



Vopak Terminal Deer Park Regulatory Permit Renewal SWG-2007-00247



Dredge template for original permit 12314 authorizing periodic maintenance dredging.

Dredging of maintenance material will be performed by mechanical or hydraulic means. Approximately 150,000 cubic yards of maintenance material will need to be removed every three years.

Driving Instructions to Project Site: From Houston take I-45 South to Exit 40B for Texas 35S/Interstate 610 E. Take exit 30B for TX-225 E/La Porte toward Pasadena. Keep left and merge onto TX-225E. Take the exit toward Independence Parkway. Merge onto Pasadena Freeway Frontage Rd. turn left onto S. Battleground Rd./Independence Parkway. Continue for ~2.5 miles on Independence Pkwy to Vopake Deer Park Terminal on left.
 Northing/Y: 13840556 Easting/X: 3206999

NO.	REVISIONS	BY	DATE
	Sheet 1 of 1		



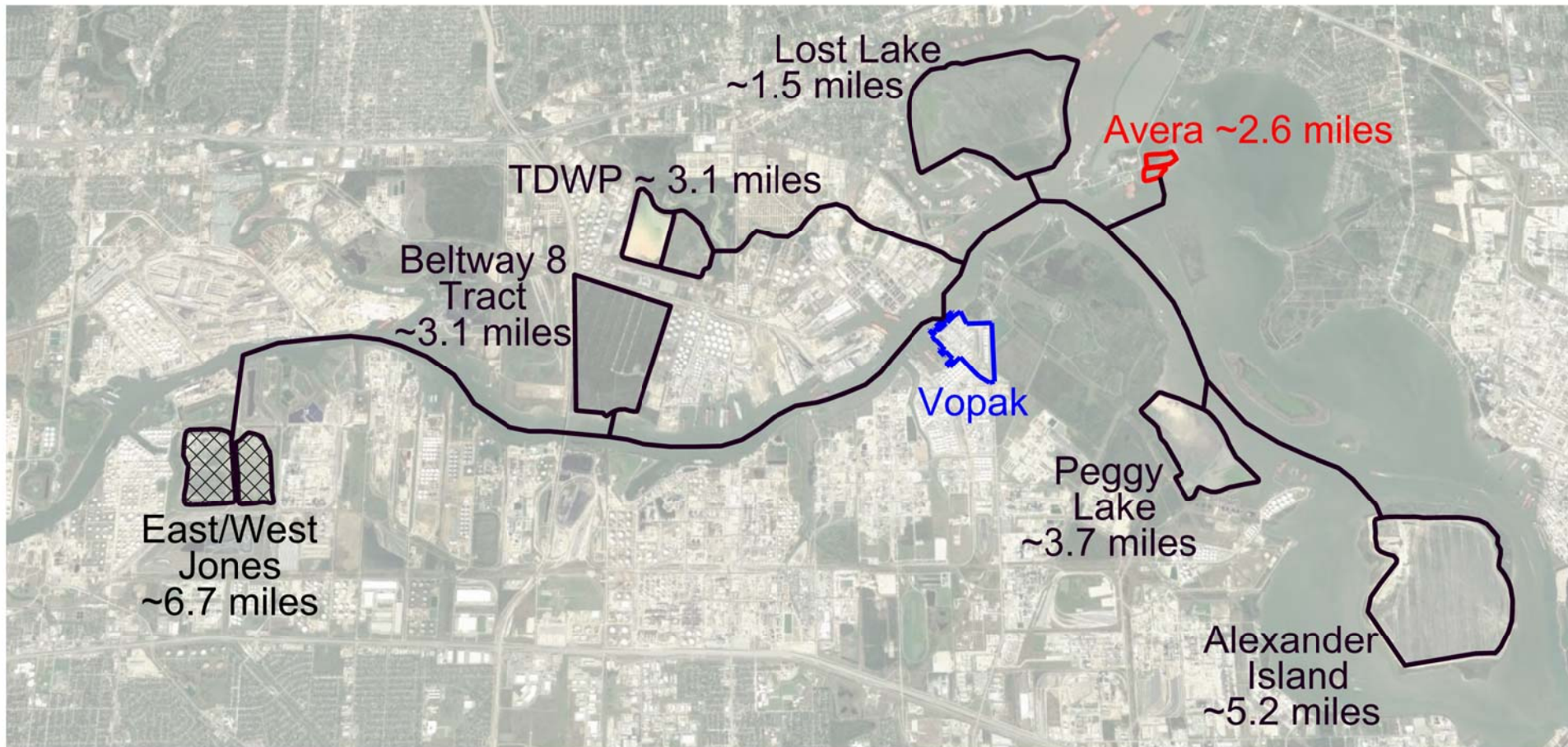
PREPARED FOR:
Chris Ransome & Associates, Inc.
 2121 Brittonmore Road, Suite 4000
 Houston, TX 77043
 Phone: 713.690.4856 - Fax: 713.636.2788



PREPARED BY:
**Vopak SWG-2007-00247
 Deer Park Terminal
 Vicinity Map**

PROJECT NUMBER	SCALE
DRWING: JJ	CHECKED: KH
SURVEY DATE:	
DWG DATE: 12/02/19	ELLIPSOID:
HORIZ DATUM:	
VERT DATUM:	

Vopak Placement Area Map



Legend

- Location of Vopak Deer Park
- Currently authorized placement areas
- Requested areas to be added to permit
- Authorized placement areas no longer in operation
- TDWP = Texas Deepwater Partners (formerly known as Glanville)
- All Distances = Defined from Vopak

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Vopak SWG-2007-00247
Deer Park Terminal
Placement Area Map

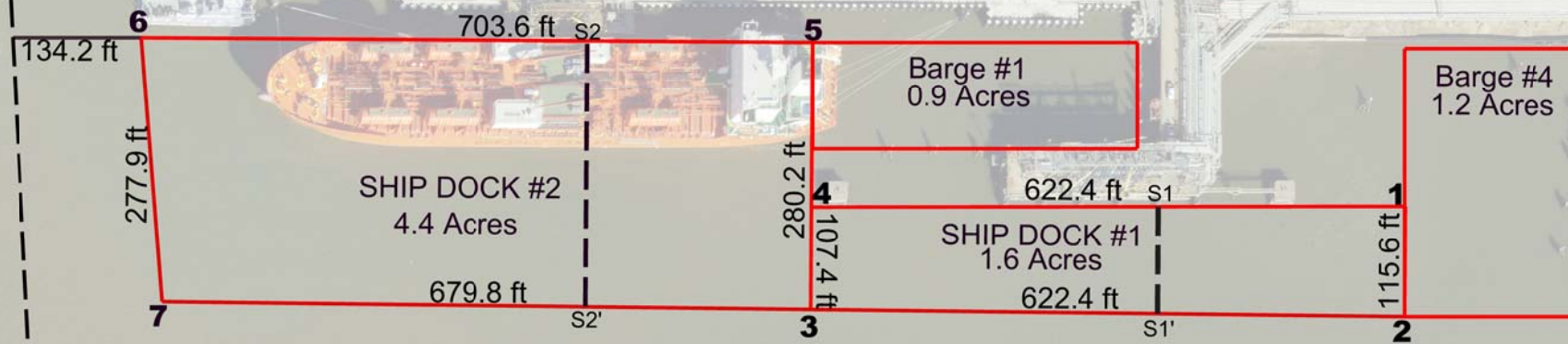
PROJECT NUMBER:	SCALE:
DRAWN: JJ	CHECKED: KH
SURVEY DATE:	
DWG DATE: 12/16/2019	ELLIPSOID:
HORIZ DATUM:	
VERT DATUM:	

Vopak Terminal Deer Park SWG-2007-00247 Permit Renewal Application

Dredging performed by hydraulic or mechanical means to remove ~150,000 cubic yards of maintenance material every three years across entire facility.

POI	X	Y
1	3206673	13839458
2	3206595	13839384
3	3207020	13838929
4	3207104	13839008
5	3206799	13839576
6	3206317	13840088
7	3206131	13839881

Top Edge of Houston Ship Channel Cut



NO.	REVISIONS	BY	DATE

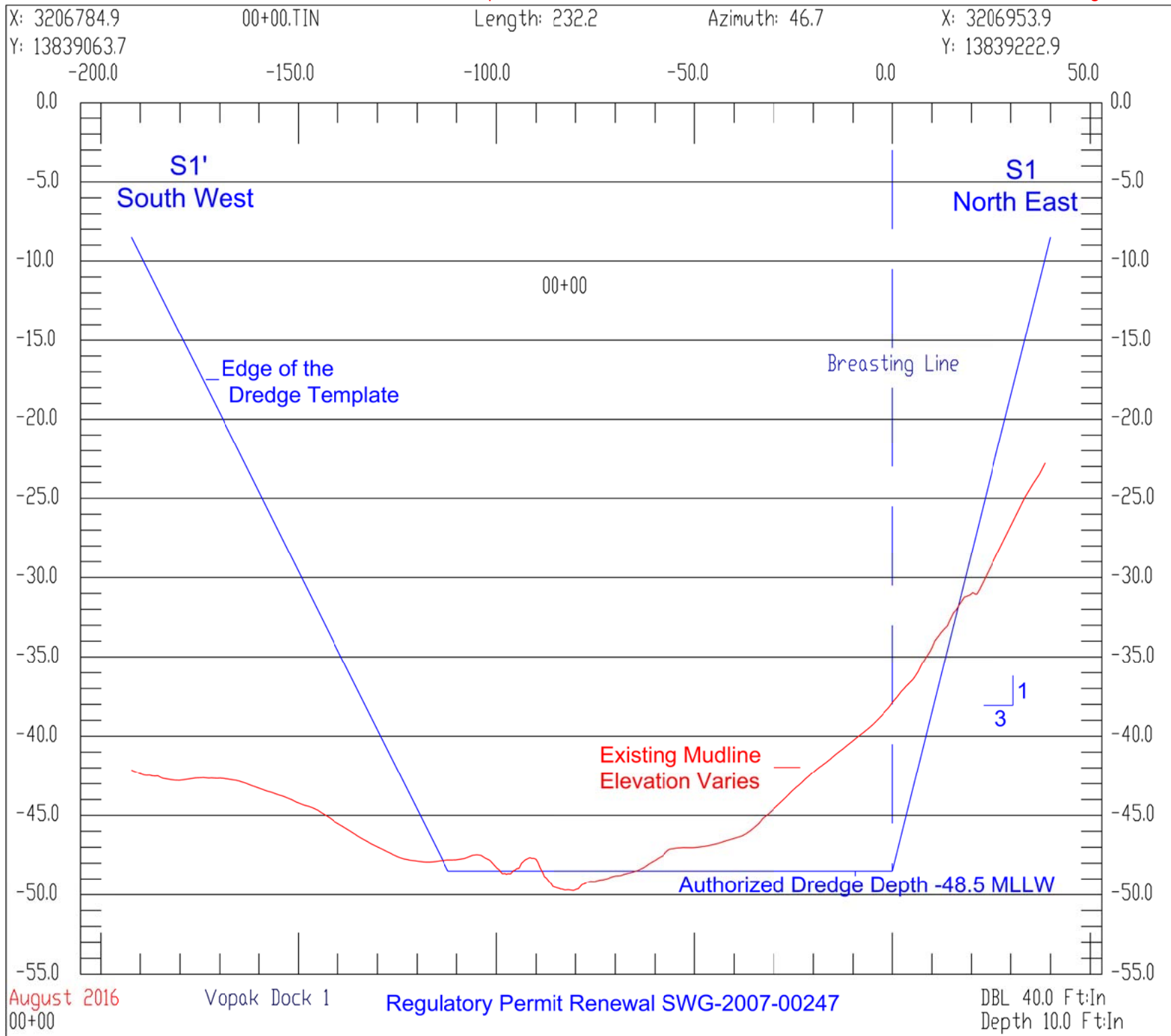


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PROJECT NUMBER: SWG-2007-00247
SCALE: 1" = 400'
DRAWN: JJ
CHECKED: KH
SURVEY DATE:
DWG DATE: 12/16/2019
ELEVATION: GRS-88
HORIZ. DATUM: TX BC 4204 NAD 83 (66) US Feet
VERT. DATUM:
Site Plan-Ship Dock View
Page 1 of 4

VOPAK
DEER PARK TERMINAL
Houston Ship Channel
SWG-2007-00247 Permit Renewal

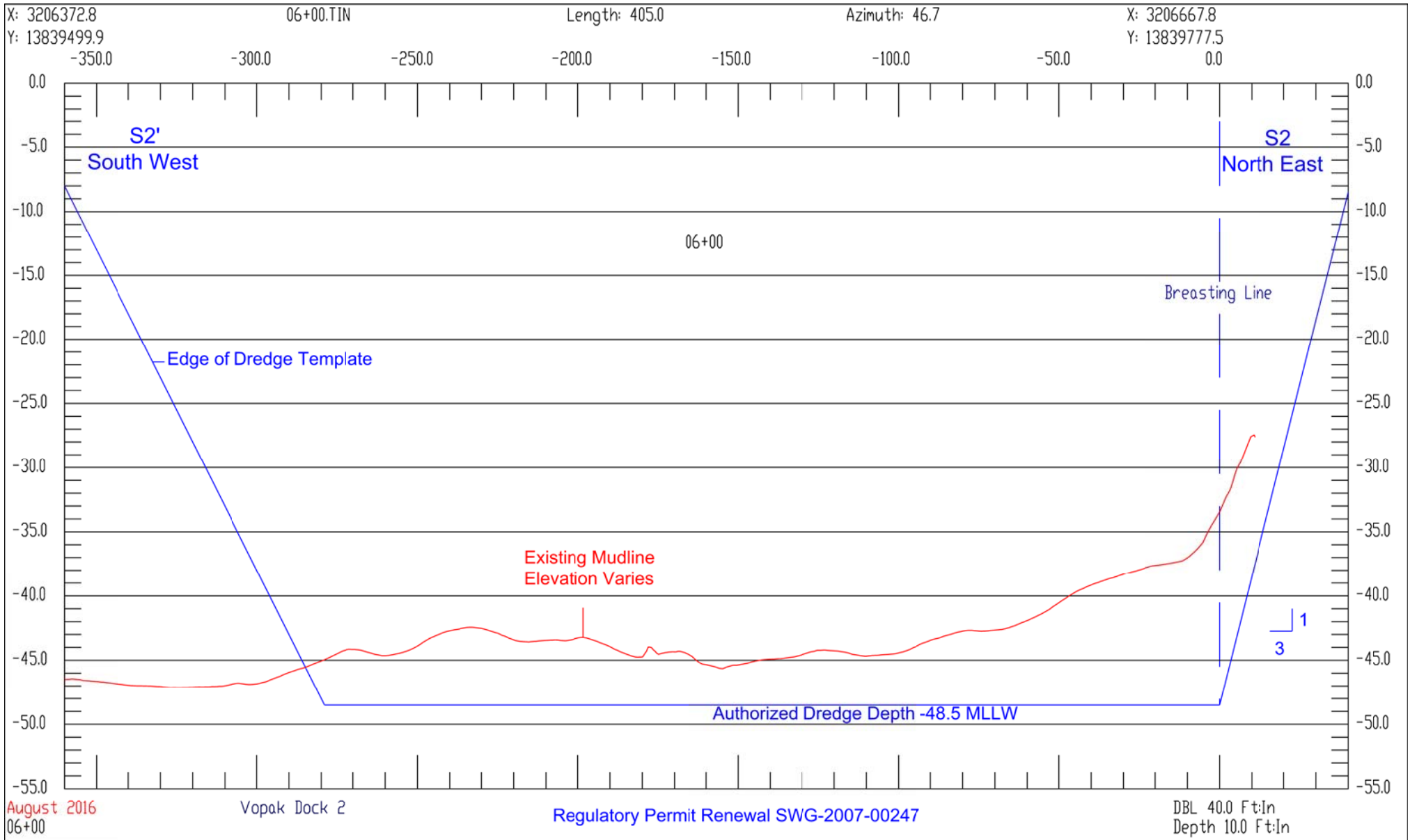


August 2016
00+00

Vopak Dock 1

Regulatory Permit Renewal SWG-2007-00247

DBL 40.0 Ft:In
Depth 10.0 Ft:In



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across entire facility.

POI	X	Y
1	3207223	13839123
2	3206595	13839384
3	3207149	13838794
4	3207352	13838988
5	3206799	13839576
6	3206719	13839499
7	3207034	13839330
8	3206954	13839253

Top Edge of Houston Ship Channel Cut



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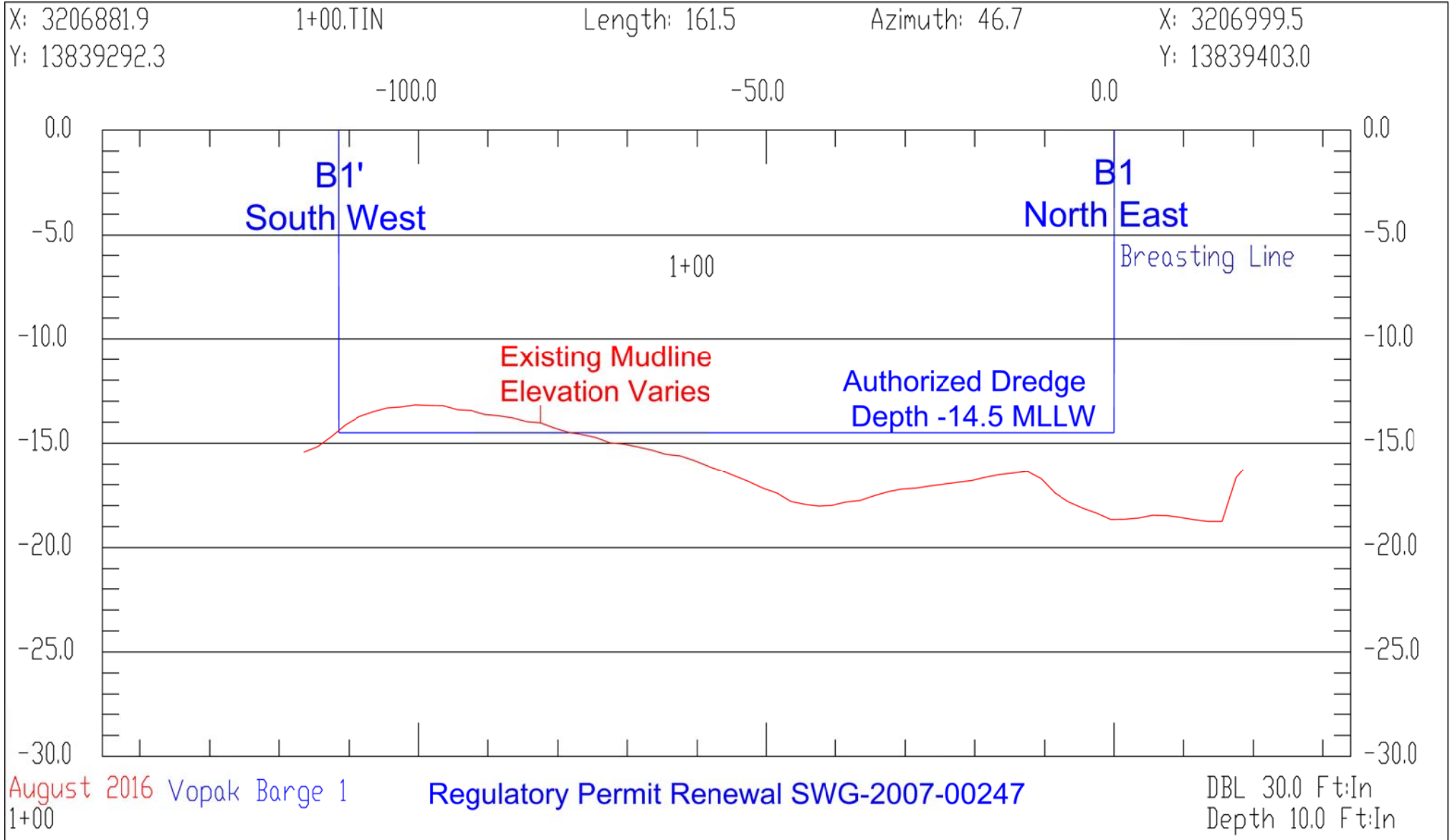
PREPARED BY: **Chris Ransome & Associates, Inc.**
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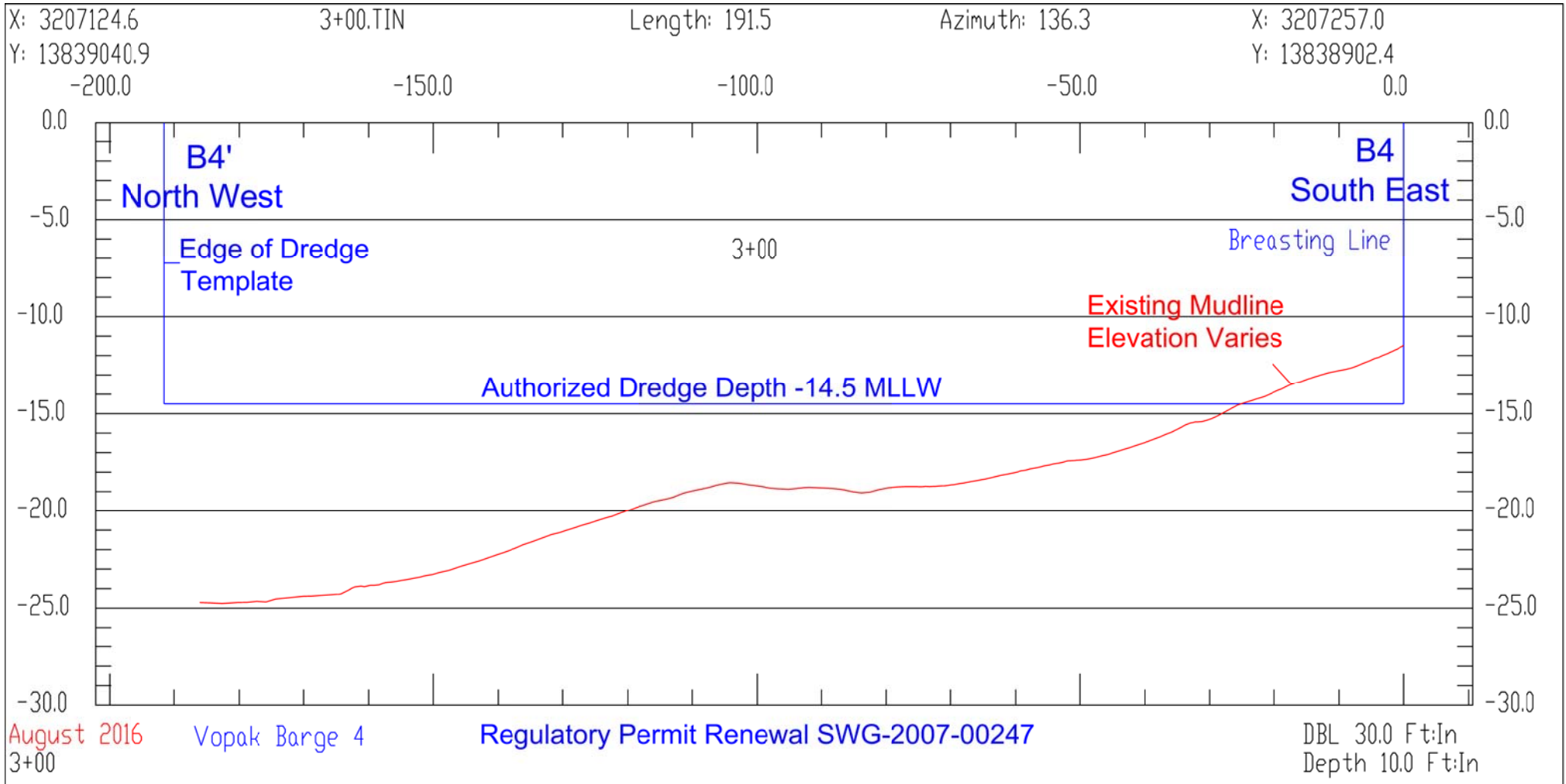
CRA
 CONSULTING & RATER ASSOCIATES, P.C.

VOPAK
 DEER PARK TERMINAL
 Houston Ship Channel
 SWG-2007-00247 Permit Renewal

PROJECT NUMBER	SCALE
22	0" = 40' 0"
DRAWN	CHECKED
SURVEY DATE	
DWG DATE	ELLIPSOID
12/02/2019	GRS-80
HORIZ DATUM	TX BC 4204 NAD 83 (96) US Feet
VERT DATUM	

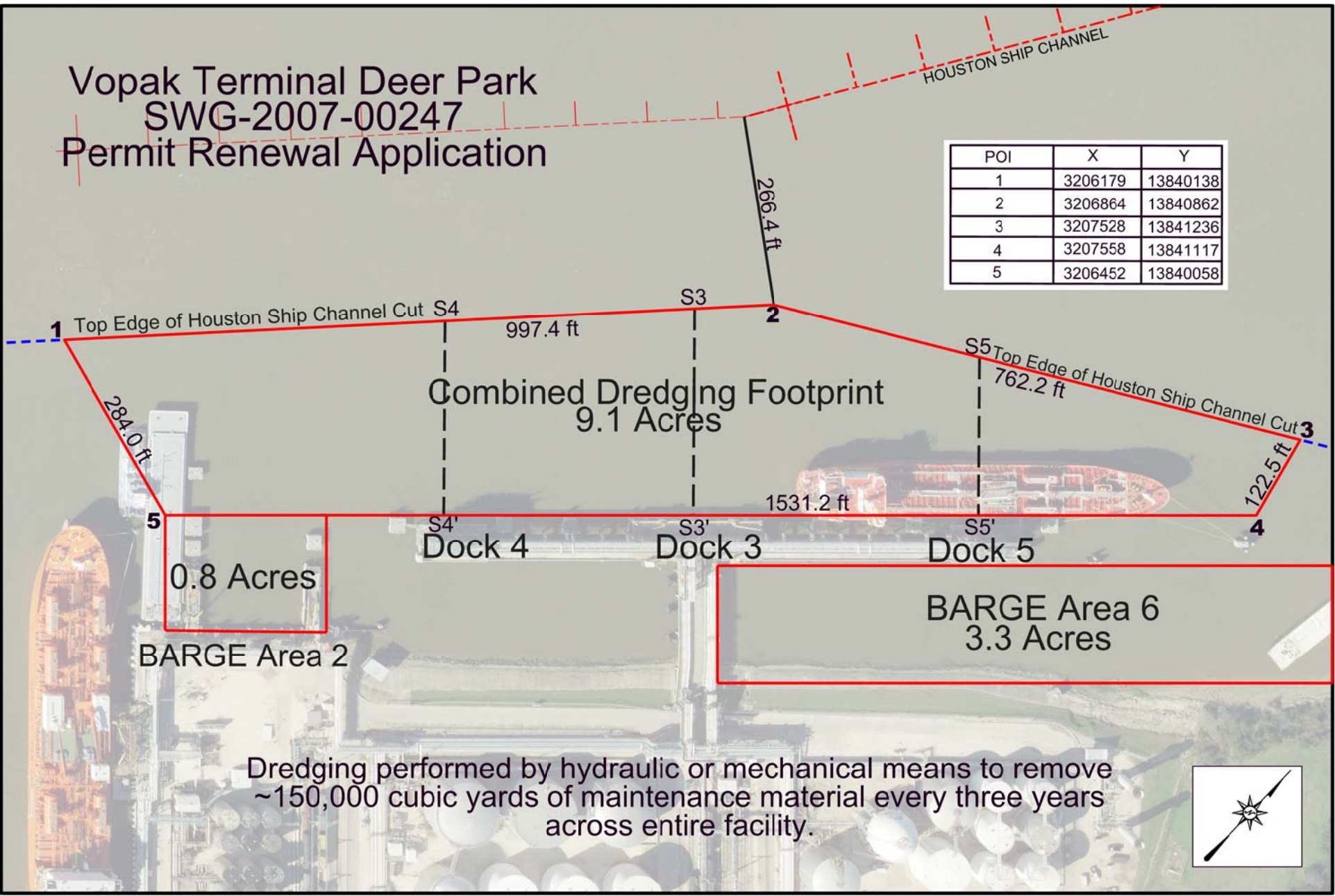
Site Plan Barge Dock View
Page 7 of 4



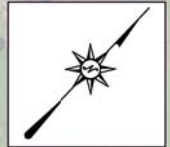


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POI	X	Y
1	3206179	13840138
2	3206864	13840862
3	3207528	13841236
4	3207558	13841117
5	3206452	13840058



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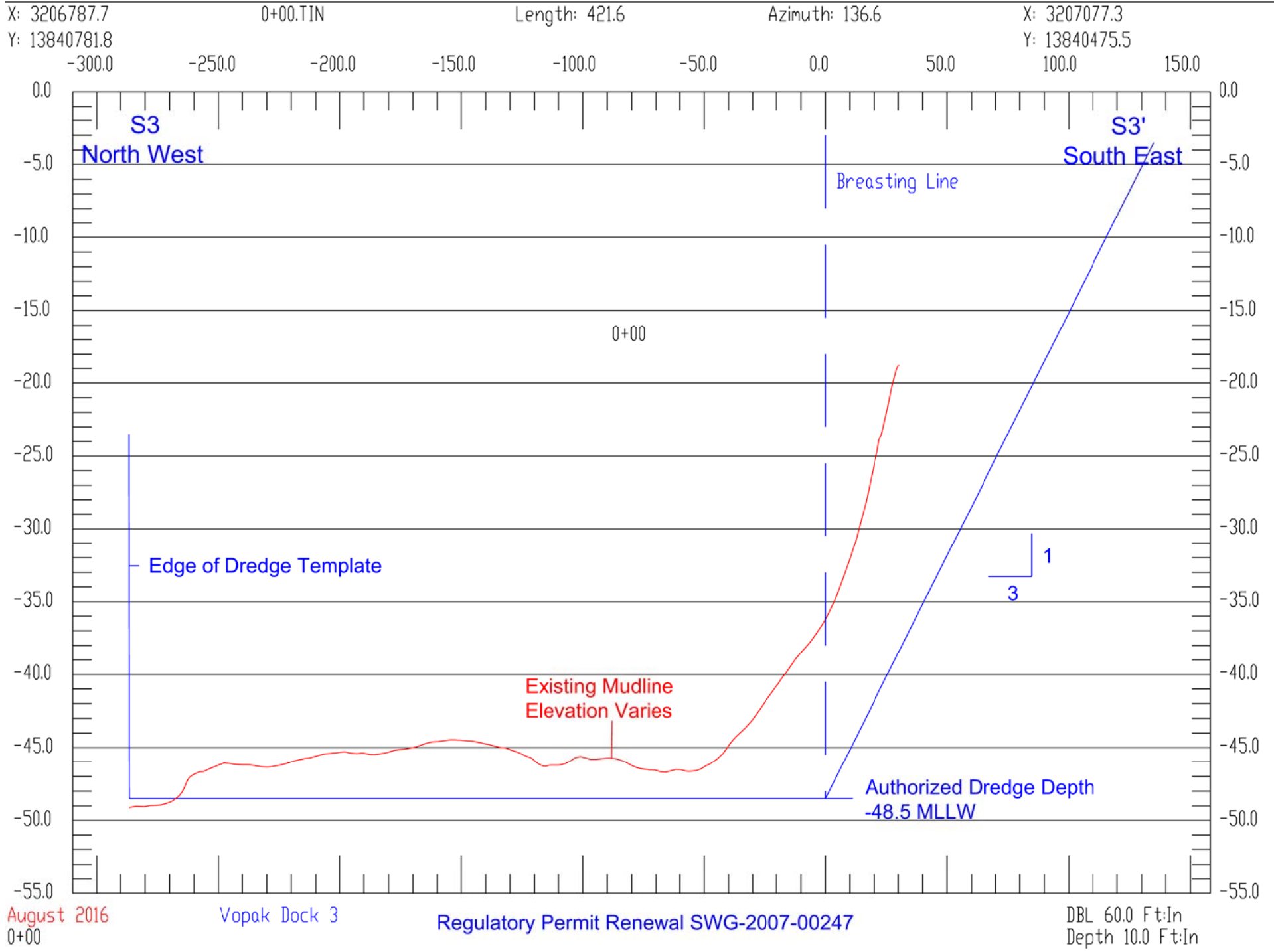


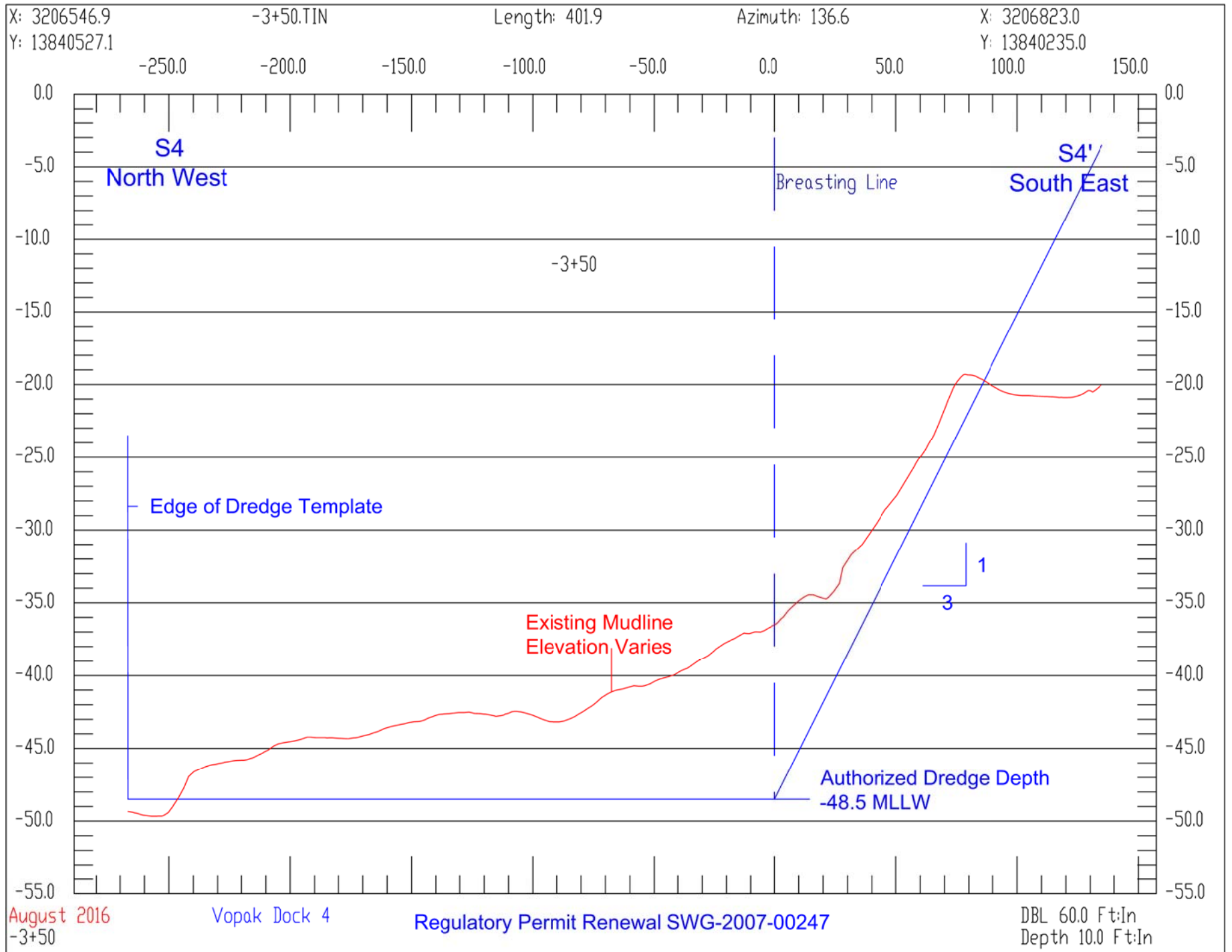
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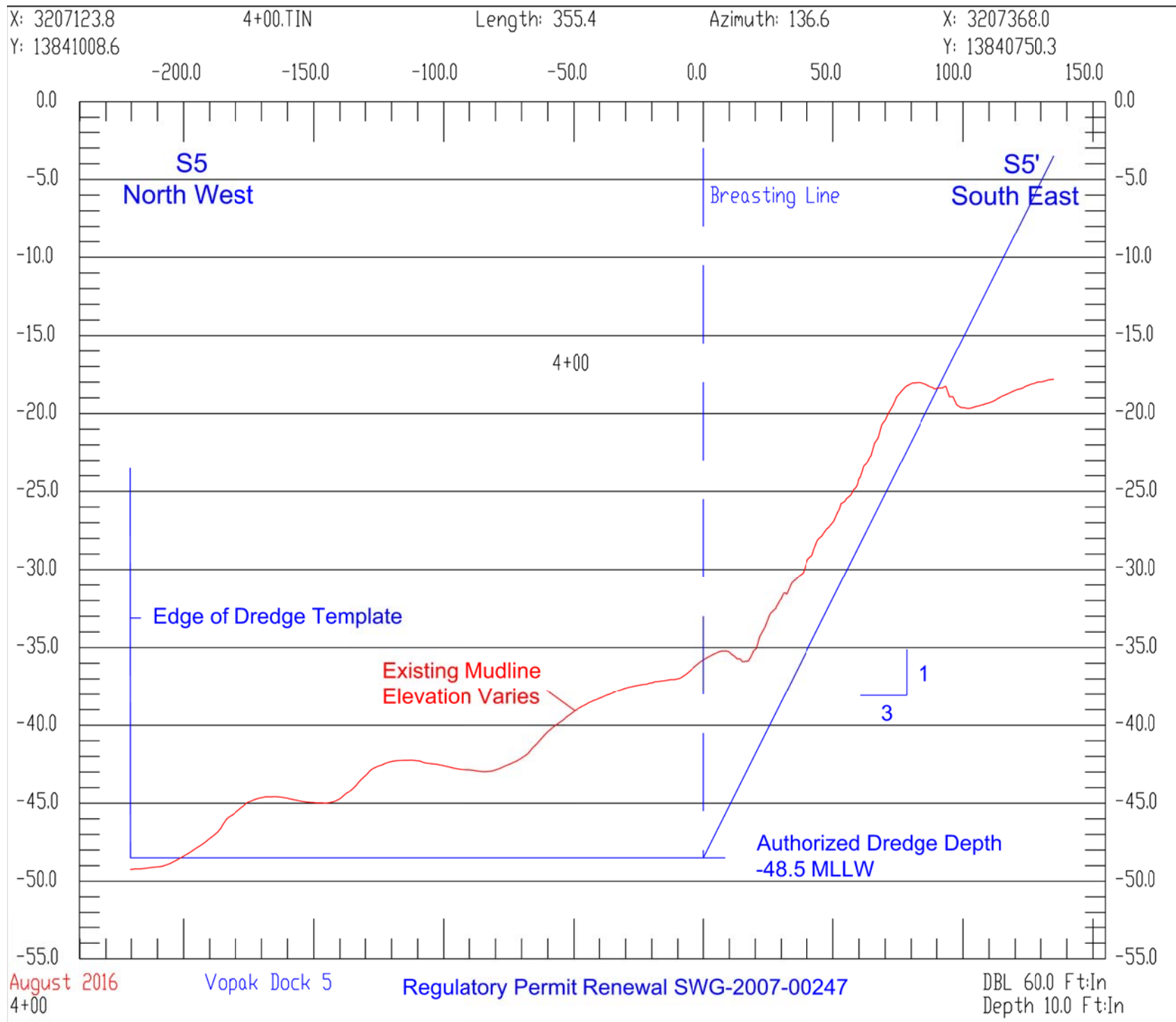


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VOPAK
DEER PARK TERMINAL
Houston Ship Channel
SWG-2007-0047

PROJECT NUMBER	SCALE
DRAWN BY	CHECKED BY
SURVEY DATE	SURVEY
DWG DATE	ELLIPSOID
HORIZ DATUM	GRS-80
VERT DATUM	TX SC 404 NAD 83 (6) US Feet
Site Plan - Ship Dock View Page 14 of 14	







Vopak Terminal Deer Park SWG-2007-00247 Permit Renewal Application

HOUSTON SHIP CHANNEL

POI	X	Y
1	3206452	13840058
2	3206564	13839941
3	3206729	13840096
4	3206615	13840215
5	3207061	13840543
6	3207175	13840424
7	3207695	13841150
8	3207809	13841031

Top Edge of Houston Ship Channel Cut

266.4 ft

Top Edge of Houston Ship Channel Cut

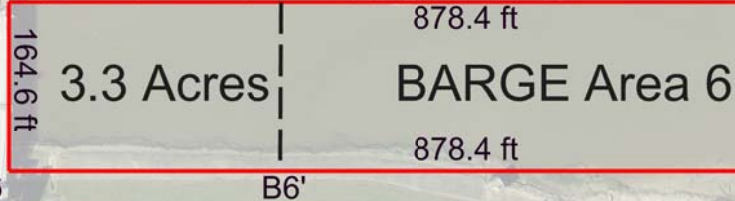
Combined Dredging Footprint
9.1 Acres



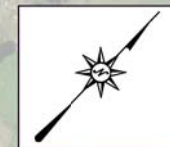
Dock 4

Dock 3

Dock 5



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PROJECT NUMBER	SCALE
DRAWN BY	CHECKED BY
SURVEY DATE	DATE
DWG DATE	ELLIPSOID
HORIZ DATUM	TX 83 NAD 83 (96) US Feet
VERT DATUM	

Site Plan Stage Dock View
Page 4 of 4

