

CARE COMMITTEE MEETING USACE DREDGING UPDATE

Natalie Mills

USACE Project Manager

21 Aug 2018

BUILDING STRONG®
and Taking Care of People!

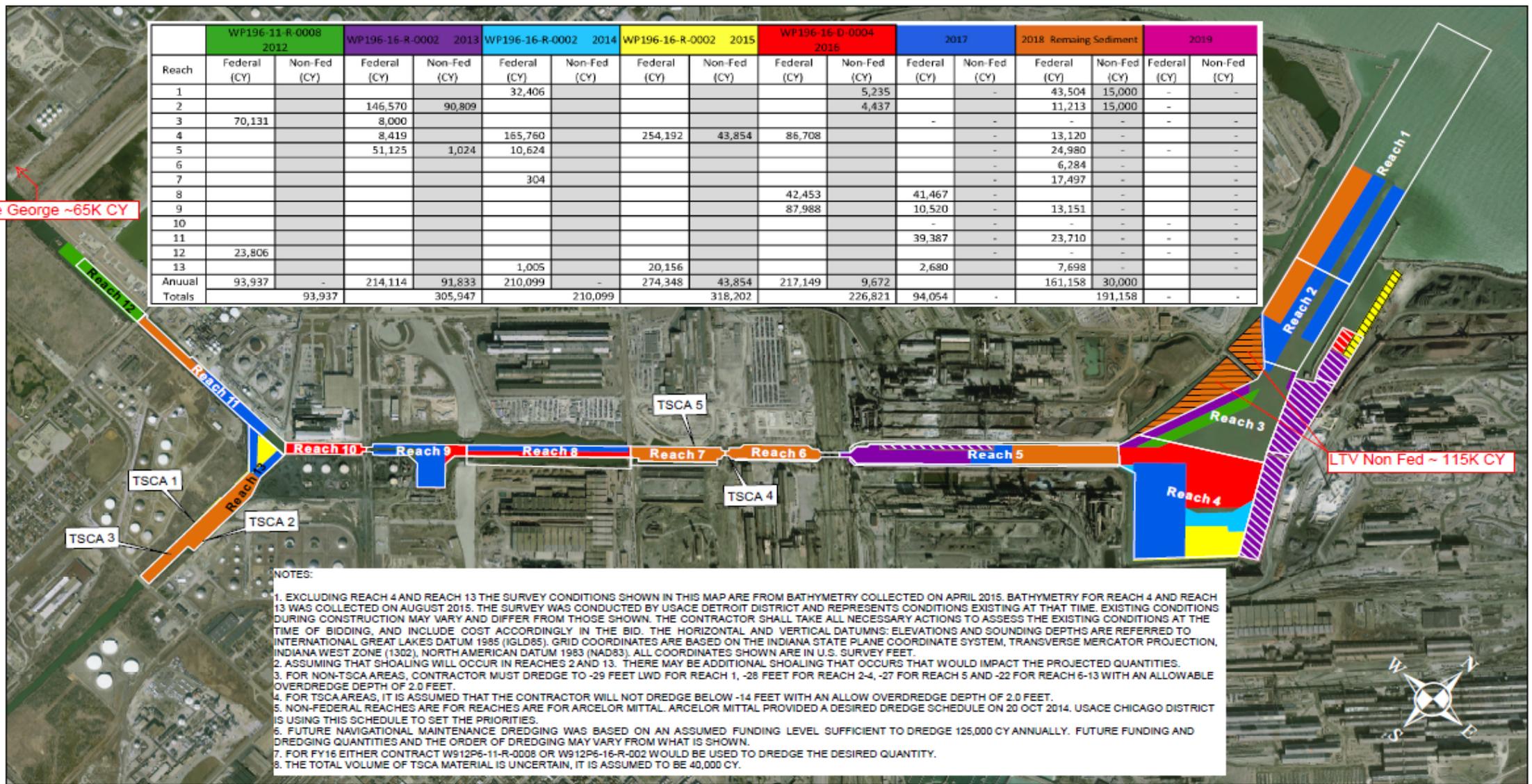


**US Army Corps
of Engineers®**



Lake George ~65K CY

Reach	WP196-11-R-0008 2012		WP196-16-R-0002 2013		WP196-16-R-0002 2014		WP196-16-R-0002 2015		WP196-16-D-0004 2016		2017		2018 Remaining Sediment		2019	
	Federal (CY)	Non-Fed (CY)	Federal (CY)	Non-Fed (CY)	Federal (CY)	Non-Fed (CY)	Federal (CY)	Non-Fed (CY)								
1					32,406					5,235			43,504	15,000		
2			146,570	90,809						4,437			11,213	15,000		
3	70,131		8,000													
4			8,419		165,760		254,192	43,854	86,708				13,120			
5			51,125	1,024	10,624								24,980			
6													6,284			
7					304								17,497			
8									42,453		41,467					
9									87,988		10,520		13,151			
10																
11													39,387		23,710	
12	23,806															
13					1,005		20,156				2,680			7,698		
Annual Totals	93,937	-	214,114	91,833	210,099	-	274,348	43,854	217,149	9,672			161,158	30,000		
Totals		93,937		305,947		210,099		318,202		226,821	94,054			191,158		



LTV Non Fed ~ 115K CY

NOTES:

1. EXCLUDING REACH 4 AND REACH 13 THE SURVEY CONDITIONS SHOWN IN THIS MAP ARE FROM BATHYMETRY COLLECTED ON APRIL 2015. BATHYMETRY FOR REACH 4 AND REACH 13 WAS COLLECTED ON AUGUST 2015. THE SURVEY WAS CONDUCTED BY USACE DETROIT DISTRICT AND REPRESENTS CONDITIONS EXISTING AT THAT TIME. EXISTING CONDITIONS DURING CONSTRUCTION MAY VARY AND DIFFER FROM THOSE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY ACTIONS TO ASSESS THE EXISTING CONDITIONS AT THE TIME OF BIDDING, AND INCLUDE COST ACCORDINGLY IN THE BID. THE HORIZONTAL AND VERTICAL DATUMS: ELEVATIONS AND SOUNDING DEPTHS ARE REFERRED TO INTERNATIONAL GREAT LAKES DATUM 1985 (IGLD85), GRID COORDINATES ARE BASED ON THE INDIANA STATE PLANE COORDINATE SYSTEM, TRANSVERSE MERCATOR PROJECTION, INDIANA WEST ZONE (1302), NORTH AMERICAN DATUM 1983 (NAD83). ALL COORDINATES SHOWN ARE IN U.S. SURVEY FEET.
2. ASSUMING THAT SHOALING WILL OCCUR IN REACHES 2 AND 13. THERE MAY BE ADDITIONAL SHOALING THAT OCCURS THAT WOULD IMPACT THE PROJECTED QUANTITIES.
3. FOR NON-TSCA AREAS, CONTRACTOR MUST DREDGE TO -29 FEET LWD FOR REACH 1, -28 FEET FOR REACH 2-4, -27 FOR REACH 5 AND -22 FOR REACH 6-13 WITH AN ALLOWABLE OVERDREDGE DEPTH OF 2.0 FEET.
4. FOR TSCA AREAS, IT IS ASSUMED THAT THE CONTRACTOR WILL NOT DREDGE BELOW -14 FEET WITH AN ALLOW OVERDREDGE DEPTH OF 2.0 FEET.
5. NON-FEDERAL REACHES ARE FOR REACHES ARE FOR ARCELOR MITTAL. ARCELOR MITTAL PROVIDED A DESIRED DREDGE SCHEDULE ON 20 OCT 2014. USACE CHICAGO DISTRICT IS USING THIS SCHEDULE TO SET THE PRIORITIES.
6. FUTURE NAVIGATIONAL MAINTENANCE DREDGING WAS BASED ON AN ASSUMED FUNDING LEVEL SUFFICIENT TO DREDGE 125,000 CY ANNUALLY. FUTURE FUNDING AND DREDGING QUANTITIES AND THE ORDER OF DREDGING MAY VARY FROM WHAT IS SHOWN.
7. FOR FY16 EITHER CONTRACT W912P6-11-R-0008 OR W912P6-16-R-002 WOULD BE USED TO DREDGE THE DESIRED QUANTITY.
8. THE TOTAL VOLUME OF TSCA MATERIAL IS UNCERTAIN, IT IS ASSUMED TO BE 40,000 CY.



U.S. Army Corps
Of Engineers®
Chicago District

Legend

2012, Federal	2013, Federal	2015, Federal	2016, Non-Federal	2017, Federal	2018, Non-Federal
2013, Non-Federal	2014, Federal	2015, Non-Federal	2016, Federal	2018, Federal	

Indiana Harbor
Dredging Volumes by Year
For Official Use Only
March 2018

0 500 1,000 2,000 3,000 4,000

Feet
Chicago District, U.S. Army Corps of Engineers

1

FEDERAL DREDGING SUMMARY

Year	Federal Quantity, CY	Non-Federal Quantity, CY
2012	93,937	0
2013	214,114	91,833
2014	210,099	0
2015	274,348	43,854
2016	194,429	9,760
2017	94,054	0
2018	125,946	30,000
Total	1,206,927	175,447

estimated total by fall 2018 = 1.36 MCY



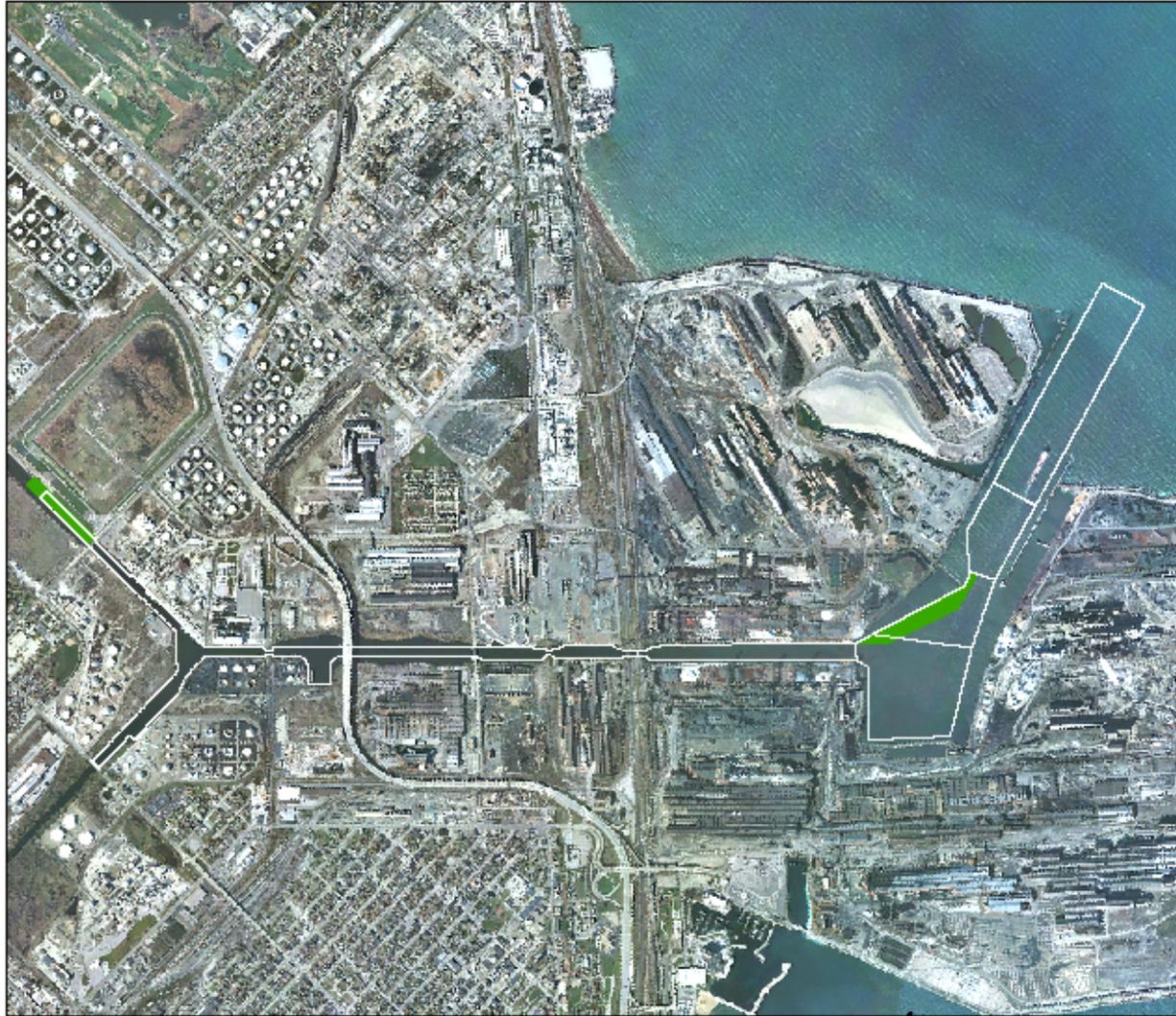
**US Army Corps
of Engineers**





Indiana Harbor and Canal 2012 Dredging (Completed)

U.S. Army Corps
of Engineers
Chicago District



Legend

- Federal Nav. Channel
- 2012 Dredging
93,937cy

Location Map

Date: 9/20/2013

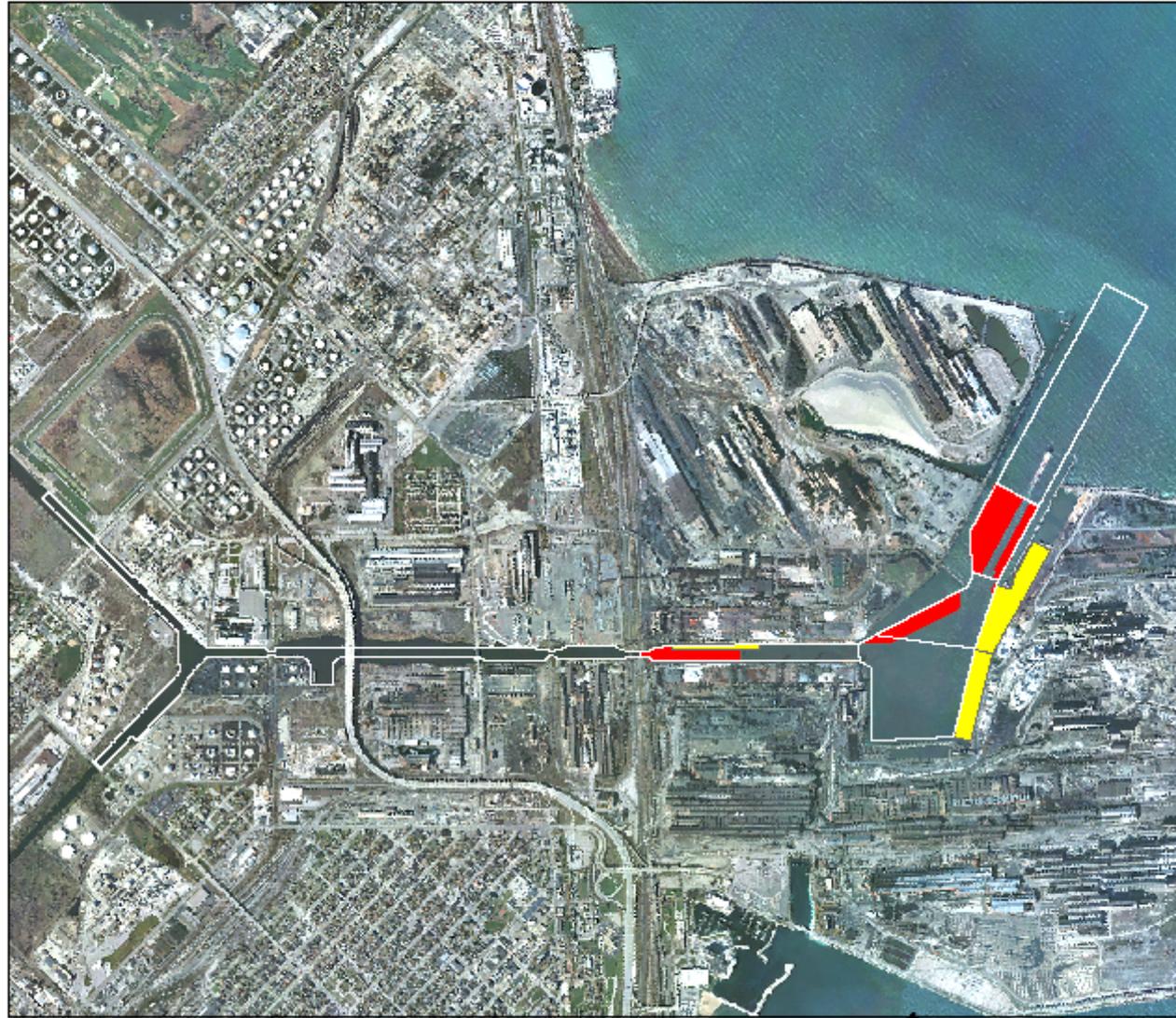
1:27,000





Indiana Harbor and Canal 2013 Dredging (Completed)

U.S. Army Corps
of Engineers
Chicago District



Legend

- Federal Nav. Channel
- Federal
214,114 cy
- Non Federal
91,833 cy



Date: 9/11/2013

1:27,000



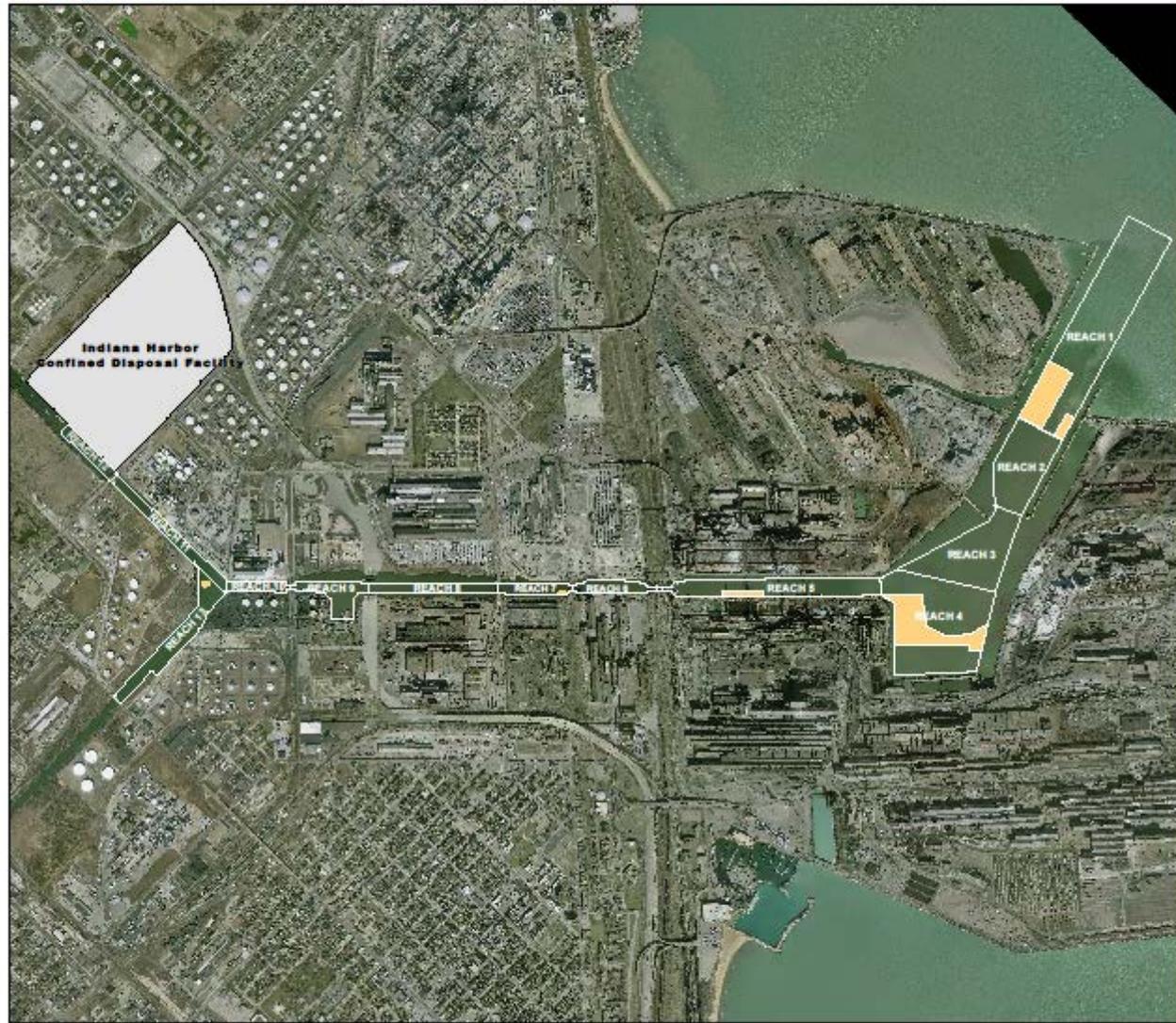
US Army Corps
of Engineers





Indiana Harbor Dredging Area 2014

U.S. Army Corps
of Engineers
Chicago District



Legend

- Federal Channel
- 2014 Dredging Area



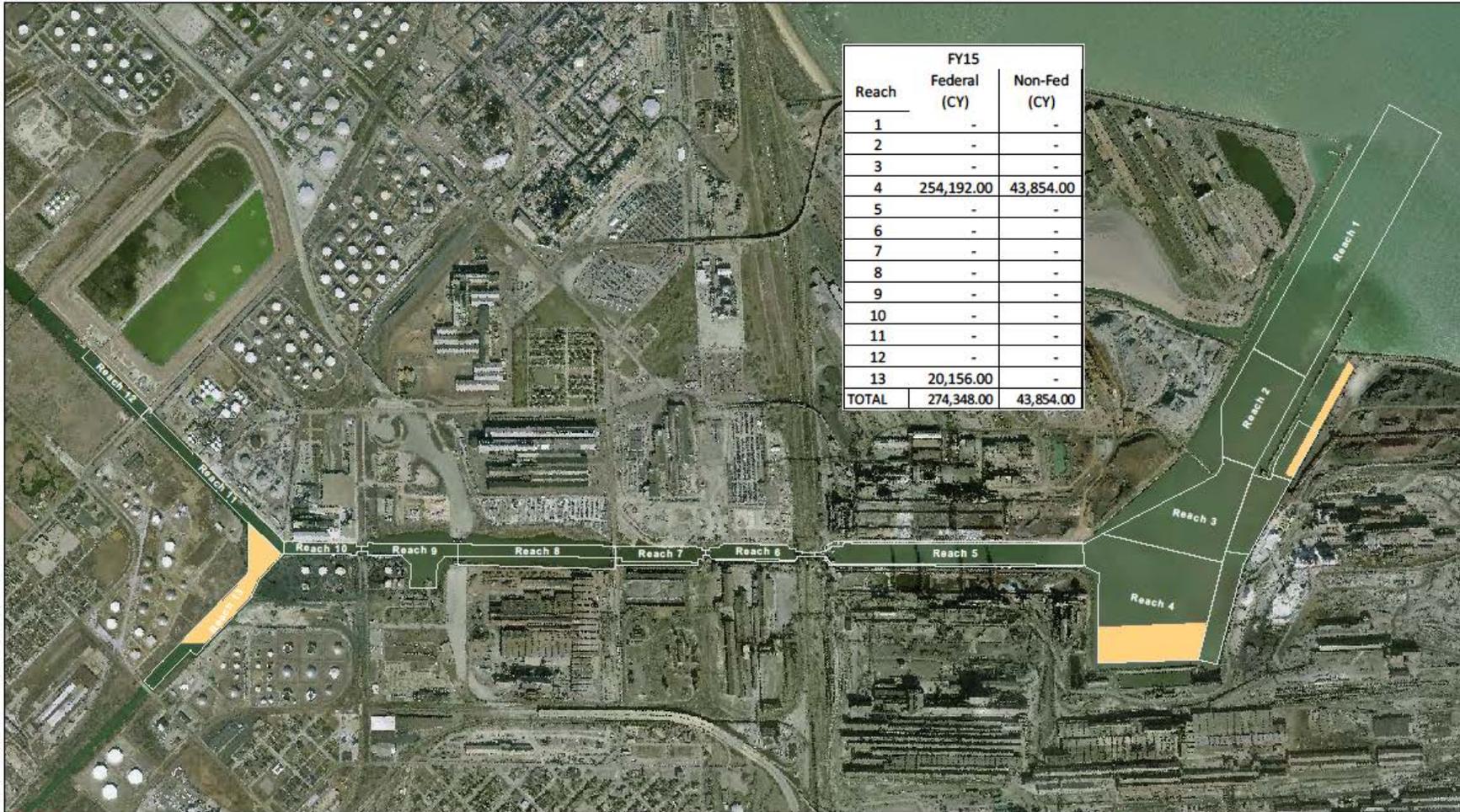
Date: 1/9/2015

1:2,500,000



**US Army Corps
of Engineers**





 **U.S. Army Corps Of Engineers**®

Legend

-  2015 Dredging Area
-  Reaches

 1 inch = 1,250 feet

0 500 1,000 2,000 3,000 4,000

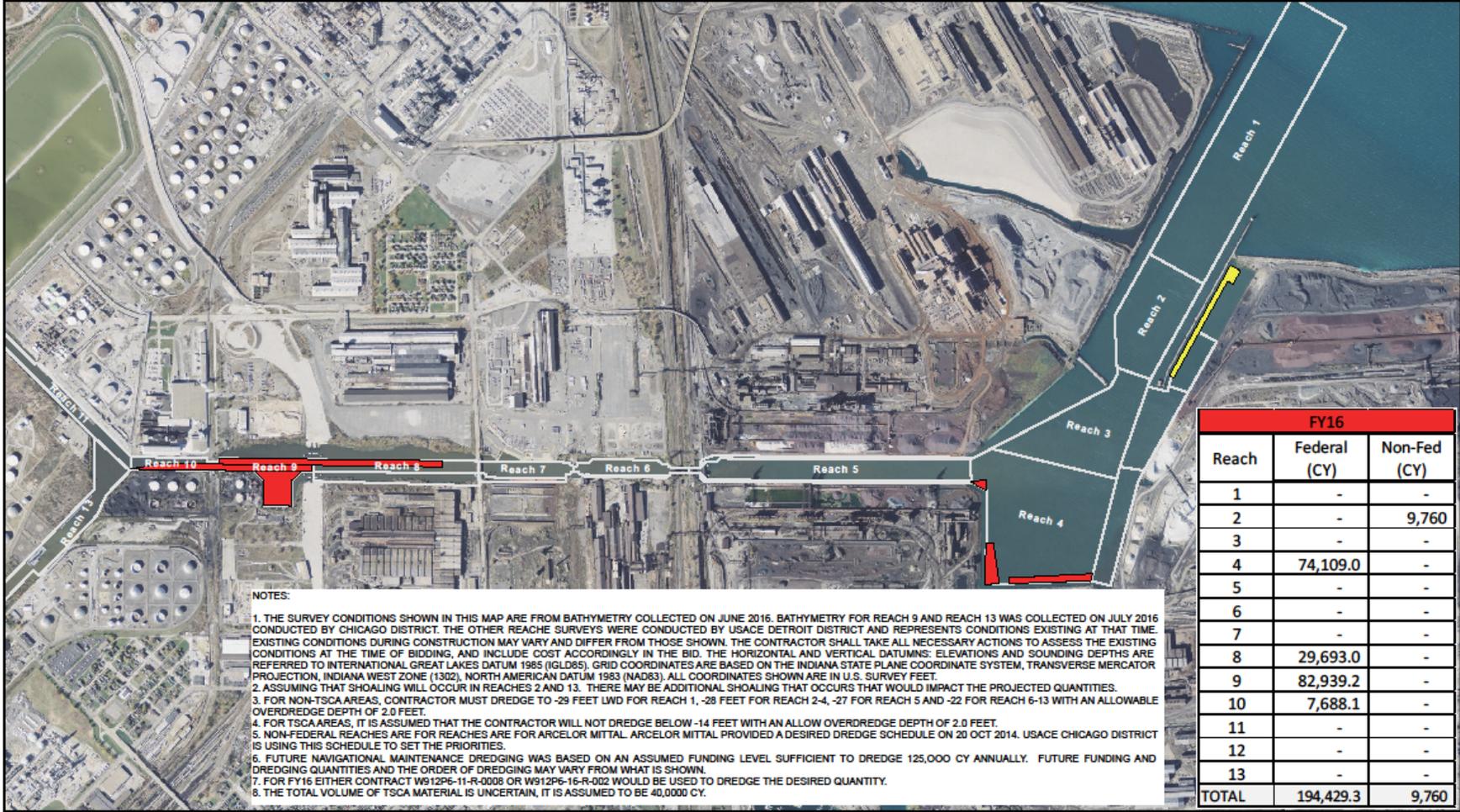
Feet

Indiana Harbor
Dredging Material Removed
Chicago District, U.S. Army Corps of Engineers

For Official Use Only
December, 2015

FY15





NOTES:

1. THE SURVEY CONDITIONS SHOWN IN THIS MAP ARE FROM BATHYMETRY COLLECTED ON JUNE 2016. BATHYMETRY FOR REACH 9 AND REACH 13 WAS COLLECTED ON JULY 2016 CONDUCTED BY CHICAGO DISTRICT. THE OTHER REACHE SURVEYS WERE CONDUCTED BY USACE DETROIT DISTRICT AND REPRESENTS CONDITIONS EXISTING AT THAT TIME. EXISTING CONDITIONS DURING CONSTRUCTION MAY VARY AND DIFFER FROM THOSE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY ACTIONS TO ASSESS THE EXISTING CONDITIONS AT THE TIME OF BIDDING, AND INCLUDE COST ACCORDINGLY IN THE BID. THE HORIZONTAL AND VERTICAL DATUMS: ELEVATIONS AND SOUNDING DEPTHS ARE REFERRED TO INTERNATIONAL GREAT LAKES DATUM 1985 (IGLD85). GRID COORDINATES ARE BASED ON THE INDIANA STATE PLANE COORDINATE SYSTEM, TRANSVERSE MERCATOR PROJECTION, INDIANA WEST ZONE (1302), NORTH AMERICAN DATUM 1983 (NAD83). ALL COORDINATES SHOWN ARE IN U.S. SURVEY FEET.
2. ASSUMING THAT SHOALING WILL OCCUR IN REACHES 2 AND 13. THERE MAY BE ADDITIONAL SHOALING THAT OCCURS THAT WOULD IMPACT THE PROJECTED QUANTITIES.
3. FOR NON-TSCA AREAS, CONTRACTOR MUST DREDGE TO -29 FEET LWD FOR REACH 1, -28 FEET FOR REACH 2-4, -27 FOR REACH 5 AND -22 FOR REACH 6-13 WITH AN ALLOWABLE OVERDREDGE DEPTH OF 2.0 FEET.
4. FOR TSCA AREAS, IT IS ASSUMED THAT THE CONTRACTOR WILL NOT DREDGE BELOW -14 FEET WITH AN ALLOW OVERDREDGE DEPTH OF 2.0 FEET.
5. NON-FEDERAL REACHES ARE FOR REACHES ARE FOR ARCELOR MITTAL. ARCELOR MITTAL PROVIDED A DESIRED DREDGE SCHEDULE ON 20 OCT 2014. USACE CHICAGO DISTRICT IS USING THIS SCHEDULE TO SET THE PRIORITIES.
6. FUTURE NAVIGATIONAL MAINTENANCE DREDGING WAS BASED ON AN ASSUMED FUNDING LEVEL SUFFICIENT TO DREDGE 125,000 CY ANNUALLY. FUTURE FUNDING AND DREDGING QUANTITIES AND THE ORDER OF DREDGING MAY VARY FROM WHAT IS SHOWN.
7. FOR FY16 EITHER CONTRACT W912P6-11-R-0006 OR W912P6-16-R-002 WOULD BE USED TO DREDGE THE DESIRED QUANTITY.
8. THE TOTAL VOLUME OF TSCA MATERIAL IS UNCERTAIN, IT IS ASSUMED TO BE 40,000 CY.

Reach	FY16	
	Federal (CY)	Non-Fed (CY)
1	-	-
2	-	9,760
3	-	-
4	74,109.0	-
5	-	-
6	-	-
7	-	-
8	29,693.0	-
9	82,939.2	-
10	7,688.1	-
11	-	-
12	-	-
13	-	-
TOTAL	194,429.3	9,760

U.S. Army Corps of Engineers®

Legend

Federal

Non-Federal

Reaches

1 inch = 1,188 feet

0
500
1,000
2,000
3,000
4,000

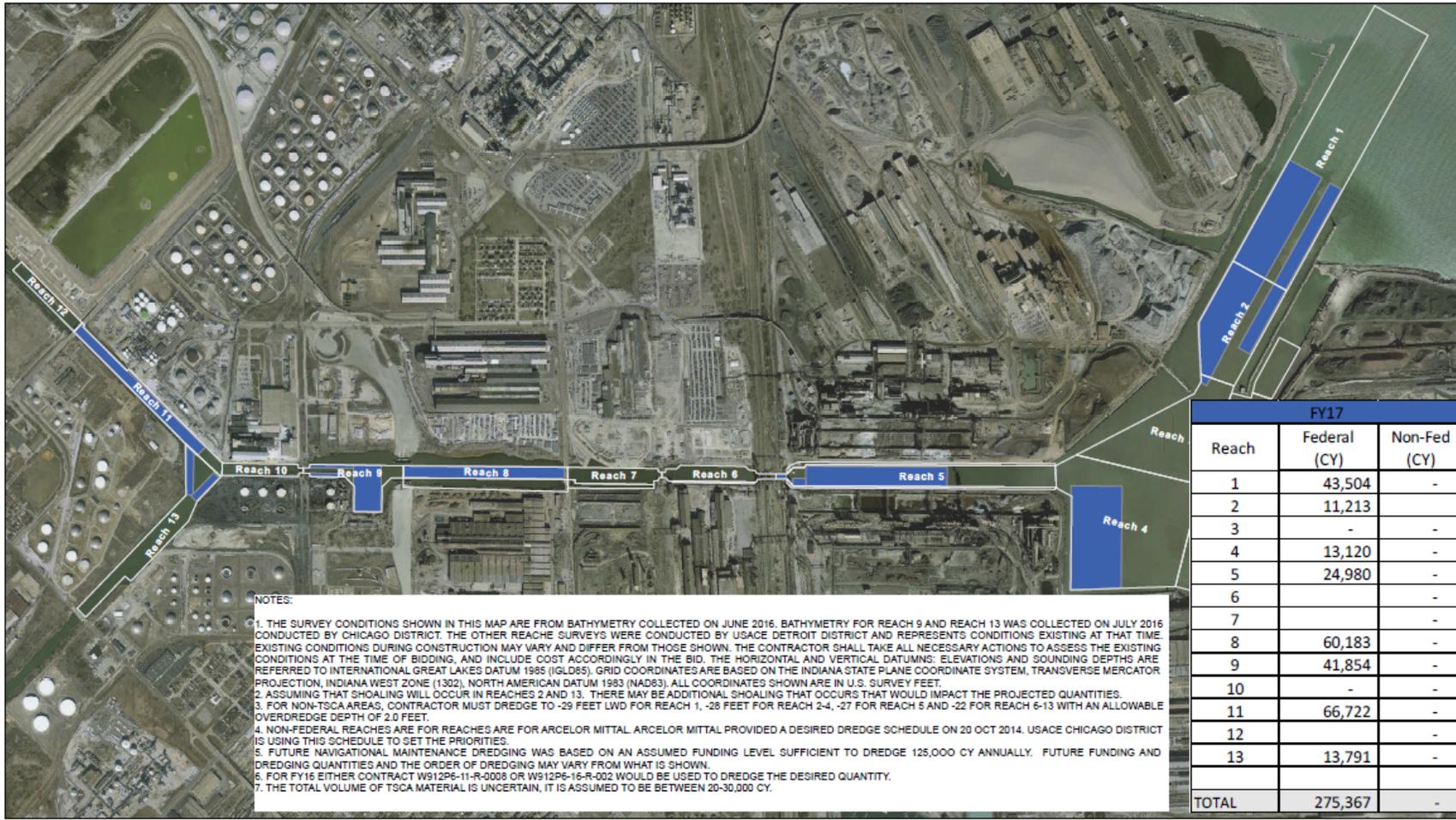
Feet

Indiana Harbor For Official Use Only
Dredging Material to Remove November, 2016

FY16

Chicago District, U.S. Army Corps of Engineers





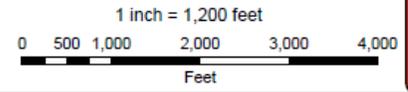
NOTES:

1. THE SURVEY CONDITIONS SHOWN IN THIS MAP ARE FROM BATHYMETRY COLLECTED ON JUNE 2016. BATHYMETRY FOR REACH 9 AND REACH 13 WAS COLLECTED ON JULY 2016 CONDUCTED BY CHICAGO DISTRICT. THE OTHER REACH SURVEYS WERE CONDUCTED BY USACE DETROIT DISTRICT AND REPRESENTS CONDITIONS EXISTING AT THAT TIME. EXISTING CONDITIONS DURING CONSTRUCTION MAY VARY AND DIFFER FROM THOSE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY ACTIONS TO ASSESS THE EXISTING CONDITIONS AT THE TIME OF BIDDING, AND INCLUDE COST ACCORDINGLY IN THE BID. THE HORIZONTAL AND VERTICAL DATUMS: ELEVATIONS AND SOUNDING DEPTHS ARE REFERRED TO INTERNATIONAL GREAT LAKES DATUM 1995 (IGLD85). GRID COORDINATES ARE BASED ON THE INDIANA STATE PLANE COORDINATE SYSTEM, TRANSVERSE MERCATOR PROJECTION, INDIANA WEST ZONE (1302), NORTH AMERICAN DATUM 1983 (NAD83). ALL COORDINATES SHOWN ARE IN U.S. SURVEY FEET.
2. ASSUMING THAT SHOALING WILL OCCUR IN REACHES 2 AND 13. THERE MAY BE ADDITIONAL SHOALING THAT OCCURS THAT WOULD IMPACT THE PROJECTED QUANTITIES.
3. FOR NON-TSCA AREAS, CONTRACTOR MUST DREDGE TO -29 FEET LWD FOR REACH 1, -28 FEET FOR REACH 2-4, -27 FOR REACH 5 AND -22 FOR REACH 6-13 WITH AN ALLOWABLE OVERDREDGE DEPTH OF 2.0 FEET.
4. NON-FEDERAL REACHES ARE FOR ARCELOR MITTAL. ARCELOR MITTAL PROVIDED A DESIRED DREDGE SCHEDULE ON 20 OCT 2014. USACE CHICAGO DISTRICT IS USING THIS SCHEDULE TO SET THE PRIORITIES.
5. FUTURE NAVIGATIONAL MAINTENANCE DREDGING WAS BASED ON AN ASSUMED FUNDING LEVEL SUFFICIENT TO DREDGE 125,000 CY ANNUALLY. FUTURE FUNDING AND DREDGING QUANTITIES AND THE ORDER OF DREDGING MAY VARY FROM WHAT IS SHOWN.
6. FOR FY16 EITHER CONTRACT W912P6-11-R-0005 OR W912P6-15-R-002 WOULD BE USED TO DREDGE THE DESIRED QUANTITY.
7. THE TOTAL VOLUME OF TSCA MATERIAL IS UNCERTAIN, IT IS ASSUMED TO BE BETWEEN 20-30,000 CY.

Reach	FY17	
	Federal (CY)	Non-Fed (CY)
1	43,504	-
2	11,213	-
3	-	-
4	13,120	-
5	24,980	-
6	-	-
7	-	-
8	60,183	-
9	41,854	-
10	-	-
11	66,722	-
12	-	-
13	13,791	-
TOTAL	275,367	-

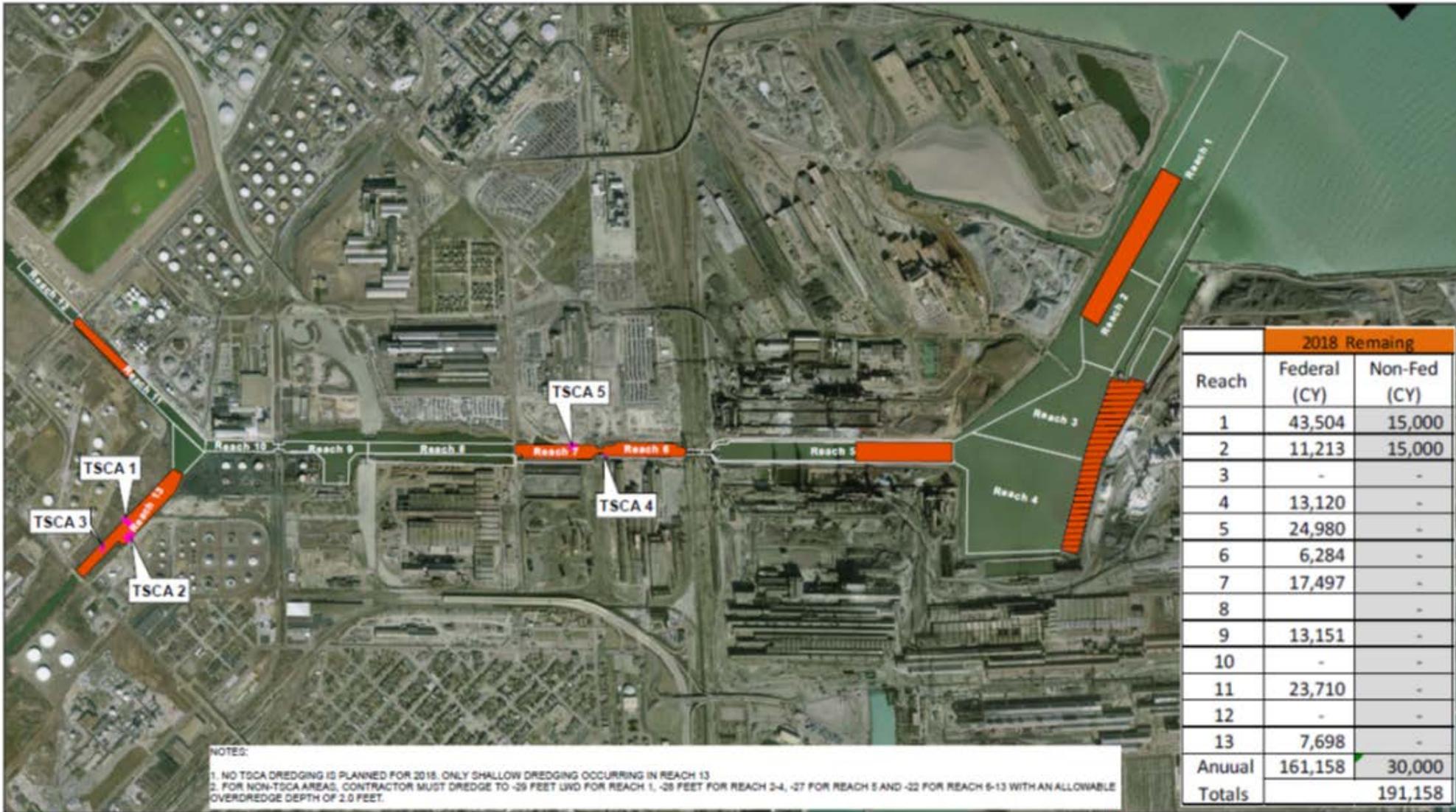


Legend
 Reaches
 Dredging_Location_2017



Indiana Harbor For Official Use Only
Dredging Material to Remove October 2017
FY17
 Chicago District, U.S. Army Corps of Engineers





NOTES:
 1. NO TSCA DREDGING IS PLANNED FOR 2018. ONLY SHALLOW DREDGING OCCURRING IN REACH 13
 2. FOR NON-TSCA AREAS, CONTRACTOR MUST DREDGE TO -29 FEET LWD FOR REACH 1, -28 FEET FOR REACH 2-4, -27 FOR REACH 5 AND -22 FOR REACH 6-13 WITH AN ALLOWABLE OVEREDGE DEPTH OF 2.0 FEET.

U.S. Army Corps
Of Engineers ©

Legend

TSCA

Federal

Non-Federal

Reaches

1 inch = 1,333 feet

0 550 1,100 2,200 3,300 4,400
Feet

Indiana Harbor
Dredging Material to Remove

Chicago District, U.S. Army Corps of Engineers

June 2018

FY18



2017/2018 DREDGING CYCLE

- Dredging started September through November 2017 – 94,054 Cubic Yards (CY) dredged
- Initiated 2018 dredging in June – 74,000 CY dredged to date
- 2018 dredging to continue through September 2018
- 2017/2018 Ordered Quantities
 - 220,000 cy Federal channel
 - *30,000 cy non-Federal dockface*
- Water treated and discharged = 3.9 million gallons since 6 Aug 2018



QUESTIONS?

