

**MCR Shallow Water Ssite (SWS)**  
**22 May 2006**

Northing (ft)

966000

964000

962000

960000

958000

SPCS OR-N, ft (NAD 27)  
contours in ft MLLW

1084000

1086000

1088000

1090000

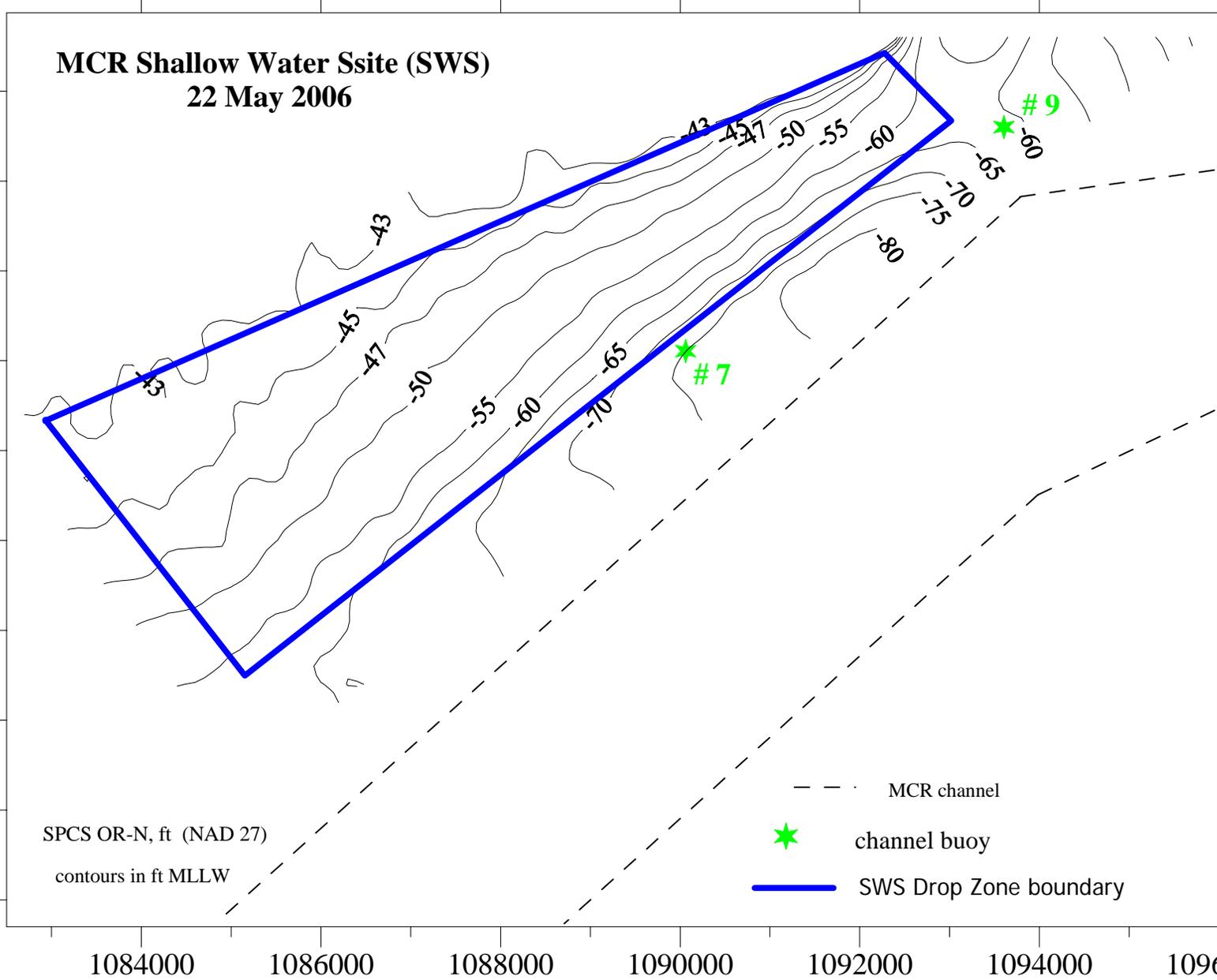
1092000

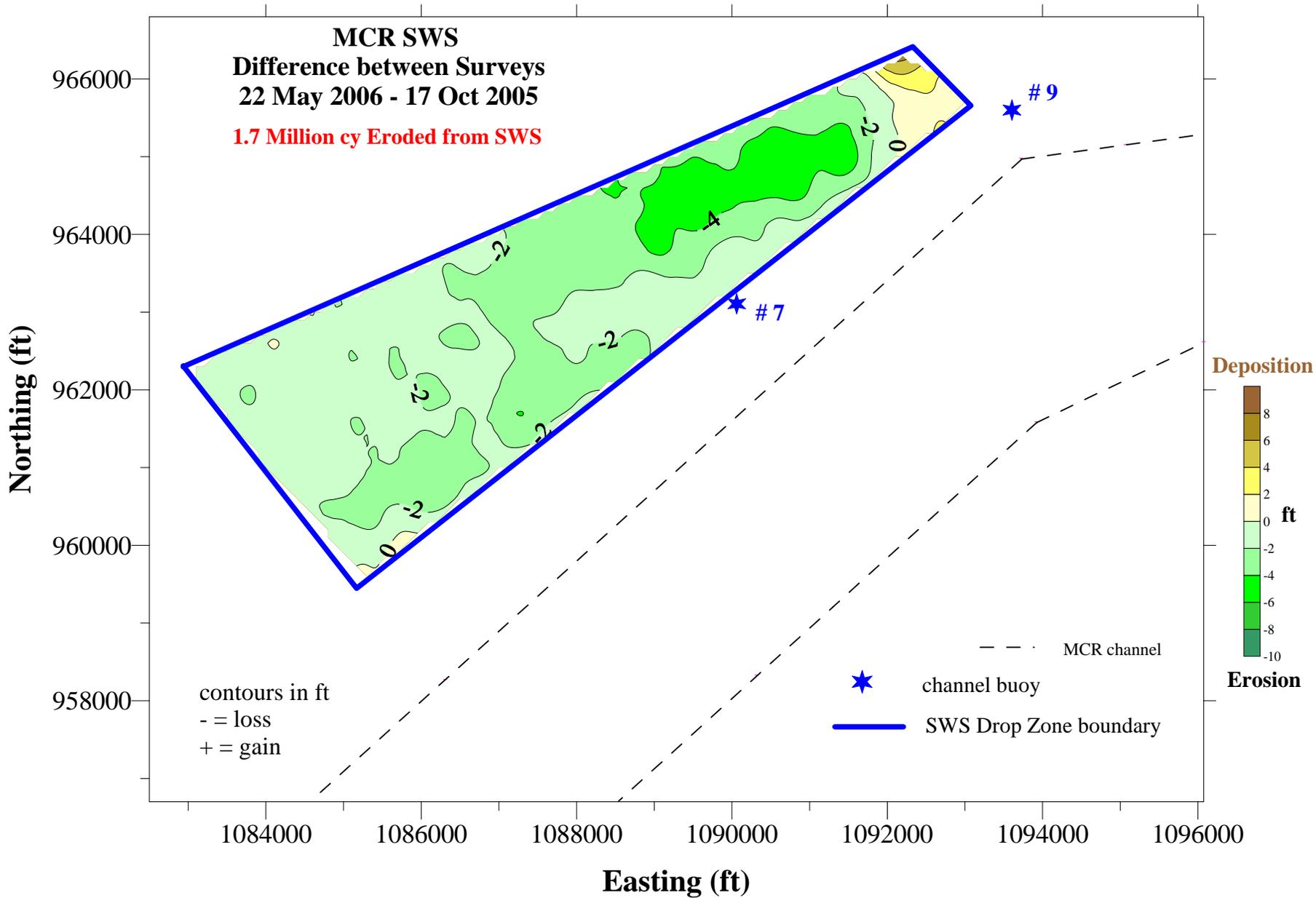
1094000

1096000

Easting (ft)

- - - MCR channel
- ★ channel buoy
- SWS Drop Zone boundary







Site Use Sequence = Atl 1:

Once the dredge has placed the specified number of dumps in a cell, that cell shall become a Limited Capacity Zone

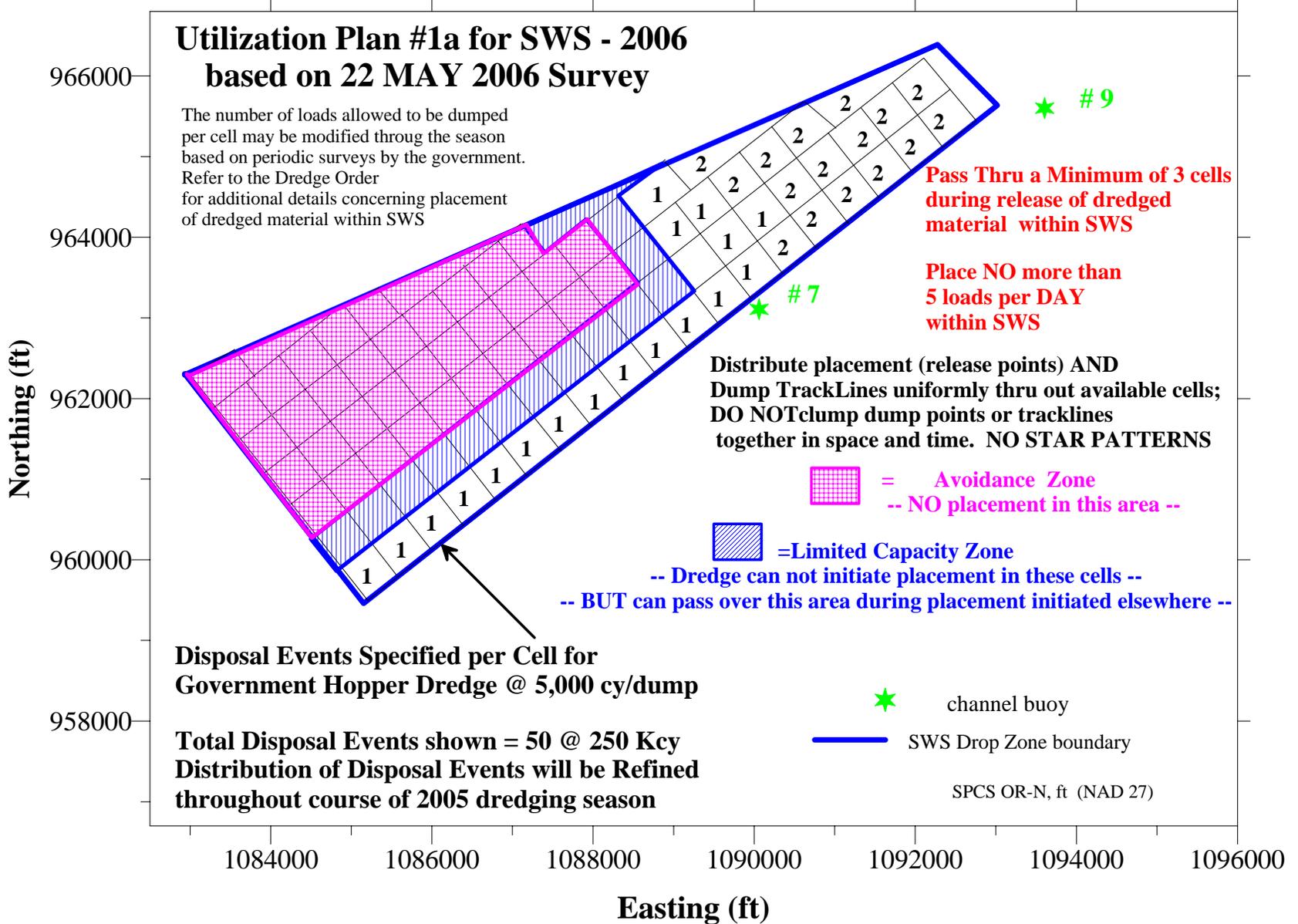


Figure 3

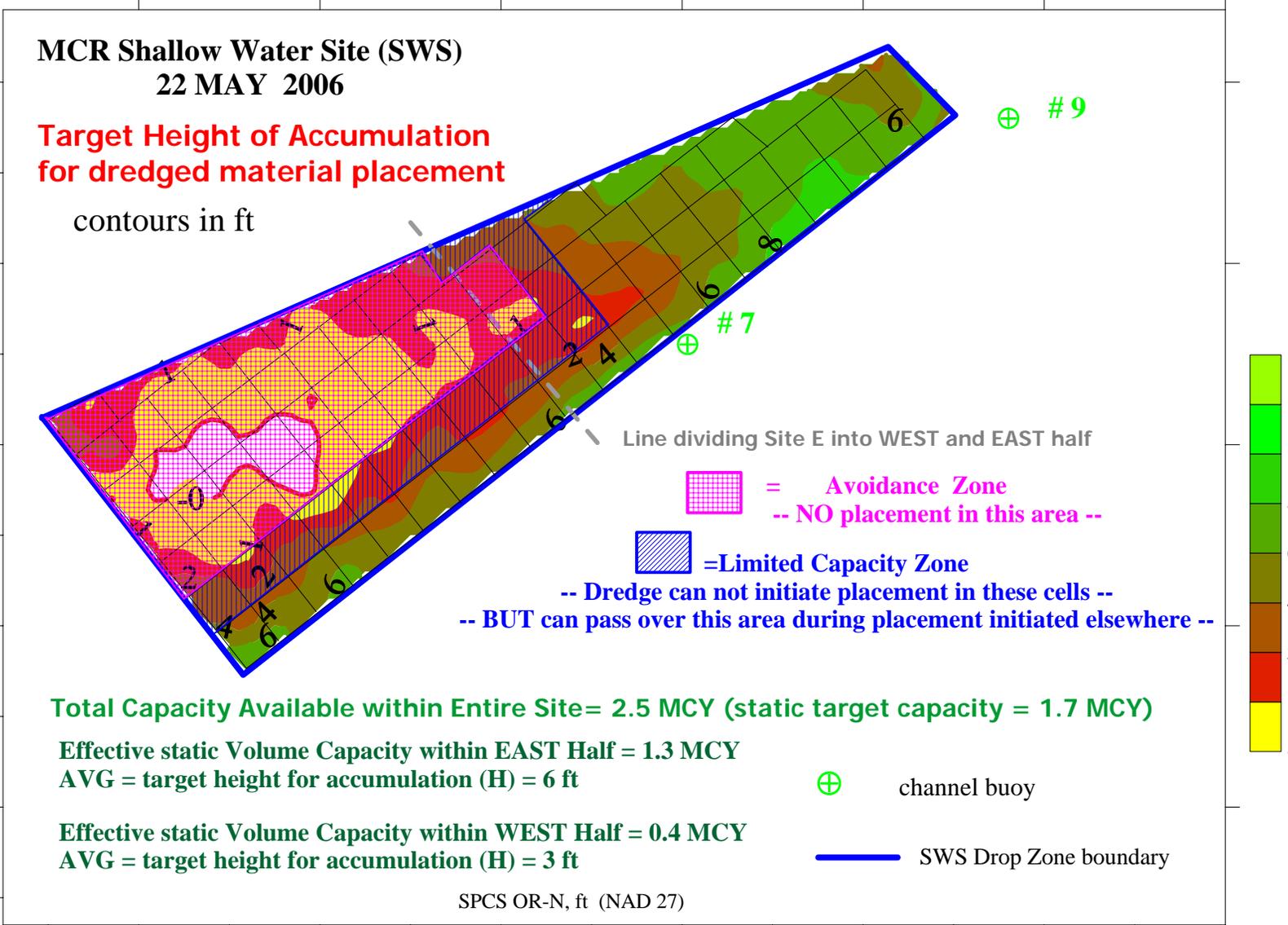
**MCR Shallow Water Site (SWS)**  
**22 MAY 2006**

**Target Height of Accumulation  
for dredged material placement**

contours in ft

Northing (ft)

966000  
964000  
962000  
960000  
958000



Line dividing Site E into WEST and EAST half

 = Avoidance Zone  
-- NO placement in this area --

 = Limited Capacity Zone

-- Dredge can not initiate placement in these cells --  
-- BUT can pass over this area during placement initiated elsewhere --

**Total Capacity Available within Entire Site = 2.5 MCY (static target capacity = 1.7 MCY)**

**Effective static Volume Capacity within EAST Half = 1.3 MCY**

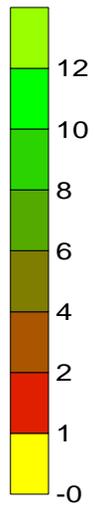
**AVG = target height for accumulation (H) = 6 ft**

**Effective static Volume Capacity within WEST Half = 0.4 MCY**

**AVG = target height for accumulation (H) = 3 ft**

 channel buoy

 SWS Drop Zone boundary



SPCS OR-N, ft (NAD 27)

1084000 1086000 1088000 1090000 1092000 1094000 1096000

**Easting (ft)**

**North Jetty (NJ) Site**  
**22 May 2006**

Northing, ft

969000

968000

967000

966000

1093500

1094500

1095500

1096500

1097500

Easting, ft

-60

-55

-50

-45

-38

-40

-38

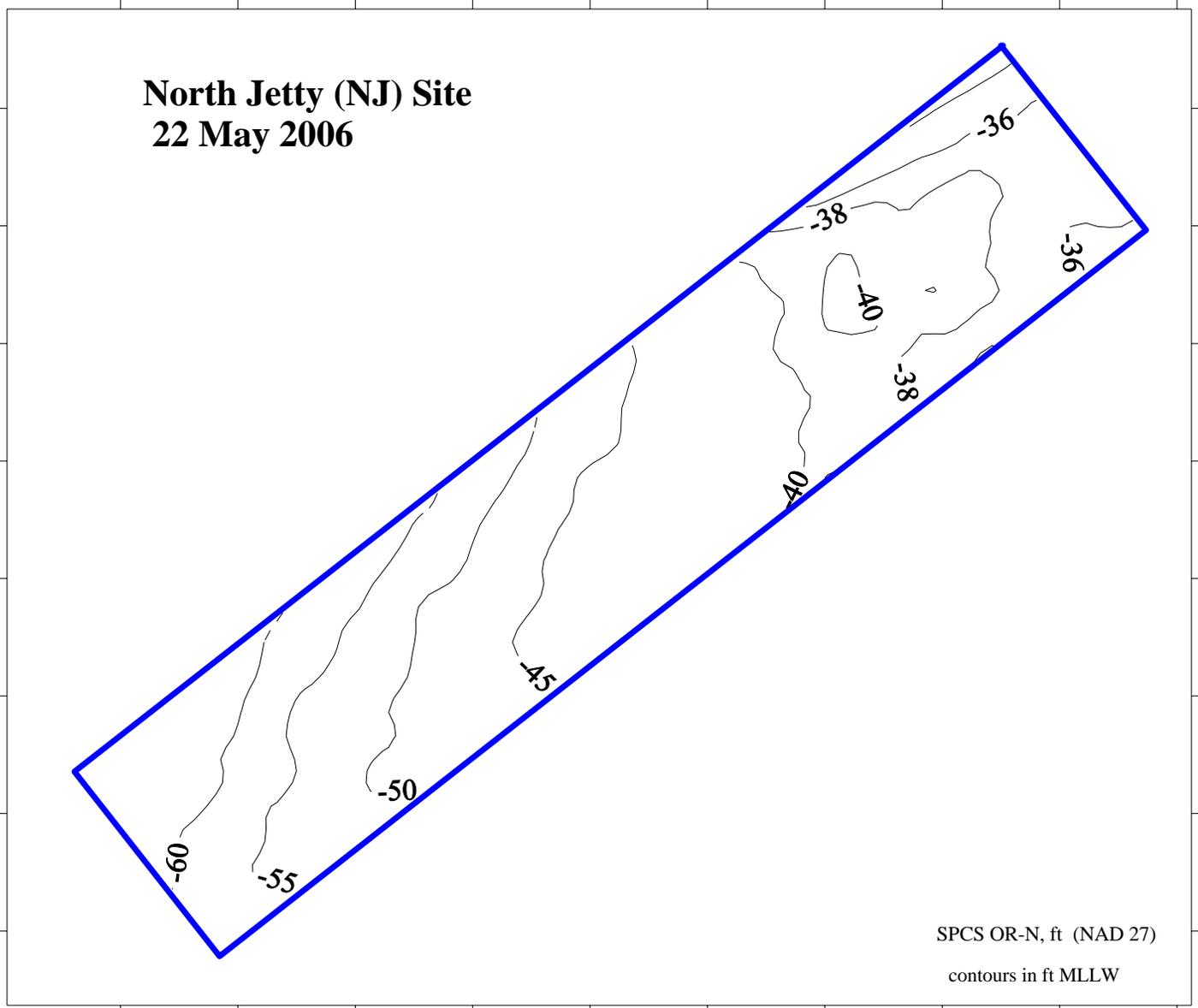
-40

-36

-36

SPCS OR-N, ft (NAD 27)

contours in ft MLLW



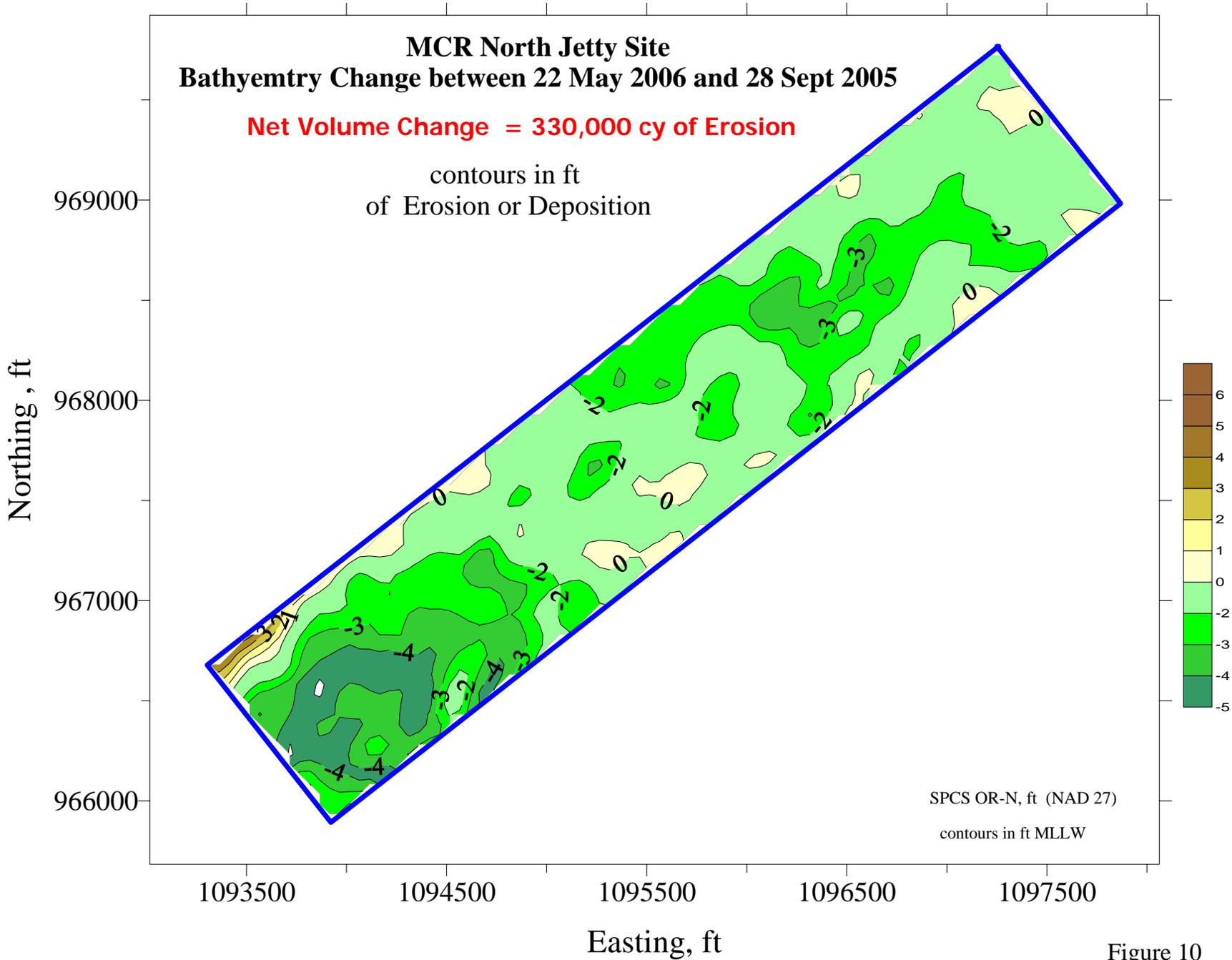


Figure 10

# Provisional Utilization Plan #1a for North Jetty Site - 2006 based on 22 May 2006 Survey

**Disposal Events Specified per Cell for  
Contract Hopper Dredge @ 5,000 cy/dump**

**Total Disposal Events shown = 43 @ 215,000 cy  
Distribution of Disposal Events will be Refined  
throughout course of 2006 dredging season**

**Contour lines show Bathymetry for  
22 MAY 2006, ft MLLW**

Northing, ft

969000

968000

967000

966000

1093500

1094500

1095500

1096500

1097500

Easting, ft

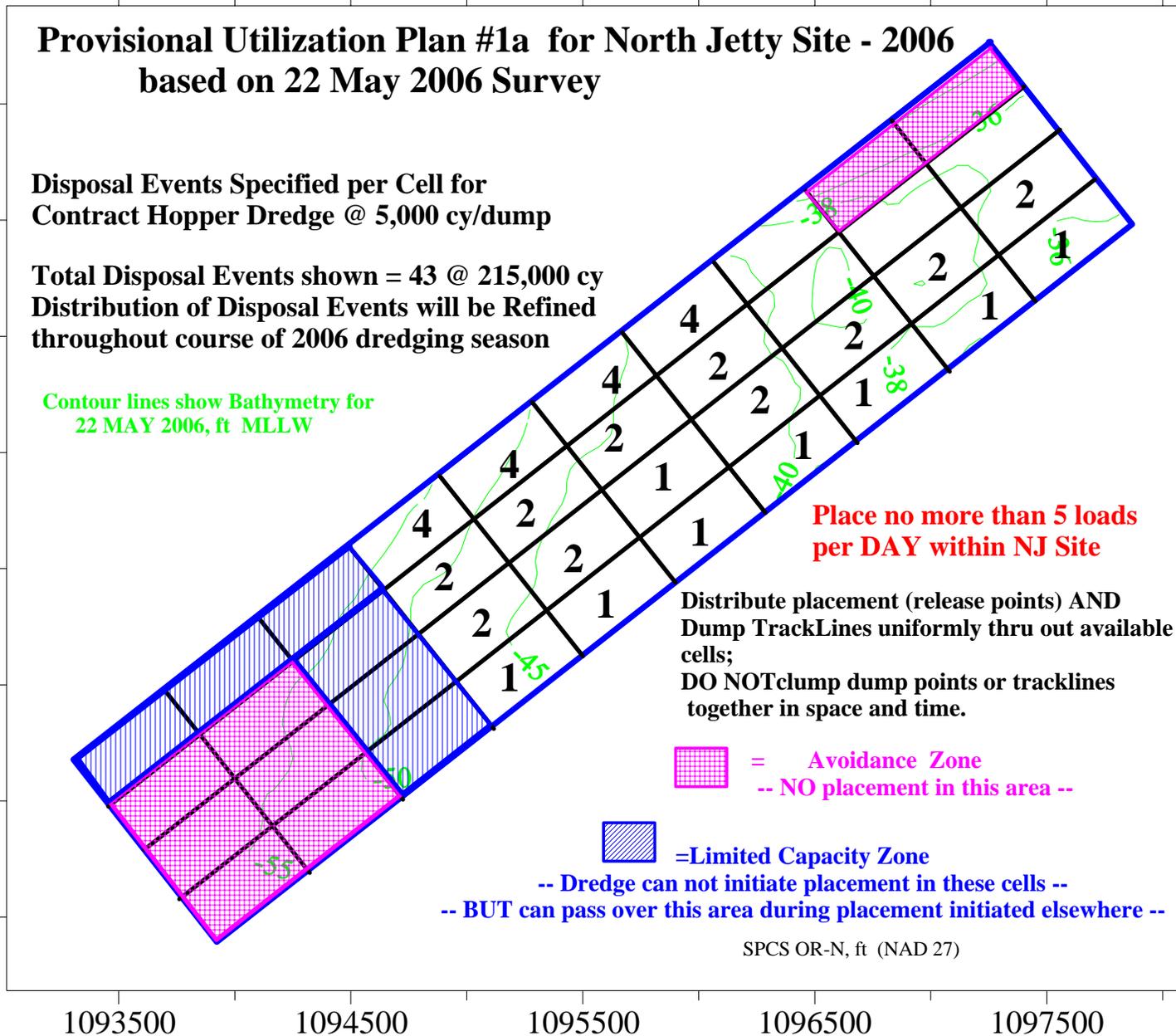
**Place no more than 5 loads  
per DAY within NJ Site**

**Distribute placement (release points) AND  
Dump TrackLines uniformly thru out available  
cells;  
DO NOT clump dump points or tracklines  
together in space and time.**

 = Avoidance Zone  
-- NO placement in this area --

 = Limited Capacity Zone  
-- Dredge can not initiate placement in these cells --  
-- BUT can pass over this area during placement initiated elsewhere --

SPCS OR-N, ft (NAD 27)



# MCR North Jetty Site

22 May 2006

Target Height of Accumulation  
for dredged material placement

contours in ft

Northing, ft

969000

968000

967000

966000

1093500

1094500

1095500

1096500

1097500

Easting, ft



= Avoidance Zone  
-- NO placement in this area --



= Limited Capacity Zone

-- Dredge can not initiate placement in these cells --  
-- BUT can pass over this area during placement initiated elsewhere --

Total Capacity Available within Entire Site = 500,000 CY  
(effective capacity = 300,000)

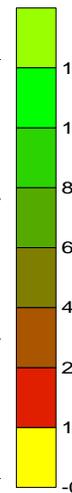
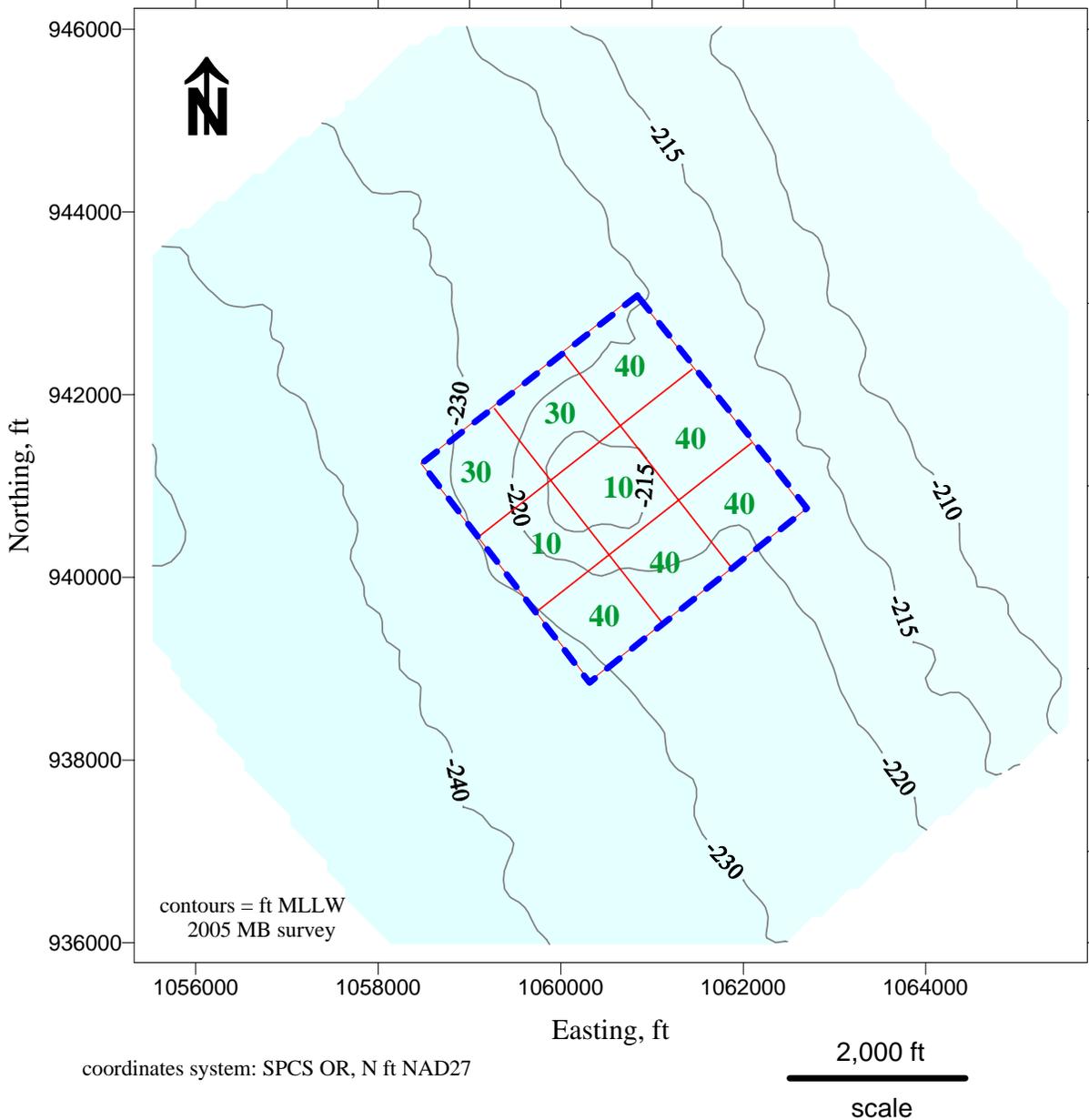


Figure 10

# Mouth of the Columbia River Deep Water Site (MCR-06-DWS)

## Utilization Plan #1a for MCR DWS: 11 May 2006

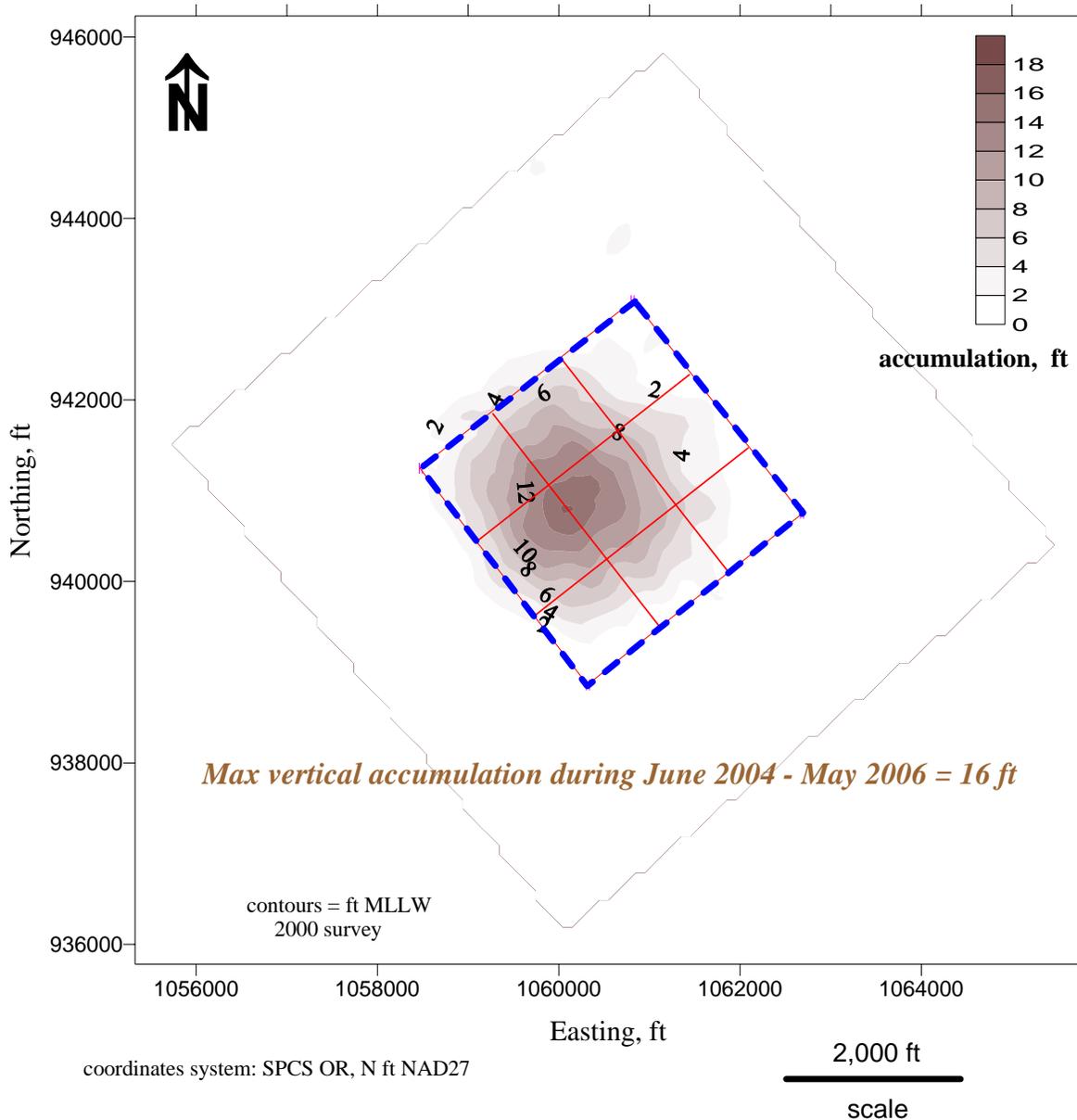


green cell assignments =  
**GOVERNMENT** dredge loads/cell  
at 5,000 cy/load = 1.5 MCY

**Red Lines = grid (cells) used to control  
the placement of dredged  
material within the MCR  
DWS area - 1,000 x 1,000 ft ea.**

**dashed blue line = "MCR-06-DWS"  
Site drop zone is 3,000 x 3,000 ft**

Figure 2



## Mouth of the Columbia River Deep Water Site (MCR-05-DWS)

*Difference Between Suveys  
29 June 2004 - 11 May 2006*

Volume of dredged material placed  
during July - Nov 04 = 1.7 million cy

Volume of dredged material placed  
during July - Sept 05 = 0.7 million cy

Volume of deposition = 2.4 million cy

**Red Lines = grid (cells) used to control  
the placement of dredged  
material within the DWS  
103 area - 1,000 x 1,000 ft ea.**

**dashed blue line = "MCR-05-DWS"  
Site drop zone is 3,000 x 3,000 ft**

Figure 4