



# PUBLIC NOTICE

US Army Corps  
of Engineers  
New York District, CENAN-OP-RU  
Upstate Regulatory Field Office  
1 Buffington Street, Bldg. 10, 3<sup>rd</sup> Fl. N.  
Watervliet, New York 12189-4000

In replying refer to:  
Public Notice Number: NAN-2012-00230  
Issue Date: March 11, 2013  
Expiration Date: April 10, 2013

## To Whom It May Concern:

The New York District, Corps of Engineers has received an application for a Department of the Army permit pursuant to Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403) and Section 404 of the Clean Water Act (33 U.S.C. 1344).

APPLICANT: New York State Canal Corporation  
200 Southern Boulevard  
P.O. Box 189  
Albany, New York 12201

ACTIVITY: Conduct dredging, with ten years maintenance and upland disposal, of PCB contaminated sediments within a 38 mile portion of the Champlain Canal (Hudson River) to restore and maintain the State navigation channel to its previously approved width and depth.

WATERWAY: Champlain Canal (Hudson River)

LOCATION: Town of Schaghticoke and City of Troy in Rensselaer County, Towns of Halfmoon, Moreau, Northumberland, Saratoga, Stillwater, and Waterford, City of Mechanicville and Village of Schuylerville in Saratoga County, and Towns of Easton, Fort Edward and Greenwich in Washington County, New York

A detailed description and plans of the applicant's activity are enclosed to assist in your review.

The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership and, in general, the needs and welfare of the people.

The Corps of Engineers is soliciting comments from the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

CENAN-OP-RU  
PUBLIC NOTICE NO. NAN-2012-00230

ALL COMMENTS REGARDING THE PERMIT APPLICATION MUST BE PREPARED IN WRITING AND MAILED TO THE ATTENTION OF CHRISTINE DELORIER AT THE ABOVE ADDRESS, OR SENT VIA ELECTRONIC MAIL TO [christine.delorier@usace.army.mil](mailto:christine.delorier@usace.army.mil), TO REACH THIS OFFICE BY THE EXPIRATION DATE OF THIS NOTICE, otherwise, it will be presumed that there are no objections to the activity. Comments provided will become a part of the public record for this action.

Any person may request, in writing, before this public notice expires, that a public hearing be held to collect information necessary to consider this application. Requests for public hearings shall state, with particularity, the reasons why a public hearing should be held. It should be noted that information submitted by mail is considered just as carefully in the permit decision process and bears the same weight as that furnished at a public hearing.

Our preliminary determination is that the activity for which authorization is sought herein will not affect Federally endangered or threatened species or their critical habitat, as the work would be confined to the Champlain Canal and upland areas that are currently developed. However, pursuant to Section 7 of the Endangered Species Act (16 U.S.C. 1531), if new information warrants, the District Engineer will consult with the appropriate Federal agency to determine the presence of and any potential impacts to listed species or their critical habitat in the project area.

Based upon a review of the latest published version of the National Register of Historic Places, the Champlain Canal, which is a component of the National Register eligible New York State Barge Canal System, is within the permit area. Presently unknown archeological, scientific, prehistorical, or historical data may be lost by work accomplished under the required permit. The District Engineer will consult with the New York State Office of Parks, Recreation and Historic Preservation (SHPO) to assure that the requirements of Section 106 of the National Historic Preservation Act are satisfied.

Reviews of activities pursuant to Section 404 of the Clean Water Act will include application of the guidelines promulgated by the Administrator, U.S. Environmental Protection Agency, under authority of Section 404 (b) of the Clean Water Act and the applicant will obtain a water quality certificate or waiver from the appropriate state agency in accordance with Section 401 of the Clean Water Act prior to a permit decision.

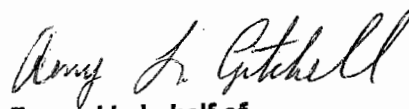
In addition to any required water quality certificate, the applicant has obtained or requested the following governmental authorization for the activity under consideration: NONE

In order for us to better serve you, please complete our Customer Service Survey located at:

<http://per2.nwp.usace.army.mil/survey.html>

It is requested that you communicate the foregoing information concerning the activity to any persons known by you to be interested and who did not receive a copy of this notice. If you have any questions concerning this application, you may contact Christine Delorier of this office at (518) 266-6354.

For more information on New York District Corps of Engineers programs, visit our website at <http://www.nan.usace.army.mil>

  
**For and in behalf of**  
Jodi M. McDonald  
Chief, Regulatory Branch

Enclosures

### WORK DESCRIPTION

The applicant, New York State Canal Corporation, has requested a Department of the Army permit to conduct dredging, with ten years maintenance and upland disposal, of PCB contaminated sediments within a 38 mile portion of the Champlain Canal (Hudson River) to restore and maintain the State navigation channel to its previously approved width and depth. The project site is located in the Town of Schaghticoke and the City of Troy in Rensselaer County, in the Towns of Halfmoon, Moreau, Northumberland, Saratoga, Stillwater and Waterford, the City of Mechanicville and the Village of Schuylerville in Saratoga County, and in the Towns of Easton, Fort Edward and Greenwich in Washington County, New York.

The work would involve dredging, with a mechanical environmental clamshell dredge, within the navigable limits of the Champlain Canal, from Waterford to Fort Edward. A total of approximately 587,121 cubic yards of sediment would be mechanically dredged from 107 specific sites within the 38 mile long portion of Canal. The total length of the dredging is 109,674 feet, or 20.77 miles. The width of dredging varies between 7 feet to 148 feet depending upon the dredge site location. The approximate area to be dredged is 102 acres. All dredging would occur within the established navigation channel, which ranges in width from 75 feet to 200 feet within this section of the Champlain Canal. Each specific site would be dredged to restore the established navigation channel depth of 12 feet below normal pool elevation, plus 2 feet of allowable over-depth if approved by the U.S. Army Corps of Engineers. The attached drawings and table identify the location and amount of proposed dredging for each of the 107 sites.

The sediment consists of a mixture of fine and coarse grained materials. The sites have not been dredged since 1980 due to the discovery of polychlorinated biphenyls (PCBs) in Hudson River sediments. The entire project area is within a U.S. Environmental Protection Agency managed Superfund site under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). All of the sediment proposed to be dredged under this permit application is assumed to be contaminated with PCB's, however site specific sediment testing would be conducted prior to the initiation of dredging at each site to assure that the material is handled and disposed of in accordance with all applicable regulations.

Once dredged with the mechanical environmental clamshell dredge, the sediment would be placed into a hopper barge and transported with a tug to a sediment processing facility. Barge overflow would not be authorized. The sediment would be transported by barge and tug to an existing U.S. Environmental Protection Agency owned wharf located immediately downstream of Lock 8 in Fort Edward, where it would be off-loaded with an excavator and pumps and processed at an existing sediment dewatering facility that was constructed by General Electric (GE) for its Hudson River remedial program. Once processed, the water may be returned to the Champlain Canal if it is determined to be clean enough. Otherwise, like the sediment, it would be disposed of at a state approved solid or hazardous waste facility as dictated by location specific PCB concentrations. If the GE facility is determined to be unavailable for sediment processing and dewatering, the NYSCC would submit plans and seek approval to construct a similar facility at a new location prior to the commencement of any dredging.

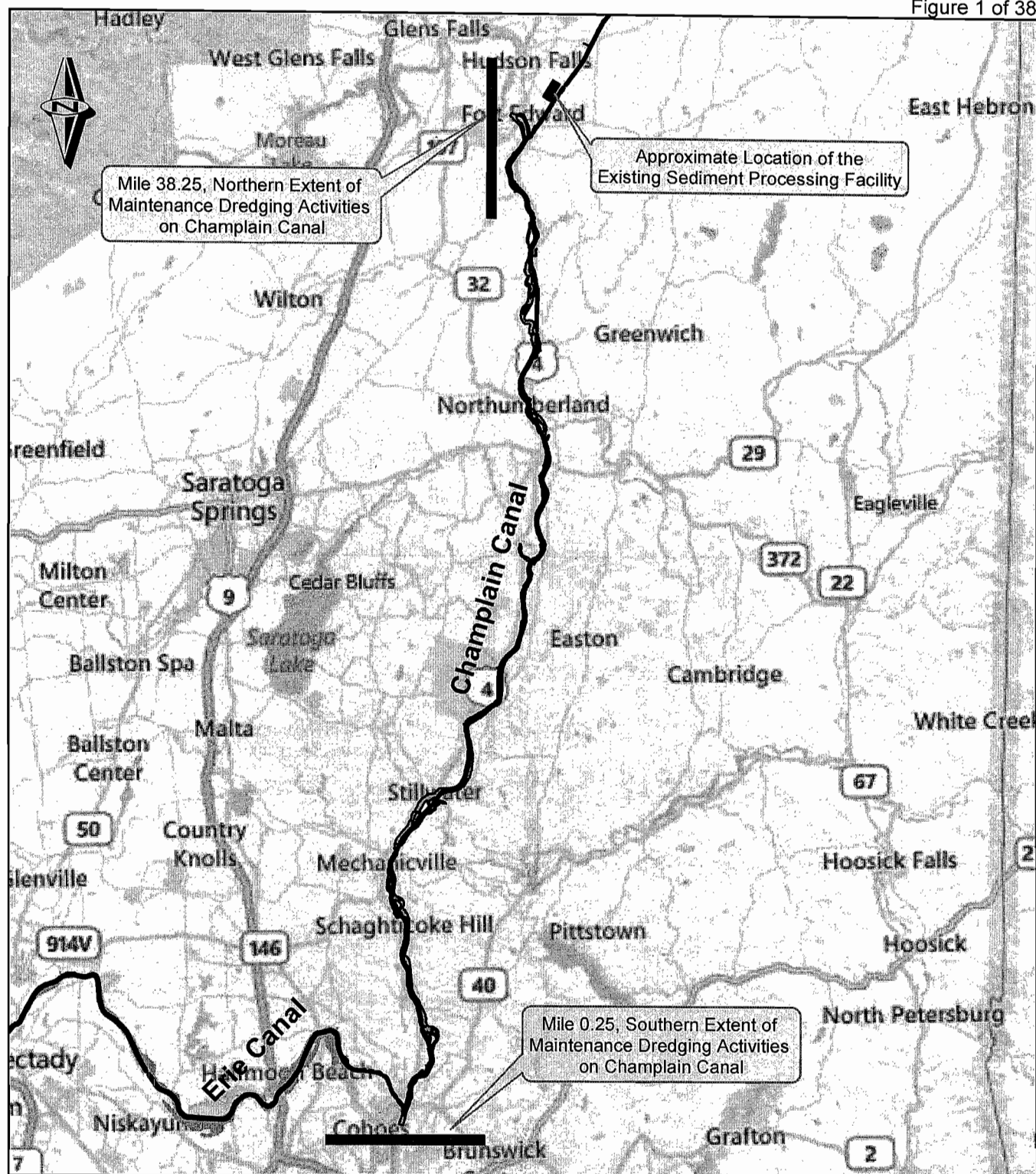
The applicant seeks a permit to conduct the proposed dredging, and to maintain each of the specified sites for a period of ten years. Each of the identified sites would be dredged no more

than 2 times during the proposed permit term. The volume of any subsequent maintenance dredging at a single site after its initial dredging is not expected to exceed the volume of material identified on the attached table. However, should the need arise to dredge more than any volume identified on the table, the applicant would seek a permit modification from this office.

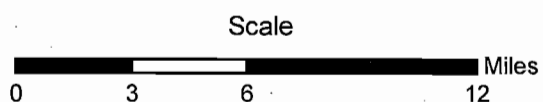
If needed, the applicant also seeks authorization to dredge sites within the subject 38 mile section of the Champlain Canal that are not identified on the attached drawings and table. The NYSCC proposes to obtain a site specific permit modification from the New York District, U.S. Army Corps of Engineers to conduct dredging at any additional locations.

The applicant has stated that they have avoided and minimized proposed impacts to aquatic resources to the maximum extent practicable by: conducting dredging with a mechanical environmental clam shell dredge; not proposing barge overflow; limiting any potential return flow discharge to the canal to the treated water from the sediment processing facility; assuring that any return flow from the sediment processing facility to the canal would be conducted in accordance with State Pollution Discharge Elimination System (SPDES) standards; and by adhering to the water quality certificate issued to the New York State Canal Corporation to conduct dredging within the New York State Barge Canal System by the New York State Department of Environmental Conservation on March 2, 2012. Compensatory mitigation is not proposed by the applicant for this project.

The stated purpose of this project is to restore and maintain the State navigation channel to its previously approved width and depth.



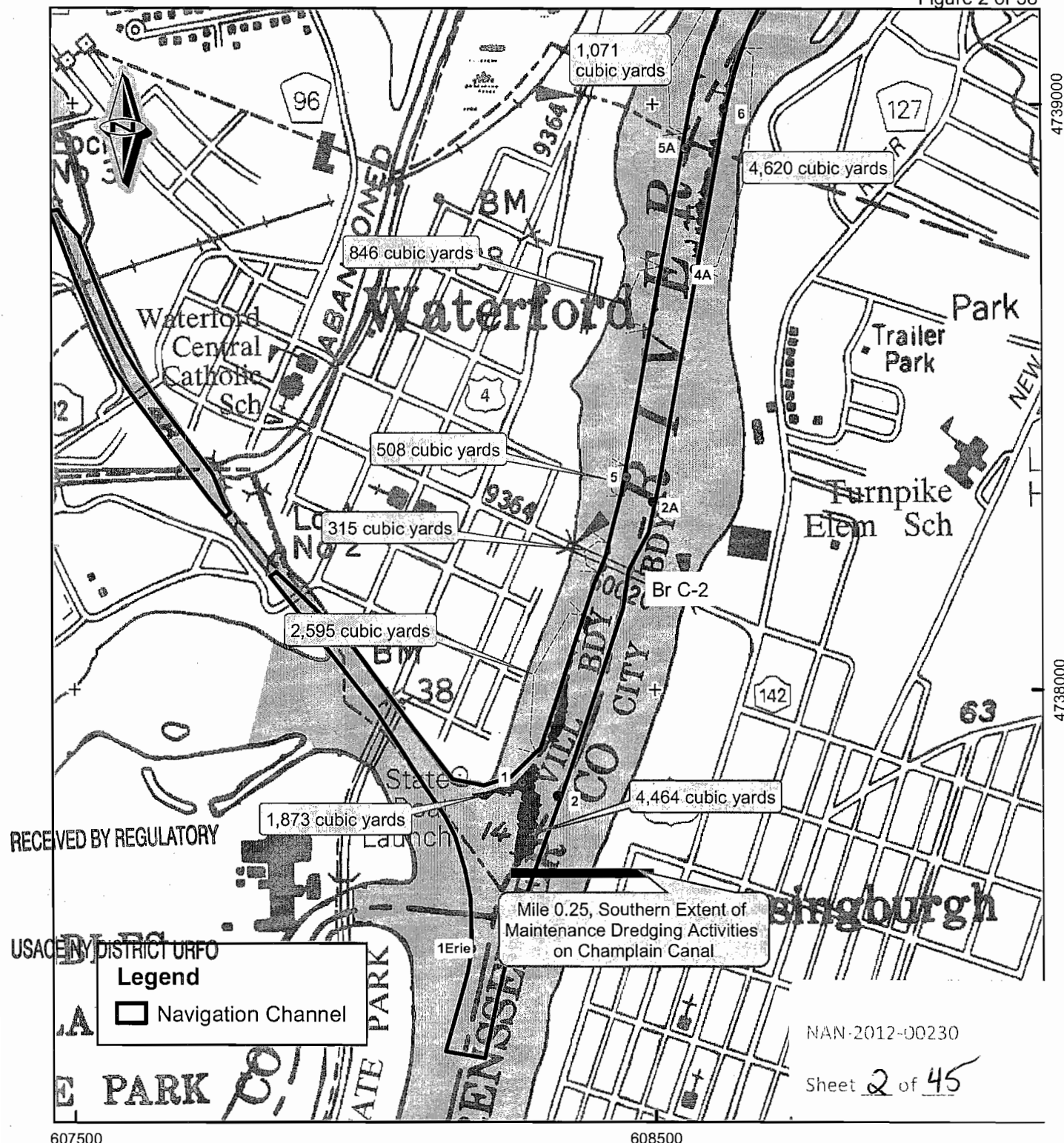
This figure presents the extents of the proposed navigation dredging areas in Champlain Canal.



Limits of Champlain Canal  
Regional Maintenance Dredging  
New York State Canal Corporation  
Albany Division, Section 1

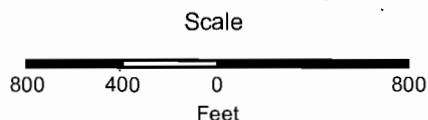
NAN-2012-00230

Sheet 1 of 45



All bathymetry is based on a 2009 survey performed by the NYSCC. Volumes provided are calculated with the navigational design depth of the Champlain Canal of 12 feet plus a 2 foot overcut, for a total depth of 14 feet.

Grid: Meters, UTM, NAD83, Zone 18N  
Location: Troy North 7.5 min Quadrangle



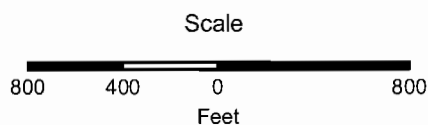
**Estimated Navigation Dredging Needs  
after Completion of GE Project**  
New York State Canal Corporation  
Albany Division, Section 1  
Troy to Lock C1, Sheet 1

\*Depths are from the published pool elevation of 15.2 ft Barge Canal Datum.  
Add 1.7 ft to depths for flashboard system at Green Island Power Authority.  
Total Dredge Volume this sheet = 16,292 cubic yards



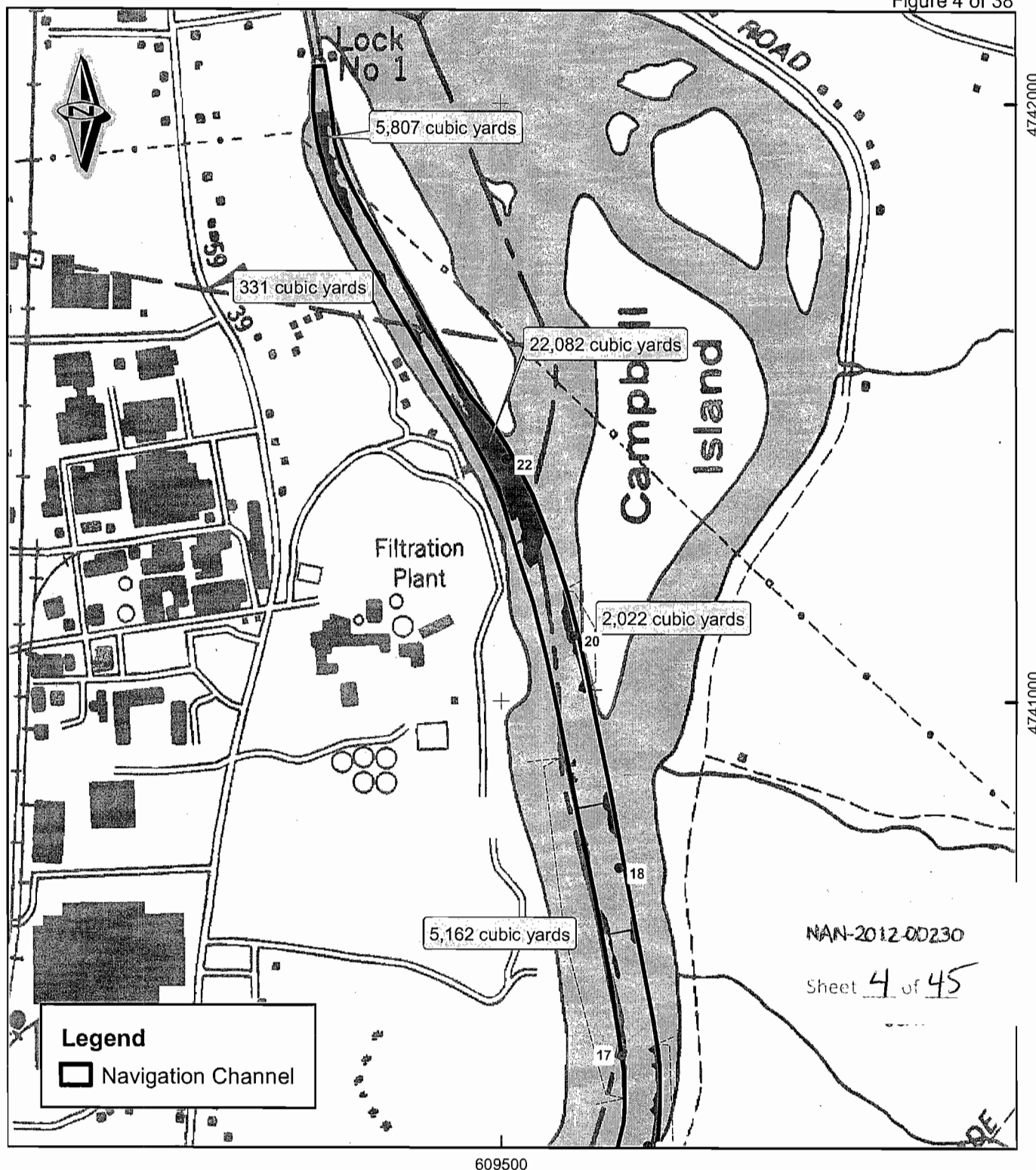
All bathymetry is based on a 2009 survey performed by the NYSCC. Volumes provided are calculated with the navigational design depth of the Champlain Canal of 12 feet plus a 2 foot overcut, for a total depth of 14 feet.

Grid: Meters, UTM, NAD83, Zone 18N  
Location: Troy North 7.5 min Quadrangle



Estimated Navigation Dredging Needs  
after Completion of GE Project  
New York State Canal Corporation  
Albany Division, Section 1  
Troy to Lock C1, Sheet 2

\*Depths are from the published pool elevation of 15.2 ft Barge Canal Datum.  
Add 1.7 ft to depths for flashboard system at Green Island Power Authority.  
Total Dredge Volume this sheet = 30.737 cubic yards



All bathymetry is based on a 2009 survey performed by the NYSCC. Volumes provided are calculated with the navigational design depth of the Champlain Canal of 12 feet plus a 2 foot overcut, for a total depth of 14 feet.

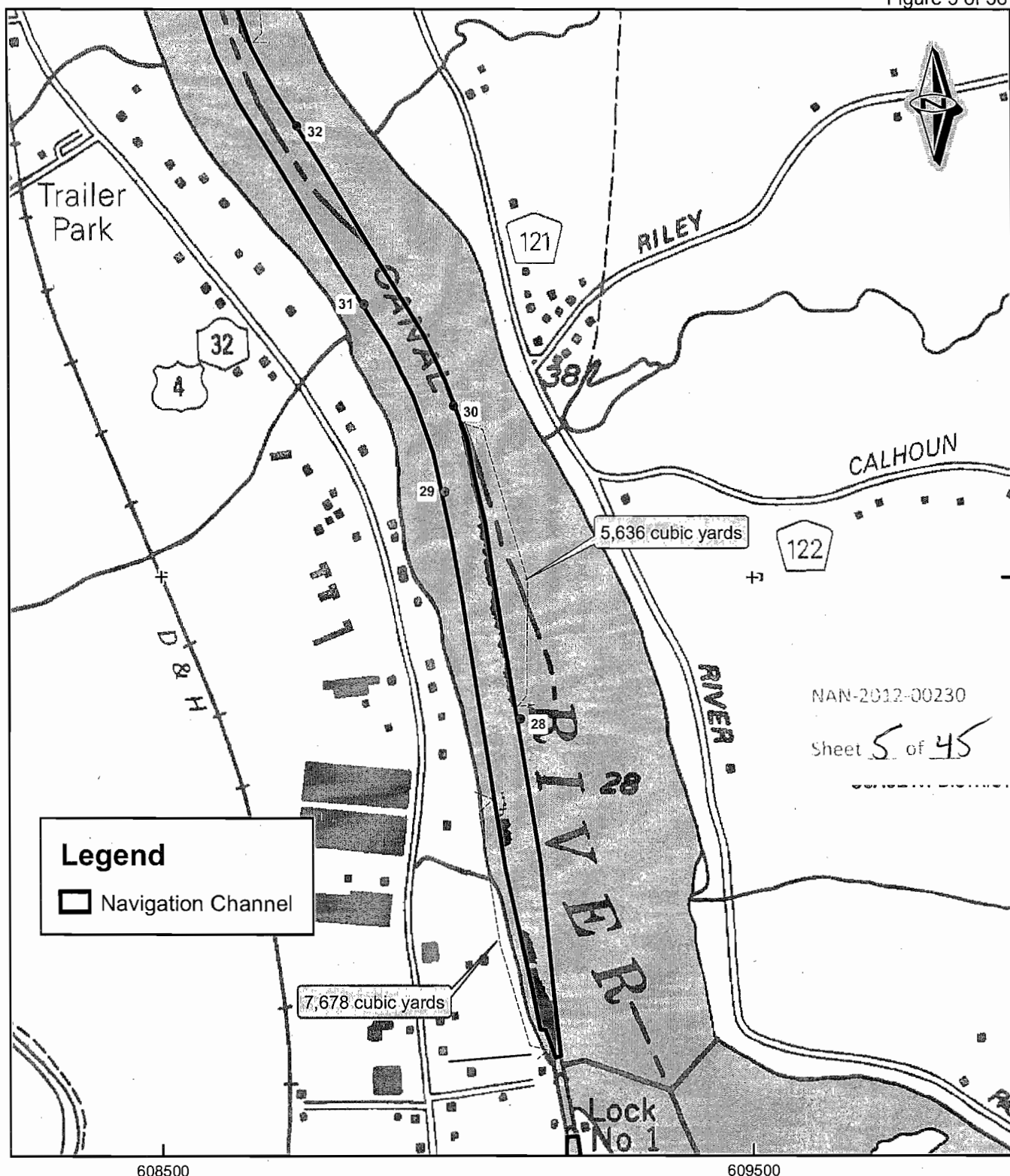
Grid: Meters, UTM, NAD83, Zone 18N  
 Location: Troy North 7.5 min Quadrangle

\*Depths are from the published pool elevation of 15.2 ft Barge Canal Datum.  
 Add 1.7 ft to depths for flashboard system at Green Island Power Authority.  
Total Dredge Volume this sheet = 35,404 cubic yards  
Total Dredge Volume this Level = 71,580 cubic yards



Estimated Navigation Dredging Needs  
after Completion of GE Project  
 New York State Canal Corporation  
 Albany Division, Section 1  
 Troy to Lock C1, Sheet 3





All bathymetry is based on a 2009 survey performed by the NYSCC. Volumes provided are calculated with the navigational design depth of the Champlain Canal of 12 feet plus a 2 foot overcut, for a total depth of 14 feet.

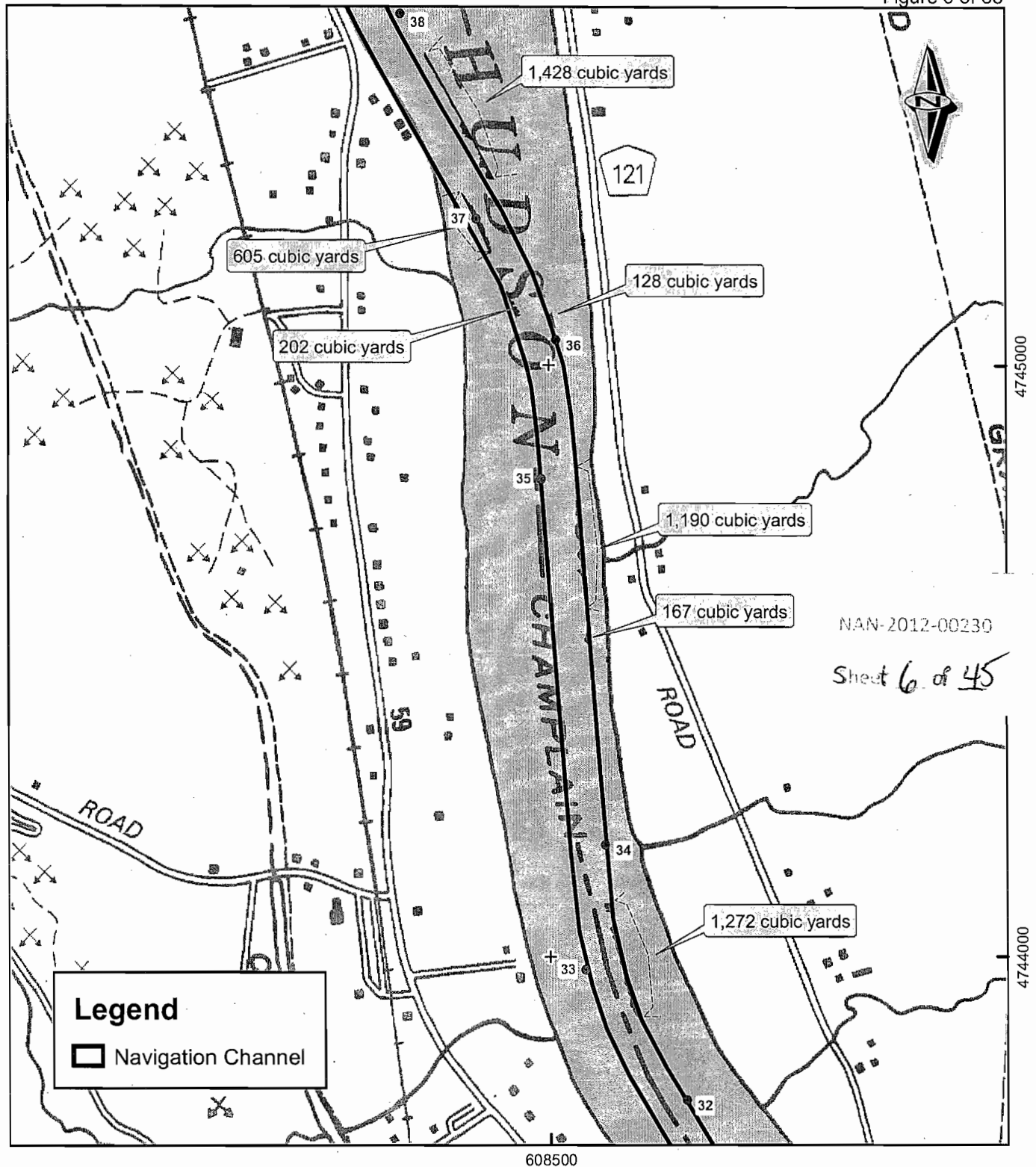
Grid: Meters, UTM, NAD83, Zone 18N  
Location: Troy North 7.5 min Quadrangle

Scale  
800 400 0 800  
Feet



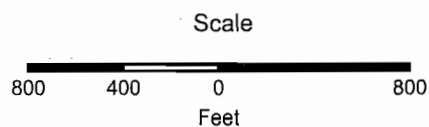
**Estimated Navigation Dredging Needs**  
after Completion of GE Project  
New York State Canal Corporation  
Albany Division, Section 1  
Lock C1 to Lock C2, Sheet 1

\*Depths are from the published pool elevation of 29.5 ft Barge Canal Datum.  
Total Dredge Volume this sheet = 13,314 cubic yards



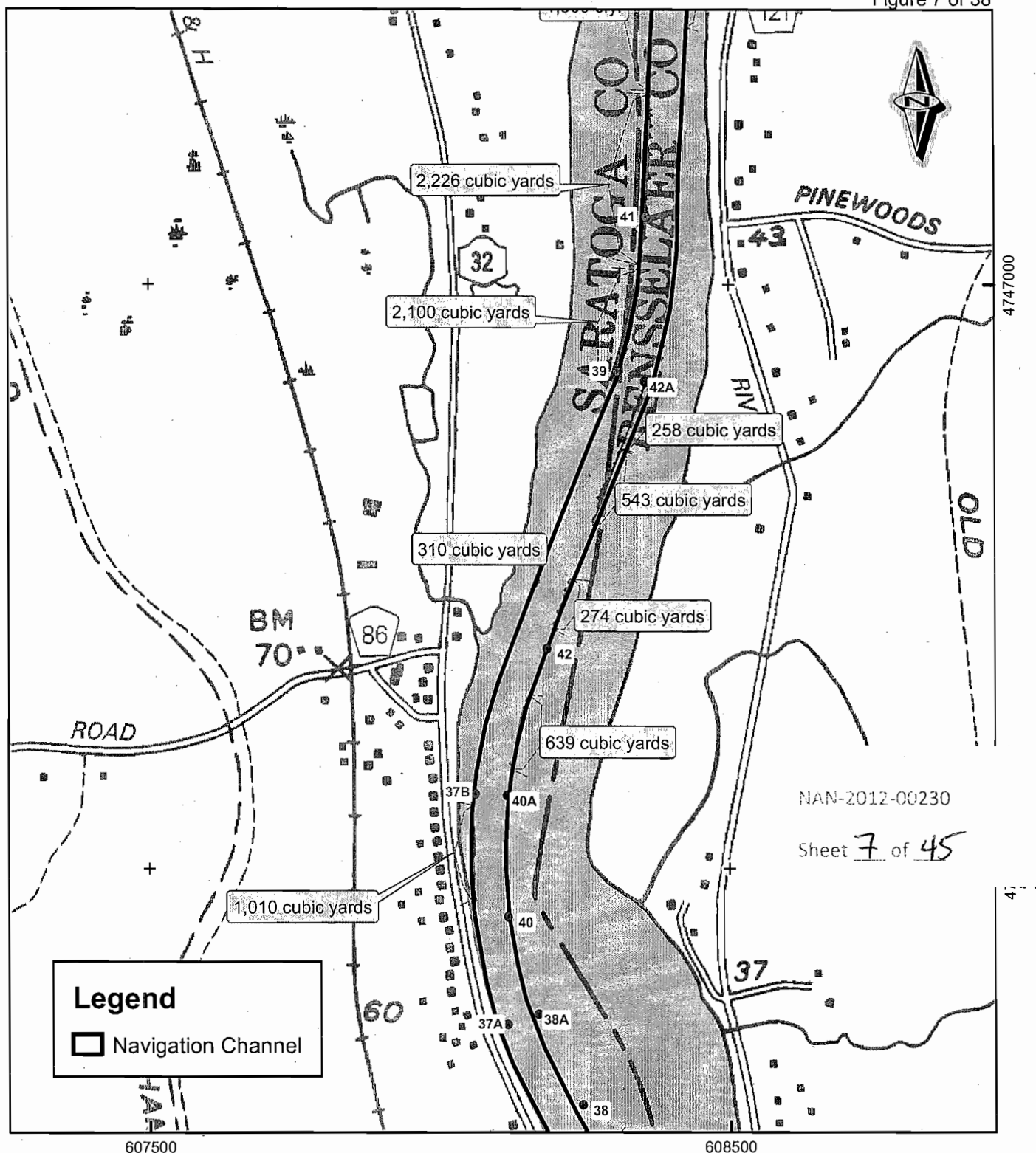
All bathymetry is based on a 2009 survey performed by the NYSCC. Volumes provided are calculated with the navigational design depth of the Champlain Canal of 12 feet plus a 2 foot overcut, for a total depth of 14 feet.

Grid: Meters, UTM, NAD83, Zone 18N  
Location: Troy North 7.5 min Quadrangle



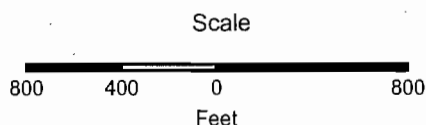
**Estimated Navigation Dredging Needs  
after Completion of GE Project**  
New York State Canal Corporation  
Albany Division, Section 1  
Lock C1 to Lock C2, Sheet 2

\*Depths are from the published pool elevation of 29.5 ft Barge Canal Datum.  
Total Dredge Volume this sheet = 4,992 cubic yards



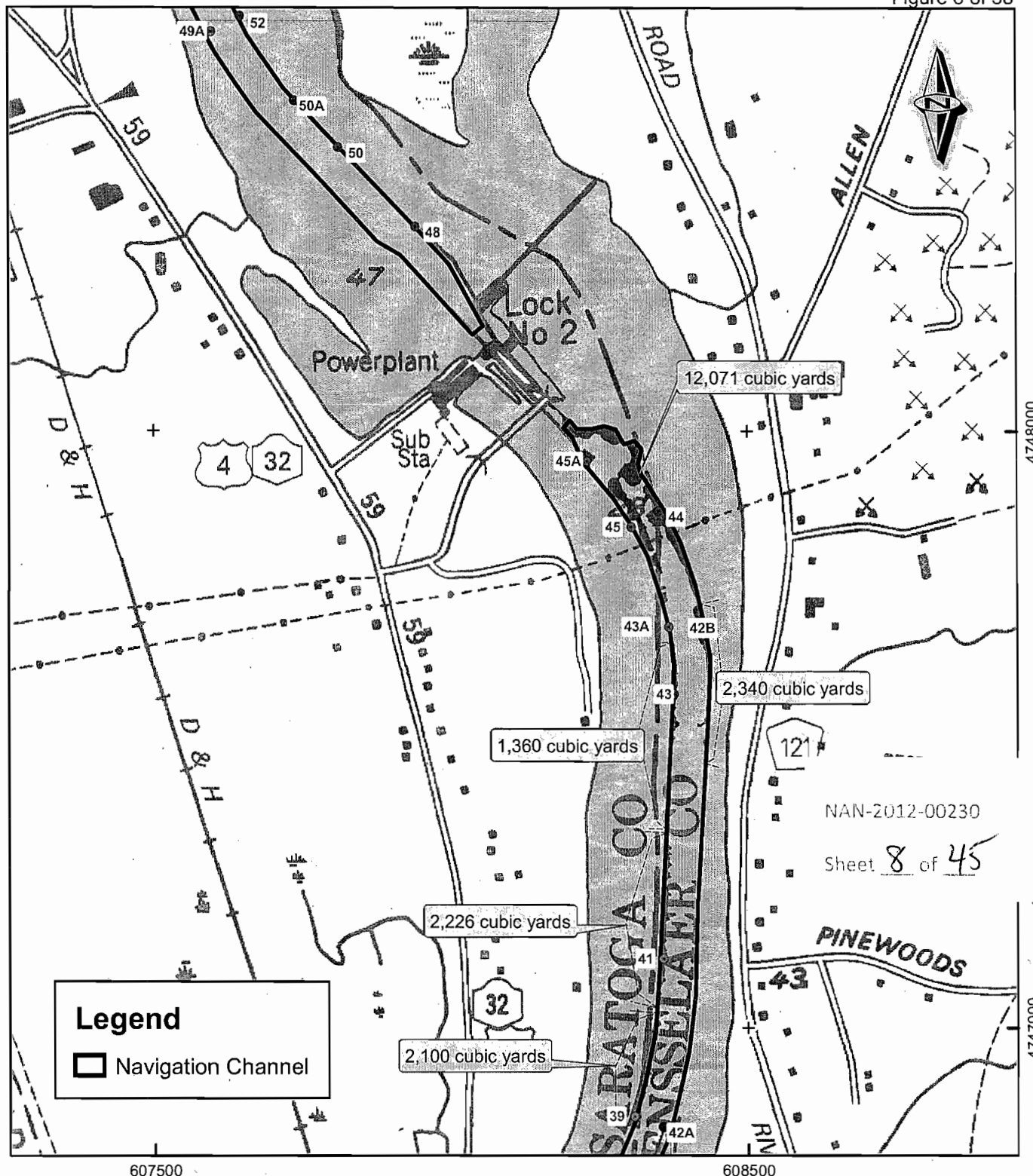
All bathymetry is based on a 2009 survey performed by the NYSCC. Volumes provided are calculated with the navigational design depth of the Champlain Canal of 12 feet plus a 2 foot overcut, for a total depth of 14 feet.

Grid: Meters, UTM, NAD83, Zone 18N  
Location: Troy North 7.5 min Quadrangle



\*Depths are from the published pool elevation of 29.5 ft Barge Canal Datum.  
Total Dredge Volume this sheet = 7,360 cubic yards

Estimated Navigation Dredging Needs  
after Completion of GE Project  
New York State Canal Corporation  
Albany Division, Section 1  
Lock C1 to Lock C2, Sheet 3

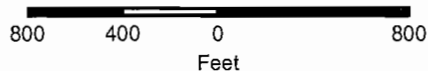


All bathymetry is based on a 2009 survey performed by the NYSCC. Volumes provided are calculated with the navigational design depth of the Champlain Canal of 12 feet plus a 2 foot overcut, for a total depth of 14 feet.

Grid: Meters, UTM, NAD83, Zone 18N

Location: Troy North and Mechanicville 7.5 min Quadrangles

Scale



\*Depths are from the published pool elevation of 29.5 ft Barge Canal Datum.

Total Dredge Volume this sheet = 20,097 cubic yards

Total Dredge Volume this Level = 41,437 cubic yards



Estimated Navigation Dredging Needs

after Completion of GE Project

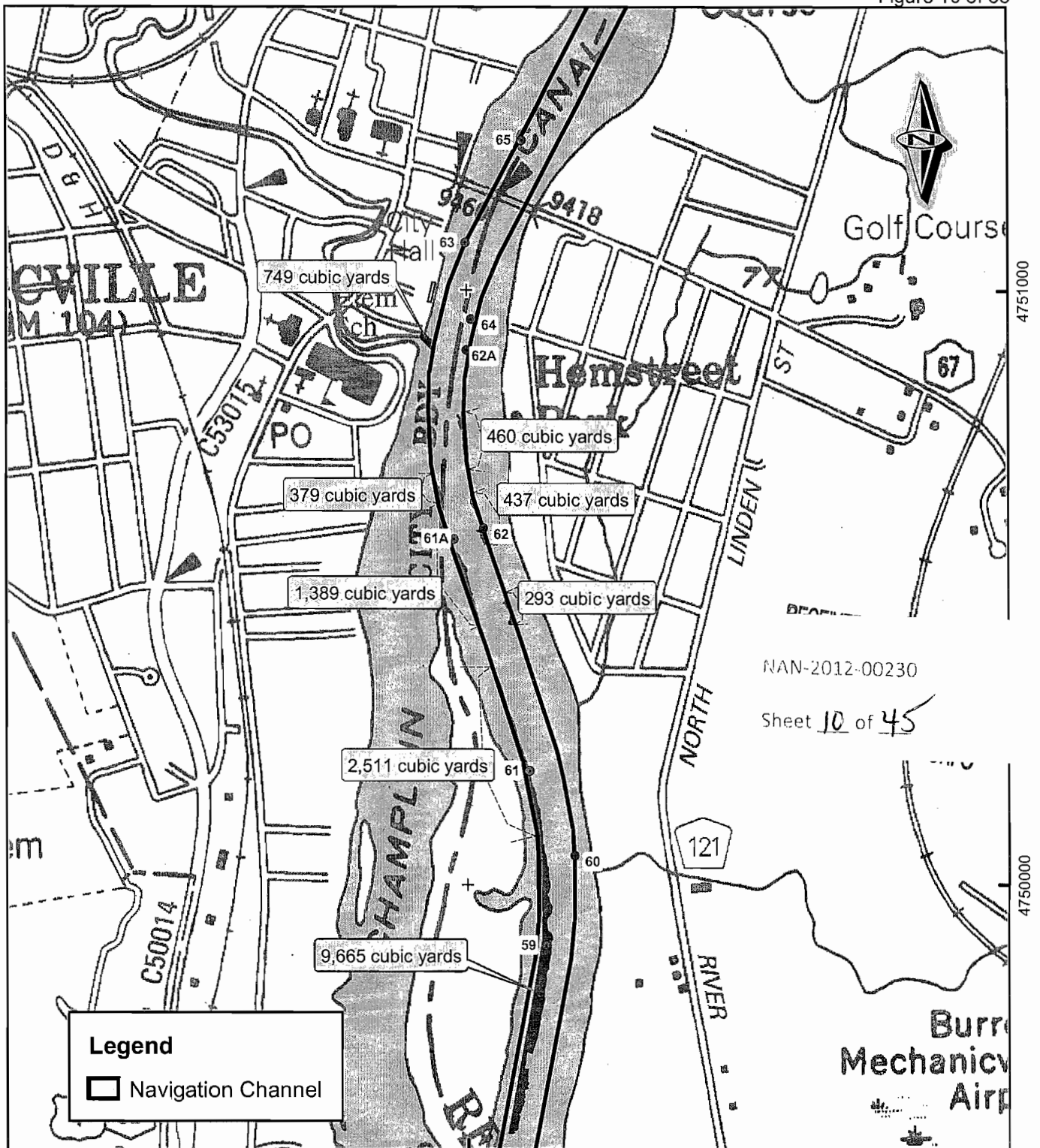
New York State Canal Corporation

Albany Division, Section 1

Lock C1 to Lock C2, Sheet 4

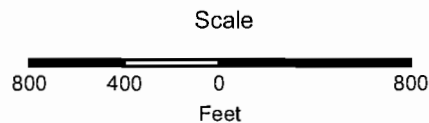






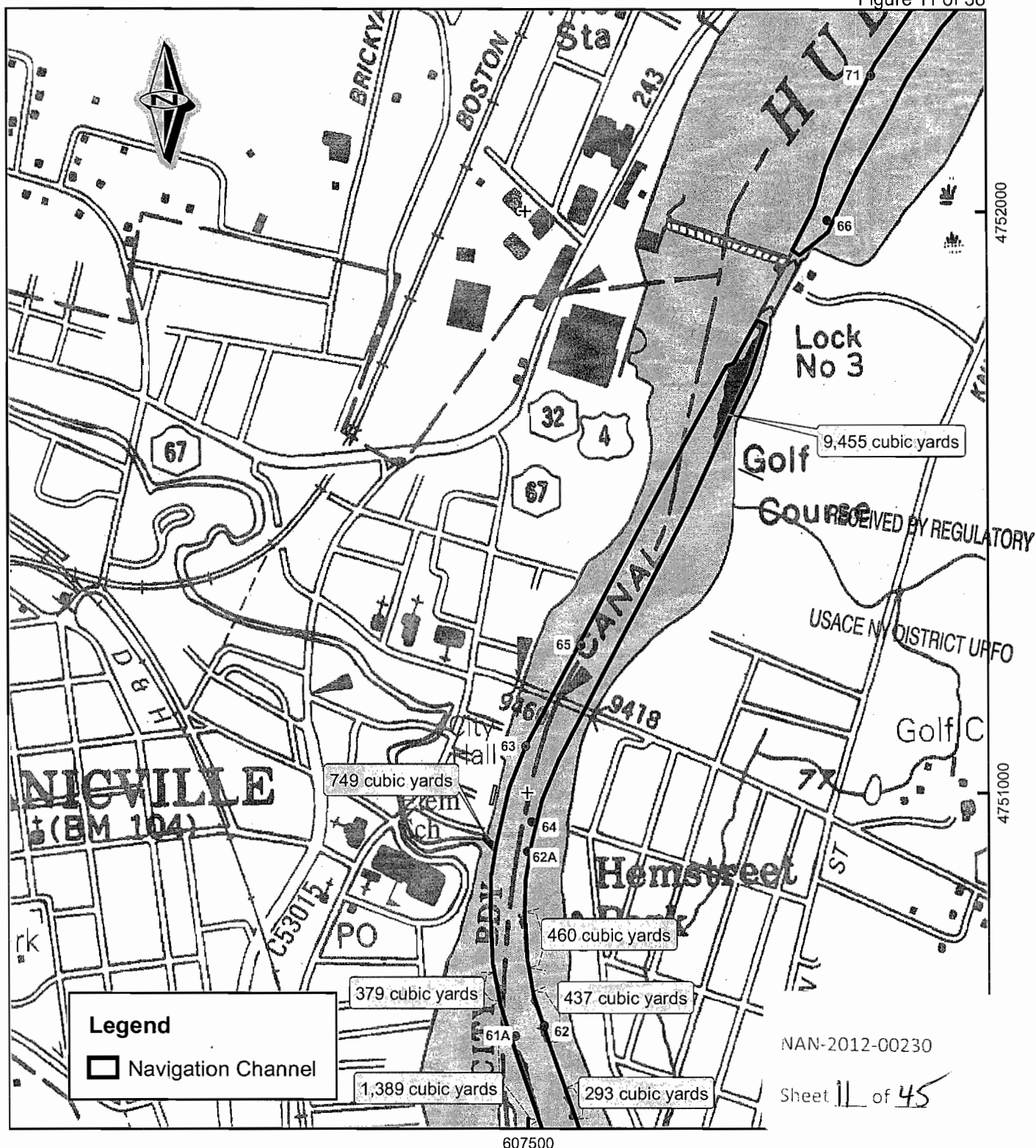
All bathymetry is based on a 2009 survey performed by the NYSCC. Volumes provided are calculated with the navigational design depth of the Champlain Canal of 12 feet plus a 2 foot overcut, for a total depth of 14 feet.

Grid: Meters, UTM, NAD83, Zone 18N  
Location: Mechanicville 7.5 min Quadrangle



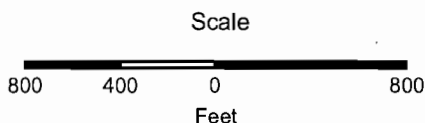
**Estimated Navigation Dredging Needs**  
after Completion of GE Project  
New York State Canal Corporation  
Albany Division, Section 1  
Lock C2 to Lock C3, Sheet 2

\*Depths are from the published pool elevation of 48.0 ft Barge Canal Datum.  
Total Dredge Volume this sheet = 15,923 cubic yards



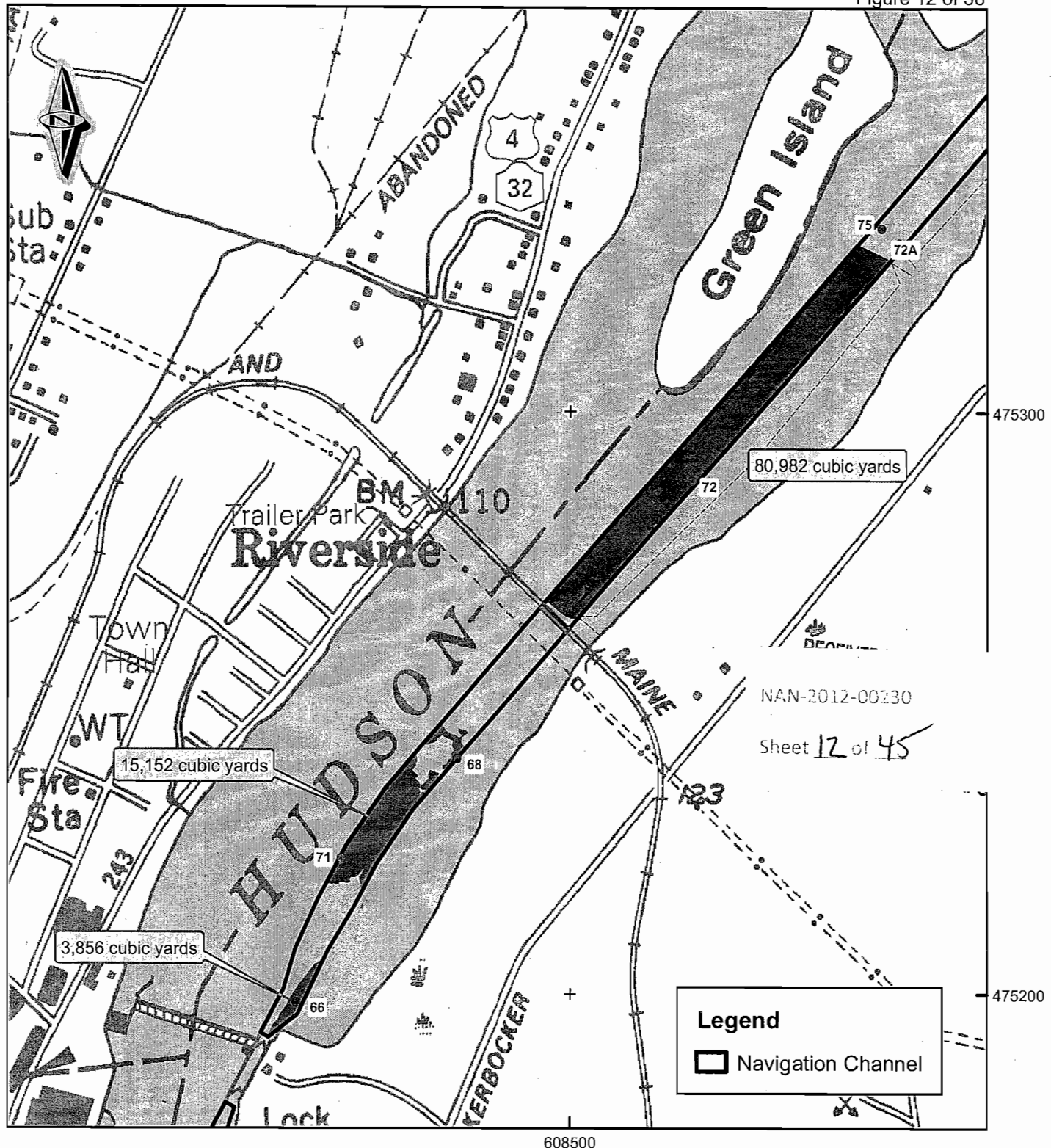
All bathymetry is based on a 2009 survey performed by the NYSCC. Volumes provided are calculated with the navigational design depth of the Champlain Canal of 12 feet plus a 2 foot overcut, for a total depth of 14 feet.

Grid: Meters, UTM, NAD83, Zone 18N  
Location: Mechanicville 7.5 min Quadrangle



**Estimated Navigation Dredging Needs**  
**after Completion of GE Project**  
New York State Canal Corporation  
Albany Division, Section 1  
Lock C2 to Lock C3, Sheet 3

\*Depths are from the published pool elevation of 48.0 ft Barge Canal Datum.  
Total Dredge Volume this sheet = 13,162 cubic yards  
Total Dredge Volume this Level = 45,216 cubic yards



All bathymetry is based on a November 2011 survey performed by the NYSCC. Volumes provided are calculated with the navigational design depth of the Champlain Canal is 12 feet plus a 2 foot overcut, for a total depth of 14 feet.

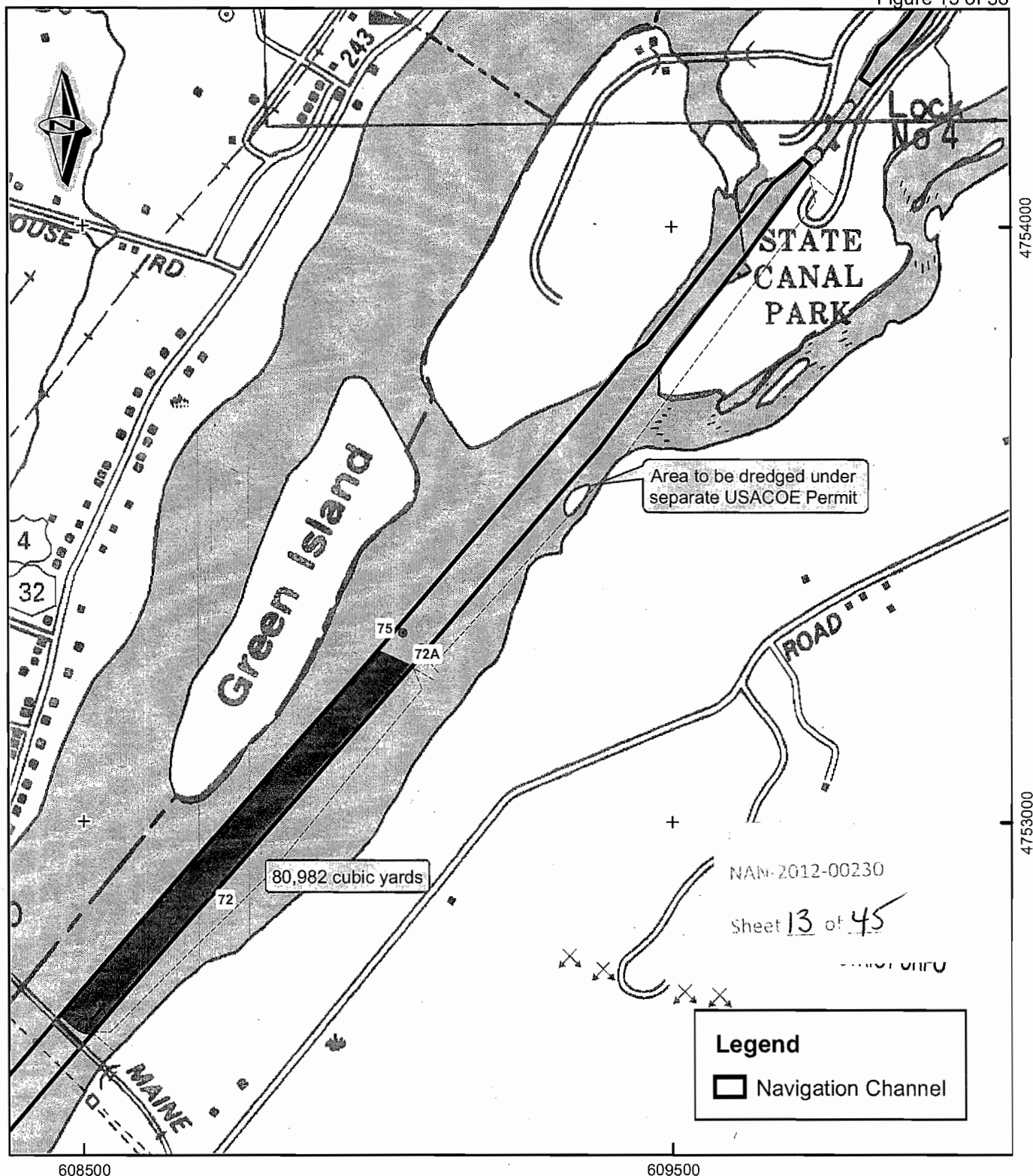
Grid: Meters, UTM, NAD83, Zone 18N  
Location: Mechanicville 7.5 min Quadrangle



\*Depths are from the published pool elevation of 67.5 ft Barge Canal Datum.  
Add 6.0 ft to these depths when the dams at NYSEG are up.  
Total Dredge Volume this sheet = 99,990 cubic yards

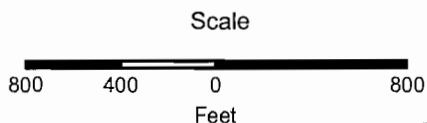


Estimated Navigation Dredging Needs  
after Completion of GE Project  
New York State Canal Corporation  
Albany Division, Section 1  
Lock C3 to Lock C4, Sheet 1



All bathymetry is based on a November 2011 survey performed by the NYSCC. Volumes provided are calculated with the navigational design depth of the Champlain Canal is 12 feet plus a 2 foot overcut, for a total depth of 14 feet.

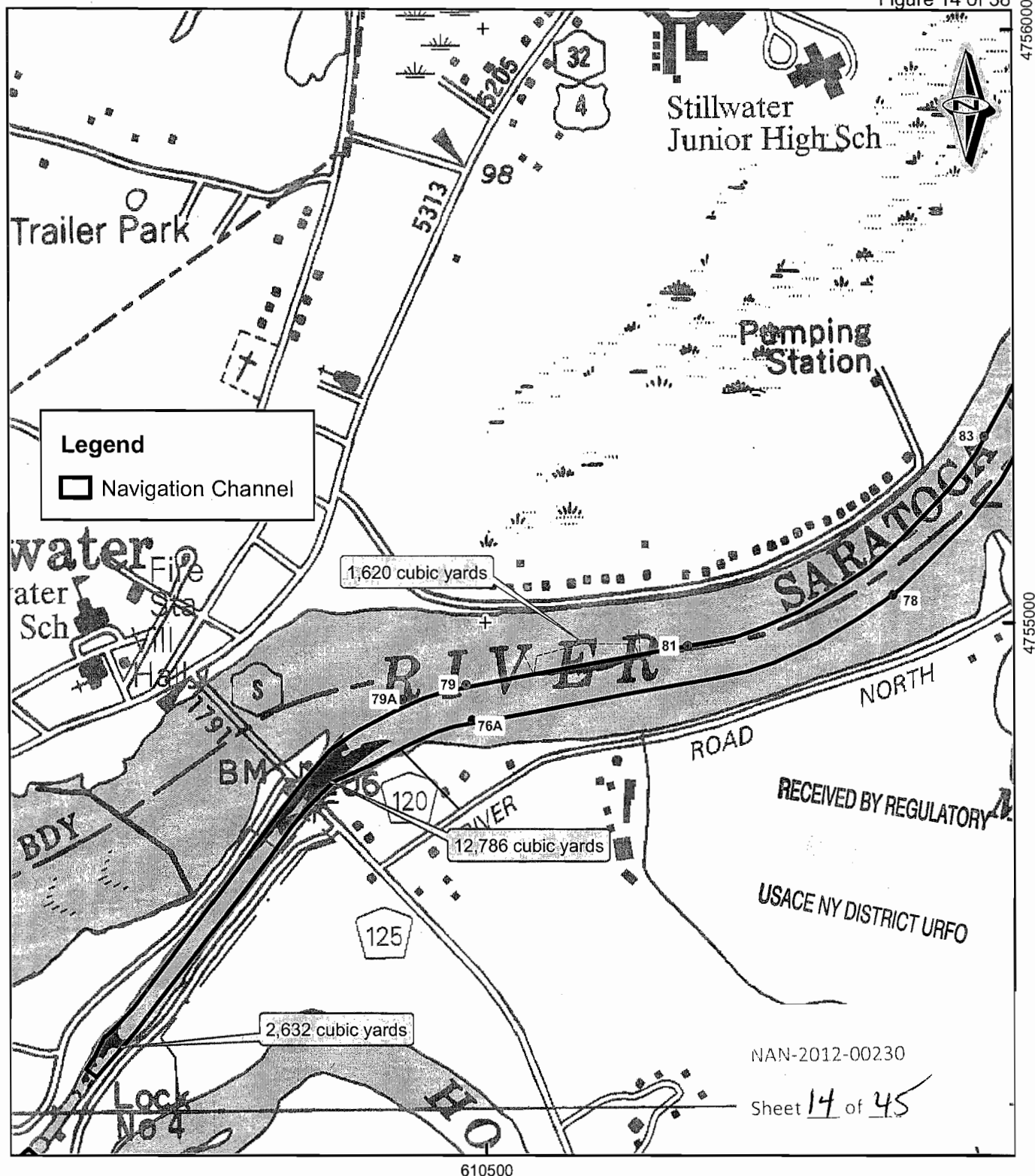
Grid: Meters, UTM, NAD83, Zone 18N  
Location: Mechanicville 7.5 min Quadrangle



\*Depths are from the published pool elevation of 67.5 ft Barge Canal Datum.  
Add 6.0 ft to these depths when the dams at NYSEG are up.  
Total Dredge Volume this sheet = 80,892 cubic yards  
Total Dredge Volume this Level = 99,990 cubic yards

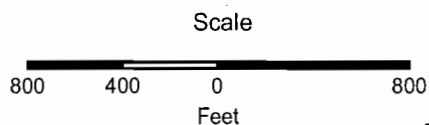
Estimated Navigation Dredging Needs  
after Completion of GE Project  
New York State Canal Corporation  
Albany Division, Section 1  
Lock C3 to Lock C4, Sheet 2





All bathymetry is based on a 2009 survey performed by the NYSCC. Volumes provided are calculated with the navigational design depth of the Champlain Canal of 12 feet plus a 2 foot overcut, for a total depth of 14 feet.

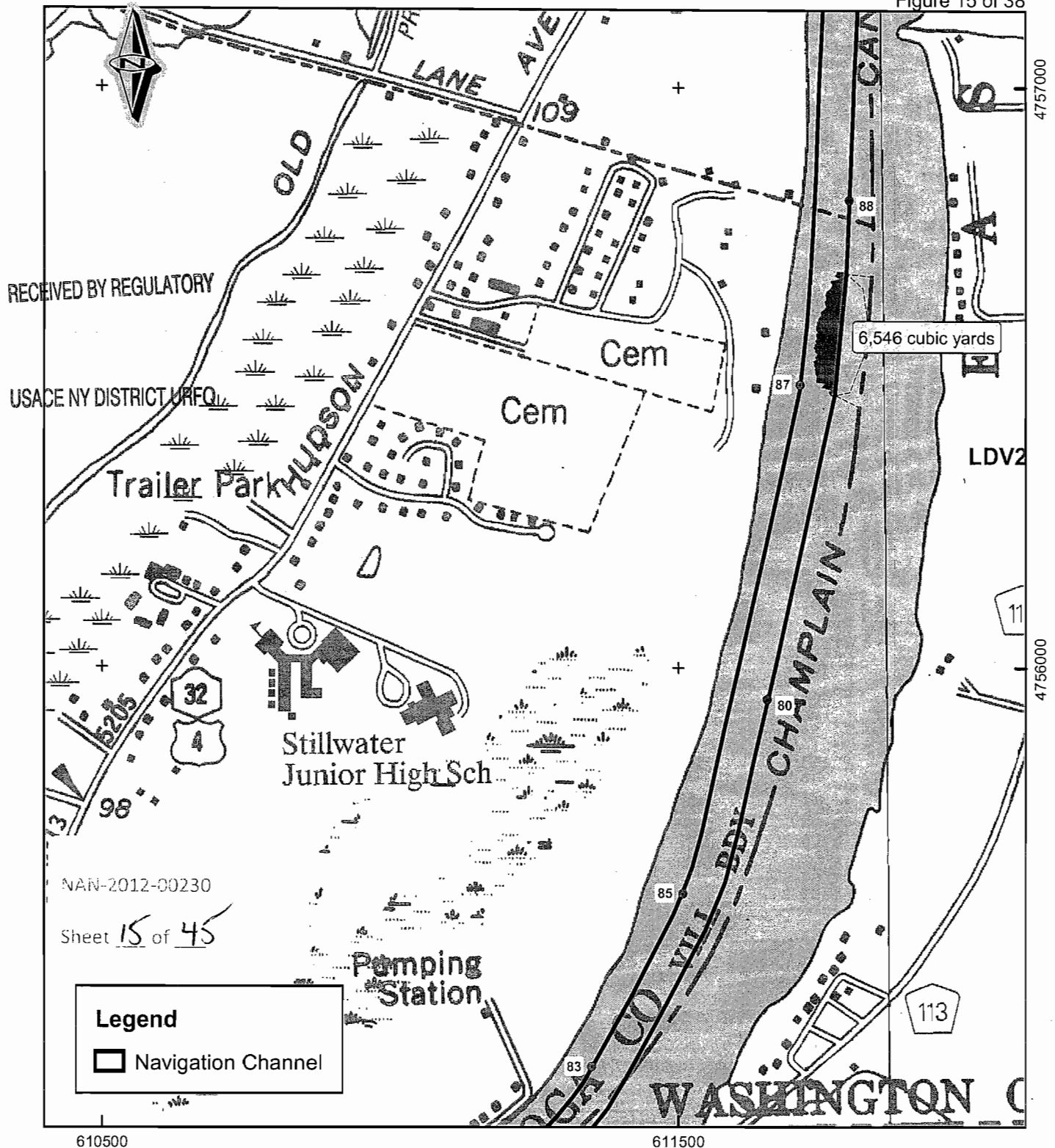
Grid: Meters, UTM, NAD83, Zone 18N  
Location: Mechanicville 7.5 min Quadrangle



\*Depths are from the published pool elevation of 83.5 ft Barge Canal Datum.  
Total Dredge Volume this sheet = 17,038 cubic yards

Estimated Navigation Dredging Needs  
after Completion of GE Project  
New York State Canal Corporation  
Albany Division, Section 1  
Lock C4 to Lock C5, Sheet 1





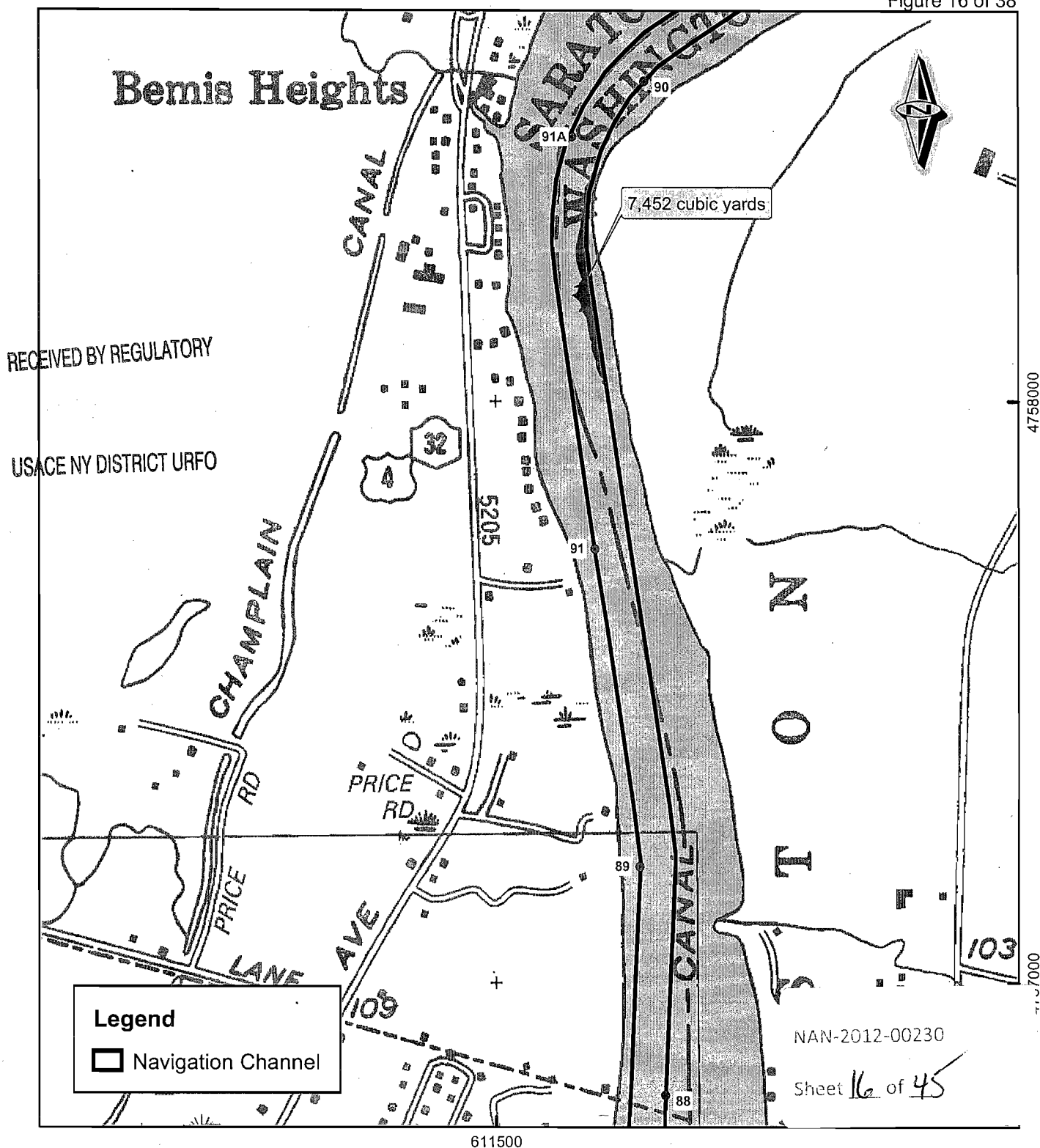
All bathymetry is based on a 2009 survey performed by the NYSCC. Volumes provided are calculated with the navigational design depth of the Champlain Canal of 12 feet plus a 2 foot overcut, for a total depth of 14 feet.

Grid: Meters, UTM, NAD83, Zone 18N  
Location: Mechanicville 7.5 min Quadrangle

\*Depths are from the published pool elevation of 83.5 ft Barge Canal Datum.  
Total Dredge Volume this sheet = 6,546 cubic yards



Estimated Navigation Dredging Needs  
after Completion of GE Project  
New York State Canal Corporation  
Albany Division, Section 1  
Lock C4 to Lock C5, Sheet 2



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Grid: Meters, UTM, NAD83, Zone 18N

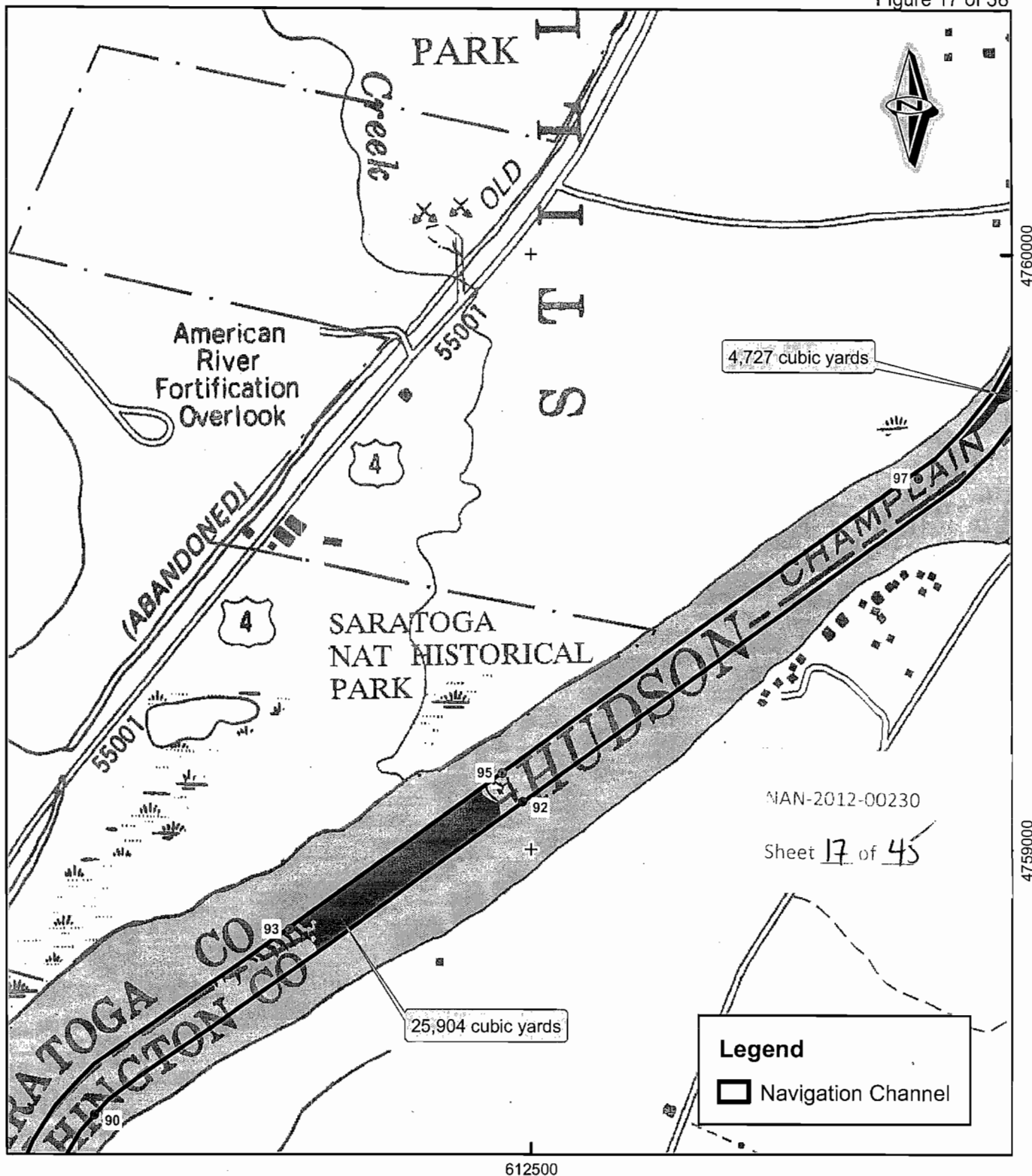
Location: Mechanicville 7.5 min Quadrangle

800 400 0 800  
Feet

\*Depths are from the published pool elevation of 83.5 ft Barge Canal Datum.  
Total Dredge Volume this sheet = 7,452 cubic yards



**Estimated Navigation Dredging Needs**  
after Completion of GE Project  
New York State Canal Corporation  
Albany Division, Section 1  
Lock C4 to Lock C5, Sheet 3



All bathymetry is based on a 2009 survey performed by the NYSCC. Volumes provided are calculated with the navigational design depth of the Champlain Canal of 12 feet plus a 2 foot overcut, for a total depth of 14 feet.

Grid: Meters, UTM, NAD83, Zone 18N  
 Location: Mechanicville and  
 Schaghticoke 7.5 min Quadrangles

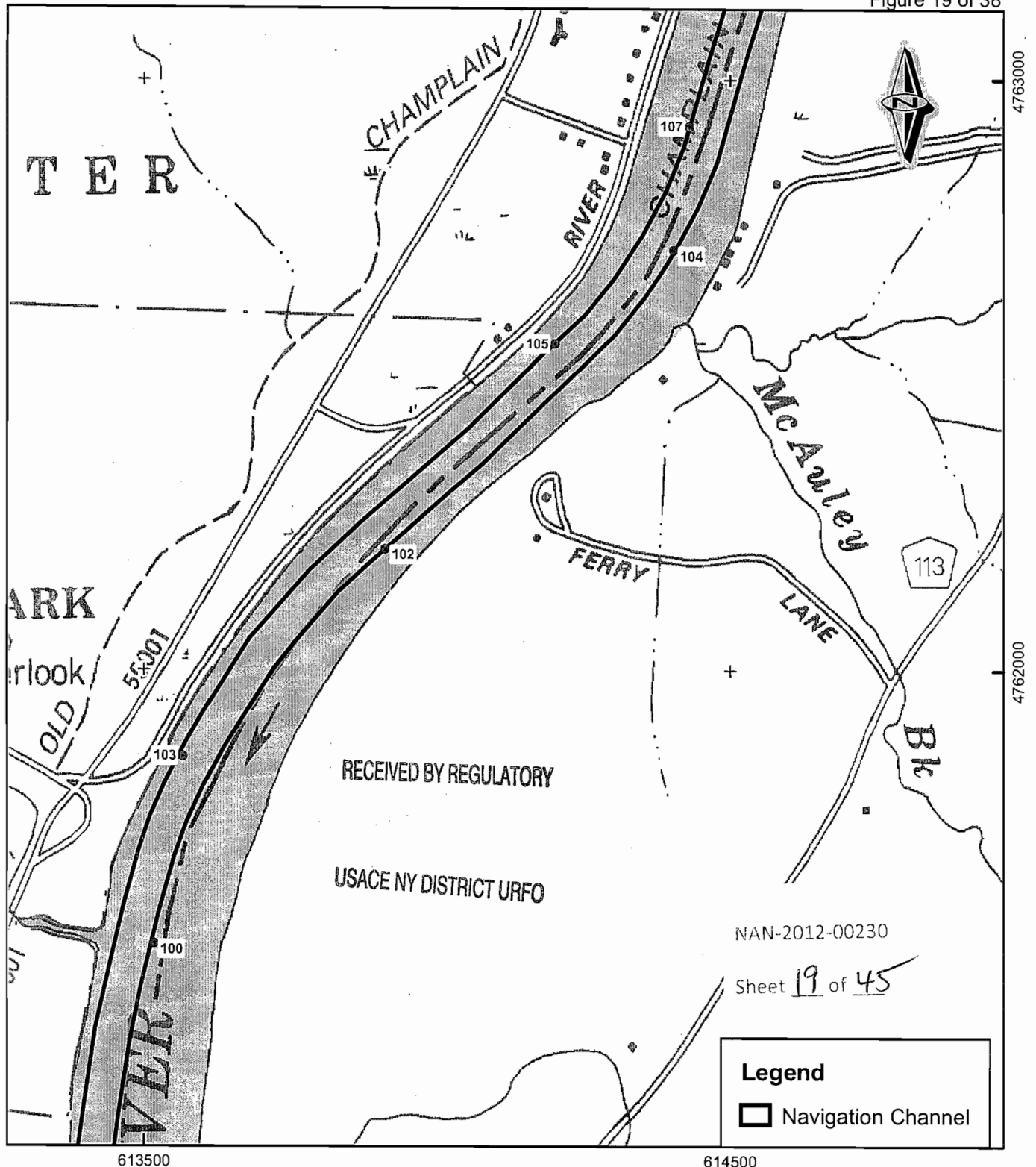


\*Depths are from the published pool elevation of 83.5 ft Barge Canal Datum.  
Total Dredge Volume this sheet = 30,631 cubic yards

Estimated Navigation Dredging Needs  
after Completion of GE Project  
 New York State Canal Corporation  
 Albany Division, Section 1  
 Lock C4 to Lock C5, Sheet 4

The seal of the New York State Canal Corporation is a circular emblem. It features a black silhouette of the state of New York in the center. The words "NEW YORK STATE" are written in a semi-circle above the state, and "CANAL CORPORATION" is written in a semi-circle below it, all within a black border.

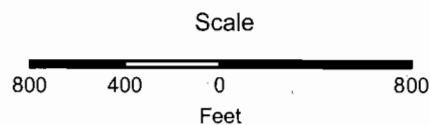
**Estimated Navigation Dredging Needs**  
**after Completion of GE Project**  
New York State Canal Corporation  
Albany Division, Section 1  
Lock C4 to Lock C5, Sheet 5



All bathymetry is based on a 2009 survey performed by the NYSCC. Volumes provided are calculated with the navigational design depth of the Champlain Canal of 12 feet plus a 2 foot overcut, for a total depth of 14 feet.

Grid: Meters, UTM, NAD83, Zone 18N

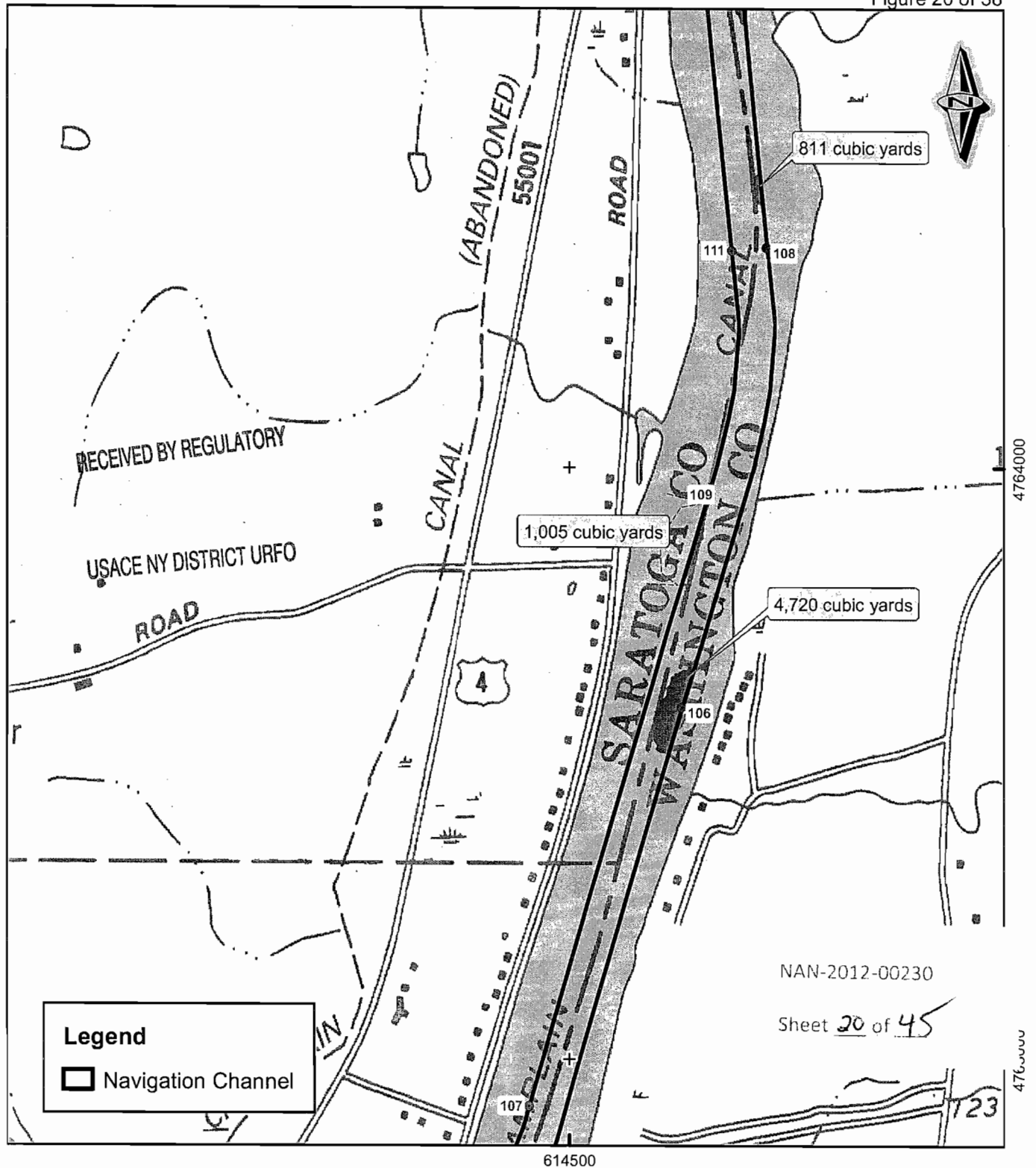
Location: Schaghticoke and  
Schuylerville 7.5 min Quadrangle



\*Depths are from the published pool elevation of 83.5 ft Barge Canal Datum.  
Total Dredge Volume this sheet = 0 cubic yards

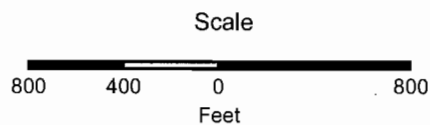
**Estimated Navigation Dredging Needs  
after Completion of GE Project**  
New York State Canal Corporation  
Albany Division, Section 1  
Lock C4 to Lock C5, Sheet 6





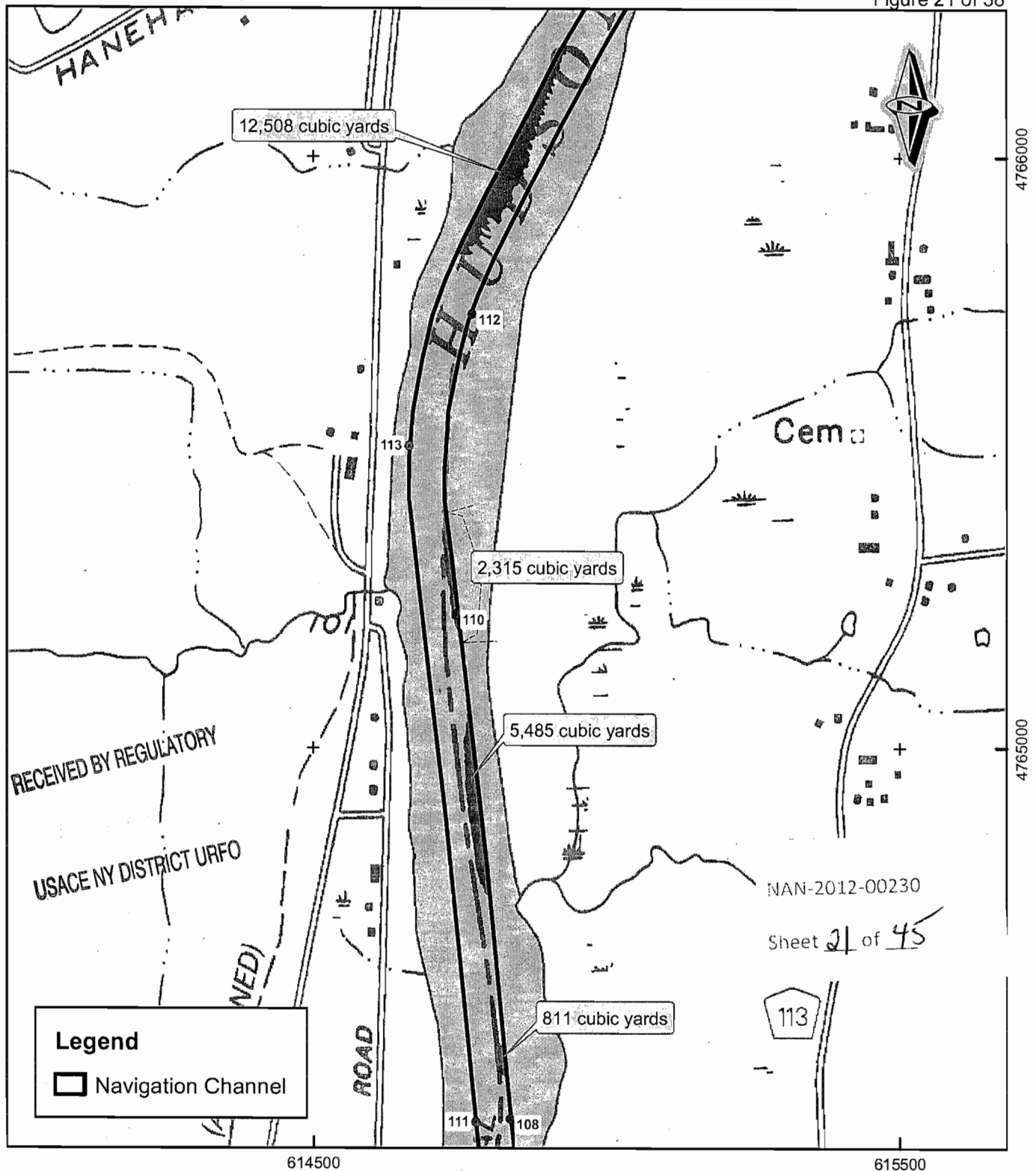
All bathymetry is based on a 2009 survey performed by the NYSCC. Volumes provided are calculated with the navigational design depth of the Champlain Canal of 12 feet plus a 2 foot overcut, for a total depth of 14 feet.

Grid: Meters, UTM, NAD83, Zone 18N  
Location: Schuylerville 7.5 min Quadrangle



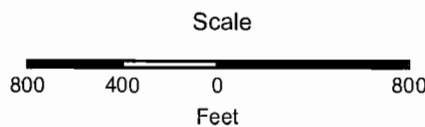
\*Depths are from the published pool elevation of 83.5 ft Barge Canal Datum.  
Total Dredge Volume this sheet = 6,536 cubic yards

Estimated Navigation Dredging Needs  
after Completion of GE Project  
New York State Canal Corporation  
Albany Division, Section 1  
Lock C4 to Lock C5, Sheet 7



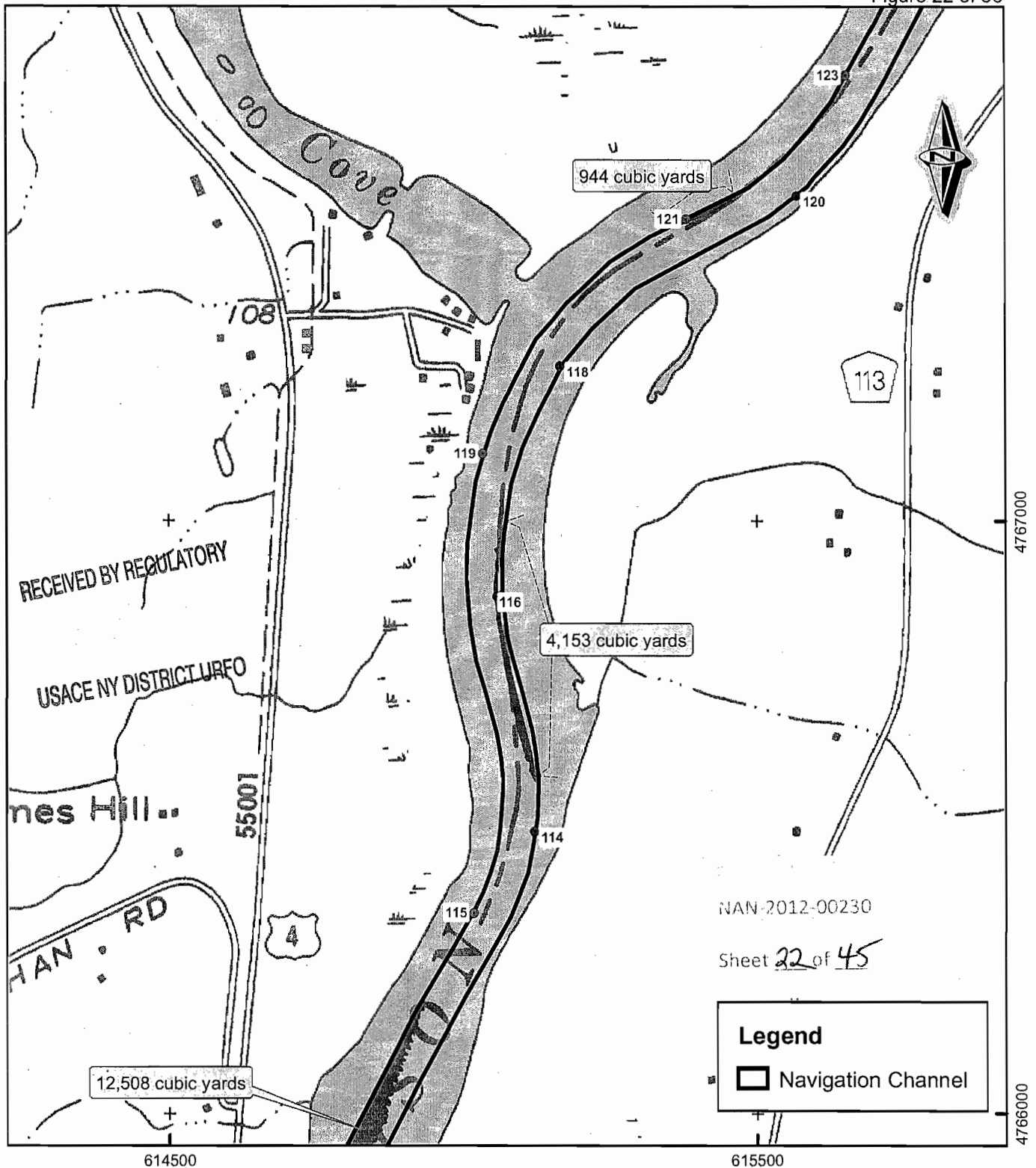
All bathymetry is based on a 2009 survey performed by the NYSCC. Volumes provided are calculated with the navigational design depth of the Champlain Canal of 12 feet plus a 2 foot overcut, for a total depth of 14 feet.

Grid: Meters, UTM, NAD83, Zone 18N  
Location: Schuylerville 7.5 min Quadrangle



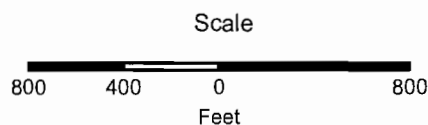
\*Depths are from the published pool elevation of 83.5 ft Barge Canal Datum.  
Total Dredge Volume this sheet = 21,119 cubic yards

Estimated Navigation Dredging Needs  
after Completion of GE Project  
New York State Canal Corporation  
Albany Division, Section 1  
Lock C4 to Lock C5, Sheet 8



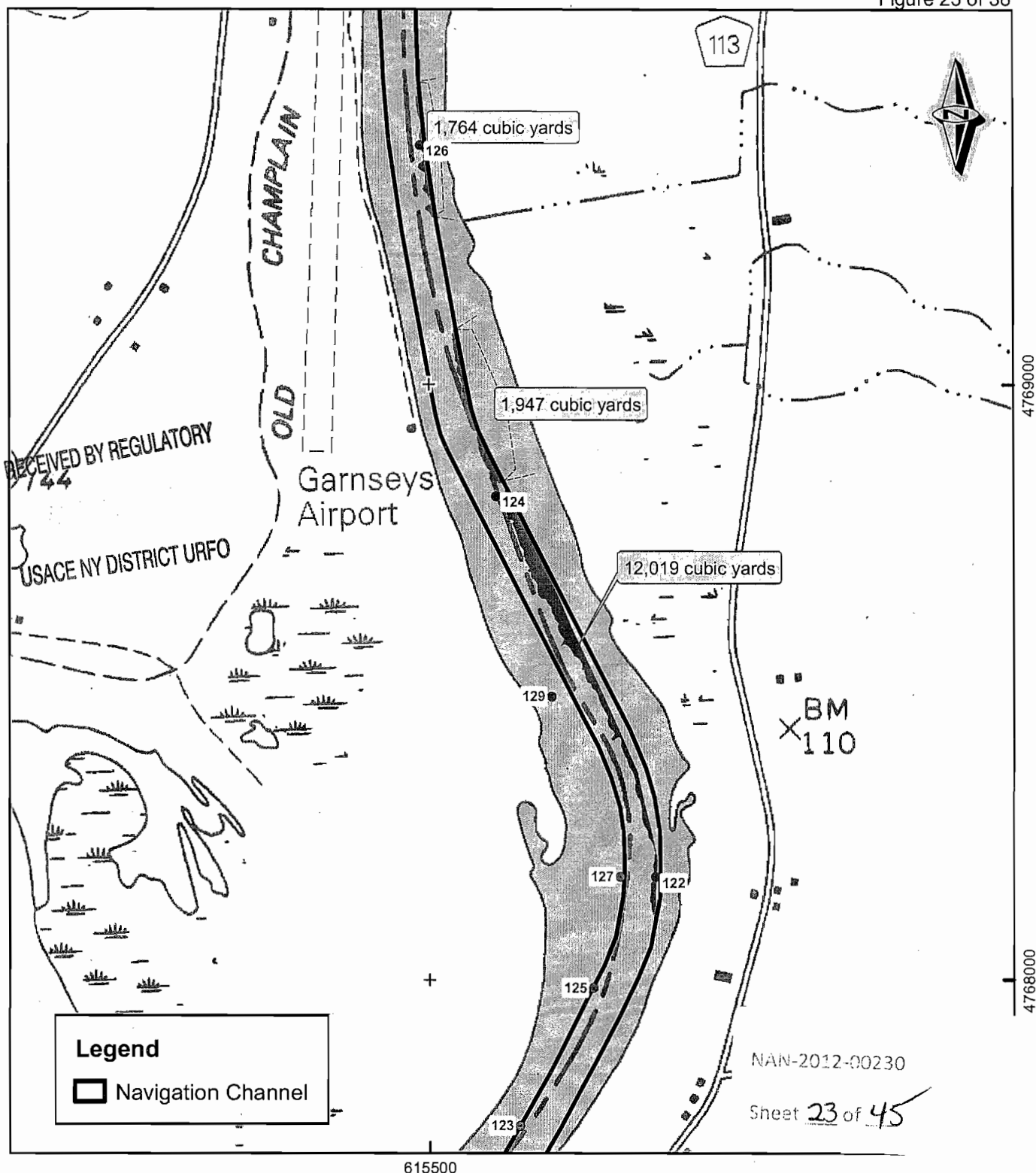
All bathymetry is based on a 2009 survey performed by the NYSCC. Volumes provided are calculated with the navigational design depth of the Champlain Canal of 12 feet plus a 2 foot overcut, for a total depth of 14 feet.

Grid: Meters, UTM, NAD83, Zone 18N  
 Location: Schuylerville 7.5 min Quadrangle



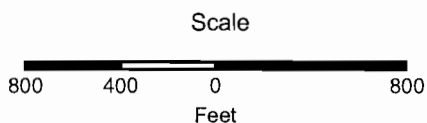
\*Depths are from the published pool elevation of 83.5 ft Barge Canal Datum.  
Total Dredge Volume this sheet = 17,605 cubic yards

Estimated Navigation Dredging Needs  
after Completion of GE Project  
 New York State Canal Corporation  
 Albany Division, Section 1  
 Lock C4 to Lock C5, Sheet 9



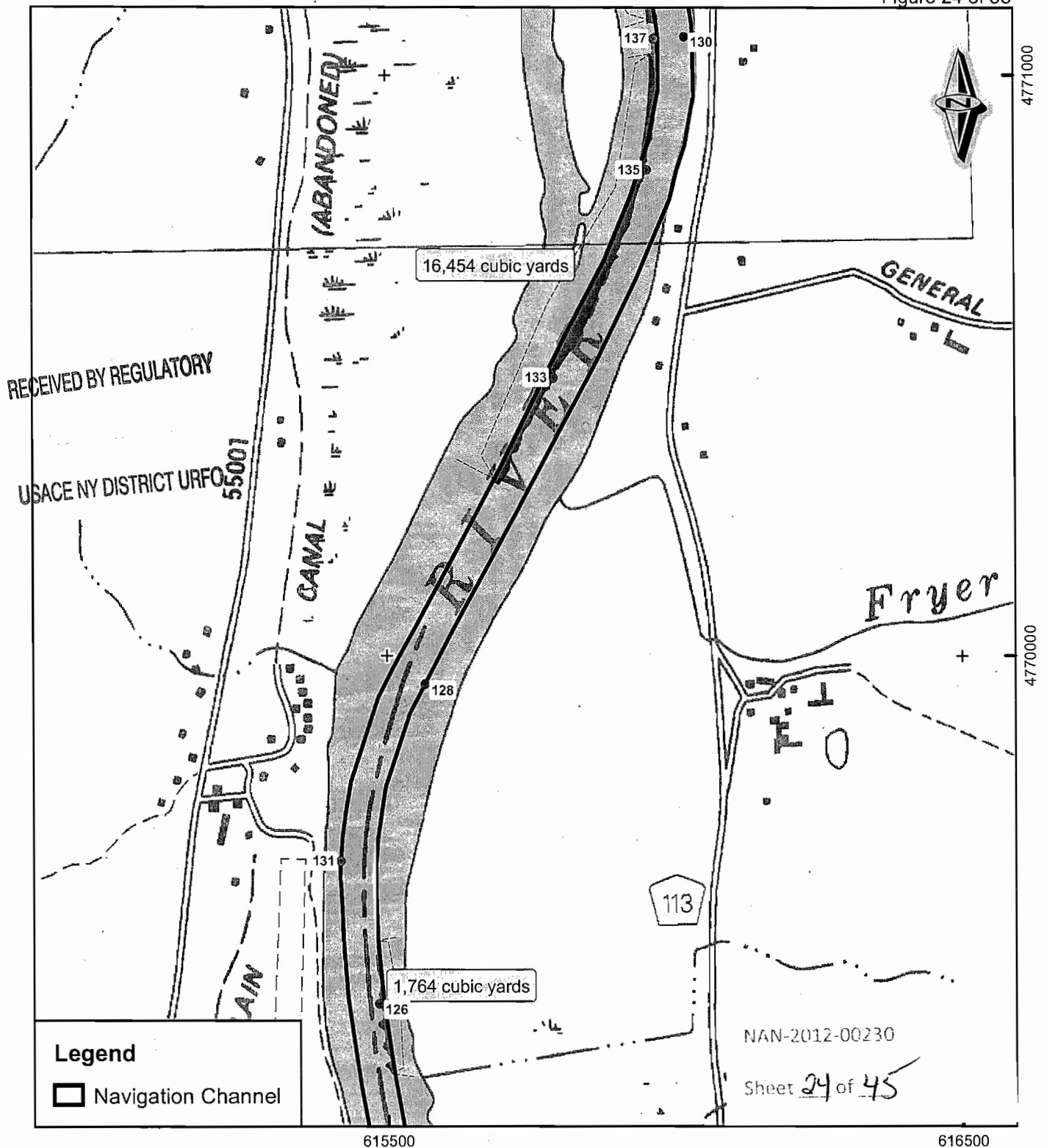
All bathymetry is based on a 2009 survey performed by the NYSCC. Volumes provided are calculated with the navigational design depth of the Champlain Canal of 12 feet plus a 2 foot overcut, for a total depth of 14 feet.

Grid: Meters, UTM, NAD83, Zone 18N  
Location: Schuylerville 7.5 min Quadrangle



\*Depths are from the published pool elevation of 83.5 ft Barge Canal Datum.  
Total Dredge Volume this sheet = 15,730 cubic yards

Estimated Navigation Dredging Needs  
after Completion of GE Project  
New York State Canal Corporation  
Albany Division, Section 1  
Lock C4 to Lock C5, Sheet 10



All bathymetry is based on a 2009 survey performed by the NYSCC. Volumes provided are calculated with the navigational design depth of the Champlain Canal of 12 feet plus a 2 foot overcut, for a total depth of 14 feet.

Grid: Meters, UTM, NAD83, Zone 18N  
Location: Schuylerville 7.5 min Quadrangle

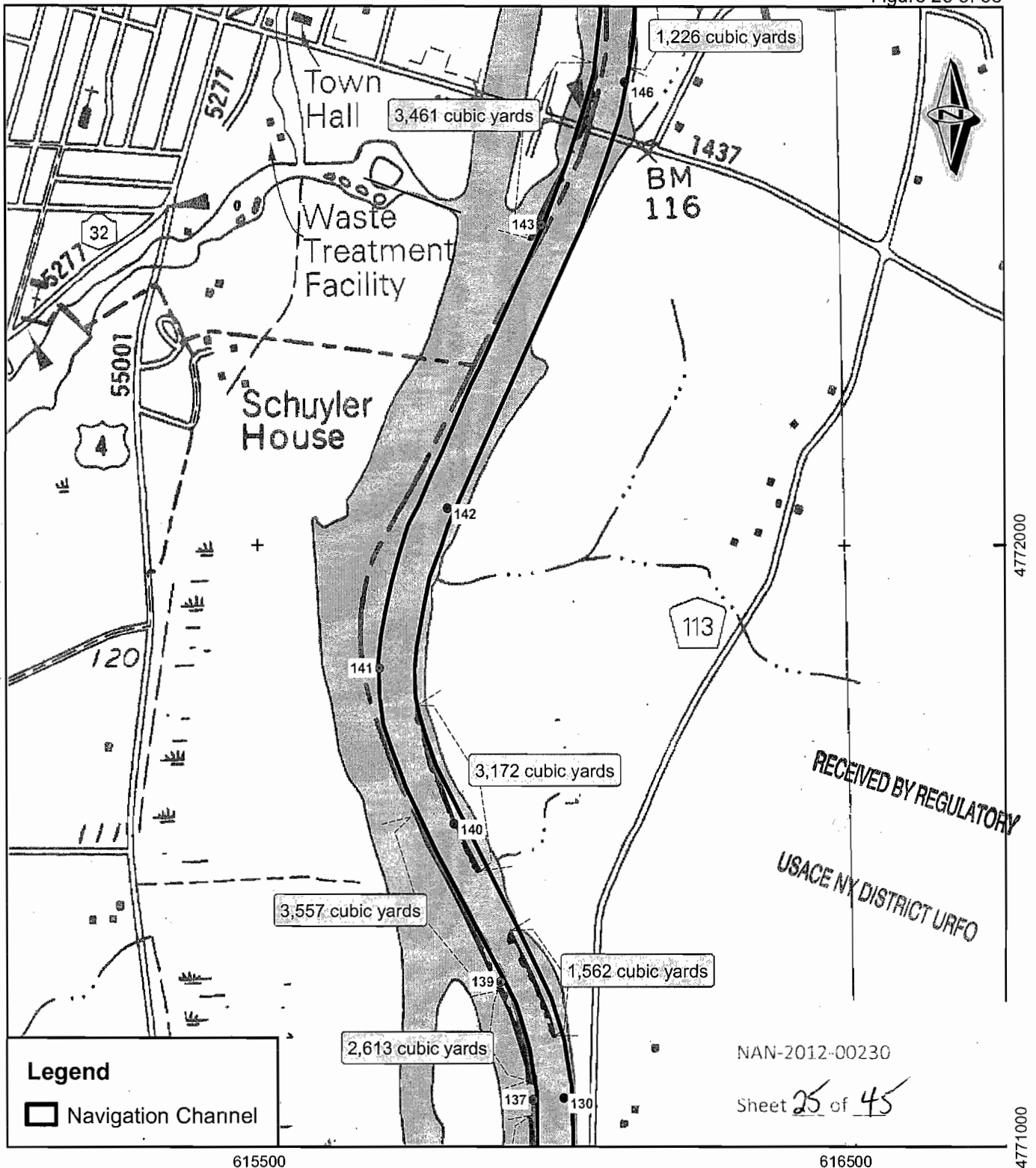
Scale  
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Feet



\*Depths are from the published pool elevation of 83.5 ft Barge Canal Datum.  
Total Dredge Volume this sheet = 18,218 cubic yards

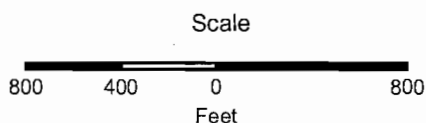
Estimated Navigation Dredging Needs  
after Completion of GE Project  
New York State Canal Corporation  
Albany Division, Section 1  
Lock C4 to Lock C5, Sheet 11





All bathymetry is based on a 2009 survey performed by the NYSCC. Volumes provided are calculated with the navigational design depth of the Champlain Canal of 12 feet plus a 2 foot overcut, for a total depth of 14 feet.

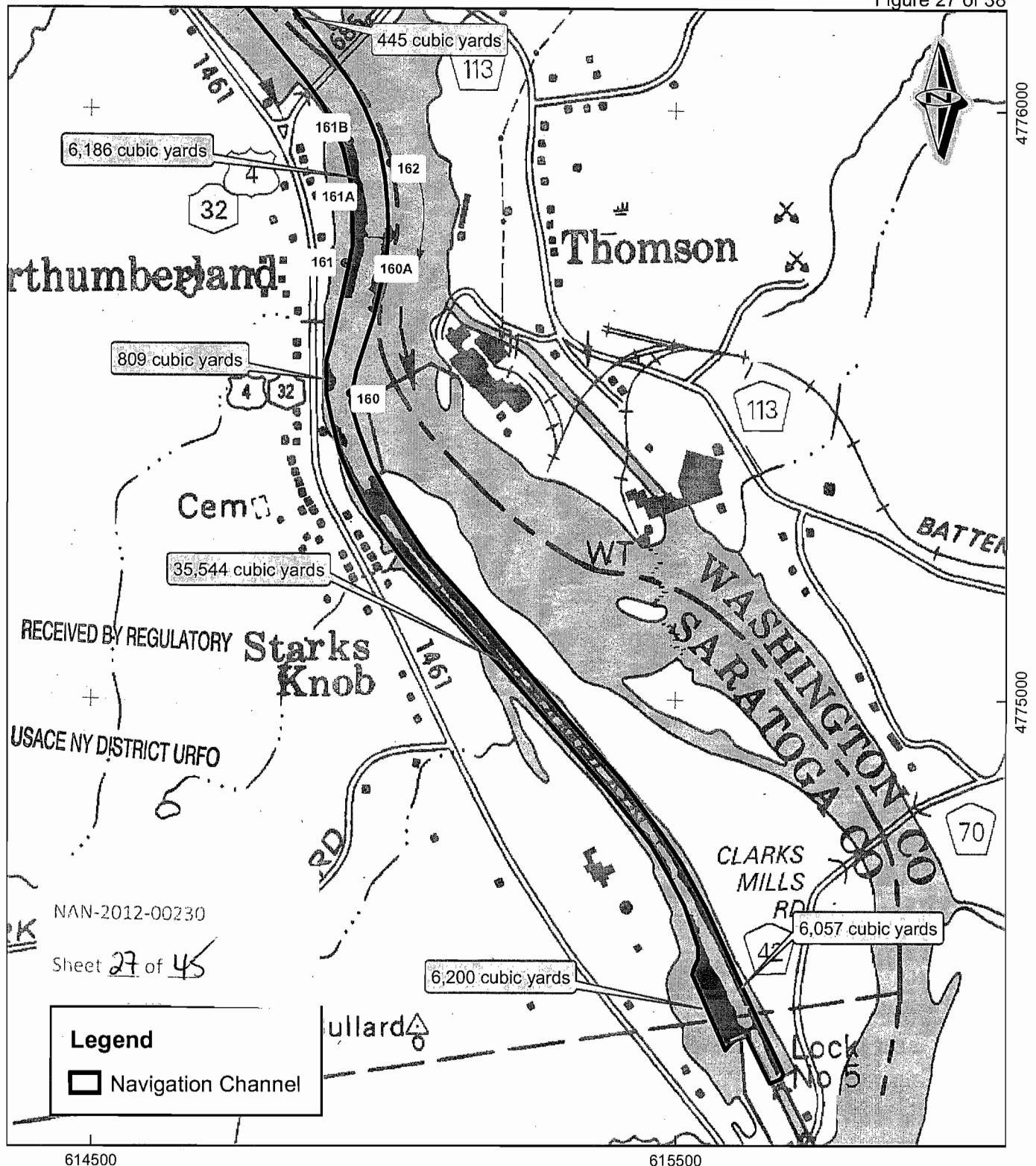
Grid: Meters, UTM, NAD83, Zone 18N  
Location: Schuylerville 7.5 min Quadrangle



\*Depths are from the published pool elevation of 83.5 ft Barge Canal Datum.  
Total Dredge Volume this sheet = 15,591 cubic yards

Estimated Navigation Dredging Needs  
after Completion of GE Project  
New York State Canal Corporation  
Albany Division, Section 1  
Lock C4 to Lock C5, Sheet 12



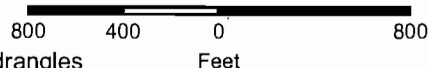


All bathymetry is based on a 2009 survey performed by the NYSCC. Volumes provided are calculated with the navigational design depth of the Champlain Canal of 12 feet plus a 2 foot overcut, for a total depth of 14 feet.

Scale

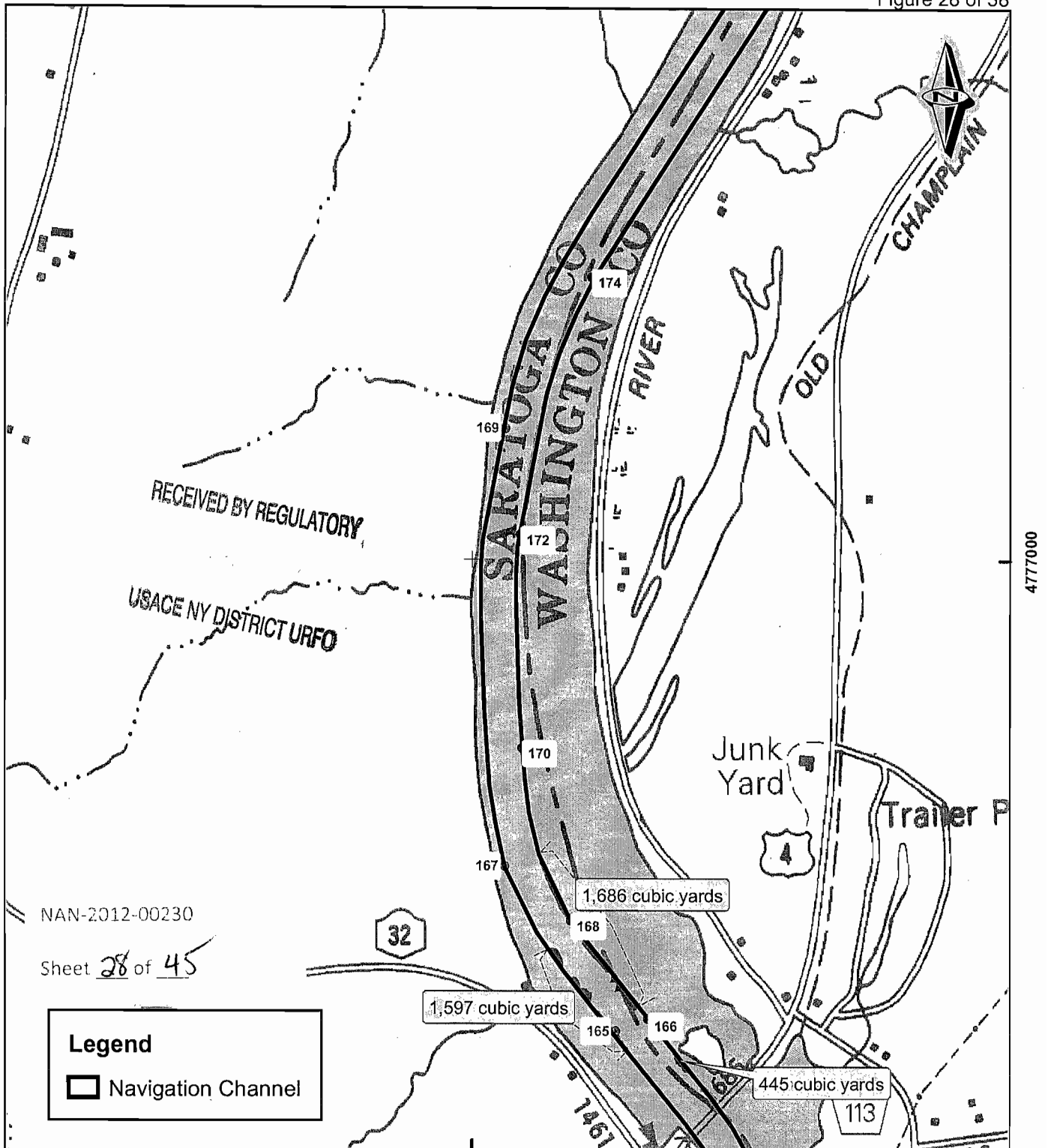
Grid: Meters, UTM, NAD83, Zone 18N

Location: Schuylerville and Fort Miller 7.5 min Quadrangles



\*Depths are from the published pool elevation of 102.5 ft Barge Canal Datum.  
Total Dredge Volume this sheet = 49,673 cubic yards

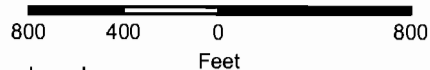
Estimated Navigation Dredging Needs  
after Completion of GE Project  
New York State Canal Corporation  
Albany Division, Section 1  
Lock C5 to Lock C6, Sheet 1



614500

All bathymetry is based on a 2009 survey performed by the NYSCC. Volumes provided are calculated with the navigational design depth of the Champlain Canal of 12 feet plus a 2 foot overcut, for a total depth of 14 feet.

Scale



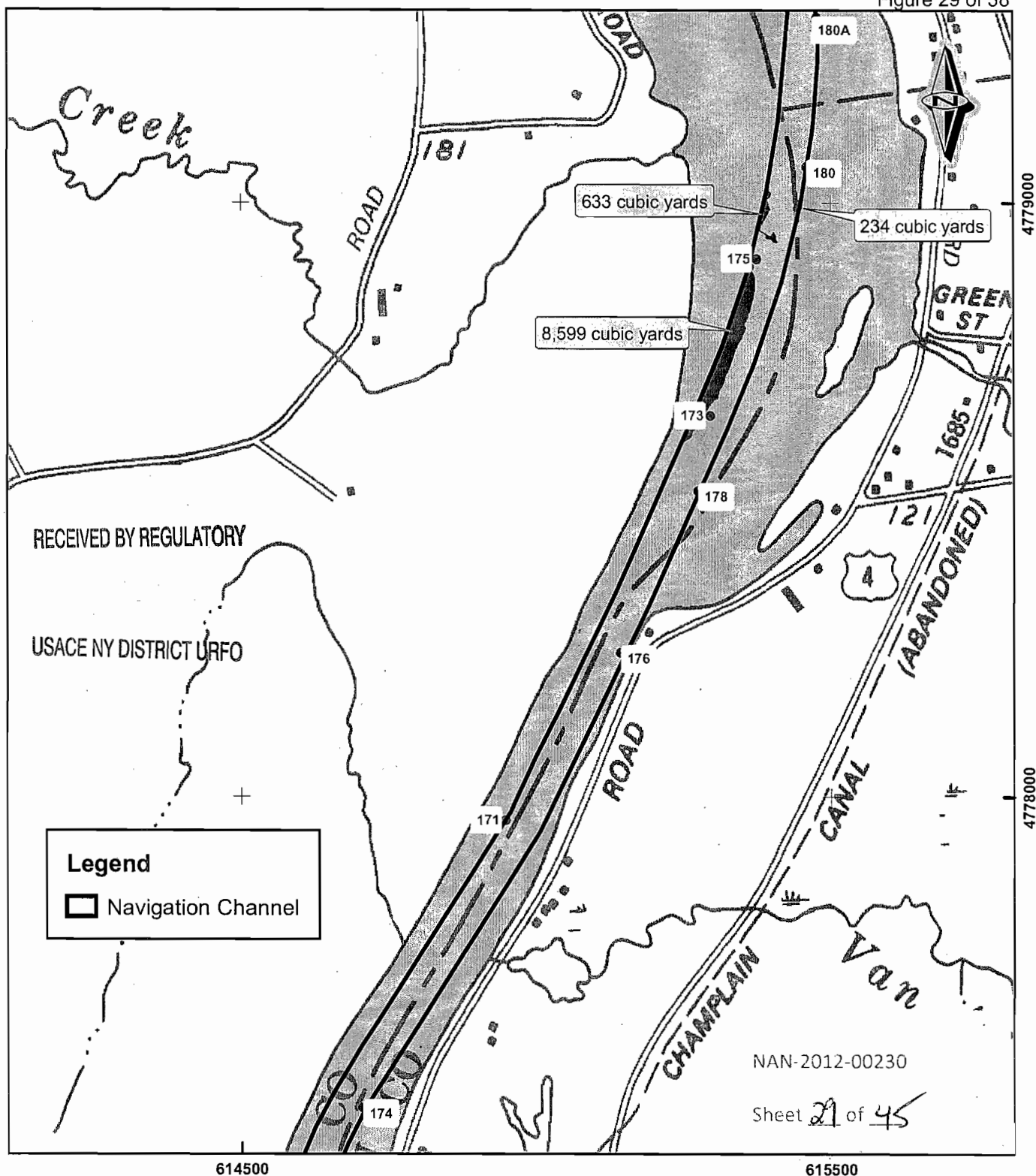
Grid: Meters, UTM, NAD83, Zone 18N

Location: Schuylerville and Fort Edward 7.5 min Quadrangles

\*Depths are from the published pool elevation of 102.5 ft Barge Canal Datum.  
Total Dredge Volume this sheet = 3 728 cubic yards

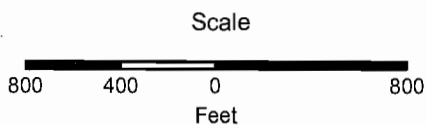


Estimated Navigation Dredging Needs  
after Completion of GE Project  
 New York State Canal Corporation  
 Albany Division, Section 1  
 Lock C5 to Lock C6, Sheet 2



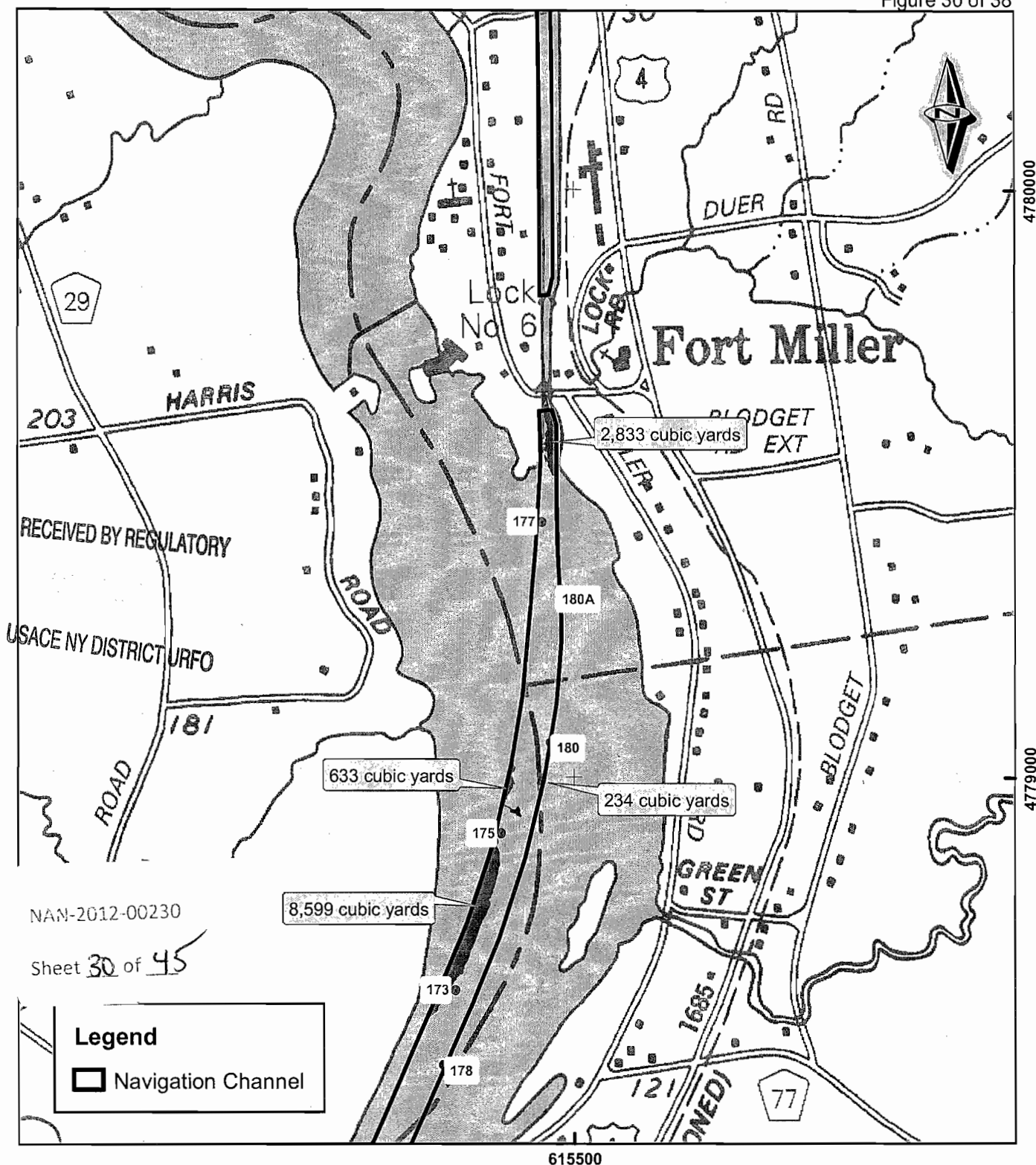
All bathymetry is based on a 2009 survey performed by the NYSCC. Volumes provided are calculated with the navigational design depth of the Champlain Canal of 12 feet plus a 2 foot overcut, for a total depth of 14 feet.

Grid: Meters, UTM, NAD83, Zone 18N  
Location: Fort Miller 7.5 min Quadrangle



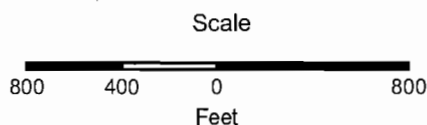
\*Depths are from the published pool elevation of 102.5 ft Barge Canal Datum.  
Total Dredge Volume this sheet = 9,466 cubic yards

Estimated Navigation Dredging Needs  
after Completion of GE Project  
New York State Canal Corporation  
Albany Division, Section 1  
Lock C5 to Lock C6, Sheet 3



All bathymetry is based on a 2009 survey performed by the NYSCC. Volumes provided are calculated with the navigational design depth of the Champlain Canal of 12 feet plus a 2 foot overcut, for a total depth of 14 feet.

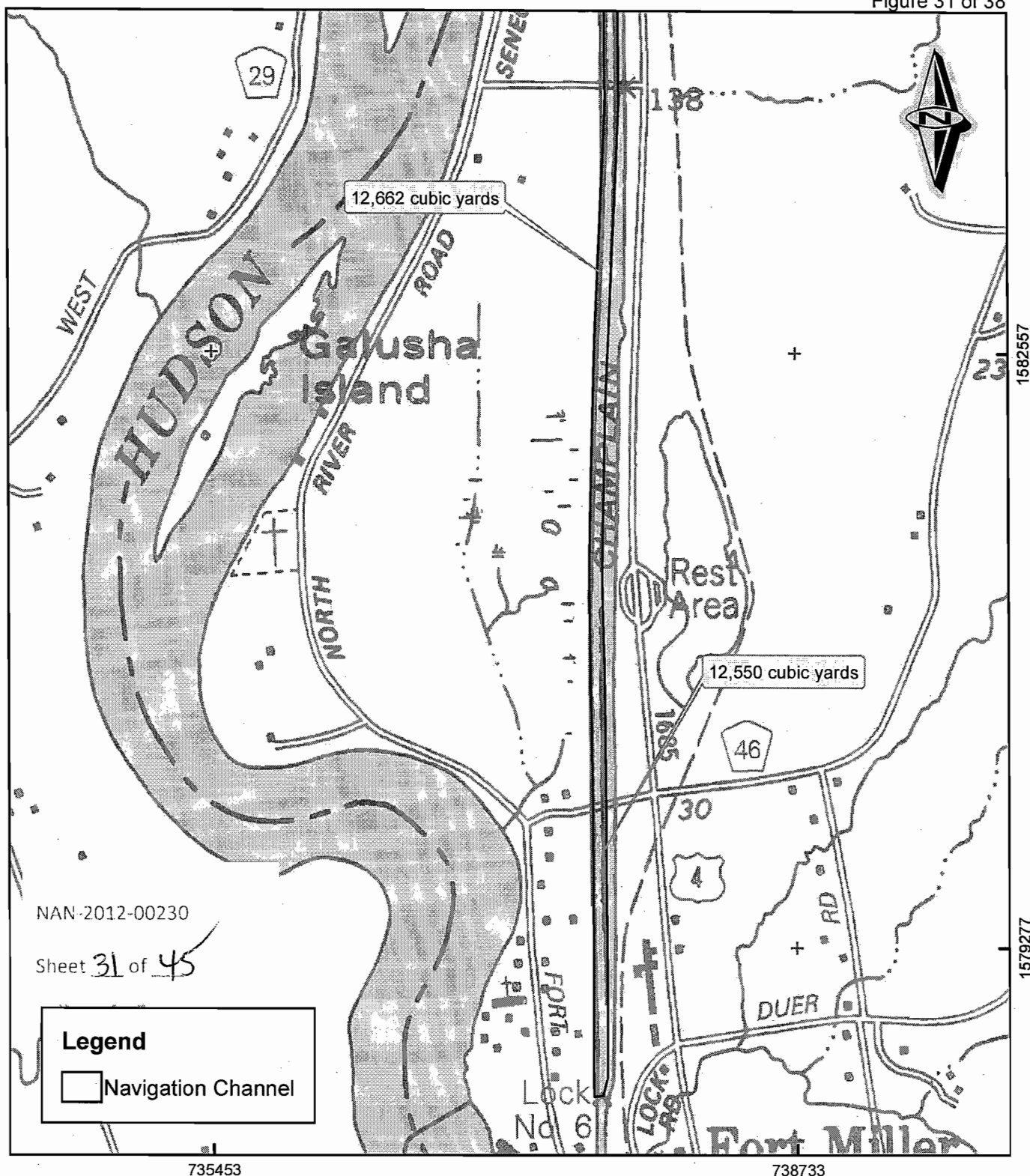
Grid: Meters, UTM, NAD83, Zone 18N  
Location: Fort Miller 7.5 min Quadrangle



\*Depths are from the published pool elevation of 102.5 ft Barge Canal Datum.  
Total Dredge Volume this sheet = 12,299 cubic yards  
Total Dredge Volume this Level = 70,823 cubic yards

Estimated Navigation Dredging Needs  
after Completion of GE Project  
New York State Canal Corporation  
Albany Division, Section 1  
Lock C5 to Lock C6, Sheet 4





All bathymetry excluding the Fort Edward Yacht Basin is based on a 2009 survey performed by the NYSCC. The Fort Edward Yacht Basin survey was performed in 2010 and 2011. Volumes provided are calculated with the navigational design depth of the Champlain Canal of 12 feet plus a 2 foot overcut, for a total depth of 14 feet.

Scale

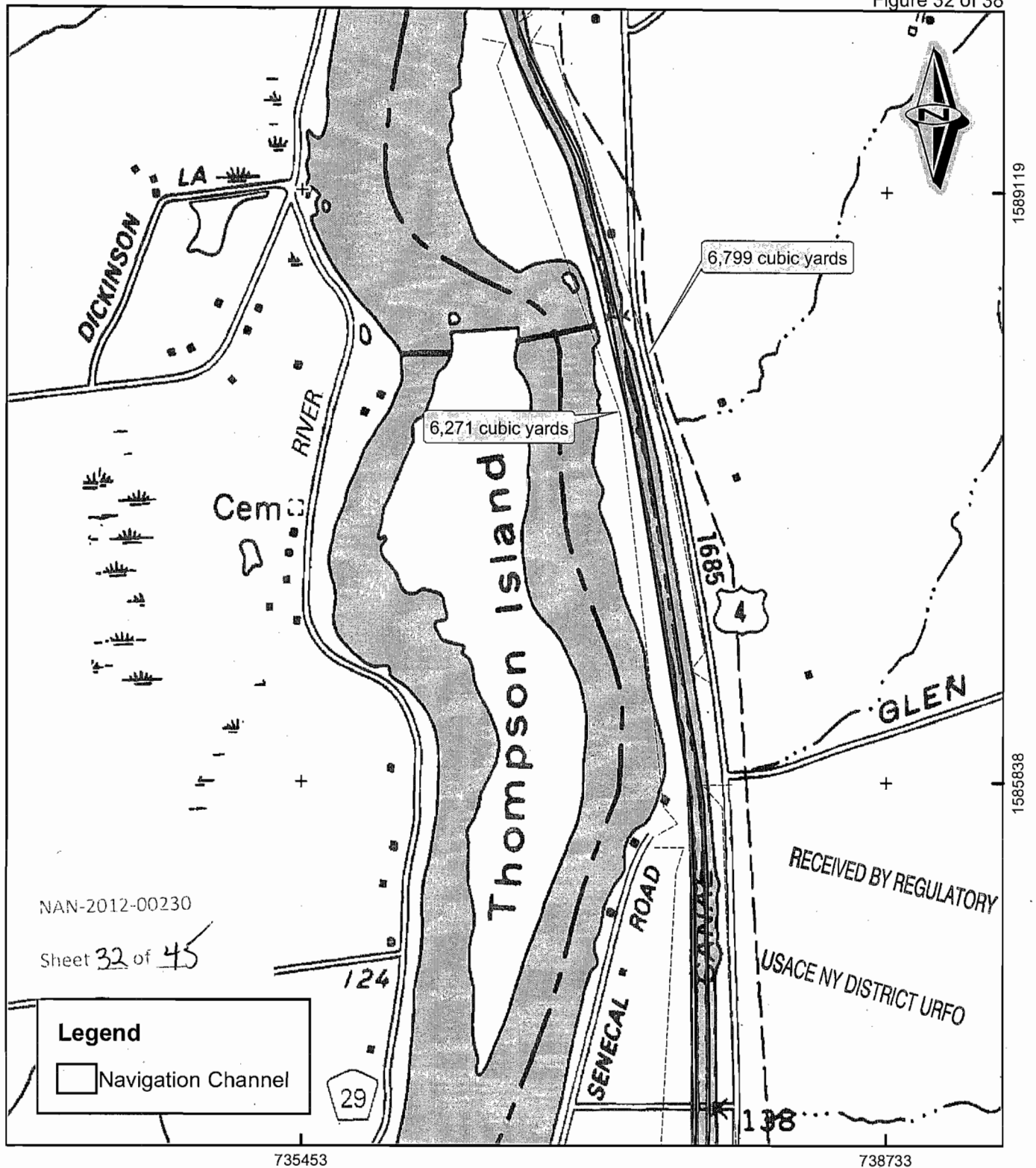
Grid: Meters, UTM, NAD83, Zone 18N  
Location: Fort Miller 7.5 min Quadrangle



Estimated Navigation Dredging Needs  
after Completion of GE Project

New York State Canal Corporation  
Albany Division, Section 1  
Lock C6 to Lock C7, Sheet 1

\*Depths are from the published pool elevation of 119.0 ft. Barge Canal Datum.  
Total Dredge Volume this sheet = 25,212 cubic yards



All bathymetry excluding the Fort Edward Yacht Basin is based on a 2009 survey performed by the NYSCC. The Fort Edward Yacht Basin survey was performed in 2010 and 2011. Volumes provided are calculated with the navigational design depth of the Champlain Canal of 12 feet plus a 2 foot overcut, for a total depth of 14 feet.

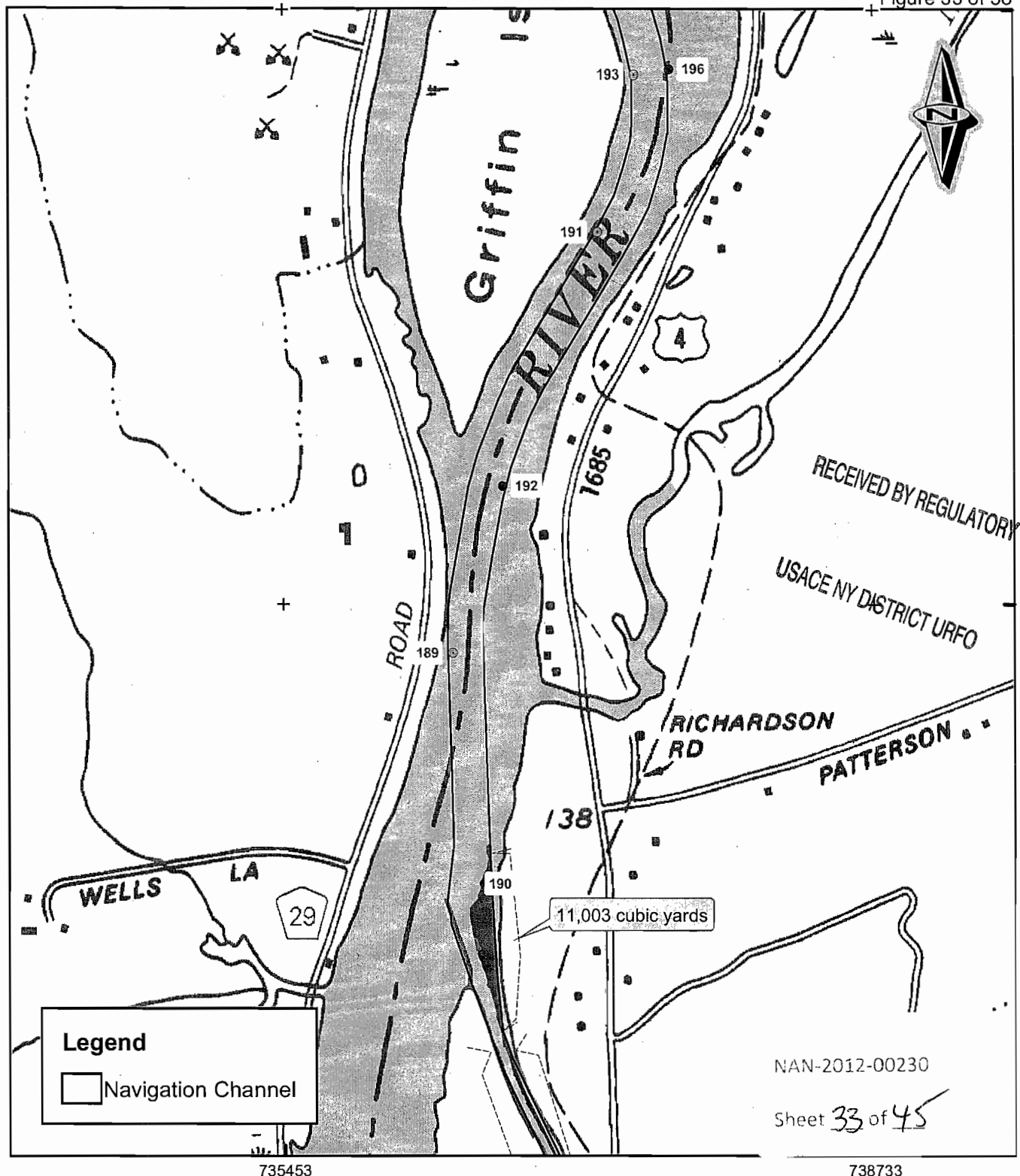
Scale

Grid: Meters, UTM, NAD83, Zone 18N  
Location: Fort Miller 7.5 min Quadrangle



**Estimated Navigation Dredging Needs**  
after Completion of GE Project  
New York State Canal Corporation  
Albany Division, Section 1  
Lock C6 to Lock C7, Sheet 2

\*Depths are from the published pool elevation of 119.0 ft. Barge Canal Datum.  
Total Dredge Volume this sheet = 13,070 cubic yards



All bathymetry excluding the Fort Edward Yacht Basin is based on a 2009 survey performed by the NYSCC. The Fort Edward Yacht Basin survey was performed in 2010 and 2011. Volumes provided are calculated with the navigational design depth of the Champlain Canal of 12 feet plus a 2 foot overcut, for a total depth of 14 feet.

Scale

Grid: Meters, UTM, NAD83, Zone 18N  
Location: Fort Miller 7.5 min Quadrangle

800 400 0 800  
Feet



Estimated Navigation Dredging Needs  
after Completion of GE Project  
New York State Canal Corporation  
Albany Division, Section 1  
Lock C6 to Lock C7, Sheet 3

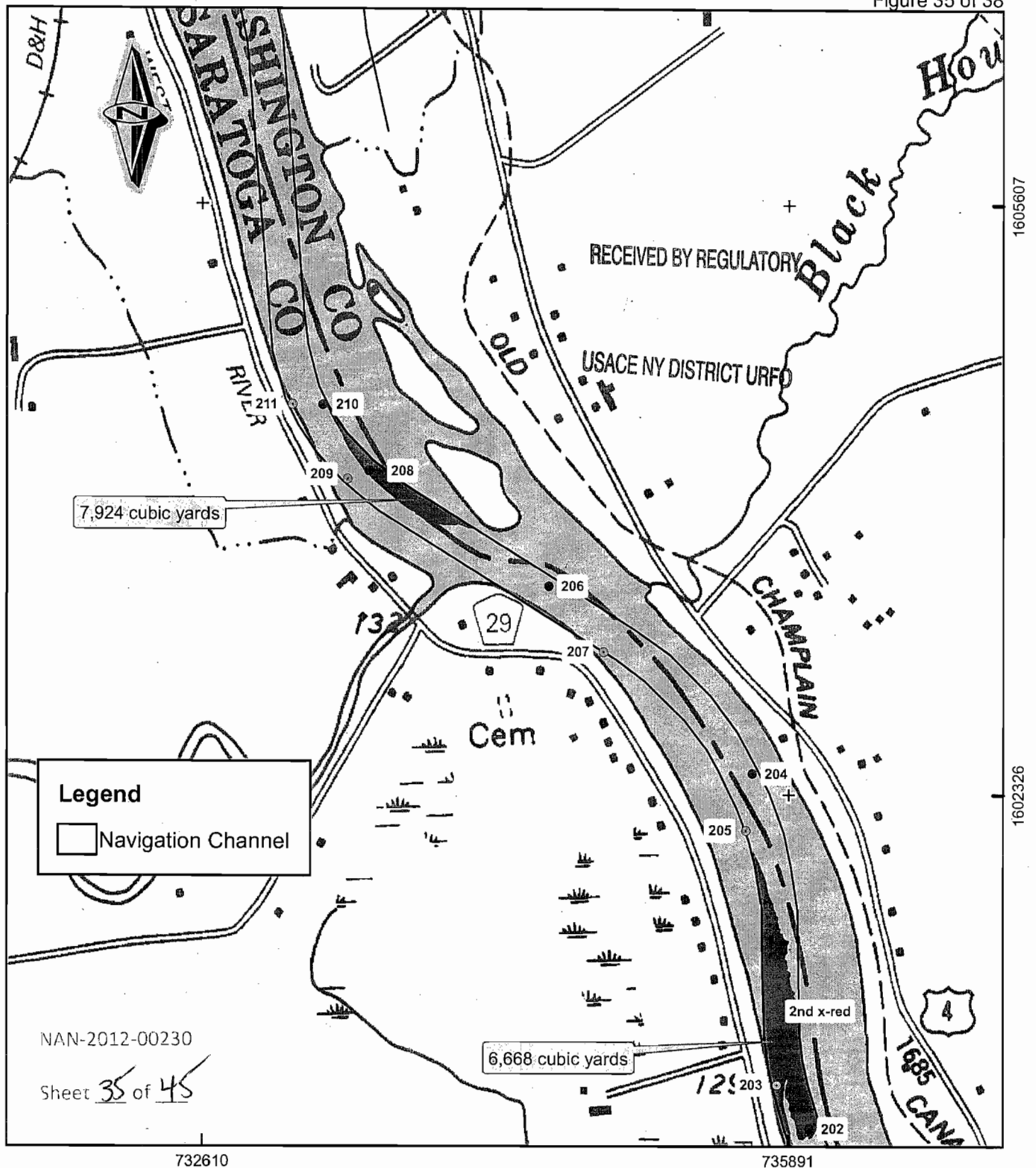
\*Depths are from the published pool elevation of 119.0 ft. Barge Canal Datum.  
Total Dredge Volume this sheet = 11,003 cubic yards

Scale

800 400 0 800  
Feet



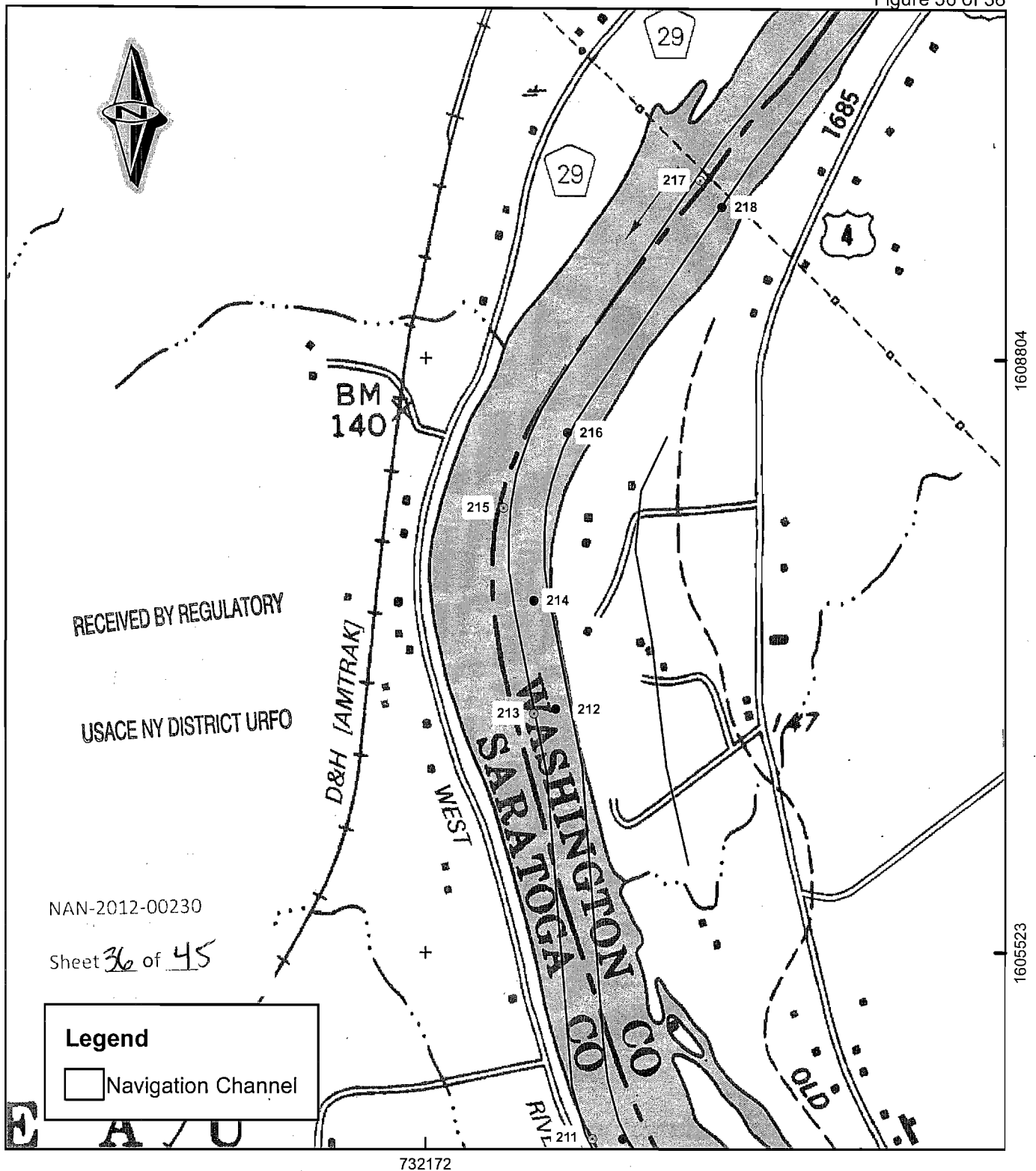
\*Depths are from the published pool elevation of 119.0 ft. Barge Canal Datum.  
Total Dredge Volume this sheet = 14,378 cubic yards



All bathymetry excluding the Fort Edward Yacht Basin is based on a 2009 survey performed by the NYSCC. The Fort Edward Yacht Basin survey was performed in 2010 and 2011. Volumes provided are calculated with the navigational design depth of the Champlain Canal of 12 feet plus a 2 foot overcut, for a total depth of 14 feet.

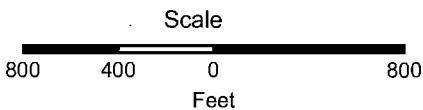
Grid: Meters, UTM, NAD83, Zone 18N  
Location: Fort Miller 7.5 min Quadrangle

\*Depths are from the published pool elevation of 119.0 ft. Barge Canal Datum.  
Total Dredge Volume this sheet = 14,592 cubic yards



All bathymetry excluding the Fort Edward Yacht Basin is based on a 2009 survey performed by the NYSCC. The Fort Edward Yacht Basin survey was performed in 2010 and 2011. Volumes provided are calculated with the navigational design depth of the Champlain Canal of 12 feet plus a 2 foot overcut, for a total depth of 14 feet.

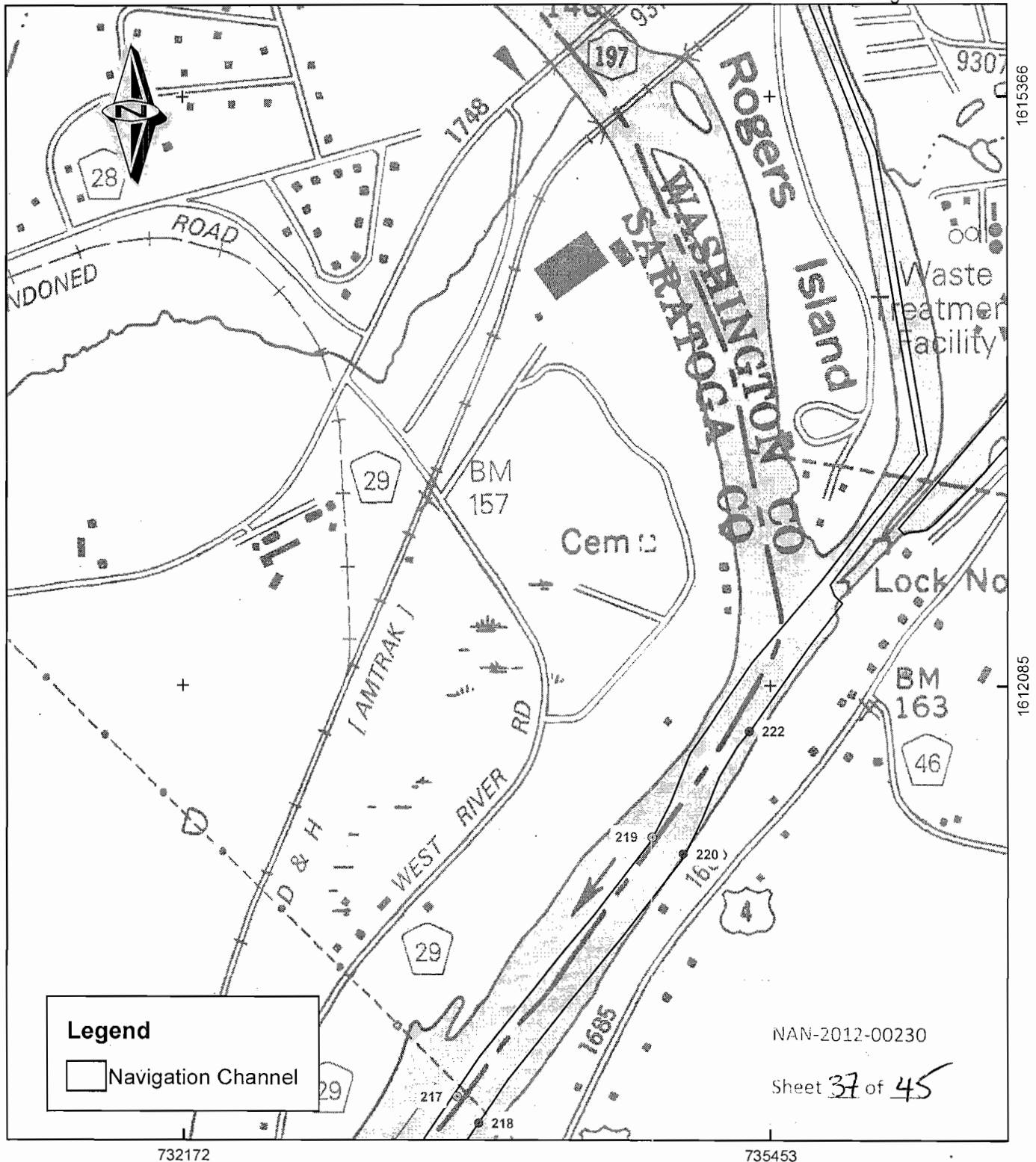
Grid: Meters, UTM, NAD83, Zone 18N  
Location: Fort Miller 7.5 min Quadrangle



Estimated Navigation Dredging Needs  
after Completion of GE Project  
New York State Canal Corporation  
Albany Division, Section 1  
Lock C6 to Lock C7, Sheet 6

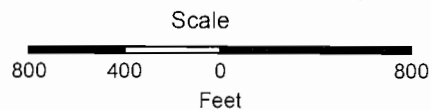
\*Depths are from the published pool elevation of 119.0 ft. Barge Canal Datum.  
Total Dredge Volume this sheet = 0 cubic yards





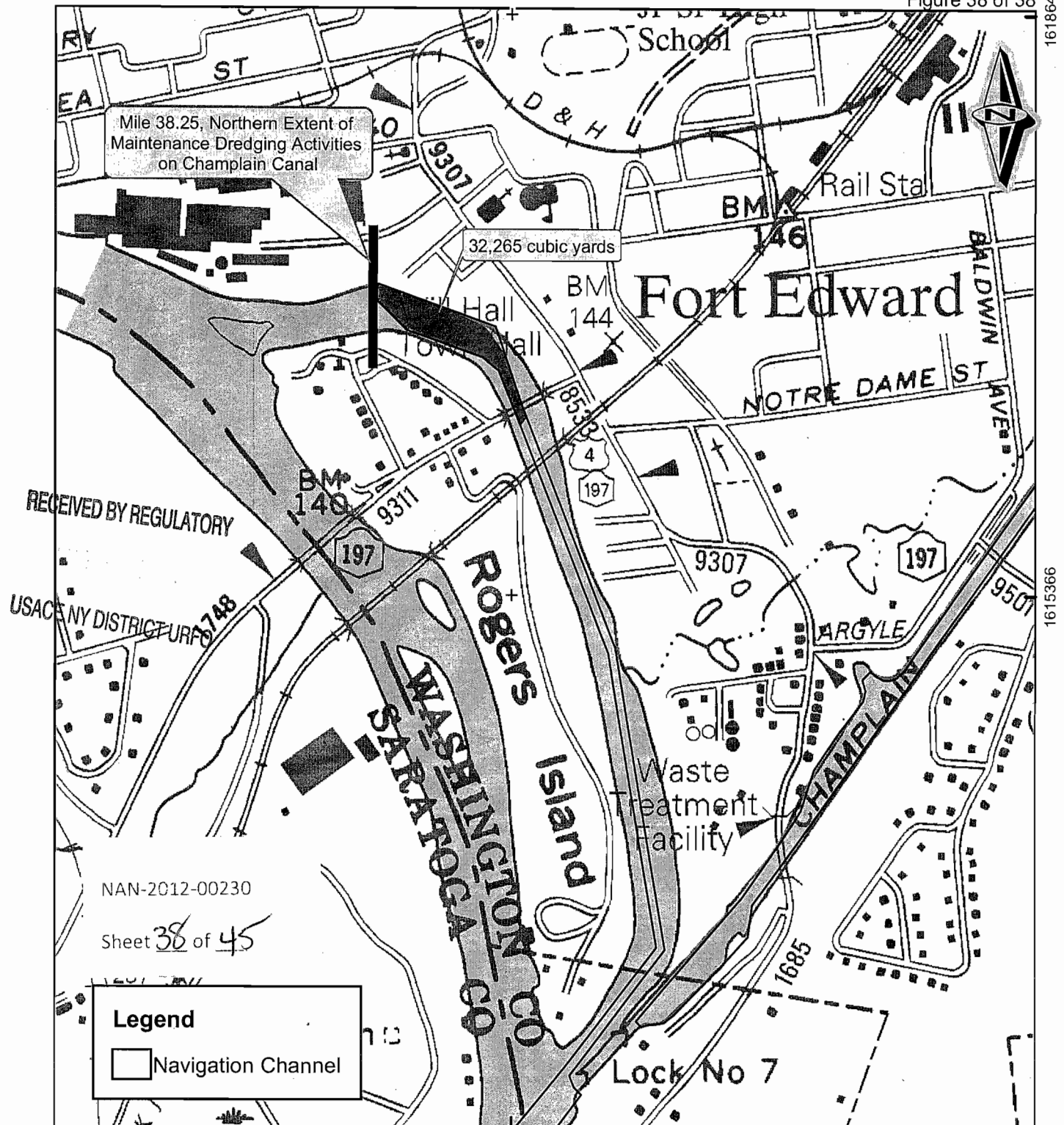
All bathymetry excluding the Fort Edward Yacht Basin is based on a 2009 survey performed by the NYSCC. The Fort Edward Yacht Basin survey was performed in 2010 and 2011. Volumes provided are calculated with the navigational design depth of the Champlain Canal of 12 feet plus a 2 foot overcut, for a total depth of 14 feet.

Grid: Meters, UTM, NAD83, Zone 18N  
Location: Fort Miller 7.5 min Quadrangle



Estimated Navigation Dredging Needs  
after Completion of GE Project  
New York State Canal Corporation  
Albany Division, Section 1  
Lock C6 to Lock C7, Sheet 7

\*Depths are from the published pool elevation of 119.0 ft. Barge Canal Datum.  
Total Dredge Volume this sheet = 0 cubic yards



735453

All bathymetry excluding the Fort Edward Yacht Basin is based on a 2009 survey performed by the NYSCC. The Fort Edward Yacht Basin survey was performed in 2010 and 2011. Volumes provided are calculated with the navigational design depth of the Champlain Canal of 12 feet plus a 2 foot overcut, for a total depth of 14 feet.

Scale



Grid: Meters, UTM, NAD83, Zone 18N  
Location: Fort Miller 7.5 min Quadrangle



**Estimated Navigation Dredging Needs**  
after Completion of GE Project  
New York State Canal Corporation  
Albany Division, Section 1  
Lock C6 to Lock C7, Sheet 8

\*Depths are from the published pool elevation of 119.0 ft. Barge Canal Datum.  
Total Dredge Volume this sheet = 32,265 cubic yards  
Total Dredge Volume this Level = 103,852 cubic yards

Dredge Site # Mile Point Town/County	Dredging Volume (C.Y.)	Dredging Surface Area (sf)	Dredging Length <sup>1</sup> (lf)	Dredging Width <sup>2</sup> (lf)
N/A 0.25-1.0 Waterford/Saratoga				
- West of Bouy G1	1,873	15,353	318	48
- Below Bouys G1 and R2	4,464	46,471	573	81
- Below Bridge C-2	2,595	29,976	838	36
- At Bridge C-2	315	2,743	177	15
- At Bouy G5	508	3,685	177	21
- Below Bouy R4A	846	6,280	375	17
<b>TOTAL</b>	<b>10,601</b>			
N/A 1.0-2.0 Melrose/Rensselaer				
- Bouys R4A to R6	4,620	47,453	1,286	37
- East of Bouy G13	457	3,332	124	27
Waterford/Saratoga				
- Bouys G5A to G7	1,071	9,184	767	12
- Bouys G7 to G9	3,261	21,353	1,162	18
- Bouys R10 to G13	11,443	94,844	1,745	54
<b>TOTAL</b>	<b>20,852</b>			
N/A 2.0-2.5 Melrose/Rensselaer				
- At Bouy R16	4,063	24,967	1,449	17
Waterford/Saratoga				
- At Bouy G15	660	7,925	482	16
- Bouys G17 to R20	5,162	59,179	1,897	31
<b>TOTAL</b>	<b>9,885</b>			
1-1-1 2.5-2.8 Melrose/Rensselaer				
- At Bouy R20	2,022	13,806	573	24
<b>TOTAL</b>	<b>2,022</b>			
1-2-1 & A 2.5-3.3 Waterford and Halfmoon/Saratoga				
- At Bouy R22	22,082	174,290	1,894	92
- Below Lock C1	331	2,535	114	22
- Immediately Below Lock C1	5,807	50,569	826	61
<b>TOTAL</b>	<b>28,220</b>			
1-3-B 3.4-3.5 Halfmoon/Saratoga				
- Above Lock C1	7,678	58,223	1,470	40
<b>TOTAL</b>	<b>7,678</b>			

## Notes:

1. Dredging Length is measured along the flow axis of the Hudson River flow, at the longest point of the proposed dredging area.
2. Dredging Width is measured perpendicular to the flow axis of the Hudson River, at the widest point of the proposed dredging area.



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July xx, 2012

Table 5

Dredge Location Surface Areas and Linear Extents

NYSCC Joint Application for Regional Maintenance Dredging Champlain Canal

Dredge Site # Mile Point Town/County	Dredging Volume (C.Y.)	Dredging Surface Area (sf)	Dredging Length <sup>1</sup> (lf)	Dredging Width <sup>2</sup> (lf)
N/A 3.75-4.1 Halfmoon/Saratoga - Buoys R28 to R30 TOTAL	5,636 5,636	45,557	1,602	28
N/A 4.5 Schaghticoke/Rensselaer - East of Buoy G33 TOTAL	1,272 1,272	12,370	673	18
N/A 5-5.5 Schaghticoke/Rensselaer - Below Buoy G35 - East of Buoy G35 TOTAL	167 1,190 1,357	1,839 12,214	112 712	16 17
N/A 5.5-6.25 Halfmoon/Saratoga - Above Buoy R36 - Below Buoy G37 - At Buoy G37 - Below Buoy R38 - Below Buoy G37B - Above Buoy R40A - Above Buoy R42 - East of Buoy R42 TOTAL	128 202 605 1,428 1,010 639 274 310 4,596	1,169 2,539 6,671 11,770 8,770 6,224 3,328 3,564	80 156 377 803 555 423 293 224	15 16 18 15 16 15 11 16
N/A 6.4-7 Schaghticoke/Rensselaer - Below Buoy R42A - Immediately Below Buoy R42A - Above Buoy G39 - At Buoy G41 - At Buoy G43 - At Buoy R42B TOTAL	543 258 2,100 2,226 1,360 2,340 8,827	6,121 3,204 21,057 20,435 14,603 18,611	449 407 648 955 1,062 891	14 8 32 21 14 21
N/A 7-7.25 Halfmoon/Saratoga - Below Lock C2 TOTAL	12,071 12,071	103,204	1,380	75

## Notes:

1. Dredging Length is measured along the flow axis of the Hudson River flow, at the longest point of the proposed dredging area.
2. Dredging Width is measured perpendicular to the flow axis of the Hudson River, at the widest point of the proposed dredging area.

NAN-2012-00230

Sheet 40 of 45



July xx, 2012

Table 5  
Dredge Location Surface Areas and Linear Extents  
NYSCC Joint Application for Regional Maintenance Dredging Champlain Canal

Dredge Site # Mile Point Town/County	Dredging Volume (C.Y.)	Dredging Surface Area (sf)	Dredging Length <sup>1</sup> (lf)	Dredging Width <sup>2</sup> (lf)
1-4-D 7.6-9.6 7.6 - 8.25: Halfmoon/Saratoga				
- Above Lock C2	6,830	62,654	823	76
- Buoys R48 to R52A	9,389	72,293	1,968	37
- Below Buoy R56	368	4,162	229	18
- At Buoy G51A	3,291	29,014	1,361	21
8.5 - 9.4: Schaghticoke/Rensselaer				
- At Buoy G59	9,665	79,409	1,655	48
- At Buoy G61	2,511	21,561	985	22
- Below Buoy R62	293	3,088	176	18
- Below Buoy G61A	1,389	12,210	555	22
- Above Buoy G61A	379	3,101	171	18
- At Buoy R62	437	5,376	302	18
- Above Buoy R62	460	5,433	323	17
9.4: Mechanicville/Saratoga				
- Mechanicville Wall	749	3,532	66	54
<b>TOTAL</b>	<b>35,761</b>			
N/A 9.8 Schaghticoke/Rensselaer				
- Below Lock C3	9,455	52,851	803	66
<b>TOTAL</b>	<b>9,455</b>			
1-5-3 9.9-10.3 Schaghticoke/Rensselaer				
- Above Lock C3	3,856	25,490	561	45
- Between Buoys G71 and R68	15,152	165,572	1,117	148
<b>TOTAL</b>	<b>19,008</b>			
N/A 10.6-11.1 Schaghticoke/Rensselaer				
- Bridge C-5 to Buoys G75/R72A	80,982	66,674	2,690	25
<b>TOTAL</b>	<b>80,982</b>			
1-6-4&E 11.1-11.7 Schaghticoke/Rensselaer	TO BE COVERED UNDER A SEPARATE USACOE PERMIT			
N/A 11.8-12.5 Schaghticoke/Rensselaer				
- Above Lock 4	2,632	18,524	411	45
- Above Bridge C-6	12,786	79,603	1,046	76
- Below Buoy G81	1,620	18,454	634	29
<b>TOTAL</b>	<b>17,038</b>			

## Notes:

1. Dredging Length is measured along the flow axis of the Hudson River flow, at the longest point of the proposed dredging area.
2. Dredging Width is measured perpendicular to the flow axis of the Hudson River, at the widest point of the proposed dredging area.

NAN-2012-00230



Sheet 41 of 45

Table 5  
Dredge Location Surface Areas and Linear Extents  
NYSCC Joint Application for Regional Maintenance Dredging Champlain Canal

Dredge Site # Mile Point Town/County	Dredging Volume (C.Y.)	Dredging Surface Area (sf)	Dredging Length <sup>1</sup> (lf)	Dredging Width <sup>2</sup> (lf)
N/A 13.9 Stillwater/Saratoga - Below Buoy R88 TOTAL	   6,546 6,546	   76,800	   707	   109
N/A 14.9 Easton/Washington - Below Buoy G91A TOTAL	   7,452 7,452	   57,935	   1,190	   49
N/A 15.5-15.75 Stillwater/Saratoga - Between Buoy G93 and G95/R92 TOTAL	   25,904 25,904	   271,881	   2,001	   136
N/A 16.3-16.5 Stillwater/Saratoga - Between Buoy G97 and G99 TOTAL	   4,727 4,727	   46,777	   891	   52
N/A 18.9-19.0 Easton/Washington - At Buoy R106 TOTAL	   4,720 4,720	   54,437	   653	   83
N/A 19.1 Saratoga/Saratoga - Below Buoy G109 TOTAL	   1,005 1,005	   11,947	   529	   23
N/A 19.6-20.1 Easton/Washington - Above Buoy R108 - Below Buoy R110 - Above Buoy R110 TOTAL	   811 5,485 2,315 8,611	   6,573 56,855 21,907	   206 1,095 754	   32 52 29
N/A 20.5-20.6 Saratoga/Saratoga - Between Buoys R112 and G115 TOTAL	   12,508 12,508	   113,808	   1,346	   85

## Notes:

1. Dredging Length is measured along the flow axis of the Hudson River flow, at the longest point of the proposed dredging area.
2. Dredging Width is measured perpendicular to the flow axis of the Hudson River, at the widest point of the proposed dredging area.

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Table 5  
Dredge Location Surface Areas and Linear Extents  
NYSCC Joint Application for Regional Maintenance Dredging Champlain Canal



Dredge Site # Mile Point Town/County	Dredging Volume (C.Y.)	Dredging Surface Area (sf)	Dredging Length <sup>1</sup> (lf)	Dredging Width <sup>2</sup> (lf)
N/A 20.9-21.1 Easton/Washington - At Buoy R116 TOTAL	   4,153 4,153	   41,477	   1,462	   28
N/A 21.5 Saratoga/Saratoga - Above Buoy G121 TOTAL	   944 944	   9,617	   421	   23
N/A 22.1-23 Easton/Washington - Between Bouys R122 and R124 - Above Buoy R124 - At R126 TOTAL	   12,019 1,947 1,764 15,730	   104,362 22,377 17,988	   2,561 890 771	   41 25 23
N/A 23.6-24.4 Easton/Washington - Between Bouys G133 to G137 - Between Bouys G137 to G139 - Above Buoy G139 - Above Buoy R130 - At Buoy R140 TOTAL	   16,454 2,613 3,557 1,562 3,172 27,358	   128,804 23,958 25,715 17,456 26,999	   2,634 587 983 653 1,000	   49 41 26 27 27
1-7-G&H 25.2-26.2 25.2 - 25.3: Schuylerville/Saratoga - Above Buoy G143 25.3-26.1: Easton/Washington - Above Buoy R146 - Below Buoy R148 - At Buoy G147 - Below Buoy R148A - Below Buoy R150 26-26.2: Saratoga/Saratoga - At Buoy R149 - Below Lock C5 TOTAL	   3,461  1,226 3,082 2,783 942 1,917  736 3,380 17,527	   31,665  8,205 24,375 32,594 4,895 18,064  6,526 25,950	   1,048  484 1,298 942 738 433  546 545	   30  17 19 35 7 42  12 48

## Notes:

1. Dredging Length is measured along the flow axis of the Hudson River flow, at the longest point of the proposed dredging area.
2. Dredging Width is measured perpendicular to the flow axis of the Hudson River, at the widest point of the proposed dredging area.

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Table 5  
Dredge Location Surface Areas and Linear Extents  
NYSCC Joint Application for Regional Maintenance Dredging Champlain Canal

Dredge Site # Mile Point Town/County	Dredging Volume (C.Y.)	Dredging Surface Area (sf)	Dredging Length <sup>1</sup> (lf)	Dredging Width <sup>2</sup> (lf)
1-8-I&J 26.2-27.7 Northumberland/Saratoga				
- Basin Above Lock C5	6,200	72,685	790	92
- East Side of Landcut Above Lock C5	6,057	36,346	1,048	35
- West Side of Landcut Above Lock C5	35,544	248,421	3,366	74
- West of Buoy R160	809	6,035	225	27
- Between Buoys G161 and G161B	6,186	86,078	1,269	68
- Below Buoy R166	445	3,523	177	20
- Above Buoy G165	1,597	13,539	729	19
- At Buoy R168	1,686	24,121	1,012	24
<b>TOTAL</b>	<b>58,524</b>			
N/A 29.1-29.25 Northumberland/Saratoga				
- Between Buoys G173 and G175	8,599	69,133	1,069	65
- Above Buoy G175	633	6,887	264	26
Greenwich/Washington				
- Below Buoy R180	234	2,204	78	28
<b>TOTAL</b>	<b>9,466</b>			
N/A 29.75 Fort Miller/Washington				
- Below Lock C6	2,833	22,775	516	44
<b>TOTAL</b>	<b>2,833</b>			
N/A 29.9-32.4 Fort Miller/Washington				
- East Side of Landcut Immediately Above Lock C6	12,550	106,446	5,983	18
- West Side of Landcut Immediately Above Lock C6	12,662	97,507	5,374	18
- West Side of Landcut Above Lock C6	6,271	66,757	4,826	14
- East Side of Landcut Above Lock C6	6,799	63,385	3,531	18
- Below Buoy R190	11,003	66,708	1,033	65
<b>TOTAL</b>	<b>49,285</b>			
N/A 33.5-35.4 Northumberland/Saratoga				
- Between Buoys G195 and G197	3,449	42,363	1,523	28
- Between Buoys G197 and R200	4,261	47,119	913	52
- Between Buoys R202 to G205	6,668	276,908	2,345	118
<b>TOTAL</b>	<b>14,378</b>			

## Notes:

1. Dredging Length is measured along the flow axis of the Hudson River flow, at the longest point of the proposed dredging area.
2. Dredging Width is measured perpendicular to the flow axis of the Hudson River, at the widest point of the proposed dredging area.

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Table 5  
Dredge Location Surface Areas and Linear Extents  
NYSCC Joint Application for Regional Maintenance Dredging Champlain Canal

Dredge Site # Mile Point Town/County	Dredging Volume (C.Y.)	Dredging Surface Area (sf)	Dredging Length <sup>1</sup> (lf)	Dredging Width <sup>2</sup> (lf)
1-9-M&L 35.1-35.4 Edward/Washington - Below Buoy R210 TOTAL	7,924 7,924	69,192	1,132	61
1-11-N 37.75-38.25 Fort Edward/Washington - Fort Edward Yacht Basin TOTAL	32,265 32,265	15,556	1,178	13
PROJECT GRAND TOTALS	Project Grand Total Dredge Volume (C.Y.)		Project Grand Total Dredge Length (lf)	
	587,121		109,674	

## Notes:

1. Dredging Length is measured along the flow axis of the Hudson River flow, at the longest point of the proposed dredging area.
2. Dredging Width is measured perpendicular to the flow axis of the Hudson River, at the widest point of the proposed dredging area.

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Table 5  
Dredge Location Surface Areas and Linear Extents  
NYSCC Joint Application for Regional Maintenance Dredging Champlain Canal