

2-840.4-RMP	Highbridge	MN/Ramsey/St. Paul	City of St. Paul			
Site Identification	Site Name	State/County/Municipality	Landowner			
Background: This site was selected by GREAT I (Site No. 2.16, Reference GREAT I Vol 8-Part II). There was no RRF endorsement prior to the CMMP. GREAT selected 3.4 acres at this site for permanent placement of material from Cut 8, which the Corps determined is justified. The acres were rounded to 4. New Highbridge piers were designed to minimize the shoaling of sediments which has reduced the dredging frequency of cuts 8 & 9. The St. Paul Park & Rec. Dept. administers this site for the city of St. Paul. The city of St. Paul is the local sponsor for dredging the St. Paul Small Boat Harbor and they have provided this site for that material.						
Site Characteristics: Previously filled wetland with some sparse trees and grasses. This upland site is within the floodplain and out of the floodway. A stockpile exists at the site and adjacent land uses include a barge repair facility, city small boat harbor, and county road.						
Site Dimensions: Area = 4 acres. The area is 425 feet by 350 feet. Pre-Fill Elevation = 688.0. Fill Elevation - 713.0. LCP Elevation = 687.2. Estimated Capacity = 100,000 cubic yards.						
Beneficial Use: A stockpile does exist and access is excellent. However, the St. Paul Parks Dept. manages the site and any removal must be done with their consent. It is anticipated that all material placed at this site will be removed for beneficial use.						
Equipment Requirments/Limitations: Unknown.						
Special Conditions/Restrictions: In addition to using this site for Cut 8 as recommended, it will be used for Cut 9 in lieu of site 2.37, Cut 10 (if necessary) in lieu of site 2.18, and MN River cut 1 in lieu of site 2.18.						
Future Plans: Continue to promote beneficial use removal and coordinate placement with the Park and Recreation Department. If this site is unavailable in the future, GREAT sites 2.37 (2-841.3-LMP) and 2.18 (2-843.3-RMP) will be reconsidered.						
Permits/Approval Checklists: <input checked="" type="checkbox"/> Cultural Resources <input checked="" type="checkbox"/> Endangered Species <input checked="" type="checkbox"/> Floodplain Impact Analysis <input checked="" type="checkbox"/> NEPA <input type="checkbox"/> Real Estate <input checked="" type="checkbox"/> State <input type="checkbox"/> 404(b)(1) Evaluatoin Other:		Remarks: No action required None found at this site No further analysis necessary Covered by the GREAT and O&M, EIS Permit from St.. Paul Park & Rec. Dept. General permit with MDNR and MPCA Long-term 404(b)(1) proposed				
Potential Dredge Cuts:		Dredge	Pipeline Distance			
Name	Mile	Type	Water			
Land	Total	Lift				
Mouth of the MN River	0.0-0.5	M	20000	20-300	20020-20300	1-26
Abv. & Blw. Smith Ave. Br.	840.0-841.3	M,H	600	20-300	620-900	1-26
St. Paul SBH	839.6	M	4800	20-300	4820-5100	1-26



SHEPARD ROAD

MISSISSIPPI RIVER

FLOW →

SMITH AVENUE HIGHBRIDGE

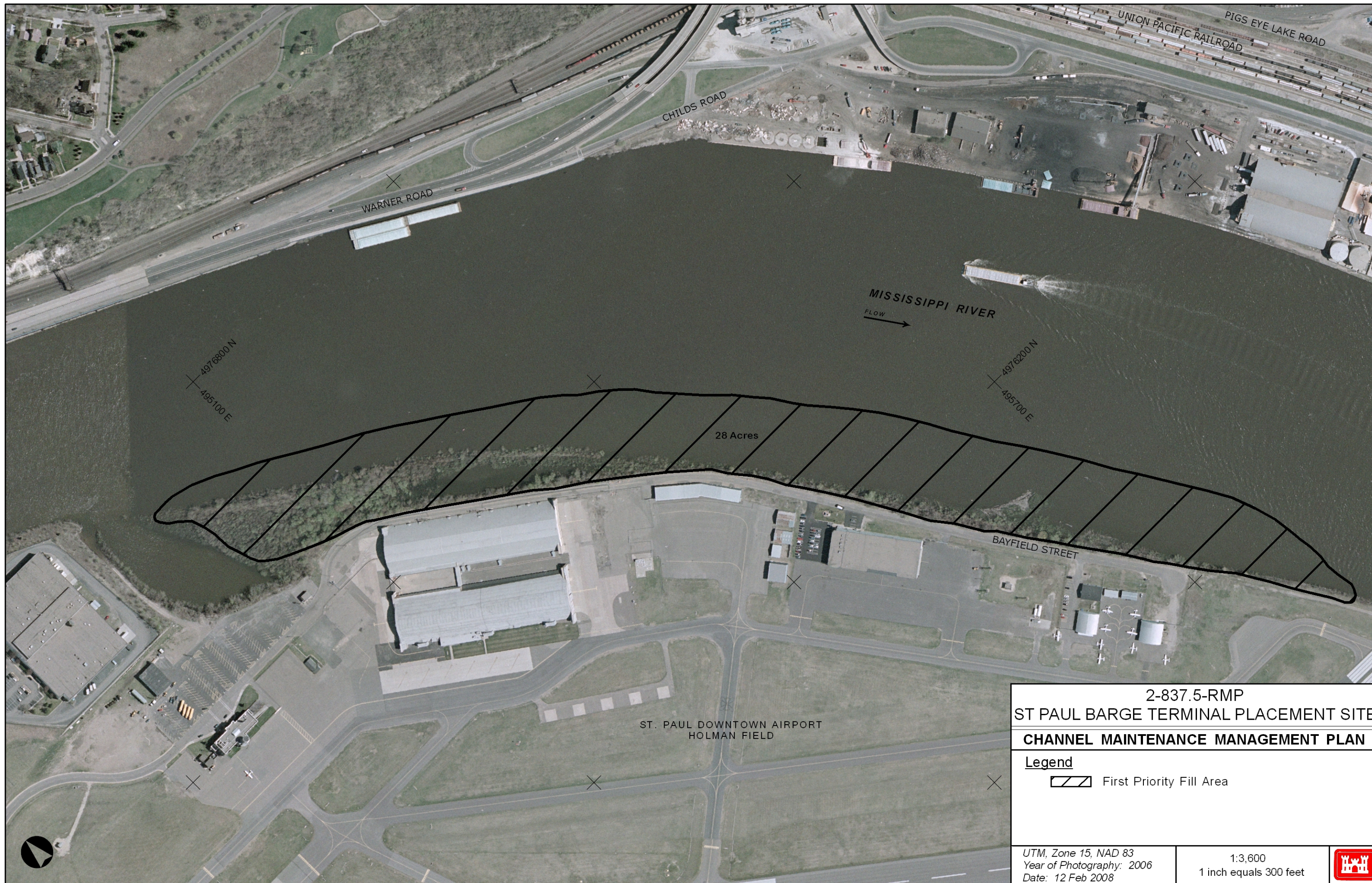
HARRIET ISLAND



4 Acres

WATER STREET

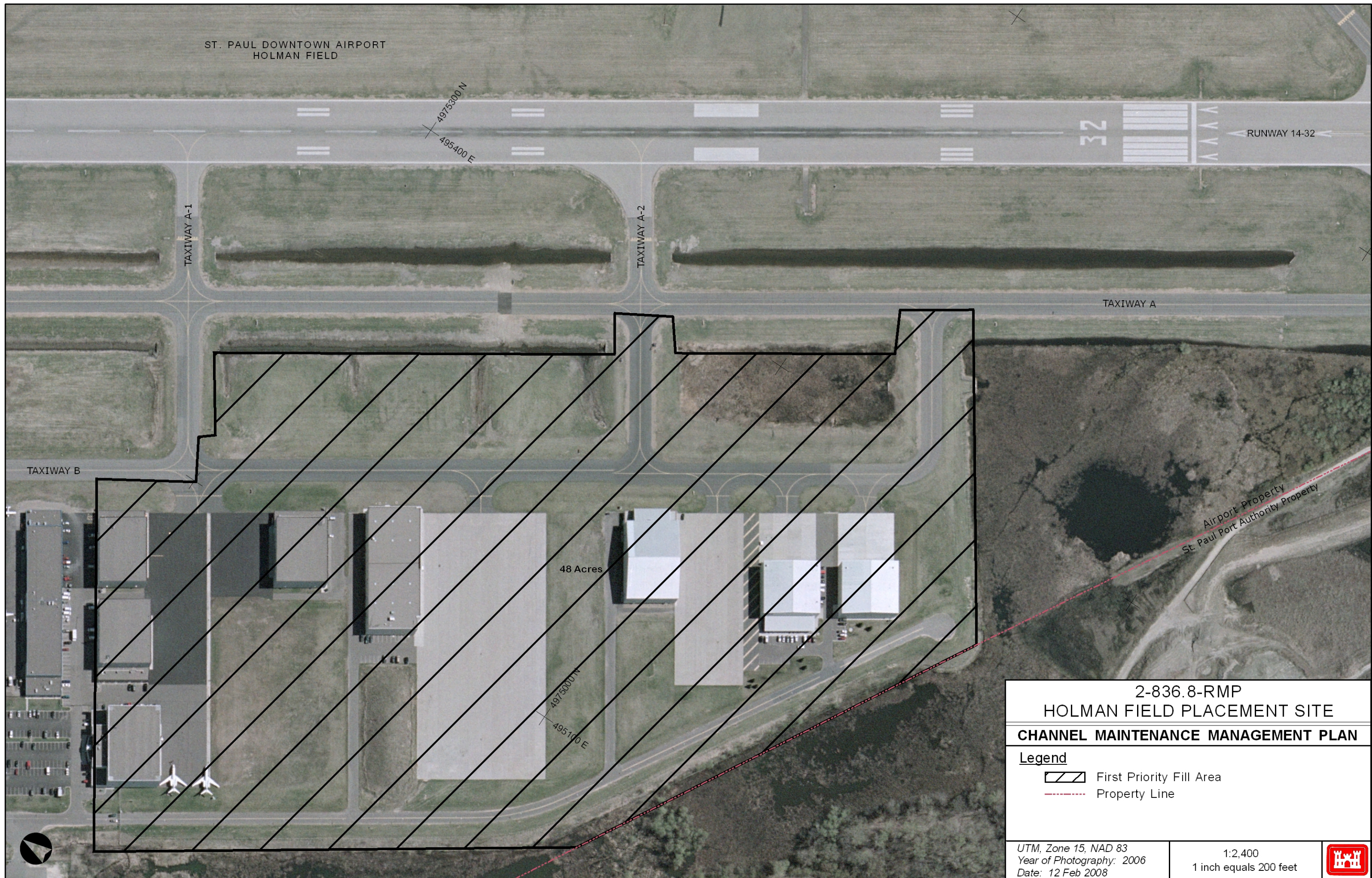
2-840.4-RMP HIGHBRIDGE PLACEMENT SITE	
CHANNEL MAINTENANCE MANAGEMENT PLAN	
Legend	
[Hatched Box] First Priority Fill Area	
UTM, Zone 15, NAD 83 Year of Photography: 2006 Date: 12 Feb 2008	1:2,400 1 inch equals 200 feet

2-837.5-RMP	St. Paul Barge Terminal	MN/Ramsey/St. Paul	State of MN
Site Identification	Site Name	State/County/Municipality	Landowner
Background: This site was selected by GREAT I (Site No. 2.40, Reference GREAT I Vol 8-Part II). There was no RRF endorsement prior to the CMMP. GREAT selected 28 acres at this site for permanent placement, which the Corps determined is justified. GREAT selected use of sites for the St. Paul Barge Terminal cut dredging in this order: 2.14 (not endorsed), 2.15 (filled), 2.13, 2.40, and 2.02 (developed). The idea for use of this site is to place sheet piling along the shoreline to contain dredged material. This site has been used and will require OSIT review and coordination with industry for best configuration of sheet pile wall.			
Site Characteristics: Minimal aquatic vegetation is present. This area is used for barge fleeting. Adjacent land use is the main navigation channel and the Holman Field Airport. Placement would be below the ordinary high water mark. Because of current use, there would be no appreciable adverse effects on fish and wildlife.			
Site Dimensions: Area = 28 acres. The area is 4000 feet by 300 feet. Pre-Fill Elevation = 683.0. Fill Elevation = 713.0. LCP Elevation = 687.2. Estimated Capacity = 1,333,000 cubic yards.			
Beneficial Use: Material would be used beneficially on-site for improvements to the barge fleeting area. A beneficial use stockpile would also be created to meet some of the high demand for material in this area. Commercial development may also benefit.			
Equipment Requirments/Limitations: All equipment working in the area must not exceed an elevation higher than 705 MSL. If this elevation is exceeded, notify the MAC to shut their VASI off.			
Special Conditions/Restrictions: An FHA Form 7460-1 (Notice of Proposed Construction or Alteration) is required when dredging in the area. A floodplain impact analysis is required and this site may be unimplementable due to adverse impacts on flood stages.			
Future Plans: Begin discussing implementation with OSIT and industry. Once filled, the area will become St. Paul Port Authority property.			
<u>Permits/Approval Checklists:</u> <input type="checkbox"/> Cultural Resources <input checked="" type="checkbox"/> Endangered Species <input type="checkbox"/> Floodplain Impact Analysis <input type="checkbox"/> NEPA <input type="checkbox"/> Real Estate <input type="checkbox"/> State <input type="checkbox"/> 404(b)(1) Evaluatoin Other:		<u>Remarks:</u> Coordinate use w/Minnesota SHPO None found at this site Analysis required Requires long-term agreement Protected waters permit & MPCA certification Long-term(b)(1) proposed	
Potential Dredge Cuts:		Dredge	Pipeline Distance
Name	Mile	Type	Water Land Total Lift
St. Paul Barge Terminal	836.4-837.8	H,M	3000 0-4000 3000-7000 26



2-837.5-RMP ST PAUL BARGE TERMINAL PLACEMENT SITE	
CHANNEL MAINTENANCE MANAGEMENT PLAN	
<u>Legend</u>	
 First Priority Fill Area	
UTM, Zone 15, NAD 83 Year of Photography: 2006 Date: 12 Feb 2008	
1:3,600 1 inch equals 300 feet	
	

2-836.8-RMP	Holman Field	MN/Ramsey/St. Paul	Metro Airport Commission			
Site Identification	Site Name	State/County/Municipality	Landowner			
Background: This site was selected by GREAT I (Site No. 2.14, Reference GREAT I Vol. 8-Part II). There was no RRF endorsement prior to the CMMP. GREAT selected 110 acres at this site for permanent placement, which the Corps determined is justified. GREAT did not endorse the site but noted that it would be approved only if the airport runway project is approved (does not indicate GREAT approval of airport expansion). The landowner is responsible for acquiring necessary permits and mitigation. Acres are not included in totals for wetland impacts because this is a Metropolitan Airport Commission (MAC) project. This site has been used in the past. GREAT selected sites for St. Paul Barge Terminal cut in this order: 2.14, 2.15, 2.13, 2.40, and 2.02.						
Site Characteristics: GREAT described the area as 80 acres of Type 1 and 2 wetlands and 30 acres of Type 3&4 wetlands. This site is located within the floodplain. Adjacent land uses include, main navigation channel, barge terminal, railroad, and an airfield. Vegetation is characterized as cattails, cutgrass, and reed canary grass.						
Site Dimensions: Area = 110 acres. The area is 3400 feet by 1400 feet. Only approximately 46 acres remains available (400,000 cubic yards). Pre-Fill Elevation = 695.0. Maximum Fill Elevation = 705.0. LCP Elevation = 687.2. Estimated Capacity = 1,008,000 cubic yards (past plus future placement).						
Beneficial Use: Material placed here will be used beneficially as landfill to develop an airport expansion. A stockpile should be developed if possible and beneficial use promoted.						
Equipment Requirments/Limitations: A culvert was installed at the site and will be used for pipeline access. All equipment working in the area must not exceed an elevation higher than 705 MSL. If this elevation is exceeded, notify the MAC to shut their VASI off.						
Special Conditions/Restrictions: An FAA Form 7460-1 (Notice of Proposed Construction of Alteration) is required when dredging in the area. The Corps has agreed to remove trees and brush, and push it away from the fill area.						
Future Plans: MAC has plans for future expansion of airport facilities. Insure that MAC has acquired all necessary permits (Federal, State, etc...) and coordinate with the OSIT. The MAC will obtain a separate permit from the MDNR. GREAT site 2.15 has been filled and site 2.02 has been developed.						
Permits/Approval Checklists: <input checked="" type="checkbox"/> Cultural Resources <input checked="" type="checkbox"/> Endangered Species <input checked="" type="checkbox"/> Floodplain Impact Analysis <input checked="" type="checkbox"/> NEPA <input checked="" type="checkbox"/> Real Estate <input checked="" type="checkbox"/> State <input type="checkbox"/> 404(b)(1) Evaluatoin Other: FAA Form 7460-1			Remarks: No action required None found at this site No further analysis necessary Covered by the GREAT and O&M, EIS DMP permit from MAC General permit with MDNR and MPCA Long-term 404(b)(1) proposed Required to give notice of construction			
Potential Dredge Cuts:		Dredge Type	Pipeline Distance			
Name	Mile		Water	Land	Total	Lift
St. Paul Barge Terminal	836.4-837.8	H	3000	3000-5000	6000-8000	8-18






2-836.3-RMP	Southport	MN/Ramsey/St. Paul	St. Paul Port Authority			
Site Identification	Site Name	State/County/Municipality	Landowner			
Background: This site was selected by GREAT I (Site No. 2.13, Reference GREAT I Vol. 8-Part II). There was no RRF endorsement prior to the CMMP. GREAT selected 18 acres at this site for permanent placement, which the Corps determined is justified. GREAT selected use of sites for the St. Paul Barge Terminal cut in this order: 2.14 (not endorsed), 2.15 (filled), 2.13, 2.40, and 2.02 (developed). The area has been used for temporary storage of barge tending equipment. Consolidation of this site with the adjacent Holman Field site may be considered. This site has not been used and will require OSIT review.						
Site Characteristics: GREAT described the area as 18 acres of type 1 wetland. Vegetation is characterized as willows. Adjacent land uses include main navigation channel, barge terminal, and airfield. This site is located within the floodplain.						
Site Dimensions: Area = 18 acres. The area is 1740 feet by 450 feet. Pre-Fill Elevation = 696.0. Maximum Fill Elevation = 706.0. LCP Elevation = 687.2. Estimated Capacity = 200,000 cubic yards.						
Beneficial Use: The material would be beneficially used as general landfill at the site. If possible, a long-term beneficial use stockpile site will be developed.						
Equipment Requirments/Limitations: All equipment working in the area must not exceed an elevation higher than 705 MSL. If this elevation is exceeded, notify the MAC to shut their VASI off.						
Special Conditions/Restrictions: Plans for the development of the site have to be approved and ready to implement at the time of placement. An FAA Form 7460-1 (Notice of Proposed Construction or Alteration) is required when dredging in the area.						
Future Plans: Pursue long-term agreement with St. Paul Port Authority and coordinate plans for use with the OSIT.						
Permits/Approval Checklists: <input checked="" type="checkbox"/> Cultural Resources <input checked="" type="checkbox"/> Endangered Species <input checked="" type="checkbox"/> Floodplain Impact Analysis <input checked="" type="checkbox"/> NEPA <input type="checkbox"/> Real Estate <input checked="" type="checkbox"/> State <input type="checkbox"/> 404(b)(1) Evaluatoin Other:			Remarks: No actoin required None found at this site No further analysis necessary Covered by the GREAT and O&M, EIS Requires a permit from the owner General permit with MDNR & MPCA Long-term 404(b)(1) proposed			
Potential Dredge Cuts:		Dredge Type	Pipeline Distance			Lift
Name	Mile		Water	Land	Total	
St. Paul Barge Terminal	836.4-837.8	H	6300	500-2000	6800-8300	9-19



2-836.3-RMP
SOUTHPORT PLACEMENT SITE

CHANNEL MAINTENANCE MANAGEMENT PLAN

Legend

-  First Priority Fill Area
-  Floodway Boundary
-  Property Line



UTM, Zone 15, NAD 83
Year of Photography: 2006
Date: 22 Feb 2008

1:2,400
1 inch equals 200 feet






2-823.8-LMT	Pine Bend	MN/Washington/Cottage Grove	Federal Government			
Site Identification	Site Name	State/County/Municipality	Landowner			
Background: <p>This site was not selected by GREAT I (Site No. 2.25T). This site was endorsed by the RRF on 23 April 1996 (1996 Lower Pool 2 Recon. Alt H2). GREAT selected site 2.10 (25 acres upland) for permanent placement of material from cuts 4-6. A Reconnaissance Report for Lower Pool 2 selecting a plan for environmental enhancement of Spring Lake. (site 2-822.8-RMP) was conceptually endorsed by the RRF (11/04/85). The Corps has determined that the Spring Lake project is not implementable and completed another Reconnaissance Report. The RRF endorsed Lower Pool 2 Recon. (Alt. H2) recommends using 8 acres at this site for all material from cuts 4 and 5.</p>						
Site Characteristics: <p>The site lies on a long peninsula and is primarily old dredge material in various stages of revegetation. Dredged material placement in 1995 converted approximately 5 acres to bare sand. Prior to 1995, the site was approximately 10 feet above LCP and had slopes of 1V:8H.</p>						
Site Dimensions: <p>Area = 8 acres. The area is 770 feet by 450 feet. Excavate to 30 feet below LCP to reach Pre-Fill Elevation. Pre-Fill Elevation = 657.0. Maximum Fill Elevation = 706.8. LCP Elevation = 686.8. Estimated Capacity = 379,500 cubic yards.</p>						
Beneficial Use: <p>The site is not land accessible for beneficial use removal. When excavated, material would be used beneficially for gravel pit reclamation or for implementation of the Spring Lake environmental enhancement project.</p>						
Equipment Requirments/Limitations: <p>The site may be used for hydraulic or mechanical placement.</p>						
Special Conditions/Restrictions: <p>Some dredging may be required to access the site from the main channel.</p>						
Future Plans: <p>Excavation of this site to 30 feet below LCP is planned for 1997. Material will be transferred to the Shiely Co. gravel pit (2-822.5-LMP) located on Lower Grey Cloud Island. After pre-excavation, this site will be used for routine placement from cuts 4 and 5. A second excavation is expected after about 20 years. After 40 years, it is estimated that the site would cover 8 acres with a final fill elevation approximately 20 feet above LCP.</p>						
Permits/Approval Checklists: <input checked="" type="checkbox"/> Cultural Resources <input checked="" type="checkbox"/> Endangered Species <input type="checkbox"/> Floodplain Impact Analysis <input checked="" type="checkbox"/> NEPA <input checked="" type="checkbox"/> Real Estate <input type="checkbox"/> State <input type="checkbox"/> 404(b)(1) Evaluatoin Other:		Remarks: No action required None found at this site Will be analyzed if necessary Covered by O&M, EIS Owned by Federal Government MPCA certificate if effluent return Long-term 404(b)(1) proposed				
Potential Dredge Cuts:		Dredge	Pipeline Distance			
Name	Mile	Type	Water	Land	Total	Lift
Pine Bend	822.7-823.7	H,M	4200	10-300	4210-4500	3-28
Grey Cloud Slough	827.5-828.3	M	21100	10-300	21110-21400	3-28
Boulanger Bend	820.8-821.4	M	18500	10-300	18510-18800	3-28
Boulanger Bend Lwr. Lt.	819.0-819.8	M	24300	10-300	24310-24600	3-28



2-823.8-LMT PINE BEND PLACEMENT SITE		
CHANNEL MAINTENANCE MANAGEMENT PLAN		
<u>Legend</u> <div> First Priority Fill Area</div>		
UTM, Zone 15, NAD 83 Year of Photography: 2006 Date: 12 Feb 2008	1:2,400 1 inch equals 200 feet	

2-823.8-RMP	C. F. Industries	MN/Dakota/Rosemont	C. F. Industries			
Site Identification	Site Name	State/County/Municipality	Landowner			
Background: <p>This site was not selected by GREAT I. There was no RRF endorsement prior to the CMMP. GREAT selected site 2.10 (25 acres upland) for permanent placement of material from cuts 4-6. A Reconnaissance Report for Lower Pool 2 selecting a plan for environmental enhancement of Spring Lake (site 2-822.8-RMP) was conceptually endorsed by the RRF (11/04/85). Use of a 1 acre area by the C.F. Industries (CFI) dock was recommended by the OSIT as a stockpile to be used later in the construction of Spring Lake. A new CFI pit site approximately 2500 feet from the dock was endorsed by the OSIT in 1994. Material at the new location would not be used for Spring Lake. This site will supplement the Lower Pool 2 plan. Both the dock and the pit sites have been used in the past and are permitted by the landowner. Future use is uncertain.</p>						
Site Characteristics: <p>CFI is located off the main channel near the Spring Lake backwater. Both the CFI dock site and the CFI pit site are upland areas. The dock site is in a disturbed area near the CFI dock. The pit site is out of the floodplain and was created when CFI needed fill for their building site.</p>						
Site Dimensions: <p>Area = 1 acre. The area is 290 feet by 150 feet. The pit site is an additional 6.5 acres and has capacity for 150,000 cubic yards. Pre-Fill Elevation = 700.0. Maximum Fill Elevation = 725.0. LCP Elevation = 686.8. Estimated Capacity = 40,000 cubic yards at the dock site and 150,000 at the pit site.</p>						
Beneficial Use: <p>There is good truck access and the site has been used for beneficial use removal with the consent of CFI and the Corps of Engineers.</p>						
Equipment Requirments/Limitations: <p>Placement will be by mechanical methods only. Use of the CFI pit site will require trucks to haul material up a hill to the pit.</p>						
Special Conditions/Restrictions: <p>Conditional use permits to place material at the sites have been received. All material placed at the CFI dock site will remain the property of the Government and must be removed by the Government within 3 years. All material placed at the CFI pit site will become the landowners property.</p>						
Future Plans: <p>The landowner has discretion over how much material is placed at the site and where it is placed, which makes the site unreliable in the future. Continue use for mechanical placement at dock site to keep the beneficial use stockpile full. Evaluate use of pit for each job.</p>						
Permits/Approval Checklists: <input checked="" type="checkbox"/> Cultural Resources <input checked="" type="checkbox"/> Endangered Species <input checked="" type="checkbox"/> Floodplain Impact Analysis <input checked="" type="checkbox"/> NEPA <input type="checkbox"/> Real Estate <input checked="" type="checkbox"/> State <input checked="" type="checkbox"/> 404(b)(1) Evaluatoin Other:			Remarks: No action required None found at this site No further analysis necessary Covered by O&M, EIS Permit Required from the landowner General permit with MDNR & MPCA None required if no effluent return			
Potential Dredge Cuts:		Dredge	Pipeline Distance			
Name	Mile	Type	Water	Land	Total	Lift
Pine Bend Foot Light	822.7-823.7	M	3200	50-200	3250-3400	13-38
Grey Cloud Slough	827.5-828.3	M	22700	50-200	22750-22900	13-38
Boulanger Bend	820.8-821.4	M	16400	50-200	16450-16600	13-38
Boulanger Bend Lwr. Lt.	819.0-819.8	M	22700	50-200	22750-22900	13-38



2-823.8-RMP C.F. INDUSTRIES PLACEMENT SITE	
CHANNEL MAINTENANCE MANAGEMENT PLAN	
Legend	
	First Priority Fill Area
	Second Priority Fill Area
UTM, Zone 15, NAD 83 Year of Photography: 2003 Date: 12 Feb 2008	
1:10,800 1 inch equals 900 feet	
	

2-822.5-LMP	Shiely Pit	MN/Washington/Cottage Grove	Private			
Site Identification	Site Name	State/County/Municipality	Landowner			
Background: <p>This site was not selected by GREAT I. This site was endorsed by the RRF on 23 April 1996, (1996 Lower Pool 2 Recon. Alts I1 and H2). GREAT selected sites 2.10 and 2.35 (both 25 acres upland) for permanent placement of material from cuts 2-6. A Recon. Report for Lower Pool 2 selecting a plan for environmental enhancement of Spring Lake (2-822.8-RMP) was conceptually endorsed by the RRF (11/04/85). The Corps determined that the Spring Lake project is not feasible and have prepared another Lower Pool 2 Recon. This site is used under all alternatives to varying degrees. For planning purposes, it is assumed that 15 acres is required to contain the projected amount of material placed for various alts.</p>						
Site Characteristics: <p>This site is an active sand/gravel quarry. No specific portion of the pit has been identified for dredged material placement. The active quarry operations limit the revegetation. It is assumed that materials transferred from the island sites will contain fine material which will promote better growth.</p>						
Site Dimensions: <p>Area = 15 acres. The area is 1500 by 435 feet. Pre-Fill Elevation = 707.0. Maximum Fill Elevation = 737.0. LCP Elevation = 686.8. Estimated Capacity = 1,445,500+ cubic yards.</p>						
Beneficial Use: <p>All of the material placed at this site would be used for passive beneficial use for reclamation of the Shiely Co. sand and gravel pit.</p>						
Equipment Requirments/Limitations: <p>Material will be transferred from island sites 2-823.8-LMT (Pine Bend), 2-821.5-LMT (Upper Boulanger) and 2-821.1-LMT (Lower Boulanger) to this site hydraulically.</p>						
Special Conditions/Restrictions: <p>Unknown.</p>						
Future Plans: <p>Excavate island sites in 1997 to this location and stabilize. Coordinate development of long term real estate and site use plans with Shiely Co., the landowners, Washington Co., Cottage Grove, and RRF agencies.</p>						
Permits/Approval Checklists: <input checked="" type="checkbox"/> Cultural Resources <input checked="" type="checkbox"/> Endangered Species <input checked="" type="checkbox"/> Floodplain Impact Analysis <input type="checkbox"/> NEPA <input type="checkbox"/> Real Estate <input type="checkbox"/> State <input type="checkbox"/> 404(b)(1) Evaluatoin Other:		Remarks: No action required None found at this site No further analysis necessary Requires a permit from the landowner				
Potential Dredge Cuts:		Dredge	Pipeline Distance			
Name	Mile	Type	Water	Land	Total	Lift
Pine Bend site	2-823.8-LMT	H	6000	2200	8200	80
Upper Boulanger site	2-821.5-LMT	H	5200	2200	7400	80
Lower Boulanger site	2-821.1-LMT	H	7200	2200	9400	80



2-822.5-RMP
SHIELY PIT PLACEMENT SITE

CHANNEL MAINTENANCE MANAGEMENT PLAN

Legend

 First Priority Fill Area



UTM, Zone 15, NAD 83
Year of Photography: 2003
Date: 12 Feb 2008

1:9,600
1 inch equals 800 feet



2-821.5-LMT	Upper Boulanger	MN/Washington/Cottage Grove	Private			
Site Identification	Site Name	State/County/Municipality	Landowner			
Background: This site was not selected by GREAT I. This site was endorsed by the RRF on 23 April 1996 (1996 Lower Pool 2 Recon. Alt I1). GREAT selected site 2.35 (25 acres upland) for permanent placement of material from cuts 2 and 3. A Reconnaissance Report for Lower Pool 2 selecting a plan for environmental enhancement of Spring Lake (site 2-822.8-RMP) was conceptually endorsed by the RRF (11/04/85). This site was a potential source of initial material for construction of the Spring Lake project and a site for storage of material if the Spring Lake project would be completed in phases. The Corps has determined that the Spring Lake project is not implementable and completed another Recon. Report. The RRF endorsed 1995 Lower Pool 2 Recon. (Alt I1) recommends using 4 acres at this site for material from cuts 2 and 3.						
Site Characteristics: An island site created by dredge material placement.						
Site Dimensions: Area = 4 acres. The area is 560 feet by 310 feet. Excavate to 30 feet below LCP to reach Pre-Fill Elevation. Pre-Fill Elevation = 656.7. Maximum Fill Elevation = 706.7. LCP Elevation = 686.7. Estimated Capacity = 100,000 cubic yards.						
Beneficial Use: This site is not land accessible for beneficial use removal. When excavated, material would be used beneficially for gravel pit reclamation or for implementation of the Spring Lake environmental enhancement project.						
Equipment Requirments/Limitations: The site may be use for hydraulic or mechanical placement.						
Special Conditions/Restrictions: Unknown.						
Future Plans: Excavation of this site to 30 feet below LCP is planned for 1997. Material will be transferred to the Shiely Co. gravel pit located on Lower Grey Cloud Island. After excavation and placement of 100,000 cubic yards use will be re-evaluated. After 40 years, it is estimated that the site would cover 4 acres with a final fill elevation approximately 20 feet above LCP.						
Permits/Approval Checklists: <input checked="" type="checkbox"/> Cultural Resources <input checked="" type="checkbox"/> Endangered Species <input type="checkbox"/> Floodplain Impact Analysis <input checked="" type="checkbox"/> NEPA <input type="checkbox"/> Real Estate <input type="checkbox"/> State <input type="checkbox"/> 404(b)(1) Evaluatoin Other:		Remarks: No action required None found at this site Impacts will be analyzed Covered by O&M, EIS Requires a permit from the landowner MPCA certificate is effluent return Long-term 404(b)(1) proposed				
Potential Dredge Cuts:		Dredge	Pipeline Distance			
Name	Mile	Type	Water	Land	Total	Lift
Boulanger Bend	820.8-821.4	H,M	4000	10-300	4010-4300	3-28
Boulanger Bend Lwr. Lt.	819.0-819.8	M	9500	10-300	9510-9800	3-28
Pine Bend Foot Light	822.7-823.7	M	10600	10-300	10610-10900	3-28
Grey Cloud Slough	827.5-828.3	M	35900	10-300	35910-36200	3-28



2-821.5-LMT UPPER BOULANGER PLACEMENT SITE CHANNEL MAINTENANCE MANAGEMENT PLAN		
Legend <div> First Priority Fill Area</div>		
UTM, Zone 15, NAD 83 Year of Photography: 2003 Date: 13 Feb 2008	1:2,400 1 inch equals 200 feet	

2-821.1-LMT	Lower Boulanger	MN/Washington/Cottage Grove	Private			
Site Identification	Site Name	State/County/Municipality	Landowner			
Background: <p>This site was not selected by GREAT I (Site No. 2.31T). GREAT selected site 2.35 (25 acres upland) for permanent placement of material from cuts 2 and 3. A Reconnaissance Report for Lower Pool 2 selecting a plan for environmental enhancement of Spring Lake (site 2-822.8-RMP) was conceptually endorsed by the RRF (11/04/85). This site was a potential source of initial material for construction of the Spring Lake project and a site for storage of material if the Spring Lake project would be completed in phases. The Corps has determined that the Spring Lake project is not implementable and completed another Recon. Report. The RRF endorsed 1995 Lower Pool 2 Recon. (Alt I1) recommends using 8 acres at this site for material from cuts 2 and 3.</p>						
Site Characteristics: <p>This is an island site created by dredged material placement. Five acres at this site are characterized as upland (sand from past placement) and three acres at this site are characterized as wetland (bottomland forest).</p>						
Site Dimensions: <p>Area = 8 acres. The area is 1200 feet by 290 feet. Excavate to 30 feet below LCP to reach Pre-Fill Elevation. Pre-Fill Elevation = 657.0. Maximum Fill Elevation = 710.0. LCP Elevation = 686.7. Estimated Capacity = 355,500 cubic yards.</p>						
Beneficial Use: <p>This site is not land accessible for beneficial use removal. When excavated, material would be used beneficially for gravel pit reclamation or for implementation of the Spring Lake environmental enhancement project.</p>						
Equipment Requirments/Limitations: <p>The site may be used for hydraulic or mechanical placement.</p>						
Special Conditions/Restrictions: <p>Unknown.</p>						
Future Plans: <p>Excavation to 30 feet below LCP is planned in 1997. Material will be transferred to the Shiely Co. gravel pit on Lower Grey Cloud Island. After 40 years, it is estimated that the site would cover 8 acres with a final fill elevation approximately 20 feet above LCP.</p>						
Permits/Approval Checklists: <input checked="" type="checkbox"/> Cultural Resources <input checked="" type="checkbox"/> Endangered Species <input type="checkbox"/> Floodplain Impact Analysis <input type="checkbox"/> NEPA <input type="checkbox"/> Real Estate <input type="checkbox"/> State <input type="checkbox"/> 404(b)(1) Evaluatoin Other:		Remarks: No action required None found at this site Impacts will be analyzed Requires a permit from the landowner MPCA certificate if effluent return Long-term 404(b)(1) proposed				
Potential Dredge Cuts:		Dredge	Pipeline Distance			
Name	Mile	Type	Water	Land	Total	Lift
Boulanger Bend	820.8-821.4	H,M	1000	10-300	1010-1300	3-28
Boulanger Bend Lwr. Lt.	819.0-819.8	H,M	5300	10-300	5310-5600	3-28
Pine Bend Foot Light	822.7-823.7	M	14800	10-300	14810-15100	3-28
Grey Cloud Slough	827.5-828.3	M	40100	10-300	40110-40400	3-28

