



# Public Notice

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U.S. Army Corps  
of Engineers  
Tulsa District

Reply To:

U.S. Army Corps of Engineers  
ATTN: Regulatory Office  
1645 South 101st East Avenue  
Tulsa, Oklahoma 74128-4609

SWT-2016-386  
Public Notice No.

November 4, 2016  
Public Notice Date

December 5, 2016  
Expiration Date

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## **PURPOSE**

The purpose of this public notice is to inform you of a proposal for work in which you might be interested and to solicit your comments and information to better enable us to make a reasonable decision on factors affecting the public interest.

## **SECTION 10**

The U.S. Army Corps of Engineers is directed by Congress through Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403) to regulate all work or structures in or affecting the course, condition, or capacity of navigable waters of the United States. The intent of this law is to protect the navigable capacity of waters important to interstate commerce.

## **SECTION 404**

The U.S. Army Corps of Engineers is directed by Congress through Section 404 of the Clean Water Act (33 U.S.C. 1344) to regulate the discharges of dredged and fill material into all waters of the United States. These waters include lakes, rivers, streams, mudflats, sandflats, sloughs, wet meadows, natural ponds, and wetlands adjacent to other waters. The intent of the law is to protect these waters from the indiscriminate discharge of material capable of causing pollution and to restore and maintain their chemical, physical, and biological integrity.

## **NOTICE TO PUBLISHERS**

This public notice has been provided as a public service and may be reprinted at your discretion. However, any cost incurred as a result of reprinting or further distribution shall not be a basis for claim against the Government.



DEPARTMENT OF THE ARMY  
CORPS OF ENGINEERS, TULSA DISTRICT  
1645 SOUTH 101ST EAST AVENUE  
TULSA, OKLAHOMA 74128-4609

Application No. SWT-2016-386

JOINT PUBLIC NOTICE  
U.S. ARMY CORPS OF ENGINEERS  
AND  
OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY (ODEQ)  
(30-DAY COMMENT PERIOD)

Interested parties are hereby notified that the District Engineer (DE) has received an application for a Department of the Army (DA) permit and water quality certification pursuant to Sections 404 and 401 of the Clean Water Act. The ODEQ hereby incorporates this public notice and procedure as its own public notice and procedure by reference thereto.

The application is for the placement of fill material within an unnamed tributary to the North Canadian River and an associated wetland to expand the Oklahoma City Landfill to the north of the existing facility.

Name of Applicant: Mr. Steven Clark  
Oklahoma City Waste Disposal, Inc.  
7600 Southwest 15<sup>th</sup> Street  
Oklahoma City, OK 73128

Name of Agent: Mr. Jonathon Queen  
Weaver Consultants Group, LLC  
6420 Southwest Boulevard, Suite 206  
Fort Worth, TX 76109

Location: The proposed project is in portions of Sections 8 and 9, Township 11 North, Range 4 West, near the intersection of Interstate Highway 40 and Council Road, Oklahoma County, Oklahoma. The project site can be found on the Mustang, Oklahoma 7.5 Minute USGS Quadrangle map at North Latitude 35.44405 and West Longitude 97.63623.

Purpose: The basic purpose of this work is to provide a long-term solid waste landfill. A solid waste landfill is not a water dependent activity. The proposed project would result in the placement of fill material in a special aquatic site.

The overall purpose of the project is to provide a long-term solid waste disposal facility for the City of Oklahoma City and surrounding areas. The applicant's proposed project would provide approximately 23 acres of expansion to the existing Oklahoma City Landfill.

Table of Impacts:

Original Proposal					
Number or Location	Impact Activity	Type of Water	Type of Fill Material	Qty of Material cys below OHWM	Footprint (ac and/or lf)
Unnamed Stream	Placement of Fill Material	Stream	Clean Soil	See below	477 lf
Wetland	Placement of Fill Material	Wetland/ Sand Pit	Clean Soil	Both combined 20,700 cys	6.35 ac
cubic yards (cys), ordinary high water mark (OHWM), acre (ac), linear feet (lf)					

Description of Work: The applicant proposes to place fill material within 6.35 ac of jurisdictional emergent wetland and 477 lf of an unnamed tributary to the North Canadian River. The combined fill below the OHWM is approximately 20,700 cys. Fill material for the proposed project would consist of weathered clay, silt, sand sediment, various shale and sandstone. The fill material that would be placed in waters of the United States would come from on-site excavation associated with the development of the landfill and associated infrastructure in accordance with the ODEQ, FEMA, and this DA permit proposal. The fill material would be excavated, hauled, and placed utilizing standard earthwork equipment.

Avoidance and Minimization Information: The applicant provided the following information with regard to how avoidance and minimization of impacts to aquatic resources was incorporated into the project plan:

The applicant evaluated several options to avoid and minimize impacts to potentially jurisdictional areas located within the northern area of the 417.79 ac landfill permit boundary. Based on the applicant's delineation report, the review area contains a total of 2,290 lf of streams and 9.33 ac of wetlands. The project would result in the avoidance of 1,813 lf of stream and 2.98 ac of wetland. The proposed site design includes two strategically located sediment ponds that would allow stormwater from the landfill to pass through these ponds prior to entering waters of the United States; this would minimize secondary impacts to waters from increased sediments and suspended solids entering the waters. The proposal balances the need to provide for the long-term solid waste disposal needs for Oklahoma City while minimizing the impact to existing waters located on-site. The proposal places a priority on maintaining portions of the existing riparian woodlands, maintaining portions of existing wetlands, creating additional waters of the United States to offset the unavoidable impacts to the unnamed tributary, and creating additional public use area.

Mitigation: Furthermore, the applicant proposes the following as compensatory mitigation for the unavoidable impacts to aquatic resources expected from the proposed project:

To offset 477 lf of stream channel impacts, the applicant is proposing the relocation of a portion of the unnamed tributary resulting in a net drainage length gain of 1,367 lf. The slope of the relocated tributary flowline would be less than the existing creek due to the lengthening of the channel. Therefore, average flow velocities would decrease and erosion potential would be reduced. To offset the impacts to 6.35 ac of emergent wetlands, the applicant proposes to purchase credits sufficient for 6.35 ac of emergent wetlands at the Excel Mitigation Center.

This mitigation plan is the applicant's proposal. The Corps has made no determination at this time with regard to the adequacy of the proposed mitigation relative to the federal mitigation rules and guidance, including Tulsa District's Mitigation and Monitoring Guidelines. The Corps is accepting comments on the need for and nature of the proposed mitigation in addition to comments on the applicant's primary proposal. The Corps bears the final decision on the need for and extent of mitigation required if the project proposed herein is authorized.

Other: The applicant provided the following information: Oklahoma City Waste Disposal, Inc. is the owner of the Oklahoma City Landfill and holder of ODEQ Permit No. 35555018. The facility accepts municipal solid waste and non-hazardous industrial solid waste in accordance with OAC 252:515. Oklahoma City Waste Disposal is a subsidiary of Waste Connections, Inc.

In April 1993, the Corps issued a permit (OKR2003030) for this site that involved the rerouting of an unnamed tributary that was originally located parallel to Campbell Creek. The work authorized by this permit has been completed, and this permit expired in March 1996.

In December 2010, the Corps issued a permit (SWT-2008-657) for this site that involved the relocation of Campbell Creek on the southeast, south, and east side of the site.

In May 2015, the Corps issued a modification to permit (SWT-2008-657) that included minimal revisions to permitted mitigation activities on the southwest and south portions of the site. The work authorized by this permit has been initiated, including the completion of Phase I. The Campbell Creek relocation and other additional work is ongoing, in accordance with permit (SWT-2008-657).

Project Setting: The Oklahoma City Landfill is located in the Cross Timbers ecoregion, which is a transition area between winter wheat growing regions to the west and the forested low mountains of eastern Oklahoma. This region is composed of a mosaic of tall grass prairie and oak-hickory forests. The average annual rainfall for this site is 36 inches per year. The unnamed tributary has a drainage area of approximately 1,500 ac

and is mapped as intermittent on the Quad map. The proposed expansion area is a generally undeveloped portion of the Oklahoma City Landfill at its northern boundary.

Existing Condition: The applicant provided the following information: The Oklahoma City Landfill is south of this expansion area; however, the landfill entrance road, scale house, outbuilding, and parking lot are on the western edge of the Northern Expansion Area. Although undeveloped, an area indicated as "sandpit" on the topographic map is evidence of previous aggregate mining activities on the Northern Expansion Area. The majority of the site is woodlands except for the previous aggregate mining has left an open water pit throughout the central portion of the site. The northwestern corner has been cleared of trees and is dominated by herbaceous vegetation. The North Canadian River forms the eastern boundary of the site.

Forested uplands are the predominant vegetative community within the site. These areas surround much of the centrally located open water pit and wetland. These areas are dominated by deciduous trees with a high percentage of canopy cover. Dominant canopy species include American elm (*Ulmus americana*), sugar hackberry (*Celtis laevigata*), western soapberry (*Sapindus drummondii*), and eastern cottonwood (*Populus deltoides*). The understory consists of American beautyberry (*Callicarpa americana*), greenbrier (*Smilax L.*), giant ragweed (*Ambrosia trifida*), and saplings of the canopy species.

The open water pit and wetland are located completely within the area indicated as "sandpit" on the topographic map. Additionally, this area has evidence of standing water on aerial photography. Vegetation was sparse, primarily consisting of black willow (*Salix nigra*) and cottonwood (*Populus deltoides*) saplings. Some of the drier portions also included round-head rush (*Juncus validus coville*).

An area adjacent to the North Canadian River is characterized as river scour. This area frequently experiences flash floods, but otherwise is well drained. The soils are regularly picked up during flood events and new sediments are deposited as the flood recedes. Vegetation tends to be relatively sparse, with a few black willow (*Salix nigra*) and cottonwood (*Populus deltoides*) trees and clumps of Johnson grass (*Sorghum halepense*), likely due to frequent flooding.

Plans and Data: Plans showing the location of the proposed activity and other data are enclosed with this notice. If additional information is desired, it may be obtained from U.S. Army Corps of Engineers, Tulsa District, ATTN: Regulatory Office, 1645 South 101st East Avenue, Tulsa, OK 74128-4609, or telephone 918-669-7400.

Cultural Resources: The permit (SWT-2008-657) was previously coordinated with both the Oklahoma Historical Society and Oklahoma Archeological Survey, which resulted in a cultural survey. The nearest archeological site (34OK96) identified in that survey was determined to have no affect due to the previous project. The current project is an expansion of the overall landfill site to the north in a previous sand mine pit. This area meets 33 CFR Part 325 Appendix C(3)(b)(1), which represents areas extensively

modified by previous work. This results in little likelihood that historic properties exist or would be affected by the proposed impacts.

The DE has consulted the National Register of Historic Places regarding the potential effects from the proposed action. The DE will comply with the requirements of the National Historic Preservation Act of 1966 for any known or presently unknown historic or archeological resources that may exist in the project vicinity and which could be directly affected by the proposed work. This public notice is being sent to the State Historic Preservation Officer and to Native American Tribal governments to reveal if other known historic or archeological resources that may be eligible for listing in the National Register exist in the project area and which could be directly affected by the proposed work. This coordination is being done to fulfill our requirements under the National Historic Preservation Act of 1966 (Public Law 89-665) and associated historic preservation laws. If we are made aware, as a result of comments received in response to this notice, or by other means, of specific archeological or other historic properties which may be affected by the proposed work, the DE will immediately take the appropriate action necessary pursuant to the National Historic Preservation Act of 1966, as amended, and 36 CFR Part 800, in accordance with implementing regulations 33 CFR 325, Appendix C.

Threatened and Endangered Species: The following federally listed species are known to occur in the vicinity or are listed for the county in which the proposed action is located: Arkansas River shiner (*Notropis girardi*), interior least tern (*Sterna antillarum*), piping plover (*Charadrius melodus*), red knot (*Calidris canutus*), and whooping crane (*Grus americana*). A copy of this notice is being furnished to the U.S. Fish and Wildlife Service and appropriate state agencies. This notice constitutes a request to those agencies for information on whether any other listed or proposed-to-be-listed endangered or threatened species may be present in the area which would be affected by the proposed activity. Our preliminary determination is that the proposed activity would not affect listed threatened or endangered species or their critical habitat.

Environmental Considerations: The decision whether to issue a permit will be based on an evaluation of the probable impacts, including cumulative impacts of the proposed activity and its intended use 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: 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 ownerships, and, in general, the needs and welfare of the people. A permit will be denied if the discharge does not comply with the Environmental Protection Agency's 404(b)(1) Guidelines. Subject to the 404(b)(1) Guidelines and any other applicable guidelines or

criteria, a permit will be granted unless the DE determines that it would be contrary to the public interest.

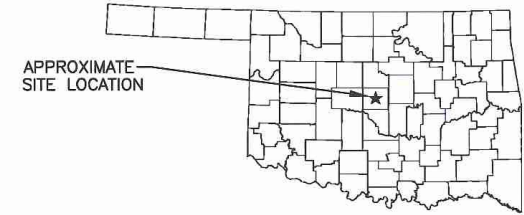
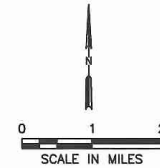
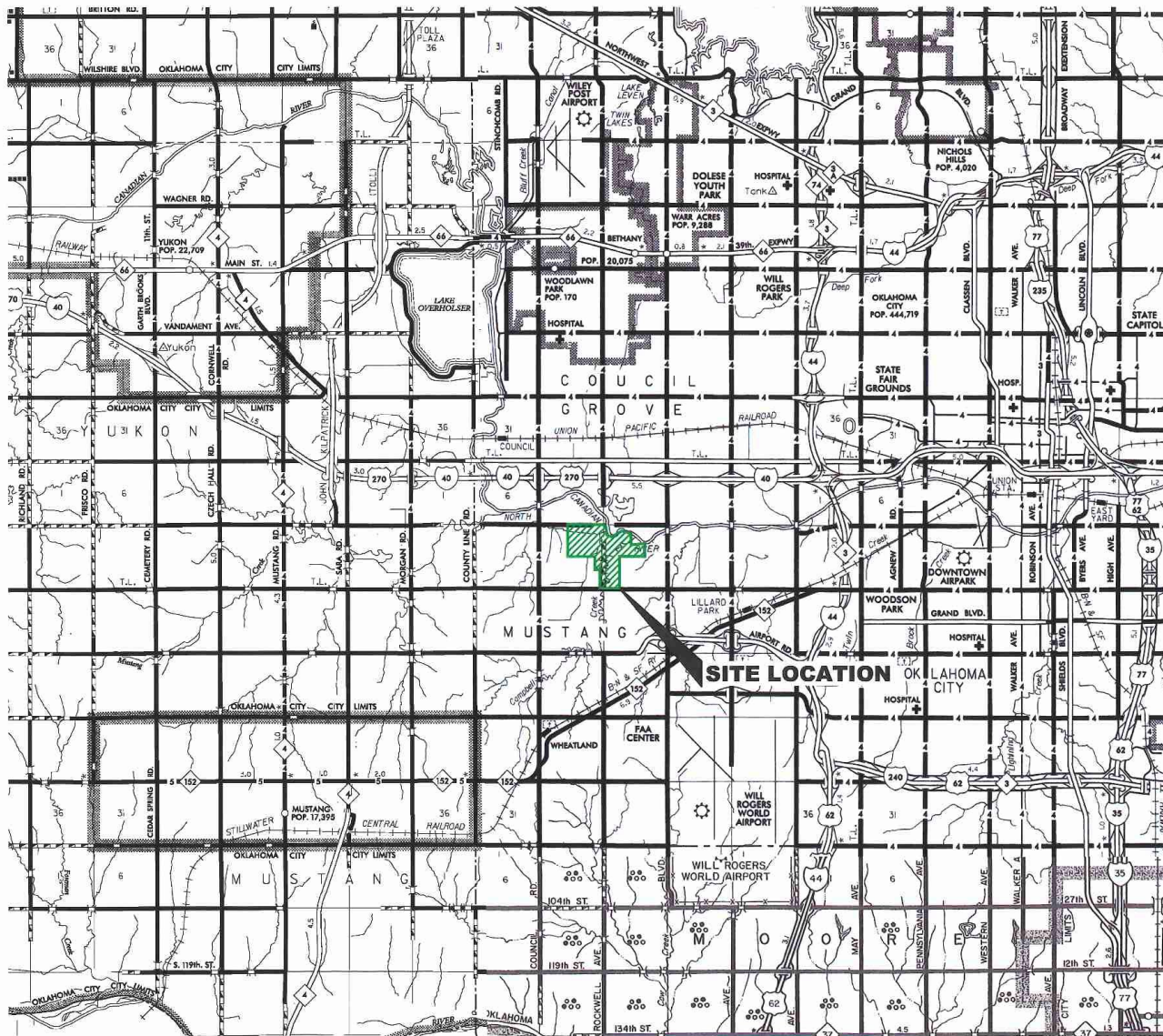
Comments: In order to consider and evaluate the impacts of this proposed activity the Corps is soliciting comments from the public, federal, state, and local agencies and officials, Indian tribes, and other interested parties. Comments concerning the issuance of this permit should be received by the DE no later than 30 days from the date of this public notice. Any comments received will be considered by the Corps 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 the 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. Any person may request in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearings shall state, with particularity, the reasons for holding a public hearing.

At the request of the Oklahoma Water Resources Board's National Flood Insurance Program State Coordinator, we are sending a copy of this notice to the local floodplain administrator to apprise the administrator of proposed development within their jurisdiction. In accordance with 44 CFR Part 60 (Criteria for Land Management and Use), participating communities are required to review all proposed development to determine if a floodplain development permit is required. The local floodplain administrator is required to perform this review for all proposed development and maintain records of such review.

Comments concerning water quality impacts will be forwarded to ODEQ for consideration in issuing a Section 401 Water Quality Certification for the proposed project. Work may **not** commence until decisions have been made on both Sections 401 and 404.

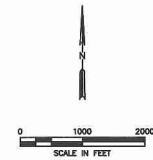
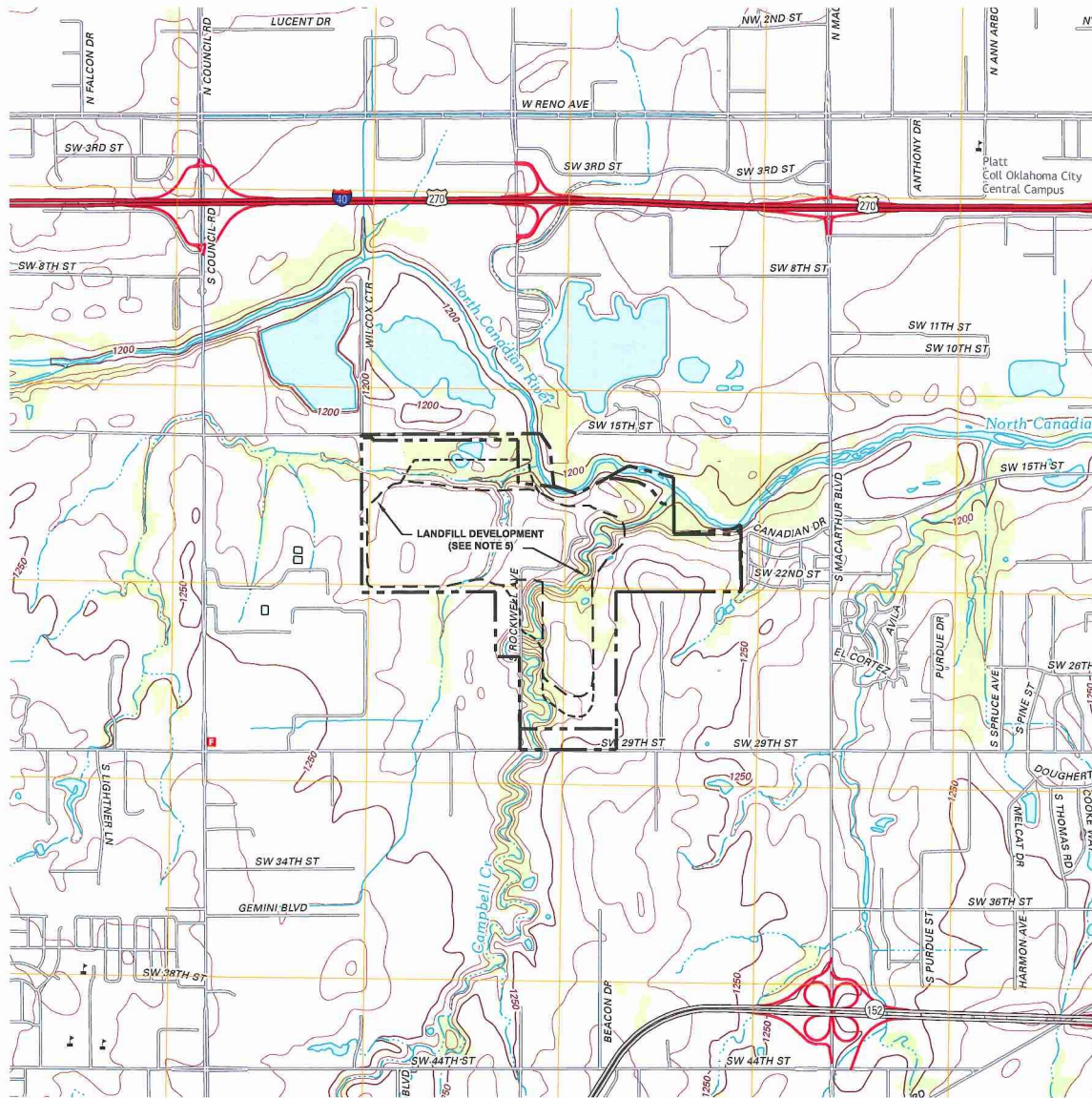
Andrew R. Commer  
Chief, Regulatory Office

Enclosures



SWT-2016-386  
 Oklahoma City Landfill  
 Oklahoma City, Oklahoma  
 Unnamed tributary of the North Canadian River  
 Enclosure 1 of 15





**LEGEND**

	EXISTING PERMIT BOUNDARY
	PERMITTED LIMIT OF WASTE
	PROPOSED PERMIT BOUNDARY
	PROPOSED LIMIT OF WASTE

**ROAD CLASSIFICATION**

Interstate Route		State Route	
US Route		Local Road	
Ramp		4WD	

Interstate Route    
 US Route    
 State

MUSTANG, OK  
2012

OKLAHOMA CITY, OK  
2012

- NOTES:**
1. ADAPTED FROM USGS 7.5 MINUTE QUADRANGLE TOPOGRAPHIC MAP (MUSTANG, OK 2012 AND OKLAHOMA CITY, OK 2012).
  2. THE MAP AREA SHOWN IS WITHIN SECTIONS 8 AND 9 OF TOWNSHIP 11 NORTH, RANGE 4 WEST.
  3. THE PERMIT BOUNDARY WAS REPRODUCED FROM A LEGAL DESCRIPTION PREPARED BY LEMKE LAND SURVEYING, INC.
  4. THE PRIMARY SITE ACCESS ROAD TO THE SITE IS 15TH STREET.
  5. LANDFILL DEVELOPMENT AND OPERATIONS HAS OCCURRED IN THIS AREA FOR OVER 30 YEARS. THIS SITE IS CURRENTLY BEING DEVELOPED IN ACCORDANCE WITH ODEQ, FEMA, USACE, AND OKLAHOMA CITY PERMITS. TOPOGRAPHY AND DRAINAGE SHOWN ON THIS USGS MAP IS NOT CONSISTENT WITH ACTUAL SITE CONDITIONS.

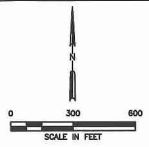
<input type="checkbox"/> DRAFT <input checked="" type="checkbox"/> FOR PERMITTING PURPOSES ONLY <input type="checkbox"/> ISSUED FOR CONSTRUCTION	PREPARED FOR <b>OKLAHOMA CITY WASTE DISPOSAL, INC.</b>	<b>SECTION 404 PERMIT GENERAL TOPOGRAPHIC MAP</b>
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DATE: 06/2016  
 FILE: 0901-01-1  
 CAD: FIG 2-SITE

**SWT-2016-386**  
 Oklahoma City Landfill  
 Oklahoma City, Oklahoma  
 Unnamed tributary of the North Canadian River  
 Enclosure 2 of 15

O:\0901\01\SECTION 404 INDIVIDUAL PERMIT\NORTH PERMIT\2-SITE LOC MAP.dwg, P.murphy, 1:2

G:\0601\01\SECTION 404 INDIVIDUAL PERMIT\NORTH PERMIT\3-GENERAL SITE MAP.dwg, r.morris, 1/2



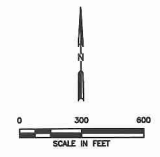
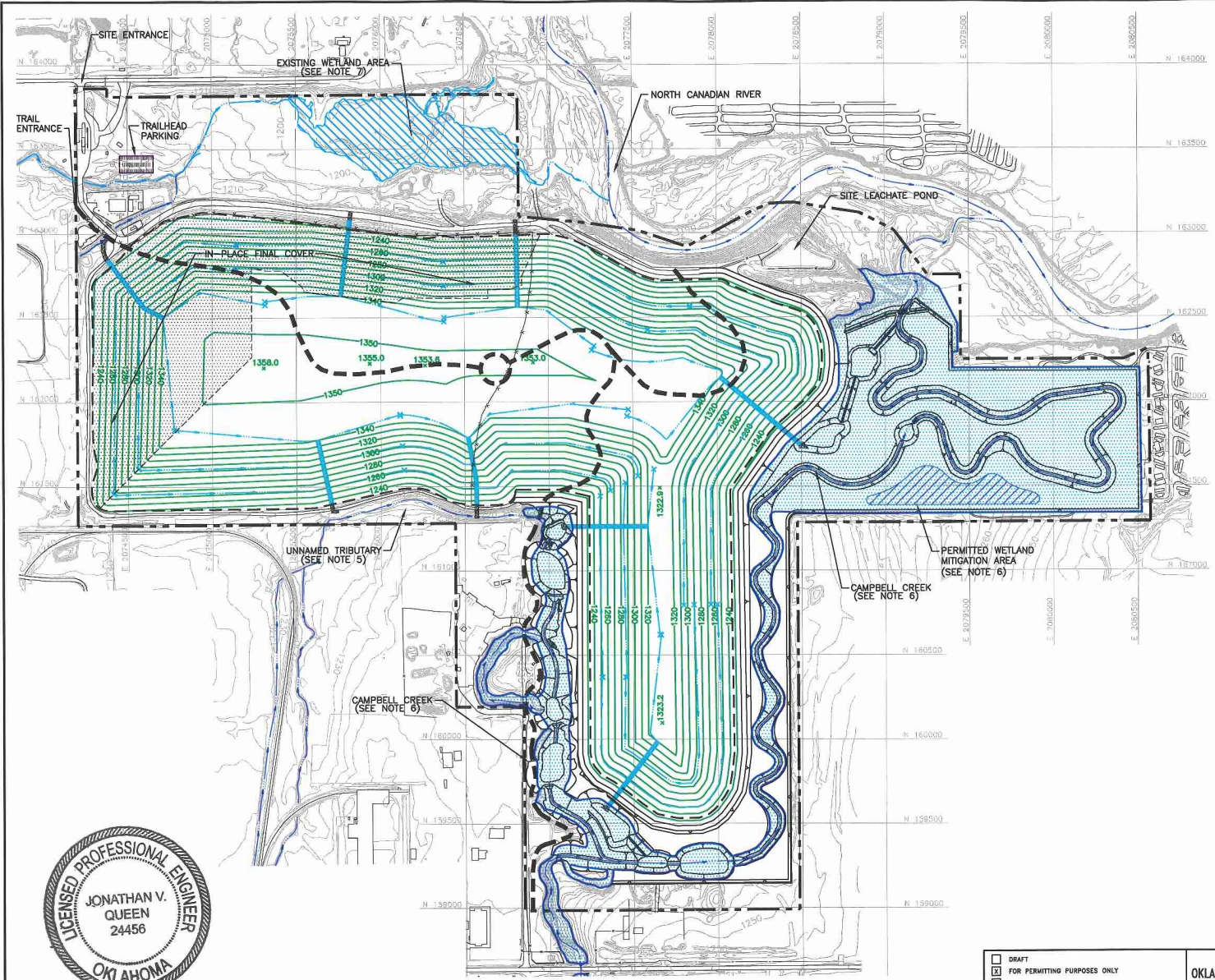
- LEGEND**
- EXISTING PERMIT BOUNDARY
  - PROPOSED PERMIT BOUNDARY
  - PERMITTED LIMIT OF WASTE
  - CONSTRUCTED LIMIT OF WASTE
  - PROPOSED LIMIT OF WASTE
  - STATE PLANE GRID COORDINATE
  - EXISTING CONTOUR
  - FENCE
  - IN-PLACE FINAL COVER
  - NORTH CANADIAN RIVER/CAMPBELL CREEK/TRIBUTARY/ CHANNEL APPROXIMATE CENTERLINE
  - PERMITTED RELOCATED CAMPBELL CREEK CENTERLINE
  - WATERS OF THE STATE WETLAND MITIGATION AREA (SEE NOTE 5)
  - DELINEATED TRIBUTARY CENTERLINE (NORTH AREA)
  - PROPOSED RELOCATED CENTERLINE (NORTH AREA)
  - WETLAND AREA (NORTH AREA)

- NOTES:**
1. EXISTING CONTOURS AND ELEVATIONS PROVIDED BY SIDWELL COMPANY COMPILED FROM AERIAL PHOTOGRAPHY FLOWN 04-03-2016. EXISTING CONTOURS AND ELEVATIONS OUTSIDE THE PERMIT BOUNDARY PROVIDED BY SIDWELL COMPANY COMPILED FROM AERIAL PHOTOGRAPHY FLOWN 03-15-15, 03-26-2012 AND 03-10-2008.
  2. PERMIT BOUNDARY WAS REPRODUCED FROM LEGAL DESCRIPTION PREPARED BY LEMKE LAND SURVEYING, INC.
  3. EXISTING 150-FOOT OG&E EASEMENT WILL BE RELOCATED PRIOR TO DEVELOPMENT IN THIS AREA.
  4. IN APRIL 1993, THE USAGE ISSUED A PERMIT (USAGE PERMIT NO. OKR2005030) FOR THIS SITE WHICH INVOLVED THE RE-ROUTING OF AN UNNAMED TRIBUTARY THAT WAS ORIGINALLY LOCATED PARALLEL TO CAMPBELL CREEK. THE WORK AUTHORIZED BY THIS PERMIT HAS BEEN COMPLETED, AND THIS PERMIT EXPIRED IN MARCH 1996. SEE SECTION 1.3 OF THE MITIGATION PLAN FOR ADDITIONAL INFORMATION.
  5. COMPLETED AND PERMITTED CAMPBELL CREEK RELOCATION ACTIVITIES ARE PERMITTED UNDER USAGE SECTION 404 INDIVIDUAL PERMIT SWT-2008-657, ORIGINALLY APPROVED ON DECEMBER 8, 2010 AND APPROVED WITH MODIFICATIONS ON MAY 7, 2015. THIS AREA WILL CONTINUE TO BE DEVELOPED IN ACCORDANCE WITH SWT-2008-657.
  6. SECTION 404 JURISDICTIONAL AREAS INCLUDE AN UNNAMED WEST TO EAST TRIBUTARY, NORTH CANADIAN RIVER AND WETLAND AREA (REFER TO APPENDIX A FOR MORE INFORMATION).

<input type="checkbox"/> DRAFT <input checked="" type="checkbox"/> FOR PERMITTING PURPOSES ONLY <input type="checkbox"/> ISSUED FOR CONSTRUCTION	PREPARED FOR	SECTION 404 PERMIT
	OKLAHOMA CITY WASTE DISPOSAL, INC.	GENERAL SITE MAP
DATE: 06/20/16 FILE: 0601-01- CAD: 3-GEN SITE	<div style="border: 2px solid black; padding: 5px;"> <p style="font-size: 24pt; margin: 0;">SWT-2016-386</p> <p style="font-size: 18pt; margin: 0;">Oklahoma City Landfill</p> <p style="font-size: 18pt; margin: 0;">Oklahoma City, Oklahoma</p> <p style="font-size: 18pt; margin: 0;">Unnamed tributary of the North Canadian River</p> <p style="font-size: 18pt; margin: 0;">Enclosure 3 of 15</p> </div>	

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0:0601\01\SECTION 404 INDIVIDUAL PERMIT\NORTH PERMIT\4-EXISTING FERM DRAINAGE PLAN.dwg, r.morris, 1/2



- LEGEND**
- EXISTING PERMIT BOUNDARY
  - PERMITTED LIMITS OF WASTE
  - STATE PLANE GRID COORDINATE
  - EXISTING CONTOUR
  - PERMITTED FINAL COVER CONTOUR
  - PERMITTED DRAINAGE SWALE
  - PERMITTED DRAINAGE CHUTE
  - PERMITTED DRAINAGE CHANNEL
  - RIPRAP/GABIIONS
  - IN-PLACE FINAL COVER
  - 100-YEAR FLOODPLAIN (SEE NOTE 3)
  - TRAIL SYSTEM
  - 8-FOOT HIGH CHAIN LINK FENCE
  - DELINEATED TRIBUTARY CENTERLINE (NORTH AREA)
  - WETLAND AREA (NORTH AREA)
  - WATERS OF THE STATE WETLAND MITIGATION AREA (SEE NOTE 6)

- NOTES:**
1. EXISTING CONTOURS AND ELEVATIONS PROVIDED BY SIDWELL COMPANY COMPILED FROM AERIAL PHOTOGRAPHY FLOWN 04-03-2016. EXISTING CONTOURS AND ELEVATIONS OUTSIDE THE PERMIT BOUNDARY PROVIDED BY SIDWELL COMPANY COMPILED FROM AERIAL PHOTOGRAPHY FLOWN 03-15-15, 03-26-2012 AND 03-10-2008.
  2. PERMIT BOUNDARY WAS REPRODUCED FROM LEGAL DESCRIPTION PREPARED BY LEMKE LAND SURVEYING, INC.
  3. RELOCATED CAMPBELL CREEK 100-YEAR FLOODPLAIN REPRODUCED FROM THE POST-PROJECT CONDITION ANALYSIS INCLUDED IN THE APPROVED CLOMR (CASE NO. 09-06-0988R) PREPARED BY WEAVER BOOS CONSULTANTS, LLC-SOUTHWEST.
  4. PERMITTED FINAL COVER CONTOURS WERE REPRODUCED FROM THE TIER III PERMIT MODIFICATION LANDFILL EXPANSION, PREPARED BY WEAVER BOOS CONSULTANTS, LLC-SOUTHWEST IN MARCH 2013.
  5. IN APRIL 1993, THE USACE ISSUED A PERMIT (USACE PERMIT NO. OKR2003030) FOR THIS SITE WHICH INVOLVED THE RE-ROUTING OF AN UNNAMED TRIBUTARY THAT WAS ORIGINALLY LOCATED PARALLEL TO CAMPBELL CREEK. THE WORK AUTHORIZED BY THIS PERMIT HAS BEEN COMPLETED, AND THIS PERMIT EXPIRED IN MARCH 1996. SEE SECTION 1.3 OF THE MITIGATION PLAN FOR ADDITIONAL INFORMATION.
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*JVQ*  
6/13/16

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<input type="checkbox"/> DRAFT <input checked="" type="checkbox"/> FOR PERMITTING PURPOSES ONLY <input checked="" type="checkbox"/> ISSUED FOR CONSTRUCTION	PREPARED FOR <b>OKLAHOMA CITY WASTE DISPOSAL, INC.</b>	<b>SECTION 404 PERMIT EXISTING PERMITTED FINAL CONTOUR PLAN</b>
DATE: 06/2016 FILE: 0601-01- CAD: 4-EXISTING	DRAWN BY: WCA REVISIONS	

SWT-2016-386

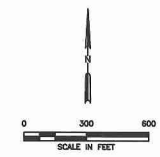
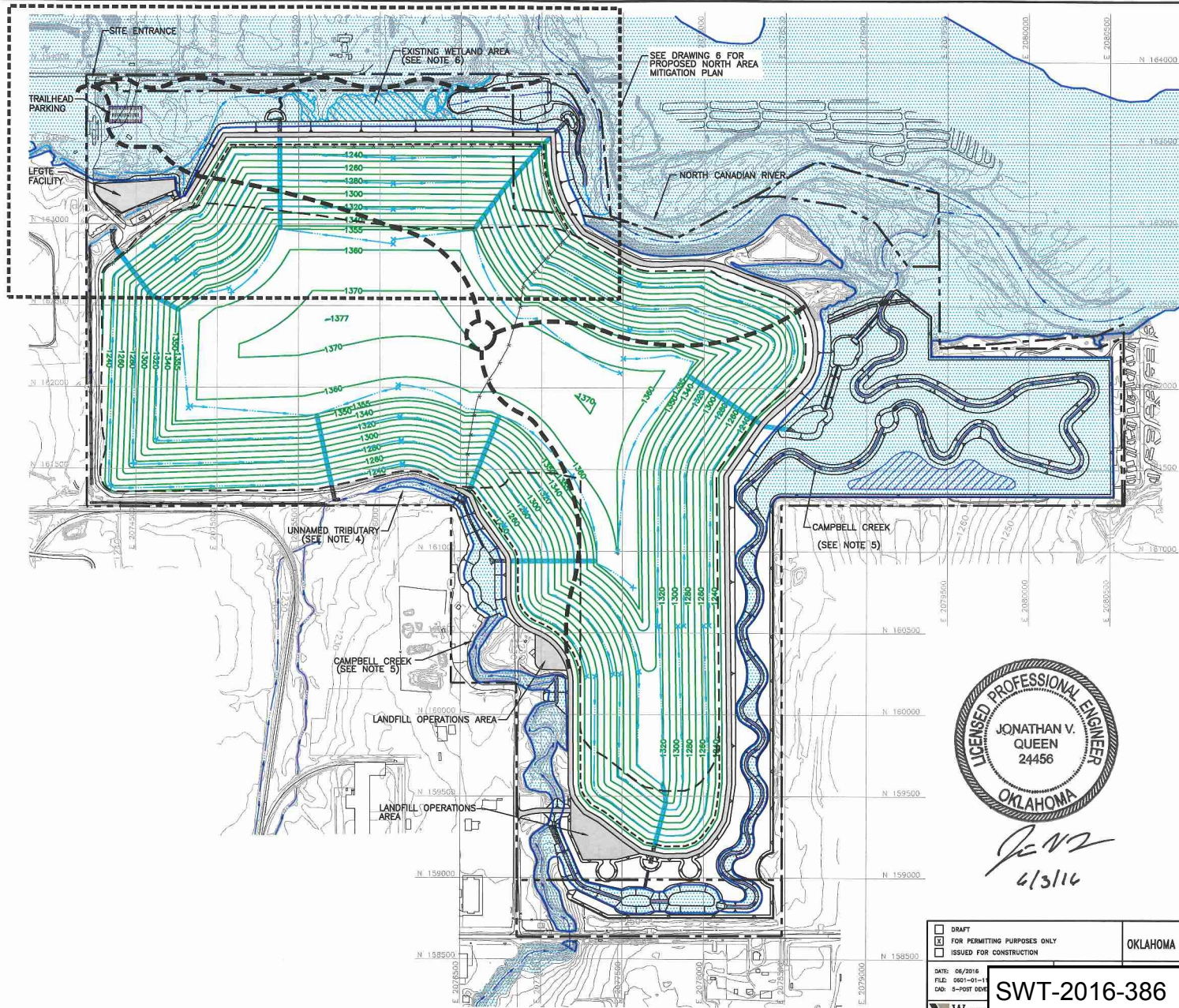
Oklahoma City Landfill

Oklahoma City, Oklahoma

Unnamed tributary of the North Canadian River

Enclosure 4 of 15

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**LEGEND**

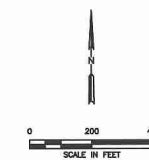
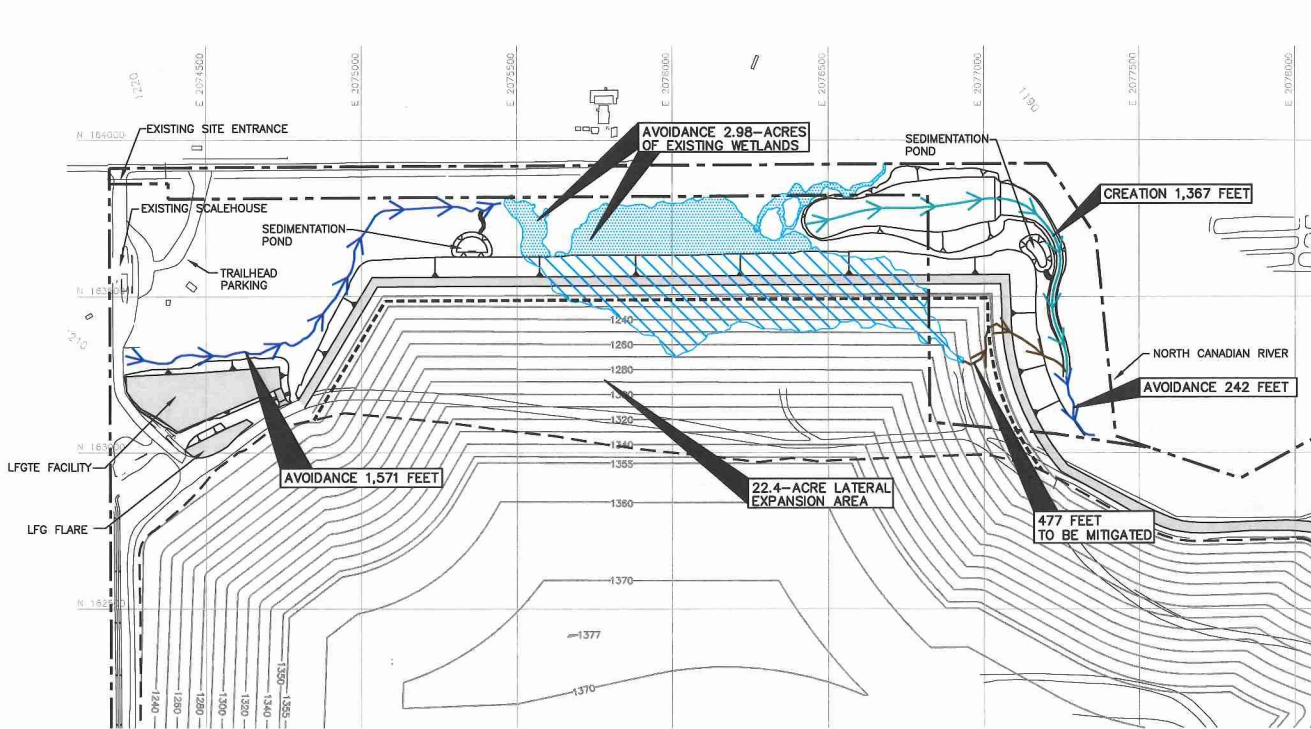
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- PROPOSED LIMITS OF WASTE
- STATE PLANE GRID COORDINATE
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- PROPOSED DRAINAGE CHUTE
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- 100-YEAR FLOODPLAIN (SEE NOTE 3)
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- 8-FOOT HIGH CHAIN LINK FENCE
- DELINEATED TRIBUTARY CENTERLINE (NORTH AREA)
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  2. PERMIT BOUNDARY WAS REPRODUCED FROM LEGAL DESCRIPTION PREPARED BY LEMKE LAND SURVEYING, INC.
  3. CAMPBELL CREEK AND NORTH CANADIAN RIVER 100-YEAR FLOODPLAINS REPRODUCED FROM THE POST-PROJECT CONDITION ANALYSIS INCLUDED IN THE CLOMR (CASE NO. 14-06-4593R) PREPARED BY WBC AND DATED APRIL 2015. THE CLOMR WAS APPROVED BY OKLAHOMA CITY ON AUGUST 2014.
  4. IN APRIL 1993, THE USACE ISSUED A PERMIT (USACE PERMIT NO. OKR2003030) FOR THIS SITE WHICH INVOLVED THE RE-ROUTING OF AN UNNAMED TRIBUTARY THAT WAS ORIGINALLY LOCATED PARALLEL TO CAMPBELL CREEK. THE WORK AUTHORIZED BY THIS PERMIT HAS BEEN COMPLETED, AND THIS PERMIT EXPIRED IN MARCH 1996.
  5. COMPLETED AND PERMITTED CAMPBELL CREEK RELOCATION ACTIVITIES ARE PERMITTED UNDER USACE SECTION 404 INDIVIDUAL PERMIT SWT-2008-657, ORIGINAL APPROVED ON DECEMBER 8, 2010 AND APPROVED WITH MODIFICATIONS ON MAY 7, 2015. THIS AREA WILL CONTINUE TO BE DEVELOPED IN ACCORDANCE WITH SWT-2008-657.



*JVQ*  
6/3/16

<input type="checkbox"/> DRAFT <input checked="" type="checkbox"/> FOR PERMITTING PURPOSES ONLY <input type="checkbox"/> ISSUED FOR CONSTRUCTION	PREPARED FOR <b>OKLAHOMA CITY WASTE DISPOSAL, INC.</b>	<b>SECTION 404 PERMIT PROSPED FINAL CONTOUR PLAN</b>
DATE: 06/20/16 FILE: 0001-01-11 CDR: 5-POST DEV	<div style="border: 1px solid black; padding: 5px; display: inline-block;"> <b>SWT-2016-386</b>  <b>Oklahoma City Landfill</b>  <b>Oklahoma City, Oklahoma</b>  <b>Unnamed tributary of the North Canadian River</b>  <b>Enclosure 5 of 15</b> </div>	



- LEGEND**
- EXISTING PERMIT BOUNDARY
  - PROPOSED PERMIT BOUNDARY
  - PERMITTED LIMIT OF WASTE
  - PROPOSED LIMIT OF WASTE
  - STATE PLANE GRID COORDINATE
  - EXISTING CONTOUR
  - PROPOSED COMPLETION PLAN CONTOUR
  - PROPOSED WATERS OF THE U.S.
  - EXISTING WATERS OF THE U.S. (TO REMAIN)
  - EXISTING WATERS OF THE U.S. (TO BE MITIGATED)
  - EXISTING WETLAND AREA (TO REMAIN)
  - EXISTING WETLAND AREA (TO BE MITIGATED—SEE NOTE 2)

- NOTES:**
- EXISTING CONTOURS AND ELEVATIONS PROVIDED BY SIDWELL COMPANY COMPILED FROM AERIAL PHOTOGRAPHY FLOWN 04-03-2016. EXISTING CONTOURS AND ELEVATIONS OUTSIDE THE PERMIT BOUNDARY PROVIDED BY SIDWELL COMPANY COMPILED FROM AERIAL PHOTOGRAPHY FLOWN 03-15-15, 03-26-2012 AND 03-10-2008.
  - WETLAND MITIGATION TO BE COMPLETED OFFSITE UTILIZING EXCEL MITIGATION CENTER'S DEEP FORK OF THE CANADIAN RIVER MITIGATION AREA.

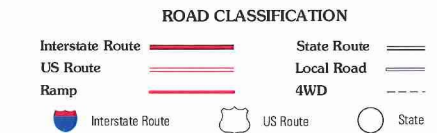
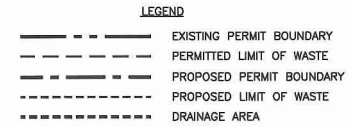
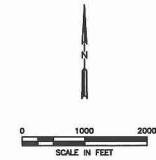
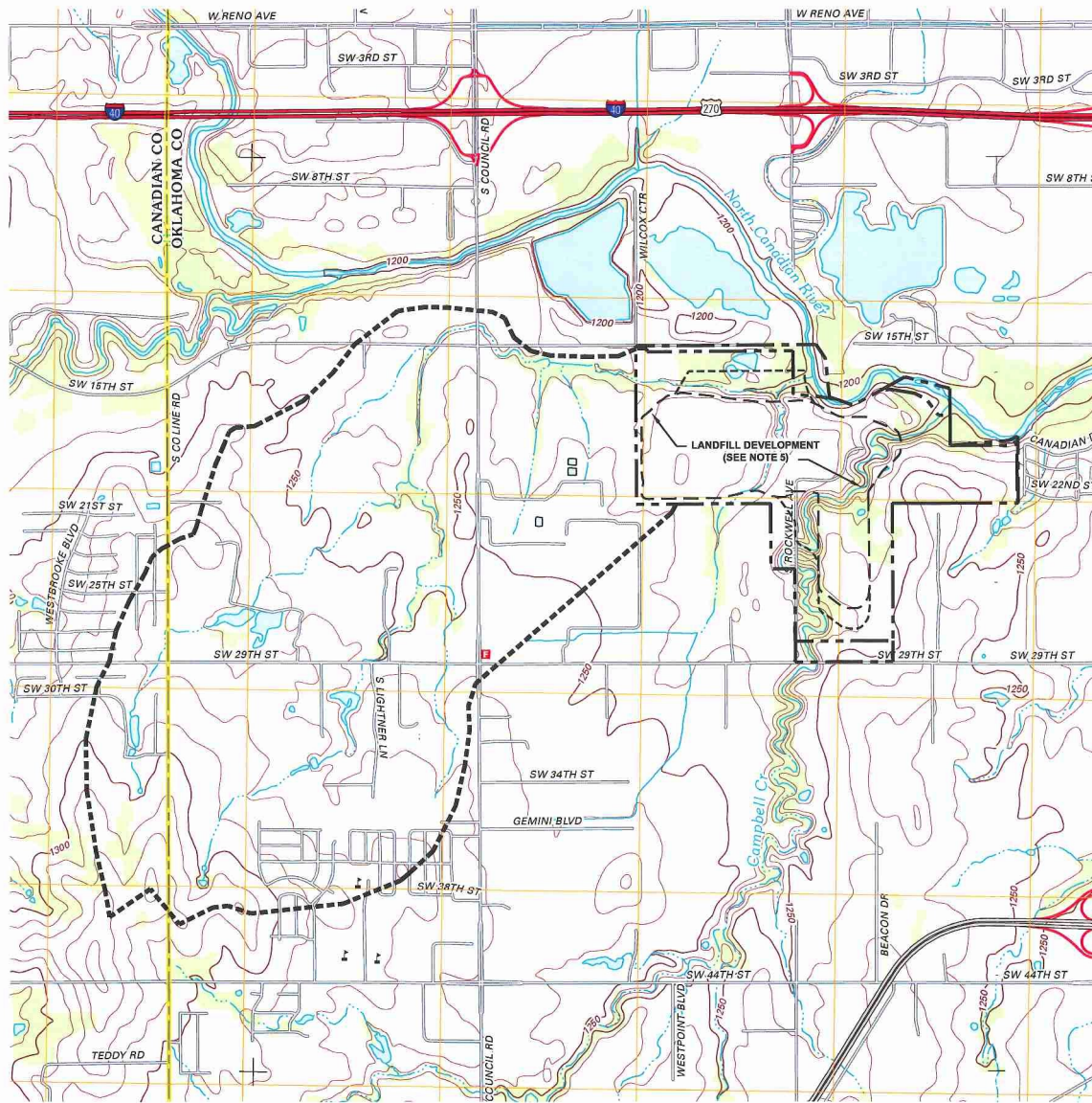
TOTAL MITIGATION SUMMARY			
	EXISTING CONDITION	PROPOSED CONDITION	
		AVOIDANCE	CREATION
WETLANDS	9.33 ACRES	2.98 ACRES	6.35 ACRES
WATERS OF THE U.S.	1,571 FEET	1,571 FEET	1,367 FEET
	719 FEET	242 FEET	
	2,290 FEET TOTAL	1,813 FEET TOTAL	1,367 FEET TOTAL
		3,180 FEET TOTAL	



*J. V. Queen*  
6/13/16

<input type="checkbox"/> DRAFT <input checked="" type="checkbox"/> FOR PERMITTING PURPOSES ONLY <input type="checkbox"/> ISSUED FOR CONSTRUCTION	PREPARED FOR OKLAHOMA CITY WASTE DISPOSAL, INC.	SECTION 404 PERMIT PROPOSED NORTH AREA MITIGATION AREA
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SWT-2016-386  
 Oklahoma City Landfill  
 Oklahoma City, Oklahoma  
 Unnamed tributary of the North Canadian River  
 Enclosure 6 of 15



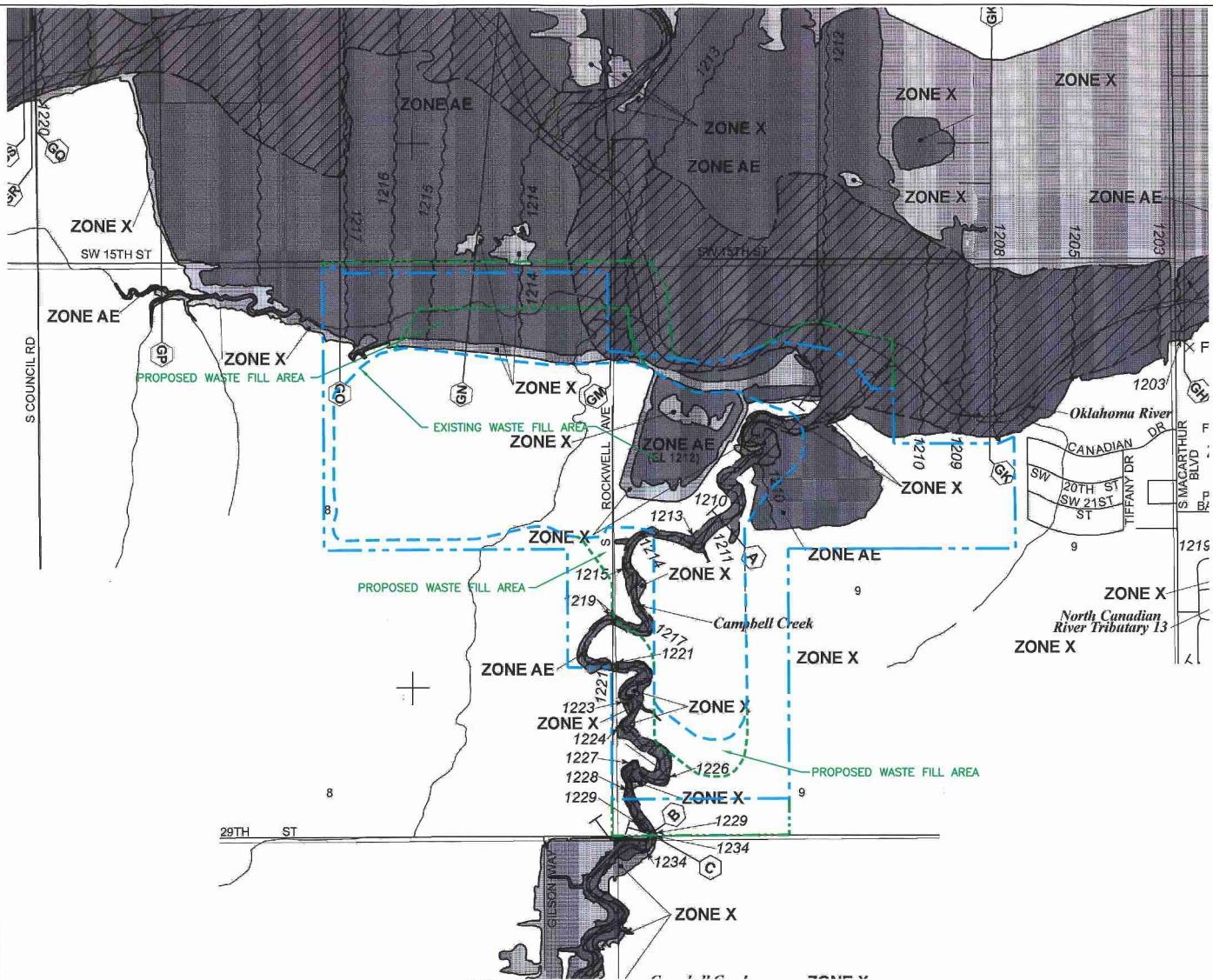
MUSTANG, OK  
2012

OKLAHOMA CITY, OK  
2012

**NOTES:**

1. ADAPTED FROM USGS 7.5 MINUTE QUADRANGLE TOPOGRAPHIC MAP (MUSTANG, OK 2012 AND OKLAHOMA CITY, OK 2012).
2. THE MAP AREA SHOWN IS WITHIN SECTIONS 8 AND 9 OF TOWNSHIP 11 NORTH, RANGE 4 WEST.
3. THE PERMIT BOUNDARY WAS REPRODUCED FROM A LEGAL DESCRIPTION PREPARED BY LEMKE LAND SURVEYING, INC.
4. LANDFILL DEVELOPMENT AND OPERATIONS HAS OCCURRED IN THIS AREA FOR OVER 30 YEARS. THIS SITE IS CURRENTLY BEING DEVELOPED IN ACCORDANCE WITH ODEQ, FEMA, USACE, AND OKLAHOMA CITY PERMITS. TOPOGRAPHY AND DRAINAGE SHOWN ON THIS USGS MAP IS NOT CONSISTENT WITH ACTUAL SITE CONDITIONS.

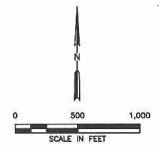
<input type="checkbox"/> DRAFT <input checked="" type="checkbox"/> FOR PERMITTING PURPOSES ONLY <input type="checkbox"/> ISSUED FOR CONSTRUCTION	PREPARED FOR	SECTION 404 PERMIT
	OKLAHOMA CITY WASTE DISPOSAL, INC.	NORTH AREA WATERSHED MAP
DATE: 06/2016 FILE: 1601-01-11 CAD: 7-WATERSHED	<b>SWT-2016-386</b> Oklahoma City Landfill Oklahoma City, Oklahoma Unnamed tributary of the North Canadian River Enclosure 7 of 15	
	15	



**LEGEND**

- SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD**
- The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equal or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, A9, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.
- ZONE A** No Base Flood Elevation determined.
  - ZONE AE** Base Flood Elevations determined.
  - ZONE AH** Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
  - ZONE AO** Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
  - ZONE AR** Area of special flood hazard formerly protected from the 1% annual chance flood event by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance of greater flood event.
  - ZONE A99** Areas to be protected from 1% annual chance flood event by a Federal flood protection system under construction; no Base Flood Elevations determined.
  - ZONE V** Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
  - ZONE VE** Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.
- FLOODWAY AREAS IN ZONE AE**
- The floodway is the channel of a stream plus any adjacent floodplain areas that must be free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.
- OTHER FLOOD AREAS**
  - ZONE X** Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.
  - OTHER AREAS**
  - ZONE X** Areas determined to be outside the 0.2% annual chance floodplain.
  - ZONE D** Areas in which flood hazards are undetermined, but possible.
  - COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS**
  - OTHERWISE PROTECTED AREAS (OPAs)**

- CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.
- Floodplain boundary
  - Floodway boundary
  - Zone D boundary
  - CBRS and OPA boundary
  - Boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities
  - Base Flood Elevation line and value; elevation in feet\*  
Base Flood Elevation value where uniform within zone; elevation in feet\*  
(EL 987)
  - \*Referenced to the North American Vertical Datum of 1988 (NAVD 88)
  - Cross section line
  - Transect line
  - Geographic coordinates referenced to the North American Datum of 1983 (NAD 83), Western Hemisphere  
97°07'30", 32°22'30"
  - 4756700E
  - 1000-meter Universal Transverse Mercator grid ticks, zone 14
  - 5000-foot grid values: Texas State Plane coordinate system, North Zone (PROJZONE = 4201), Lambert projection
  - Beach mark (See explanation in Notes to Users section of this FIRM panel)
  - DX5510
  - M1.5
  - River Mile



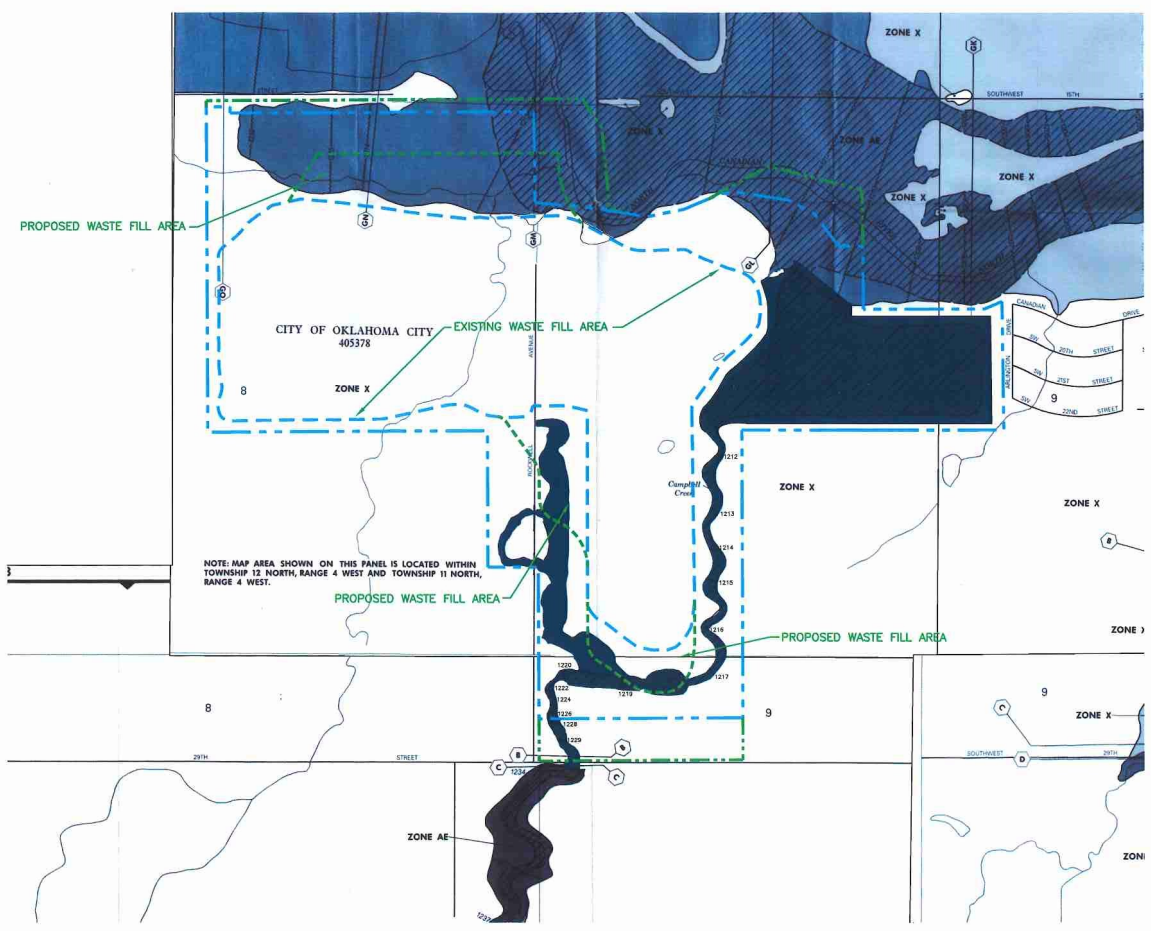
- LEGEND**
- EXISTING PERMIT BOUNDARY
  - PROPOSED PERMIT BOUNDARY
  - EXISTING LIMIT OF WASTE
  - PROPOSED LIMIT OF WASTE

- NOTES:**
- PERMIT BOUNDARY WAS REPRODUCED FROM LEGAL DESCRIPTION PREPARED BY LEMKE LAND SURVEYING, INC.
  - FLOOD HAZARD ZONES REPRODUCE FROM FEMA FIRM NUMBERS 40109C0260H AND 40109C0270H FOR OKLAHOMA COUNTY, OKLAHOMA AND INCORPORATED AREAS, EFFECTIVE DATE DECEMBER 18, 2009.

<input type="checkbox"/> DRAFT <input type="checkbox"/> FOR PERMITTING PURPOSES ONLY <input type="checkbox"/> ISSUED FOR CONSTRUCTION	PREPARED FOR	<b>SECTION 404 PERMIT EFFECTIVE FLOOD INSURANCE</b>
	OKLAHOMA CITY WASTE DISPOSAL, INC.	
DATE: 06/2016 FILE: 0901-011- CAD: 9-4105101	<b>SWT-2016-386</b> Oklahoma City Landfill Oklahoma City, Oklahoma Unnamed tributary of the North Canadian River Enclosure 8 of 15	

0:\0001\01\SECTION 404 INDIVIDUAL PERMIT\NORTH PERMIT\01-EFFECTIVE FIRM.dwg, r.morris, 1:2

0:\0661\04\SECTION 404, INDIVIDUAL PERMIT\REVISED FIRM.dwg, Plot File: 12

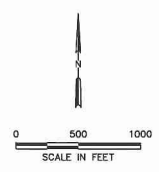


### LEGEND

- SPECIAL FLOOD HAZARD AREAS INUNDATED BY 100-YEAR FLOOD
- ZONE A** No base flood elevations determined.
- ZONE AE** Base flood elevations determined.
- ZONE AH** Flood depths of 1 to 3 feet (usually areas of ponding); base flood elevations determined.
- ZONE AO** Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
- ZONE A99** To be protected from 100-year flood by Federal flood protection system under construction; no base flood elevations determined.
- ZONE V** Coastal flood with velocity hazard (wave action); no base flood elevations determined.
- ZONE VE** Coastal flood with velocity hazard (wave action); base flood elevations determined.
- FLOODWAY AREAS IN ZONE AE
- OTHER FLOOD AREAS
- ZONE X** Areas of 500-year flood; areas of 100-year flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 100-year flood.
- OTHER AREAS
- ZONE X** Areas determined to be outside 500-year floodplain.
- ZONE D** Areas in which flood hazards are undetermined.
- UNDEVELOPED COASTAL BARRIERS**
- Identified 1983
- Identified 1990
- Otherwise Protected Areas
- Floodplain Boundary
- Floodway Boundary
- Zone D Boundary
- Boundary Dividing Special Flood Hazard Zones, and Boundary Dividing Areas of Different Coastal Base Flood Elevations Within Special Flood Hazard Zones.
- Base Flood Elevation Line: Elevation in Feet. See Map Index for Elevation Datum.
- Cross Section Line

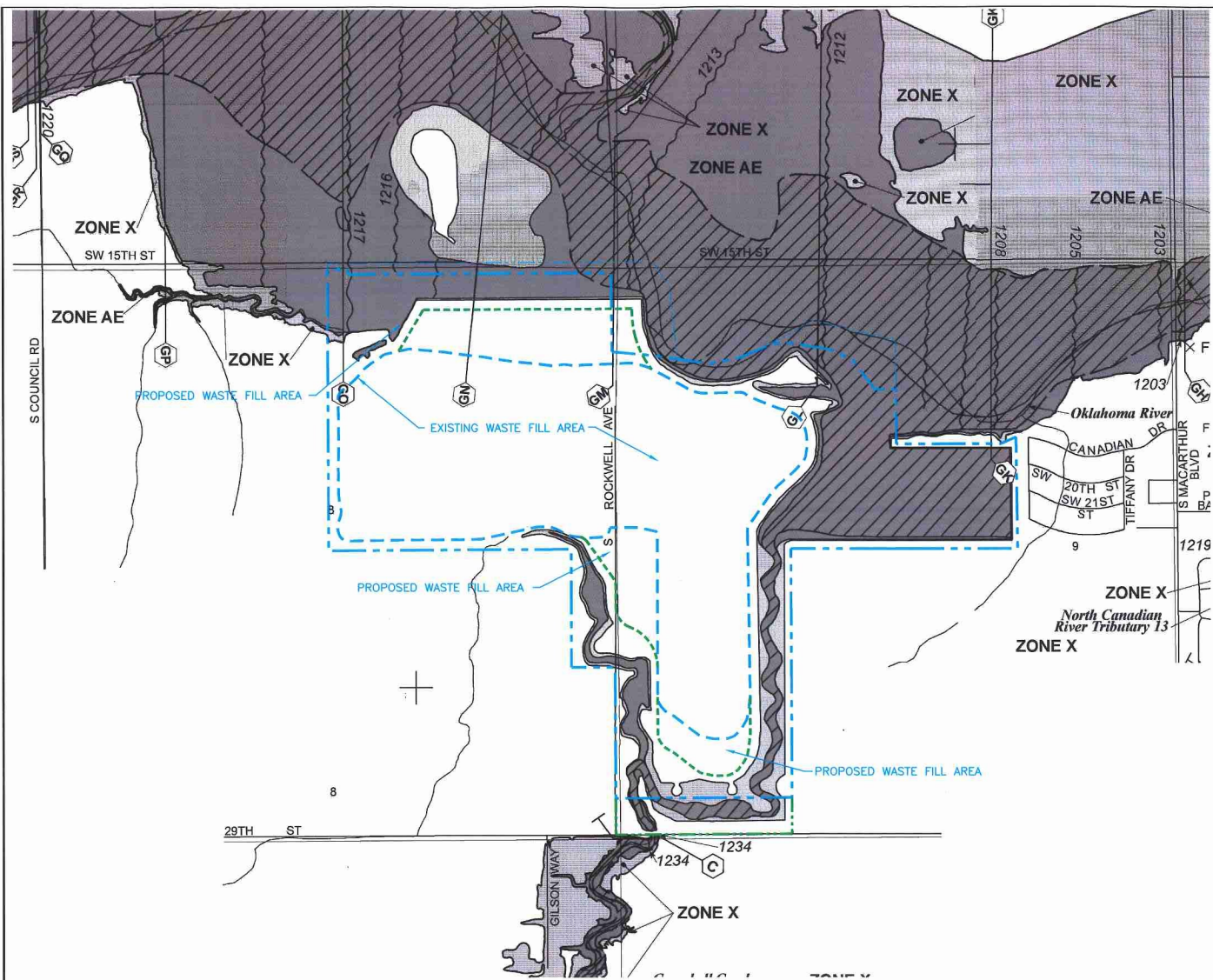
- LEGEND**
- EXISTING PERMIT BOUNDARY
  - PROPOSED PERMIT BOUNDARY
  - EXISTING LIMIT OF WASTE
  - PROPOSED LIMIT OF WASTE

- NOTES:**
1. PERMIT BOUNDARY WAS REPRODUCED FROM LEGAL DESCRIPTION PREPARED BY LEMKE LAND SURVEYING, INC.
  2. REPRODUCED FROM FEMA FIRM MAP NUMBERS 40109C0334G, 40109C0342G, 40109C00353G, 40109C0361G.
  3. THE FLOODPLAIN AND FLOODWAY FOR THE AREA WITHIN THE PERMIT BOUNDARY AND STUDY AREA IS REPRODUCED FROM A CLOMR REQUEST APPLICATION (PREPARED BY WBC, SEPTEMBER 2009.)



<p><input type="checkbox"/> DRAFT</p> <p><input checked="" type="checkbox"/> FOR PERMITTING PURPOSES ONLY</p> <p><input type="checkbox"/> ISSUED FOR CONSTRUCTION</p> <p>DATE: 06/2016          FILE: 0601-01-1          CWD: 9-REV FROM</p> <p> Weaver Consultants Group</p>	<p>PREPARED FOR:</p> <p><b>OKLAHOMA CITY WASTE DISPOSAL, INC.</b></p>	<p>SECTION 404 PERMIT</p> <p><b>FEMA 2009 APPROVED CONDITIONAL REVISED FLOOD INSURANCE</b></p>
<p><b>SWT-2016-386</b></p> <p><b>Oklahoma City Landfill</b></p> <p><b>Oklahoma City, Oklahoma</b></p> <p><b>Unnamed tributary of the North Canadian River</b></p> <p><b>Enclosure 9 of 15</b></p>		





### LEGEND

**SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD**

The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

- ZONE A** No Base Flood Elevation determined.
- ZONE AE** Base Flood Elevations determined.
- ZONE AH** Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
- ZONE AO** Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
- ZONE AR** Area of special flood hazard formerly protected from the 1% annual chance flood event by a flood control system that was subsequently derelict. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance of greater flood event.
- ZONE A99** Areas to be protected from 1% annual chance flood event by a Federal flood protection system under construction; no Base Flood Elevations determined.
- ZONE V** Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
- ZONE VE** Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

**FLOODWAY AREAS IN ZONE AE**

The floodway is the channel of a stream plus any adjacent floodplain areas that must be free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

**OTHER FLOOD AREAS**

- ZONE X** Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

**OTHER AREAS**

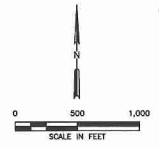
- ZONE X** Areas determined to be outside the 0.2% annual chance floodplain.
- ZONE D** Areas in which flood hazards are undetermined, but possible.

**COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS**

**OTHERWISE PROTECTED AREAS (OPAs)**

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

Floodplain boundary  
 Floodway boundary  
 Zone D boundary  
 CBRS and OPA boundary  
 Boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.  
 Base Flood Elevation line and value; elevation in feet\*  
 Base Flood Elevation value where uniform with in zone; elevation in feet\*  
 (E.L. 987)  
 \* Referenced to the North American Vertical Datum of 1988 (NAVD 88)  
 Cross section line  
 Transect line  
 Geographic coordinates referenced to the North American Datum of 1983 (NAD 83), Western Hemisphere  
 47°07'30" N  
 97°07'30" W  
 1000-meter Universal Transverse Mercator grid ticks, zone 14  
 5000-foot grid values: Texas State Plane coordinate system, North Zone (FIPSZONE = 4203), Lambert projection  
 Beaman mark (see explanation in Notes to Users section of this FIRM panel)  
 DX5510  
 M1.5  
 River Mile



- LEGEND**
- EXISTING PERMIT BOUNDARY
  - PROPOSED PERMIT BOUNDARY
  - EXISTING LIMIT OF WASTE
  - PROPOSED LIMIT OF WASTE

- NOTES:**
- PERMIT BOUNDARY WAS REPRODUCED FROM LEGAL DESCRIPTION PREPARED BY LEMKE LAND SURVEYING, INC.
  - CAMPBELL CREEK AND NORTH CANADIAN RIVER FLOODPLAIN AND FLOODWAY DEVELOPED BASED ON POST-PROJECT CONDITION HYDRAULIC MODELS INCLUDED IN A CLOWR REQUEST APPLICATION (PREPARED BY WBC, NOVEMBER 2014).

<input type="checkbox"/> DRAFT	PREPARED FOR	SECTION 404 PERMIT
<input checked="" type="checkbox"/> FOR PERMITTING PURPOSES ONLY	OKLAHOMA CITY WASTE DISPOSAL, INC.	FEMA 2015 PROPOSED CONDITIONAL
<input type="checkbox"/> ISSUED FOR CONSTRUCTION		REVISED FLOOD INSURANCE RATE

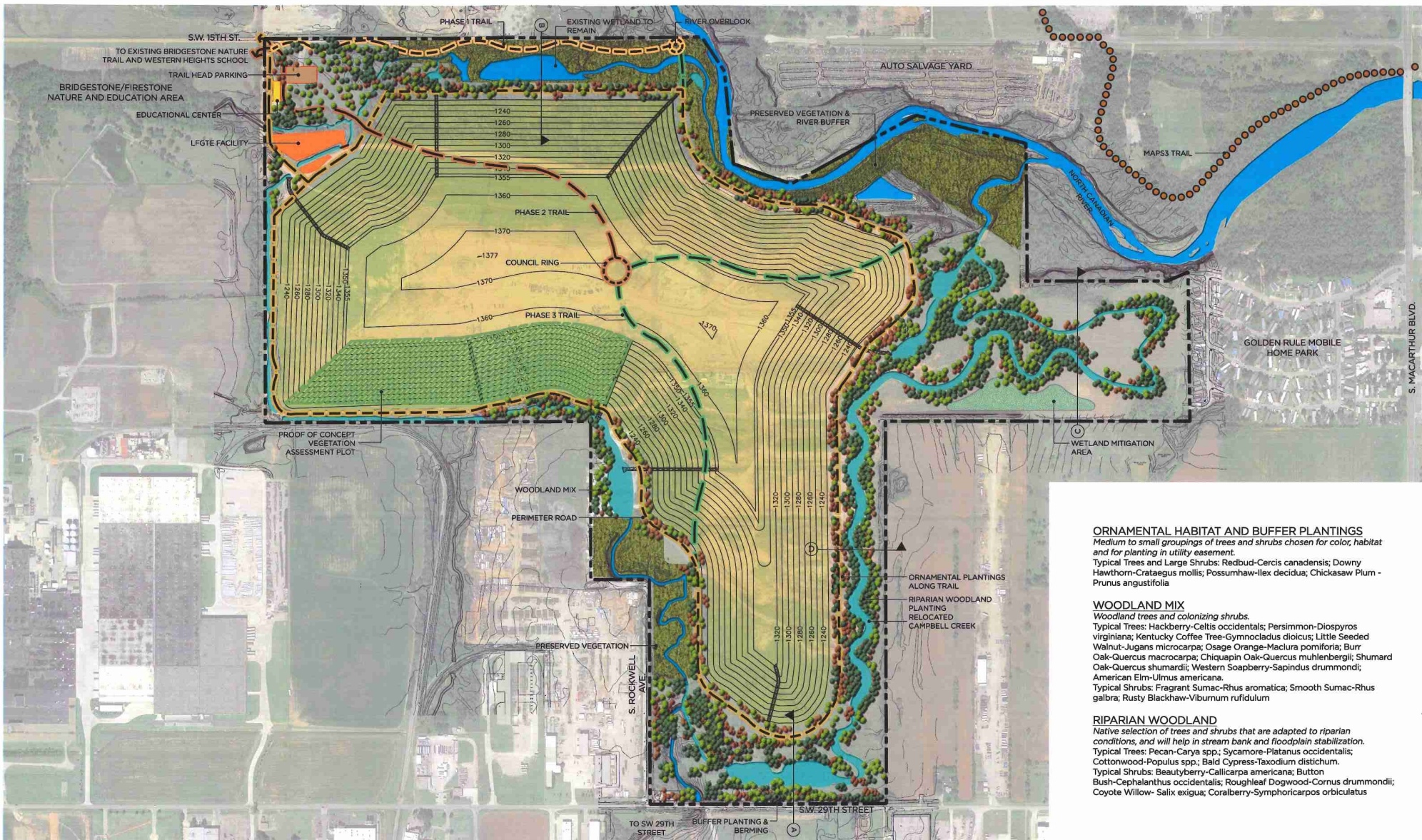
DATE: 08/2016  
 FILE: 0601-014  
 CAD: 10-REVISED

**SWT-2016-386**

Oklahoma City Landfill  
 Oklahoma City, Oklahoma  
 Unnamed tributary of the North Canadian River

Enclosure 10 of 15

O:\0601\SECTION 404 INDIVIDUAL PERMIT\NORTH PERMIT\0-REVISED FIRM.dwg, 7/20/16, 1:2



**ORNAMENTAL HABITAT AND BUFFER PLANTINGS**

Medium to small groupings of trees and shrubs chosen for color, habitat and for planting in utility easement.  
 Typical Trees and Large Shrubs: Redbud-Cercis canadensis; Downy Hawthorn-Crataegus mollis; Possumhaw-Ilex decidua; Chickasaw Plum - Prunus angustifolia

**WOODLAND MIX**

Woodland trees and colonizing shrubs.  
 Typical Trees: Hackberry-Celtis occidentalis; Persimmon-Diospyros virginiana; Kentucky Coffee Tree-Gymnocladus dioica; Little Seeded Walnut-Jugans microcarpa; Osage Orange-Maclura pomifera; Burr Oak-Quercus macrocarpa; Chiquapin Oak-Quercus muhlenbergii; Shumard Oak-Quercus shumardii; Western Soapberry-Sapindus drummondii; American Elm-Ulmus americana.  
 Typical Shrubs: Fragrant Sumac-Rhus aromatica; Smooth Sumac-Rhus glabra; Rusty Blackhaw-Viburnum rufidulum

**RIPARIAN WOODLAND**

Native selection of trees and shrubs that are adapted to riparian conditions, and will help in stream bank and floodplain stabilization.  
 Typical Trees: Pecan-Carya spp.; Sycamore-Platanus occidentalis; Cottonwood-Populus spp.; Bald Cypress-Taxodium distichum.  
 Typical Shrubs: Beautyberry-Callicarpa americana; Button Bush-Cephalanthus occidentalis; Roughleaf Dogwood-Cornus drummondii; Coyote Willow- Salix exigua; Coralberry-Symphoricarpos orbiculatus

OKLAHOMA CITY LANDFILL EXPANSION, WASTE CONNECTIONS, INC.  
 END USE PLAN

**DRAWING 11 OF 15**



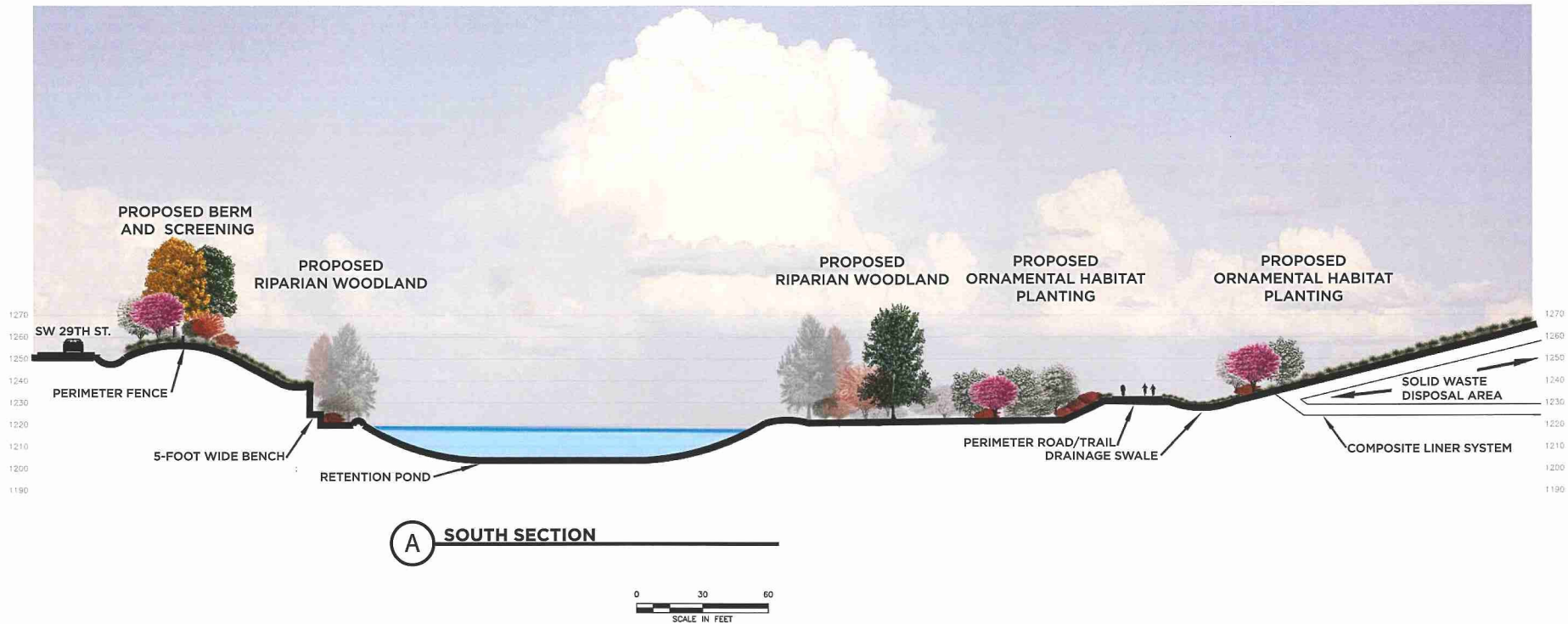
SWT-2016-386

Oklahoma City Landfill

Oklahoma City, Oklahoma

Unnamed tributary of the North Canadian River

Enclosure 11 of 15

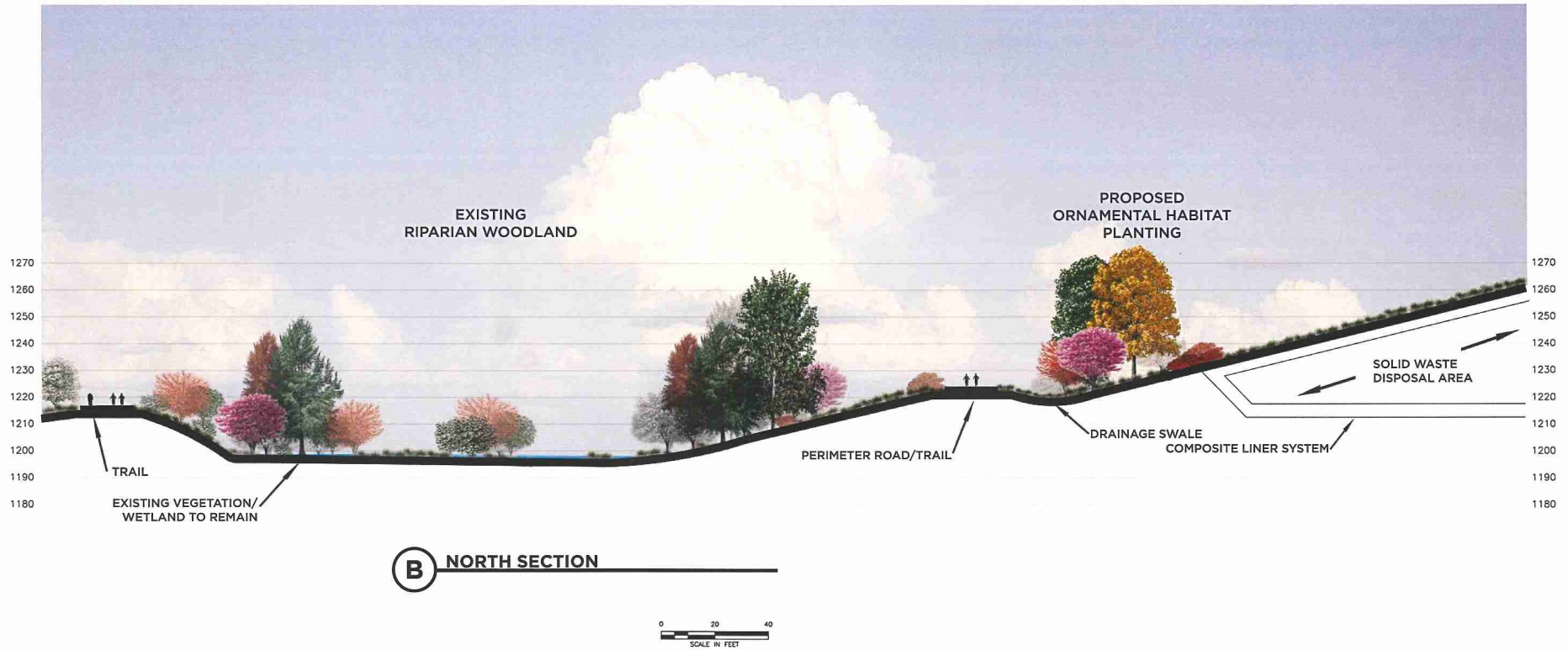


OKLAHOMA CITY LANDFILL EXPANSION, WASTE CONNECTIONS, INC.  
 PROPOSED SECTIONS

DRAWING 12 OF 15  
 PROPOSED SECTION A

SWT-2016-386  
 Oklahoma City Landfill  
 Oklahoma City, Oklahoma  
 Unnamed tributary of the North Canadian River  
 Enclosure 12 of 15



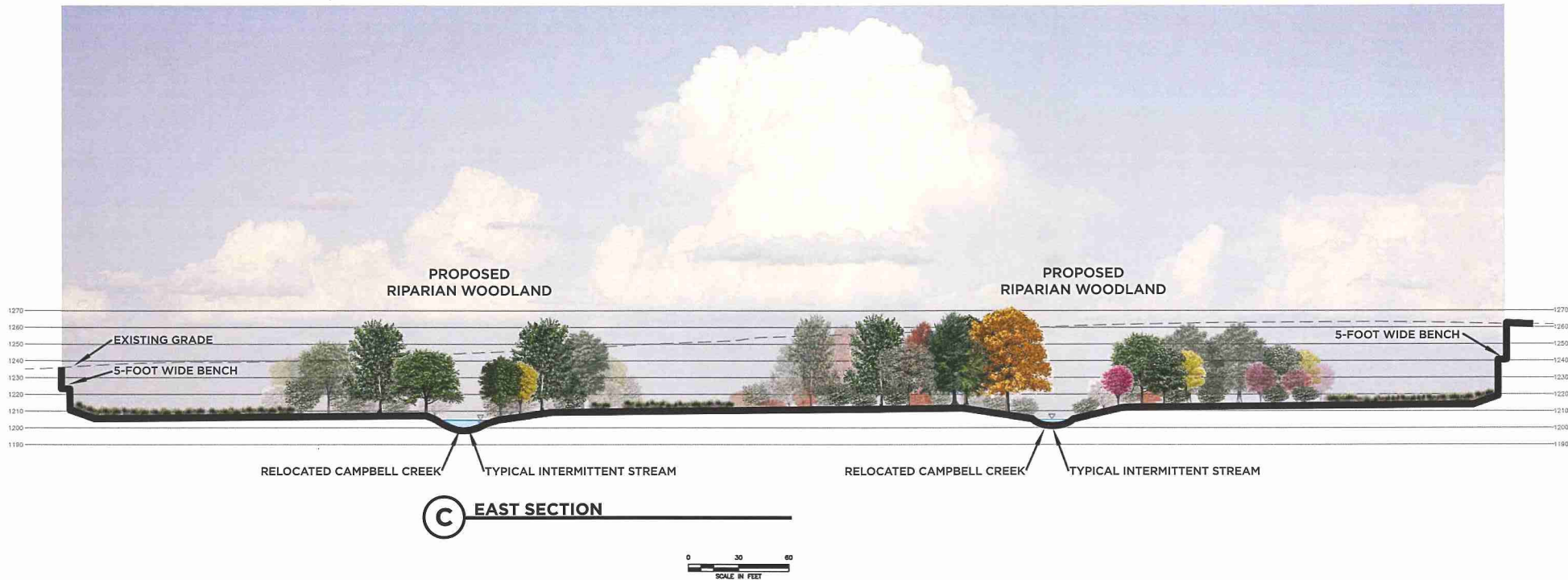


**DRAWING 13 OF 15**

OKLAHOMA CITY LANDFILL EXPANSION, WASTE CONNECTIONS, INC.  
PROPOSED SECTIONS

SWT-2016-386  
Oklahoma City Landfill  
Oklahoma City, Oklahoma  
Unnamed tributary of the North Canadian River  
Enclosure 13 of 15



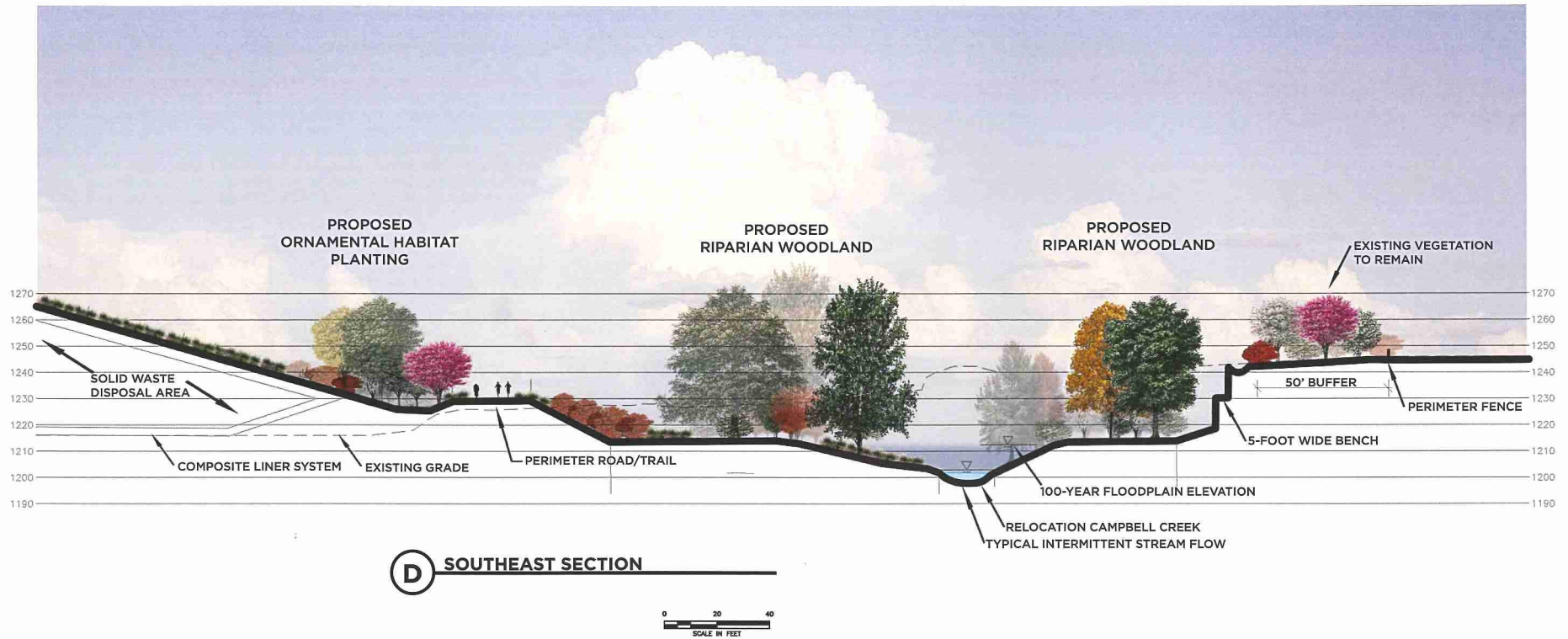


OKLAHOMA CITY LANDFILL EXPANSION, WASTE CONNECTIONS, INC.  
 PROPOSED SECTIONS

**DRAWING 14 OF 15**  
**PROPOSED SECTION C**

SWT-2016-386  
 Oklahoma City Landfill  
 Oklahoma City, Oklahoma  
 Unnamed tributary of the North Canadian River  
 Enclosure 14 of 15





OKLAHOMA CITY LANDFILL EXPANSION, WASTE CONNECTIONS, INC.  
 PROPOSED SECTIONS

**DRAWING 15 OF 15**

SWT-2016-386  
 Oklahoma City Landfill  
 Oklahoma City, Oklahoma  
 Unnamed tributary of the North Canadian River  
 Enclosure 15 of 15

