

# General James Taylor Park Updates

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4.13.2023

# Archeological Study

## Step 1: Geophysical Phase

Ground Penetrating Radar (GPR) works by emitting a pulse of electromagnetic energy into the ground. The idea of this pulse works like a radio wave, which travels at different velocities when moving through various materials. The electromagnetic pulse is dependent on the electrical characteristics of the material it encounters, and the variations in the return signal identify a shift in material. When the pulse passes from one material to another, there is a change in wave velocity. That change in velocity returns to the antenna and identifies a possible object. As the archeologist continues to move across the grid, a more complete picture can be formed, including the depth of an artifact. Archeologist can use this to “see” what may be underground.



Professionals must be very careful to create their grid before using GPR. They also need a relatively flat, clear surface. The equipment must be used in straight, evenly spaced lines to make the best individual transects to be used later.

The City has signed a contract with Western Kentucky University, and is working with NKU faculty, staff and students on this project. The agreed amount cost is \$35,000. The City is still waiting on a map of the exact location in the park where this study will happen. This typically takes 7 – 8 days.

# Archeological Study

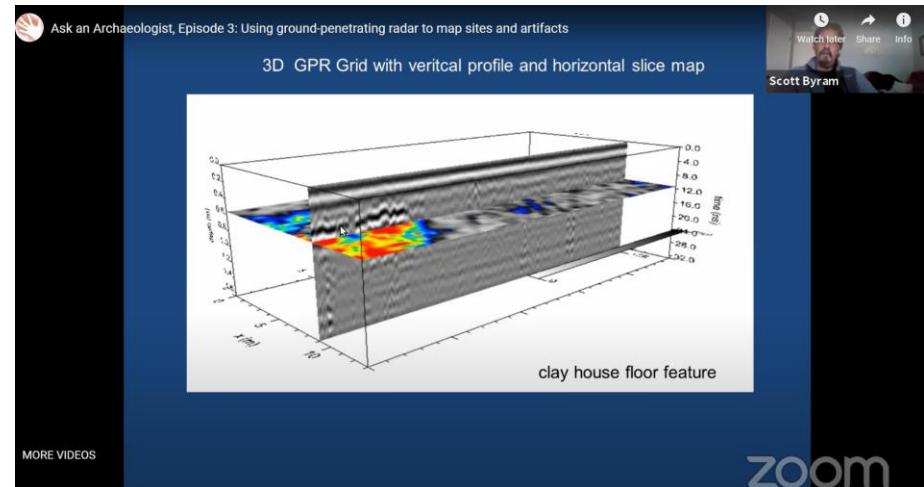
## Step 1: Geophysical Phase



# Archeological Study

## Phase 2: Processing the Information and Ground Truthing

First the data collected during the geophysical phase is run through various computer programs and “Spliced”. This process could take 4 – 6 weeks. This will allow the experts to identify the anomalies as potential places to search. Once identified, those locations will be marked for “ground truthing”.



Once locations of possible anomalies have been identified, the team from WKU and NKU will return to GJTP. With the help of the Public Works Department, they will use backhoes to dig trenches. They will then excavate for any potential artifacts. Any found artifacts will either go to WKU or the Behringer-Crawford Museum.

# Archeological Study

## Logistical Points

- The name and type of GPR used will be the GSSI SIR4000 coupled with a 350-megahertz HyperStacking digital antenna. These will be mounted on a GSSI Utility Scan Pro cart system.
- Public Works will cover all trenches with metal plates while experts are not actively excavating the locations.
- We will organize a day for the public to watch and learn from the experts during the ground truthing period.
- The City will display a sign warning that KRS 164.705-164.735 and KRS 164.990 makes it unlawful to willfully damage archaeological sites to protect the area.
- After the report has been completed, we will host another meeting to discuss what was found.



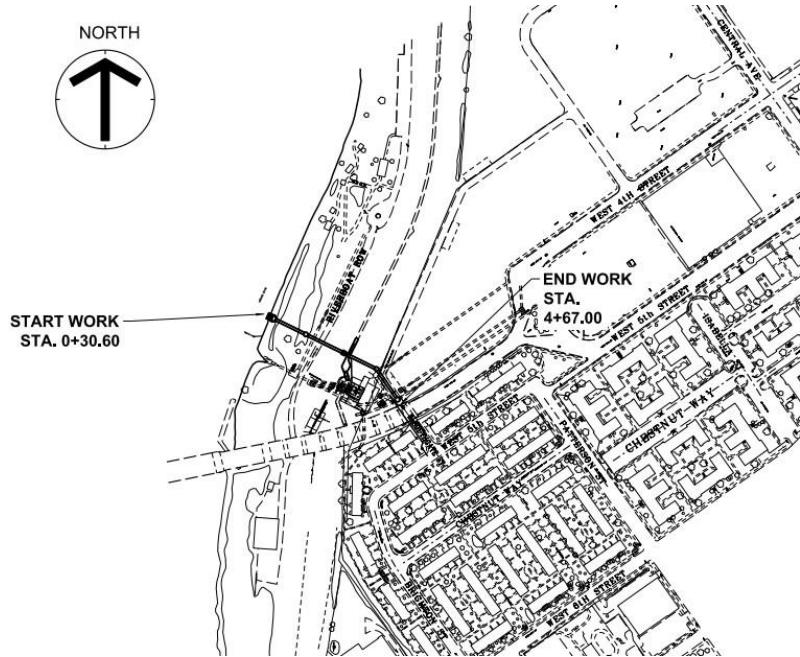
# Environmental Stewardship Project Funding

This funding will be used to plant trees. The City is legally forbidden from digging until the Archeological Study has been completed. As soon as we are allowed and weather permits, we will be planting trees. As a reminder, we would like to plant 3-4 trees in these two vicinities. For a total of 6-8 trees around the picnic benches and play area. The trees will not be invasive species, be able to withstand Ohio River flooding, not interfere with powerlines, and be able to grow in difficult soil.



# KY 9 Stormwater Outfall at 4<sup>th</sup> St Pump Station

The purpose of this project is to reduce Combined Sewer Overflow (CSO). This becomes a problem when there is a large amount of stormwater, and the system becomes overwhelmed. The result is a combination of stormwater, untreated human and industrial waste, oil and grease, metal, floating debris, and other harmful pollutants into the waterways. In 2005, SD1 and the EPA entered into a consent decree to comply with the federal law Clean Water Act of 1972 to reduce CSOs and Sanitary System Overflows (SSO) by 2025.



Partners: SD1, KYTC, and the Army Corp of Engineers

Expected Construction: July – October 2023

# Ecosystem Restoration

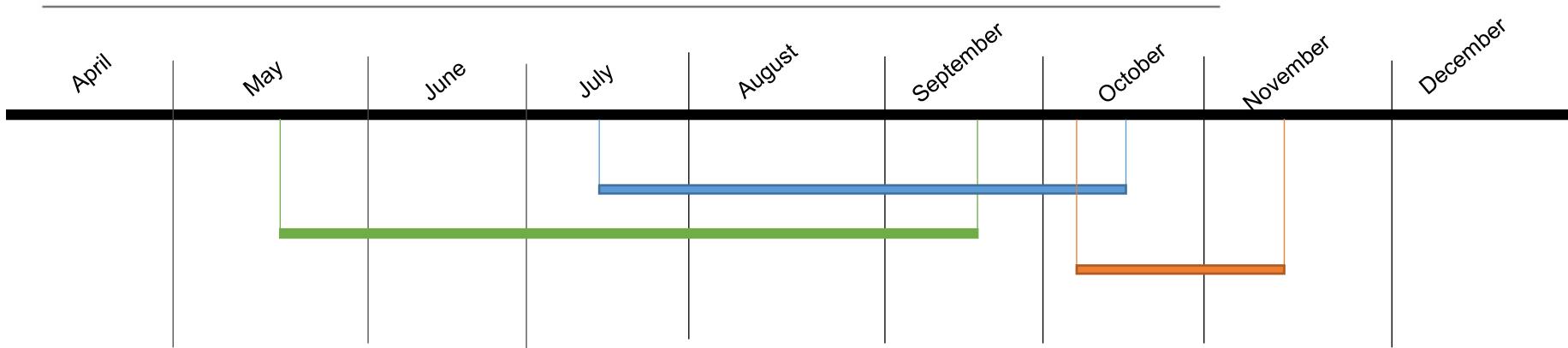
Table 24. Implementation Schedule

NKY - P2# 471176			
Task	Start	Finish	Duration
Draft DPR	2-Apr-18	31-May-18	59
Draft DPR - DQC Review	1-Jun-18	15-Jun-18	14
Draft DPR - Legal / Policy Review	4-Jun-18	22-Jun-18	18
Public Review (before conversion)	25-Jun-18	25-Jul-18	30
ATR	25-Jun-18	2-Nov-18	130
MSC / HQUSACE Review - Draft DPR	28-Jun-18	17-Sep-18	81
GI Study Termination Memo - Draft	15-Dec-18	20-Dec-18	5
GI Study Termination Memo - OC Review	20-Dec-18	14-Jan-18	25
GI Study Termination Memo - Front Office Review	14-Jan-18	28-Jan-18	14
GI Study Termination Memo - COL Gant Signature	28-Jan-18		
GI Study Termination Memo - LRL Transmit to MSC	28-Jan-18		
GI Study Termination Memo - MSC Review / Approval	28-Jan-18	19-Mar-19	50
GI Agreement Termination Complete		19-Mar-19	
CAP SEC 1135 FCSA - Draft / Negotiation	20-Mar-19	27-Mar-19	7
CAP SEC 1135 FCSA - Sponsor Signs		5-Mar-19	
CAP SEC 1135 FCSA - USACE Signs		3-Apr-19	
GI Study Cost Share Record Closeout	22-Aug-19	24-Oct-19	63
Receive federal funds		9-Apr-19	
Draft DPR - DQC Review	29-Apr-19	16-Sep-19	140
Draft DPR - Legal Review	5-May-2019	6-June-2019	30
Release Draft DPR for Concurrent MSC / Public Review		19-Sep-19	
Public Review	23-Sep-19	23-Oct-19	30
ATR (after conversion)	23-Sep-19	08-Jan-20	
ATR Certification	08-Jan-20	30-Jul-20	
Draft Final DPR - DQC Review	20-Jan-20	01-Jul-20	
Draft Final DPR - Legal Review	25-Apr-21	03-Jul-21	
Final DPR - Policy Review	28-May-21	04-Jun-21	
Final Report Signed		14-Jul-21	
PPA - Draft / Negotiation	15-July-21	29-Nov-21	30
PPA - Sponsor Signs		Nov-21	
PPA - USACE Signs		March-22	
Plans and Specifications - Start	31-March-22		
Real Estate Certification	26-Jul-2024		
ATR Certified Construction Plans and Specifications	Oct-22		
Construction Contract Award	Oct-24		
Implementation Complete		Summer 2025	

We are stuck at PPA – USACE Signs March 2022, meaning we are now a year behind. The last request from the USACE was for a signed PPA by August 18<sup>th</sup>, 2022. We did that. Unfortunately, we have not heard from the USACE since then and the document expires after 3 months. The USACE has also asked us to buy land, which was previously not required.

Due to these and other issues, Bellevue has decided to pull out the project. The Southbank Partners are having ongoing discussions of hiring a company or non-profit to do this project instead of the USACE. The funding associated with this project belongs to Southbank, not the individual Cities.

# Current Timeline



## Archeological Study

May 1<sup>st</sup>: Start of the Archeological Study  
May 1<sup>st</sup> – 14<sup>th</sup>: Geophysical Phase  
May 14<sup>th</sup> – Mid-June: Processing data from GPR  
Mid-June – August: Archeologists on site looking for artifacts, public opportunity to learn  
September: Report Completed  
October: Meeting to explain what they found

## KY 9 Stormwater Outfall at 4<sup>th</sup> St Pump Station

April/May: Site preparation begins  
July – October: Construction

## Environmental Stewardship Project Funding

October – November: plant trees

# River Sweep



## River Sweep

@ General James Taylor Park



**Saturday, April 22, 2023**

10:00AM - 12:00PM



**General James Taylor Park**

100 Riverboat Row, Newport



**Supplies provided**

Grabbers, gloves, + bags



**FREE T-SHIRT!**



Register here



University of Kentucky  
College of Agriculture,  
Food and Environment  
Cooperative Extension Service





I have  
questions

We will do our best to answer anything tonight. You can email additional questions to [lobrien@newportky.gov](mailto:lobrien@newportky.gov)