replaces C&GS Form 567.

**NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
U.S. DEPARTMENT OF COMMERCE
NONFLOATING AIDS OR LANDMARKS FOR CHARTS**

<input checked="" type="checkbox"/> TO BE CHARTED (Record reason for deletion of landmark or aid to navigation.)	REPORTING UNIT (Field Party, Ship or Office)	STATE	LOCALITY	DATE
<input type="checkbox"/> TO BE REVISED	AHP#2	TEXAS	MATAGORDA BAY	8/5/91
<input type="checkbox"/> TO BE DELETED				

The following objects HAVE HAVE NOT been inspected from seaward to determine their value as landmarks.

OPR PROJECT NO. K228	JOB NUMBER 10-6-91	SURVEY NUMBER H-10379	DATUM NAD 83	METHOD AND DATE OF LOCATION (See instructions on reverse side)	CHARTS AFFECTED
-------------------------	-----------------------	--------------------------	-----------------	---	--------------------

CHARTING NAME	DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)	POSITION		LONGITUDE // D.P. Meters	OFFICE	FIELD
		LATITUDE ° / D.M. Meters	LONGITUDE ° / D.P. Meters			
LIGHT	MARKER (PRIV. MAINTD. LIGHTED) LAVACA PIPELINE CO. (512-987-2654)	28 32	96.75	28 53.3		F-3-L
	Prev rep.					
	L-776(92)					

ORIGINATING ACTIVITY

- HYDROGRAPHIC PARTY
 - GEODETIC PARTY
 - PHOTO FIELD PARTY
 - COMPILATION ACTIVITY
 - FINAL REVIEWER
 - QUALITY CONTROL & REVIEW GRP.
 - COAST PILOT BRANCH
- (See reverse for responsible personnel)

TYPE OF VESSEL

NAME OF VESSEL

NAME OF COMMANDER

NAME OF SURVEYOR

NAME OF ASSISTANT SURVEYOR

NAME OF CHARTERER

NAME OF PILOT

NAME OF PILOT ASSISTANT

RESPONSIBLE PERSONNEL		ORIGINATOR
TYPE OF ACTION	NAME	
OBJECTS INSPECTED FROM SEAWARD	ATLANTIC HYDRO PARTY # 2 COAST AND GEODETIC SURVEY	<input type="checkbox"/> PHOTO FIELD PARTY <input checked="" type="checkbox"/> HYDROGRAPHIC PARTY <input type="checkbox"/> GEODETIC PARTY <input type="checkbox"/> OTHER (Specify)
POSITIONS DETERMINED AND/OR VERIFIED	DAVID B. ELLIOT	FIELD ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW		OFFICE ACTIVITY REPRESENTATIVE
ACTIVITIES		<input type="checkbox"/> REVIEWER <input type="checkbox"/> QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE
INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION' (Consult Photogrammetric Instructions No. 64.)		
OFFICE	OFFICE IDENTIFIED AND LOCATED OBJECTS	FIELD (Cont'd)
	1. OFFICE IDENTIFIED AND LOCATED OBJECTS Enter the number and date (including month, day, and year) of the photograph used to identify and locate the object. EXAMPLE: 75E(C)6042 8-12-75	B. Photogrammetric field positions** require entry of method of location or verification, date of field work and number of the photograph used to locate or identify the object. EXAMPLE: P-8-V 8-12-75 74L(C)2982
FIELD	I. NEW POSITION DETERMINED OR VERIFIED Enter the applicable data by symbols as follows: F - Field L - Located V - Verified 1 - Triangulation 2 - Traverse 3 - Intersection 4 - Resection A. Field positions* require entry of method of location and date of field work. EXAMPLE: F-2-6-L 8-12-75	II. TRIANGULATION STATION RECOVERED When a landmark or aid which is also a triangulation station is recovered, enter 'Triang. Rec.' with date of recovery. EXAMPLE: Triang. Rec. 8-12-75
	III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH Enter 'V-Vis.' and date. EXAMPLE: V-Vis. 8-12-75	**PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.
	*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.	



UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL OCEAN SERVICE
Coast and Geodetic Survey
Seattle, Washington 98115-0070

August 27, 1991

FILE COPY

ADVANCE
INFORMATION

Commander (OAN)
Eighth Coast Guard District
Hale Boggs Federal Building
501 Magazine Street
New Orleans, LA 70130-3396

Dear Sir:

During office review of hydrographic survey H-10379, located in Matagorda Bay, Texas, two dangers to navigation in the vicinity of the entrance to Powderhorn Bayou were identified. These dangers effect chart 11317 (19th ed., Jan 20, 1990; datum: NAD 83), and chart 11316 (32nd ed., Jan 14, 1989; datum: NAD 83).

I recommend that the enclosed Report of Dangers to Navigation be included in the Local Notice to Mariners.

Questions concerning this report should be directed to the Pacific Hydrographic Section at (206) 526-6835.

Sincerely,

Douglas G. Hennick
Commander, NOAA
Chief, Pacific Hydrographic Section

Enclosure

cc:DMAH/TC
N/CG221



REPORT OF DANGERS TO NAVIGATION

Hydrographic Survey Registry Number: H-10379

Survey Title: State: Texas

General Locality : Matagorda Bay

Sublocality : Boggy Bayou to Powderhorn Bayou

Project Number: OPR-K228-AHP Atlantic Hydrographic Party

The following items were discovered during office processing of hydrographic survey H-10379

Objects Discovered: Two pilings, corrected for predicted tides.

Effected nautical charts:

CHART NUMBER	CHART		REPORTED HEIGHT	HORIZ. DATUM	GEOGRAPHIC POSITION	
	EDITION NO.	DATE			LATITUDE(N)	LONGITUDE(W)
11317	19	Jan 20, 1990	-5.6 feet	NAD 83	28°30'38.79"	96°29'00.27"
11317	19	Jan 20, 1990	-5.6 feet	NAD 83	28°30'38.04"	96°29'05.91"
11316	32	Jan 14, 1989	-5.6 feet	NAD 83	28°30'38.79"	96°29'00.27"
11316	32	Jan 14, 1989	-5.6 feet	NAD 83	28°30'38.04"	96°29'05.91"



UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL OCEAN SERVICE
Coast and Geodetic Survey
Seattle, Washington 98115-0070

Pacific Hydrographic Section
7600 Sand Point Way NE
Seattle, WA 98115-0070

October 22, 1991

**ADVANCE
INFORMATION**

Commander (OAN)
Eighth Coast Guard District
Hale Boggs Federal Building
501 Magazine Street
New Orleans, LA 70130-3396

Dear Sir:

During office review of the following hydrographic surveys,
twenty-eight new dangers to navigation were found:

<u>Survey</u>	<u>Title</u>
H-10379	Texas, Matagorda Bay, Boggy Bayou to Powderhorn Bayou
H-10380	Texas, Matagorda Bay, 5.5 Nautical Miles Southwest of Palacios Point
H-10381	Texas, Matagorda Bay, Indianola Island to Gallinipper Point
H-10382	Texas, Matagorda Bay, Tres Palacios Bay
H-10396	Texas, Matagorda Bay, Entrance to Turtle Bay
H-10397	Texas, Matagorda Bay, 4.5 Nautical Miles East of Port O'Connor

These dangers to navigation affect the following charts:

<u>Chart</u>	<u>Edition/date</u>	<u>Datum</u>
11316	33rd ed., 1/19/91	NAD 83
11317	20th ed., 3/23/91	NAD 83
11319	22nd ed., 2/10/91	NAD 83

I recommend that the enclosed Report of Dangers to Navigation
be included in the Local Notice to Mariners.

Questions concerning this report should be directed to the
Pacific Hydrographic Section at (206) 526-6853.

Sincerely,

for Douglas G. Hennick
Commander, NOAA
Chief, Pacific Hydrographic Section

Enclosure

cc: DMA/TC
N/CG221



REPORT OF DANGERS TO NAVIGATION

Hydrographic Survey Registry Numbers and Titles:

<u>Survey Number</u>	<u>Title</u>
H-10379	Texas, Matagorda Bay, Boggy Bayou to Powderhorn Bayou
H-10380	Texas, Matagorda Bay, 5.5 Nautical Miles Southwest of Palacios Point
H-10382	Texas, Matagorda Bay, Tres Palacios Point
H-10396	Texas, Matagorda Bay, Entrance to Turtle Bay
H-10381	Texas, Matagorda Bay, Indianola Island to Gallinipper Point

Project Number: OPR-K228-AHP, Atlantic Hydrographic Party

All soundings reduced to Mean Lower Low Water using predicted tides.

Affected nautical charts:

<u>Chart</u>	<u>Edition/date</u>	<u>Datum</u>
11316	33rd ed., 1/19/91	NAD 83
11317	20th ed., 3/23/91	NAD 83

<u>Danger to Navigation</u>	<u>Latitude(N)</u>	<u>Longitude(W)</u>
8 ft shoal.....	28°29'08.0"	96°25'32.0" ✓
8 ft shoal.....	28°29'25.0"	96°26'19.0" ✓
8 ft shoal.....	28°30'06.0"	96°19'07.0"
10 ft shoal.....	28°30'32.0"	96°17'45.0"
9 ft shoal.....	28°30'48.0"	96°19'27.5"
7 ft shoal.....	28°31'13.0"	96°28'55.0" ✓
9 ft shoal.....	28°31'53.0"	96°18'15.0"
5 ft shoal.....	28°32'27.0"	96°29'34.0" ✓
7 ft soundings in the vicinity of.....	28°33'13.0"	96°28'26.0" ✓
10 ft shoal.....	28°33'24.0"	96°19'55.0"
4 ft shoal.....	28°33'55.0"	96°31'36.0"
Submerged Platform Ruins.....	28°34'16.0"	96°17'40.0"
Charted visible platform observed as		
5 ft shoal.....	28°34'24.0"	96°32'51.0"
9 ft shoal.....	28°34'44.4"	96°17'11.4"
4 ft shoal.....	28°34'52.0"	96°33'08.0"
10 ft shoal.....	28°35'00.1"	96°19'03.8"
10 ft shoal.....	28°35'42.0"	96°19'10.8"
8 ft shoal.....	28°36'47.4"	96°18'24.0"
6 ft shoal.....	28°36'48.0"	96°17'11.4"
7 ft shoal.....	28°36'56.3"	96°16'49.2"
8 ft shoal.....	28°37'00.0"	96°20'21.0"
Visible Crib.....	28°38'24.0"	96°19'18.0"
Revise charted "5ft" note to "1/2 ft".....	28°38'27.0"	96°19'22.5"
Visible Crib.....	28°38'29.7"	96°18'46.7"
Visible Crib.....	28°38'31.8"	96°18'47.1"

See Encl Rpt,
Section 7F.

Questions concerning this report should be directed to the Pacific Hydrographic Section at (206) 526-6853.

APPROVAL SHEET

BASIC HYDROGRAPHIC SURVEY

OPR-K228/91-3

AHP2-10-6-91

H-10379

1991

This basic hydrographic survey was conducted in accordance with the project instructions for OPR-K228/91-3, the hydrographic manual, the hydrographic survey guidelines, and the field procedures manual. The survey data and reports were completed under frequent supervision. All boat sheets and final field sheets were reviewed in their entirety and all supporting records were also checked.

This survey is a complete basic hydrographic survey for the area described in Section B of this report.

Thomas R. Waddington

Thomas R. Waddington

Lieutenant, NOAA

Chief, Atlantic Hydrographic Party Two

ORIGINAL



**UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration**

NATIONAL OCEAN SERVICE
Rockville, Maryland 20852

TIDE NOTE FOR HYDROGRAPHIC SURVEY

DATE: October 21, 1991

MARINE CENTER: Pacific

OPR: K228

HYDROGRAPHIC SHEET: H-10379

LOCALITY: Matagorda Bay, Boggy Bayou to Powderhorn Bayou, TX

TIME PERIOD: May 16 - July 29, 1991

TIDE STATIONS USED: 877 3701 Port O'Connor, TX
Lat. 28° 27.2'N Lon. 96° 24.3'W

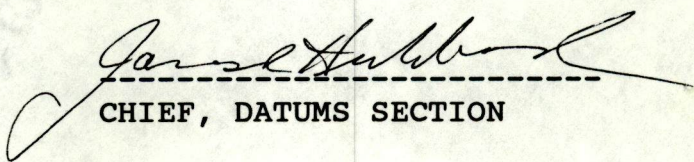
PLANE OF REFERENCE (MEAN LOWER LOW WATER): 2.11 feet

HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE: 1.0 feet

REMARKS: RECOMMENDED ZONING

Zone direct

NOTE: Hourly heights are tabulated on Central Standard Time.



CHIEF, DATUMS SECTION



OPR-K228
AHP2-10-6-91
H-10379

GEOGRAPHIC NAMES

Name on Survey SHEET "G"	ON CHART NO. 11317										
	A	B	C	D	E	F	G	H	K		
	ON PREVIOUS SURVEY NO.	CON U.S. QUADRANGLE MAPS	FROM LOCAL INFORMATION	ON LOCAL MAPS	P.O. GUIDE OR MAP	RAND McNALLY ATLAS	U.S. LIGHT LIST				
BOGGY BAYOU	X										1
BROAD BAYOU	X										2
HUCKLEBERRY BAYOU	X										3
INDIANOLA	X										4
LA SALLE BAYOU	X										5
MATAGORDA BAY	X										6
MATAGORDA SHIP CHANNEL	X										7
POWDERHORN BAYOU	X										8
POWDERHORN LAKE	X										9
TEXAS (title)	X										10
											11
											12
											13
											14
										Approved:	15
											16
										<i>Charles E. Huntington</i>	17
										Chief Geographer - N/CG2x5	18
										SEP 10 1991	19
											20
											21
											22
											23
											24
											25

HYDROGRAPHIC SURVEY STATISTICS

H-10379

RECORDS ACCOMPANYING SURVEY: To be completed when survey is processed.

RECORD DESCRIPTION		AMOUNT	RECORD DESCRIPTION		AMOUNT
SMOOTH SHEET		1	SMOOTH OVERLAYS: POS., ARC, EXCESS		5
DESCRIPTIVE REPORT		1	FIELD SHEETS AND OTHER OVERLAYS		4
DESCRIP-TION	DEPTH/POS RECORDS	HORIZ. CONT. RECORDS	SONAR-GRAMS	PRINTOUTS	ABSTRACTS/SOURCE DOCUMENTS
ACCORDION FILES	1				
ENVELOPES					
VOLUMES					
CAHIERS					
BOXES					

SHORELINE DATA

SHORELINE MAPS (List):

PHOTOBATHYMETRIC MAPS (List):

NOTES TO THE HYDROGRAPHER (List):

SPECIAL REPORTS (List):

NAUTICAL CHARTS (List):

OFFICE PROCESSING ACTIVITIES

The following statistics will be submitted with the cartographer's report on the survey

PROCESSING ACTIVITY	AMOUNTS			
	VERIFICATION	EVALUATION	TOTALS	
POSITIONS ON SHEET			2773	
POSITIONS REVISED	1		1	
SOUNDINGS REVISED	78	2	80	
CONTROL STATIONS REVISED				
	TIME-HOURS			
	VERIFICATION	EVALUATION	TOTALS	
PRE-PROCESSING EXAMINATION				
VERIFICATION OF CONTROL				
VERIFICATION OF POSITIONS	6		6	
VERIFICATION OF SOUNDINGS	79		79	
VERIFICATION OF JUNCTIONS				
APPLICATION OF PHOTOBATHYMETRY				
SHORELINE APPLICATION/VERIFICATION				
COMPILATION OF SMOOTH SHEET	93		93	
COMPARISON WITH PRIOR SURVEYS AND CHARTS		4	4	
EVALUATION OF SIDE SCAN SONAR RECORDS				
EVALUATION OF WIRE DRAGS AND SWEEPS				
EVALUATION REPORT		82	82	
GEOGRAPHIC NAMES				
OTHER* Digitization				
*USE OTHER SIDE OF FORM FOR REMARKS	TOTALS	178	86	264

Pre-processing Examination by	Beginning Date 8/16/91	Ending Date 8/23/91
Verification of Field Data by J. Green	Time (Hours) 178	Ending Date 1/12/93
Verification Check by B. Olmstead, R. Davies	Time (Hours) 40	Ending Date 10/7/92
Evaluation and Analysis by B. Olmstead	Time (Hours) 86	Ending Date 3/10/93
Inspection by J. Green	Time (Hours) 4	Ending Date 4/5/93

EVALUATION REPORT

H-10379

1. INTRODUCTION

Survey H-10379 is a basic hydrographic survey accomplished by the Atlantic Hydrographic Party 2 under the following Project Instructions.

OPR-K228-AHP, dated March 1, 1991
CHANGE NO. 1, dated June 4, 1991
CHANGE NO. 2, dated June 11, 1991

This survey was conducted in Texas and covers the area in Matagorda Bay east of Indianola. The surveyed area extends offshore from Powderhorn Bayou southeast to Broad Bayou, and includes a portion of the Matagorda Ship Channel. The surveyed area is bounded by latitude 28/28/10N to the south, latitude 28/33/24N to the north, longitude 96/25/10W to the east and longitude 96/29/38W to the west. The near shore area is gently sloping with the shoreline consisting of marsh areas and the entrance to several bayous. The bottom consists primarily of brown mud. Depths range from 0.1 to 12.3 meters.

Predicted tides for Port O'Conner, Texas, zoned according to the project instructions, were used for the reduction of soundings during field processing. Approved hourly heights zoned direct from Port O'Connor, Texas, gage 877-3701, were used during office processing.

The field sheet parameters have been revised to center the hydrography on the smooth sheet and to change the projection to polyconic. NAD 83 is used as the horizontal datum for plotting and position computation. The TRA, sound velocity and electronic control correctors are adequate. An accompanying computer printout contains the parameters and the correctors.

A digital file has been generated for this survey as required by the specifications contained in Hydrographic Survey Guideline No. 52, Standard Digital Data Exchange Format, April 15, 1986. Certain descriptive information, however, may not be in the digital record due to restrictions of the presently available cartographic codes. The user should refer to the smooth sheet for complete information.

2. CONTROL AND SHORELINE

Sections H and I of the hydrographer's report contain adequate discussions of horizontal control and hydrographic positioning. Additional detailed information on horizontal control is in the following.

Field Report, Matagorda Bay, Texas, and Vicinity, Third Order-Class One Traverse, AMC Coastal Surveys Unit, January 23, 1989, to March 13, 1989.

San Antonio and Lavaca Bays, Texas, GPS and Terrestrial Survey, C. S. Middleton Jr - Party Chief, October 1990.

Project Report, Matagorda Bay and Vicinity, Texas, GPS Hydrographic Support Survey, March 4 to March 20, 1991.

Positions of horizontal control stations used during hydrography are 1989, 1990 and 1991 field values based on NAD 83. These values were used during office processing for the computation of positions. The smooth sheet and accompanying overlays are annotated with an NAD 27 adjustment tick based on values determined with NGS program NADCON. Geographic positions based on NAD 27 may be plotted on the smooth sheet utilizing the NAD 83 projection by applying the following corrections.

Latitude: 1.000 seconds (30.791 meters)
Longitude: 0.908 seconds (24.687 meters)

The year of establishment of control stations shown on the smooth sheet originates with the above referenced geodetic control reports.

The quality of several positions exceeds limits in terms of error circle radius and residual. These positions have been reviewed and were either recomputed by interpolation between fixes with acceptable error circle radii or residuals, rejected, or accepted if consistent with adjoining data. None of these fixes were used to position dangers to navigation.

The following shoreline map was compiled on NAD 83 and applies to this survey.

<u>Photo</u>	<u>Date</u>	<u>Class</u>	<u>Scale</u>
TP-01648	Feb., Mar. 1989	III	1:20,000

3. HYDROGRAPHY

With the exceptions noted below, hydrography is adequate to:

- a. delineate the bottom configuration, determine least depths, and draw the standard depth curves;
- b. reveal there are no significant discrepancies or anomalies requiring further investigation; and
- c. show the survey was properly controlled and soundings are correctly plotted.

In addition the following items are noted: (1) Broad Bayou and Huckleberry Bayou could not be sounded due to depths less than one meter. The smooth sheet has been annotated to reflect this situation. (2) The hydrographer was unable to define the zero curve due to shallowness which prevented an approach by boat. (3) Several isolated shoal soundings rising .5 meters off the bottom were discovered in surrounding depths of 3-4 meters. These shoaler soundings are likely submerged wellheads, shell mounds and or pipelines which exist throughout Matagorda Bay. The charted cautionary note, Obstructions, Wells, and Pipelines, suffices to warn the user that such likely conditions can be expected. No additional investigation of these shoaler soundings is required. (4) The channel leading into Powderhorn Bayou and Powderhorn Lake, latitude 28/30/43N, longitude 96/29/01W, was not defined during this survey (AWOIS Item 5375).

4. CONDITION OF SURVEY

The hydrographic records and reports received for processing are adequate and conform to the requirements of the Hydrographic Manual, 4th Edition, revised through Change No. 3, the Hydrographic Survey Guidelines, and the Field Procedures Manual, dated March 1991, except for the following.

Data supporting the settlement and squat correctors to be used for this survey were not included with the survey records. A copy of the settlement and squat measurements, to include data relating vessel rpm readings to vessel speed (meters per second), should be provided for verification purposes.

The hydrographer located twenty-one fixed aids to navigation within the survey area but failed to state how many meters the fixed or floating aid to navigation differed from its respective charted position. Five of these fixed aids to navigation, Matagorda Ship Channel Lights 33, 34, 35, 36, and Lavaca Pipeline Light A-8, plot 50 to 150 meters from their respective charted positions. Reference the Hydrographic Manual, section 4.5.13.1, Non-floating Aids and Landmarks and the Field Procedures Manual, Figure 6.1, Descriptive Report Checkoff List, Section P, Aids to Navigation.

The project instructions specify survey H-5866 as a prior survey. An evaluation of the agreement of depths and non-sounding features should have been exclusively addressed in the hydrographer's report as a prior survey. The hydrographer should not have discussed prior survey H-5866 as a junction survey.

A comparison with the prior survey should discuss trends such as shoaling or deepening that has occurred in the survey area. Give conclusions or opinions as to the reasons for significant differences. In addition, significant changes in the shoreline should be accounted for in a like quantifiable manner, discussing degree of accretion or erosion. Reference the FPM Figure 6.1, Section M, Comparison with Prior Surveys.

AWOIS items 5375, 5377, and 5379 were not adequately addressed by the hydrographer. In addition, AWOIS item 5380 (unassigned), a charted "1 ft rep 1982", was not resolved.

5. JUNCTIONS

Survey H-10379 junctions with the following surveys.

<u>Survey</u>	<u>Year</u>	<u>Scale</u>	<u>Area</u>
H-10381	1991	10000	West
H-10395	1991	10000	Southeast
H-10415	1991-92	10000	Northeast
H-10417	1992	10000	North

The junctions with surveys H-10381, H-10395, H-10415 and H-10417 have been completed. A comparison of depths within the common junctional areas reveal general differences of .2 meter. One feature from survey H-10381, a submerged wreck (1.6 meters), has been transferred to survey H-10379. In addition, two soundings were

transferred from survey H-10417 to better delineate the bottom configuration within the common area.

6. COMPARISON WITH PRIOR SURVEYS

H-5857 (1934-35) 1:20000

H-5866 (1934-35) 1:20000

Survey H-5866 provides the most recent prior survey coverage for most of the area of the present survey, with survey H-5857 providing coverage for the northwest corner. These priors were accomplished before the dredging of the Matagorda Ship Channel. Except for the dredged channel and the spoil areas adjacent to it, the area has remained very stable, with depths agreeing to within plus or minus half a meter. The shoreline from Broad Bayou to Powderhorn Bayou has generally accreted seaward from 50 to 100 meters with the largest changes in the area northwest of Broad Bayou and in the vicinity of Powderhorn Bayou.

A charted rock awash at latitude 28/31/05N, longitude 96/29/13W, originates from a rock awash symbol described as concrete awash MLW on prior survey H-5866. This feature was not found or investigated during the present survey and has been brought forward to the smooth sheet as an obstruction (concrete).

With the transfer of the above feature, survey H-10379 is adequate to supersede these prior surveys within the common areas.

AWOIS Item 5373 originates from the prior survey H-5866. Refer to the AWOIS item discussion attached to the hydrographer's report for the disposition of this item.

7. COMPARISON WITH CHART

Chart 11317, 19th edition, dated Jan. 20, 1990; scale 1:50,000

Chart 11317, 20th edition, dated March 23, 1991; scale 1:50,000

Chart 11317, 21st edition, dated July 4, 1992; scale 1:50,000

The charted information shown on the 19th and 20th editions are identical for the area covered by this survey. The 21st edition has been updated by a partial application of the final field sheet for survey H-10379 and the dangers to navigation reports submitted August 27, 1991 and October 22, 1991.

a. Hydrography

Charted hydrography originates with surveys H-5857, H-5866, critical soundings from final field sheet H-10379, and other miscellaneous sources. Several charted features were not found or investigated during this survey, or not investigated adequately for disapproval. The items, listed below, should be retained at their presently charted positions and depicted as shown below.

<u>Feature</u>	<u>Latitude(N)</u>	<u>Longitude(W)</u>	<u>AWOIS</u>
"1 ft rep 1982"	28/28/30	96/26/00	5380
Subm Wreck PA	28/31/25	96/26/19	5377
Platform ruins PA	28/29/57	96/25/51	5379

Except for those items previously listed, survey H-10379 is adequate to supersede charted hydrography within the common area.

b. AWOIS

Except for AWOIS Item 5373, which originates from a prior survey, the remaining AWOIS items originate from miscellaneous sources. Refer to the AWOIS investigation reports attached to the hydrographer's report, section 7.a of this report and as follows for discussion and disposition of these features.

AWOIS Item 5377, a charted submerged wreck PA, at latitude 28/31/25N, longitude 96/26/19W, was extensively investigated by four 125 meter radius diver circle searches. A plot of these searches, however, shows a holiday at the center, the position of the charted feature. A 50 meter radius diver circle search centered at the charted position of the feature would suffice for disproval. Until this can be accomplished, this feature should be retained as charted.

The reported depth charted as "1 ft rep 1982" in Broad Bayou, latitude 28/28/30N, longitude 96/26/00W, was not discussed in the hydrographer's report. A note on a preliminary boat sheet indicates that a wading search with a sounding pole was conducted, however, this information is not adequate to supersede the charted information. The charted note "1 ft rep 1982" should be retained as charted. This feature is AWOIS Item 5380 (unassigned) according to the pre-survey annotated chart.

A platform in ruins PA (AWOIS Item 5379), at latitude 28/29/57N, longitude 96/25/51W, was not adequately investigated during this survey. The platform in ruins PA should be charted as submerged ruins PA at its' presently charted position.

- Delete AWOIS 5379 from chart - per telco Verry - Olmstead - 6/14/93
The charted note, "approx 3 ft rep 1971", at latitude 28/30/43N, longitude 96/29/01W, is AWOIS 5375 and should be revised to "2 ft 1991" (0.7 meters). However, several depths over one meter were found just west of the charted "approx 3 ft rep 1971". These deeper depths could be an indication of a navigable waterway into Powderhorn Bayou, which the hydrographer failed to delineate.

c. Controlling Depths

The Matagorda Ship Channel transits the area of this survey. The depths found during this survey are consistent with, or deeper than, the controlling depths tabulated on chart 11317.

d. Aids to Navigation

There are no floating aids located within the area of this survey.

The 21 fixed aids within the survey area were located to hydrographic surveying standards and serve their intended purpose. However, Matagorda Ship Channel Lights 33, 34, 35, 36 and Lavaca Pipeline Light A-8, plot from 50 to 150 meters from their respective charted positions. The positions of these aids can be found in the hydrographer's report, section P. A NOAA Form 76-40 was not supplied by the hydrographer to report these new positions.

There are no landmarks within the area of this survey.

e. Geographic Names

Names appearing on the smooth sheet and in the survey title have been approved by the Chief Geographer.

f. Dangers to Navigation

The hydrographer reported one obstruction, an 0.8 meter diameter steel pipe, to the USCG and N/CG222. Five additional dangers were discovered during office processing. Copies of both reports are attached. However, later review of this data discovered that two of these additional dangers were found to be misdigitized depths. This error resulted in final plotted depths being one meter deeper than reported and therefore consistent with the surrounding soundings. Reference the attached danger to navigation letter which has been annotated to reflect this situation.

8. COMPLIANCE WITH INSTRUCTIONS

Survey H-10379 adequately complies with the Project Instructions except as noted in this report.

9. ADDITIONAL FIELD WORK

This is an adequate basic hydrographic survey. Additional field work on a low priority basis is recommended to investigate the following.

a. Delineate the channel and determine the minimum depth leading into Powderhorn Bayou (AWOIS Item 5375).

b. A 50-meter radius diver search at the position of the charted submerged wreck PA, latitude 28/31/25N, longitude 96/26/19W, to complete the investigation of AWOIS Item 5377.

c. Investigate to the required 200-meter radius the charted platform in ruins PA, at latitude 28/29/57N, longitude 96/25/51W (AWOIS Item 5379). *Item deleted per telcon*

Kerry/Olmstead on 6/4/93 - 50-meter radius required.
d. Locate or disprove the existence of the charted rock awash at latitude 28/31/05N, longitude 96/29/13W, originating from prior survey H-5866.

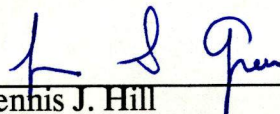
e. Investigate the reported note "1 ft rep 1982" charted in Broad Bayou, latitude 28/28/30N, longitude 96/26/00W.

Bruce A. Olmstead
Bruce A. Olmstead
Senior Cartographer

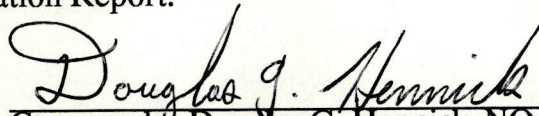
APPROVAL SHEET
H-10379

Initial Approvals:

The completed survey has been inspected with regard to survey coverage, delineation of the depth curves, development of critical depths, cartographic symbolization, comparison with prior surveys and verification or disproval of charted data. The digital data have been completed and all revisions and processing have been entered in the magnetic tape record for this survey. Final control, position, and sounding printouts have been made and are included with the survey records. The survey records and digital data comply with NOS requirements except where noted in the Evaluation Report.

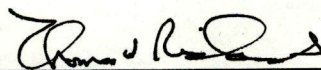
for  Date: 4/6/93
Dennis J. Hill
Chief, Hydrographic Processing Unit
Pacific Hydrographic Section

I have reviewed the smooth sheet, accompanying data, and reports. This survey and accompanying digital data meet or exceed NOS requirements and standards for products in support of nautical charting except where noted in the Evaluation Report.

 Date: 4/15/93
Commander Douglas G. Hennick, NOAA
Chief, Pacific Hydrographic Section

Final Approval

Approved:

 Date: 12-13-94
for J. Austin Yeager
Rear Admiral, NOAA
Director, Coast and Geodetic Survey

DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
National Ocean Survey
Rockville, Maryland

Hydrographic Index No. 90 C

