

**ITEMS REQUIRING BOCC APPROVAL**  
**July 1, 2021**  
**(1 Items)**

**1. AUTOMATED EXTRACTION INSTRUMENTATION FOR SEXUAL ASSAULT SAMPLES ANNUAL MAINTENANCE -- REGIONAL FORENSIC SCIENCE CENTER (RFSC)  
 FUNDING -- DNA CAPACITY ENHANCEMENT FY'2021**

(Sole Source)

#21-2035 Contract

	<b>QIAGEN North American Holdings, Inc.</b>
<b>Robotic DNA Extraction Equipment Annual Maintenance</b>	<b>Price</b>
<b>2022</b>	
EZ1, Full Agreement (Quote Line #05972804; Catalog #9237721)	\$4,068.00
EZ1, Full Agreement (Quote Line #05972809; Catalog #9237721)	\$4,068.00
QIacube Connect, Full Agreement (Quote Line #05972814; Catalog #9245208)	\$3,267.00
QIacube Connect, Full Agreement (Quote Line #05972819; Catalog #9245208)	\$3,267.00
QIagility, Full Agreement (Quote Line #05972824; Catalog #9241763)	\$4,740.00
TOTAL	\$19,410.00
<b>2023</b>	
EZ1, Full Agreement (Quote Line #05972805; Catalog #9237721)	\$4,068.00
EZ1, Full Agreement (Quote Line #05972810; Catalog #9237721)	\$4,068.00
QIacube Connect, Full Agreement (Quote Line #05972815; Catalog #9245208)	\$3,267.00
QIacube Connect, Full Agreement (Quote Line #05972820; Catalog #9245208)	\$3,267.00
QIagility, Full Agreement (Quote Line #05972825; Catalog #9241763)	\$4,740.00
TOTAL	\$19,410.00
<b>2024</b>	
EZ1, Full Agreement (Quote Line #05972806; Catalog #9237721)	\$4,068.00
EZ1, Full Agreement (Quote Line #05972811; Catalog #9237721)	\$4,068.00
QIacube Connect, Full Agreement (Quote Line #05972816; Catalog #9245208)	\$3,267.00
QIacube Connect, Full Agreement (Quote Line #05972821; Catalog #9245208)	\$3,267.00
QIagility, Full Agreement (Quote Line #05972826; Catalog #9241763)	\$4,740.00
TOTAL	\$19,410.00
<b>2025</b>	
EZ1, Full Agreement (Quote Line #05972807; Catalog #9237721)	\$4,068.00
EZ1, Full Agreement (Quote Line #05972812; Catalog #9237721)	\$4,068.00
QIacube Connect, Full Agreement (Quote Line #05972817; Catalog #9245208)	\$3,267.00
QIacube Connect, Full Agreement (Quote Line #05972822; Catalog #9245208)	\$3,267.00
QIagility, Full Agreement (Quote Line #05972827; Catalog #9241763)	\$4,740.00
TOTAL	\$19,410.00
<b>2026</b>	
EZ1, Full Agreement (Quote Line #05972808; Catalog #9237721)	\$4,068.00
EZ1, Full Agreement (Quote Line #05972813; Catalog #9237721)	\$4,068.00
QIacube Connect, Full Agreement (Quote Line #05972818; Catalog #9245208)	\$3,267.00
QIacube Connect, Full Agreement (Quote Line #05972823; Catalog #9245208)	\$3,267.00
QIagility, Full Agreement (Quote Line #05972828; Catalog #9241763)	\$4,740.00
TOTAL	\$19,410.00
<b>GRAND TOTAL</b>	<b>\$97,050.00</b>

On the recommendation of Josh Lauber, on behalf of Regional Forensic Science Center, Linda Kizzire moved to **accept the five (5) year quote from QIAGEN North American Holdings, Inc. in the amount of \$97,050.00.** Jennifer Blasi seconded the motion. The motion passed unanimously.

The Sedgwick County DNA laboratory is in the process of implementing robotics for the automation of DNA extraction and amplification. The instrumentation may also be useful for future high-throughput screening of sexual assault kits once a direct-to-DNA screening method is validated. The Qiagen EZ1 and Qiacube instrumentation will carry out all DNA extractions in the laboratory, and the Qiagility is used to automate amplification and quantification set-ups. Qiagen instruments are all deemed critical instruments by the FBI Quality Assurance Standards and require annual preventative maintenance (PM) for continued use on casework. Automated instrumentation is key in streamlining analysis, ensuring accuracy and consistency, enhancing the workflow of the DNA laboratory, and in reducing backlog since the processes carried out robotically would otherwise be carried out manually.

Note:

Sedgwick County's forensic DNA laboratory continues to experience an increase in demand for DNA testing. RFSC faces limited space, staff, and resources.

Qiagen Instrument Service provides highly skilled maintenance and service for the instrumentation. Qiagen is the only organization certified by the manufacturer to repair, calibrate, upgrade, maintain, and relocate Qiagen instrumentation. Attempts to perform these services otherwise will immediately and irrevocably void any manufacturer warranty or support agreement. Should repairs ever be necessary, Qiagen would be the only vendor that can provide the parts which have been specifically developed for the instrumentation used at the RFSC.

**Questions and Answers**

Russell Leeds: Dr. Steadman can you give a brief explanation of what this robotics equipment will do for your laboratory as far as improving efficiencies?

Shelly Steadman: This is instrumentation we previously purchased with grant money validating workflow. Every sample that requires DNA extraction and DNA profiling would be touched by one or both of these instruments. Part of the instrumentation is used to do differential extraction on sexual assault samples which allows us to separate epithelial cells from sperm cells and thus get separate profiles from the victim and the perpetrator. The other set of instrumentation does straight extractions on swabs that do not require that type of differential extraction. Every single sample that we produce a DNA profile for, will be processed by this instrumentation.

Russell Leeds: Will robotics improve efficiency in the long term?

Shelly Steadman: Yes. It allows the DNA analyst to put a batch of samples on and walk away. The process itself sometimes takes the same amount of time to reach the endpoint. The difference is the person who would normally be processing that manually is not standing at the bench, they are doing other things during that time. This