## DREDGING NOTICE U.S. ARMY CORPS OF ENGINEERS ST. PAUL DISTRICT

NOTICE DATE: August 13 <sup>th</sup> , 2019	DREDGING CATEGORY: Imminent
MEETING DATE: If requested	MEETING TIME:
BOAT REQUIREMENT:	MEETING LOCATION:
DREDGE CUT NAME: Lansing Upper Light	RIVER MILE: 664.1 – 664.7
HISTORIC DATA	
Frequency: 73%	Avg. Quantity/Job: 44,224 yd <sup>3</sup>
Date Last Dredged: Aug. 18 <sup>th</sup> , 2018	Avg. Quantity/Year: 32,491 yd <sup>3</sup>
SURVEY DATA	
Date Surveyed: August 8 <sup>th</sup> , 2019	
Water Surface Elevation: 621.2	
Low Control Pool Elevation: 619.3	
Net Difference: +1.9	
5 Day River Forecast: Slow Decline	
DREDGING DATA	
Recommended Channel Width: 500 feet	
Recommended Dredging Depth: 11 feet	
Estimated Quantity: 26,966 yd <sup>3</sup>	
Type of Dredge: Government Hydraulic	
Proposed Dredging Date: August 15 <sup>th</sup> , 2018	
Estimated Duration: 4 Dredging days	
Justification for Dredging: The navigation channel is reduced to 150 feet between the 9'	
contours and closed between the 10.5' contours. On a recommended bend width of 500	
feet.	
MATERIAL PLACEMENT DATA	
Proposed Placement Site: Lansing Hwy Bridge	
Location: 9-663.5-LWP	
Site Characteristics: This is a historically used stock pile site, all material is expected to	
be removed.	
If you have any questions concerning this project, or if you would like to request an on-site	
meeting, please call me at (651) 290-5155.	

Dan Cottrell Dredging Manager Pool 9, Lansing Upper Light River Mile: 664.1 - 664.7 Surveyed: August 8th, 2019 Scale: 1" = 200'

CUT-1

 $\begin{array}{c} 0_{9}^{1}1_{8}12_{6}13_{9}9_{1}1_{9}11_{1}12_{1}14_{5}12_{5}13_{5}12_{6}12_{6}13_{2}14_{1}15_{4}13_{7}11_{6}11_{5}11_{2}12_{4}11_{1}16_{1}16_{1}12_{1}12_{1}11_{1}16_{1}12_{1}11_{1}12_{1}11_{1}12_{1}11_{1}12_{1}11_{1}12_{1}12_{1}11_{1}12_{1}12_{1}11_{1}12_{1$ 

±0\_11<sub>3</sub>12<sub>7</sub>1**9719**310<sub>9</sub>18618

1 12,12,11,11 ۹ 10 to 10.10.10.10

+

10 1 12 127 136 139 1 3 09 112 13 155 125 133 129 126 138 14 15 159 10 **3** 0 ₩<sub>8</sub>12<sub>3</sub>12<sub>8</sub>13<sub>4</sub>14<sub>1</sub>1<mark>8</mark>812<sub>2</sub>13<sub>1</sub>13<sub>9</sub>14313<sub>4</sub>13<sub>5</sub>12<sub>9</sub>12<sub>7</sub>13<sub>4</sub>14 14<sub>7</sub>14<sub>1</sub>12

 $9_9 10_111_412_712_713_812_911_812_913_212_913_313_213 12_413_113_913_513$ 

 $10_311_61212_413_413_210_11_812_712_212_513_513_212_813_112_712_4$  $11_411_511_712_312_314_111_411_112_714_11_512_713_212_712_112_117_7$ 511<sub>6</sub>13<sub>4</sub>14<sub>1</sub>10<sub>7</sub>11<sub>4</sub>13<sub>8</sub>11<sub>3</sub>11<sub>7</sub>12<sub>1</sub>12<sub>3</sub>11<sub>9</sub>1**5**4 10<sub>7</sub>11<sub>3</sub>11<sub>6</sub>12<sub>8</sub>14 1**½ (**0<sub>9</sub>12<sub>3</sub>11**⊴**0<sub>5</sub>11₁11₅1**9**510₁ 9<sub>6</sub>

0<sub>2</sub>10,10<sub>9</sub>12,13,10,10,11,19,10 179<sub>5</sub>10<sub>0</sub>12<sub>2</sub>12<sub>5</sub>10<sub>0</sub>11<sub>1</sub>11<sub>4</sub> 11 11211612 **1**24114112029.10 92

0<sub>8</sub>11 11<sub>4</sub>12<sub>1</sub>12<sub>1</sub>12<sub>4</sub>11<sub>8</sub>10 2 13<sub>8</sub>13<sub>4</sub>12<sub>9</sub>12

11 11,13,12,

11.12

81 84

9<sub>4</sub> 10<sub>1</sub> 9<sub>9</sub> 9, 10

10 9, 10 10 10 97

9511 10

8. 19.

11<sub>5</sub>11 11/11<sub>6</sub>11<sub>6</sub>12

12<sub>5</sub>11<sub>8</sub> 12 11<sub>3</sub>11

1₁11<sub>6</sub>11<sub>6</sub>10<sub>8</sub>1 9<sub>2</sub> 10<mark>∖1</mark>0<sub>8</sub>11<sub>9</sub>10<sub>9</sub> 12210,10,10,10,10,12 11212 11410,11

1<sub>5</sub>10<sub>9</sub>11 1

ρ<sub>6</sub>12₁10ε

10<sub>8</sub>12

0 10 11 12 13 1,11,10**,0**,11,12,13 12,12,1  $0_510_110_10_610_711_812_111_911_511_412$  12

 $13_813_312_211_29_810_11_212_112_12_713_111$ 

4,13,12 12,211,11,210,10,11,2

14 145 13915 12115 11 16610 14<sub>9</sub>15₁16 13<sub>9</sub>13 14 14₁14₁14₁11 

 $11_{1}1_{9}^{\prime}13_{7}15_{5}15_{5}16$   $16_{3}17_{2}16_{4}12_{6}12_{1}^{\prime}1_{6}12_{1}12$   $11_{8}16_{5}10_{3}11_{9}11_{2}10_{1}10_{7}$ **1**0<sub>7</sub>**1**2<sub>3</sub>12<sub>9</sub>15<sub>2</sub>15<sub>9</sub>15<sub>6</sub>15<sub>4</sub>15<sub>7</sub>15<sub>5</sub>14<sub>6</sub>14<sub>2</sub>12<sub>1</sub>12 11<sub>1</sub>10<sub>8</sub>**11** 11<sub>8</sub>16 9<sub>6</sub> **9**<sub>6</sub> **9**<sub>6</sub> 0,12,813,915,15,615,314,514,314,13,813,213 13,913,513,812,612,5 11<sub>7</sub>11<sub>8</sub>14<sub>1</sub>15<sub>7</sub>19<sub>4</sub>17<sub>7</sub>14<sub>3</sub>13<sub>8</sub>14 14<sub>6</sub>12<sub>8</sub>12<sub>2</sub>12<sub>4</sub>12<sub>6</sub>12<sub>4</sub>11<sub>4</sub>10<sub>7</sub>11<sub>5</sub>12<sub>4</sub>12<sub>7</sub>10<sub>9</sub>  $312_414_415_917_518$  18 17 $_915_414$  14 14 14 $_213_811_611_10_8 D_312_712_410_911$ 1<sub>3</sub>12<sub>6</sub>14<sub>3</sub>15<sub>8</sub>15<sub>8</sub>16<sub>3</sub>16<sub>3</sub>14<sub>1</sub>12<sub>9</sub>12<sub>7</sub>12<sub>9</sub>13<sub>4</sub>13<sub>1</sub>13<sub>2</sub>13<sub>1</sub>12<sub>8</sub>13 11<sub>1</sub>11<sub>9</sub> **1**0<sub>7</sub>11<sub>6</sub>13 14<sub>1</sub>14<sub>6</sub>15<sub>1</sub>16<sub>2</sub>16<sub>7</sub>13<sub>5</sub>12<sub>3</sub>12<sub>2</sub>12<sub>1</sub>12<sub>1</sub>12<sub>1</sub>12<sub>1</sub>12<sub>2</sub>15<sub>1</sub>11<sub>8</sub>12

 $13_{2}14_{1}14_{6}14$  14 14  $15_{4}13_{1}12_{7}12_{6}12_{5}13$   $13_{6}$  $16_914_615_714_112_913_614_714_814_313_313_614$   $13_113_311$ 24917517616617 17613213 13312112411912 12511810  $23_{3}18_{5}16_{8}15_{3}15_{3}16_{5}14$   $12_{2}12_{3}12$   $11_{1}11_{1}11_{7}11_{3}11_{1}12_{1}12_{3}$  $\begin{array}{c} 20_{4}21_{1}18_{9}16_{6}14_{5}14_{3}14_{8}15_{9}13_{3}12_{1}11_{8}11_{1}11_{1}1_{1}10_{9}11_{4}11_{1}10_{9}11_{4}\\ 18_{8}19_{1}19_{6}21_{3}14_{7}13_{5}13_{7}14_{3}14_{5}13_{9}12_{4}11_{9}16_{5}10_{8}11_{2}10_{9}12_{4}10_{9}10_{2}9_{4}\end{array}$ 

 $13_417_117_817_419_118_213_112_713 13_514_113_813_913_513_512_4$ 

10<sub>9</sub>11<sub>3</sub>13 11<sub>7</sub>12 13<sub>2</sub>14 15<sub>3</sub>14<sub>9</sub>15<sub>2</sub>14<sub>8</sub>14<sub>6</sub>14<sub>8</sub>13 14<sub>2</sub>13<sub>9</sub>12<sub>4</sub>13<sub>6</sub>13 **1**9<sub>4</sub>11 10<sub>8</sub>  $11_210_911_715_216$   $13_615_216_114_514/13_413_713_713$   $12_712_210_11_411_11$ 11<sub>5</sub>11<sub>3</sub>11<sub>6</sub>14<sub>6</sub>16<sub>4</sub>15<sub>2</sub>16<sub>5</sub>16<sub>7</sub>16<sub>9</sub>14<sub>3</sub>12<sub>9</sub>12<sub>7</sub>12<sub>6</sub>12<sub>7</sub>13<sub>2</sub>13<sub>3</sub>12<sub>8</sub>0)10 10<sub>7</sub>11<sub>8</sub>11<sub>3</sub>13<sub>6</sub>14<sub>7</sub>13<sub>8</sub>14<sub>3</sub>14<sub>8</sub>15<sub>2</sub>15<sub>4</sub>15<sub>6</sub>13 12<sub>9</sub>13<sub>2</sub>12<sub>4</sub>12 12<sub>8</sub>12<sub>1</sub>11<sub>4</sub>11  $12_{1}12_{5}11_{3}12_{2}13_{6}13_{6}13_{1}13_{4}13_{8}14$   $14_{8}15_{1}13_{6}14_{2}13_{8}11_{2}10_{6}10_{7}10_{8}1_{2}$ Q<sub>5</sub>12<sub>7</sub>15 15 16<sub>2</sub>17<sub>4</sub>14<sub>4</sub>12<sub>5</sub>13<sub>1</sub>12<sub>9</sub>13<sub>7</sub>13<sub>7</sub>12<sub>6</sub>12<sub>1</sub>12 11, 9

12 1411414315716 1631271281321451511 0 20415 1111

11,10

 $10_911 \ 11_412_512_913 \ 10_210 \ 10_10_310_240_611_712_612$  $11_{2}12_{2}14 \ 13_{8}12_{9}13_{9}11_{9}12_{4}12_{9}12_{6}40 \ 9_{8} \ 9_{8} \ 9_{7} \ 9_{7} \ 9_{7}$  $10_61_{8}12_413_615$   $12_612_812_11_812$   $11_712_79_7$ 12,16,13,13 12,13 14 13,13,1 10,  $4_{4}^{15}_{2}^{16}_{2}^{16}_{4}^{13}$   $12_{2}^{12}_{8}^{12}_{9}^{12}_{4}^{11}_{5}^{11}_{7}^{10}_{8}$ 

 $11_2 12 13_1 12_9 13_2 1^3$ 

11,11,13

10,10 10,10,10,10,10,11,12,12,13 11,210,10

98 94

9, 9,

12 13

