

SECURE CHAIN OF CUSTODY PROCEDURES FOR THOROUGHBRED RACING TEST SPECIMENS

BEFORE VIEWING THIS PRESENTATION, THE VISTOR IS ENCOURAGED TO CLICK THE RED BUTTON AT THE BOTTOM OF THE "ABOUT US" SECTION ON THE HOME PAGE



WHAT MAKES A SIGNAKEY SPECIAL

- Highly encrypted 2-D code not in the public domain.
- Every Signakey is unambiguously unique.
- Easy to decode with IOS or Droid based Smartphones.
- App is free but must be registered to each device.
- User must be approved by Commission.
- Highly secure, permissions based, fixed length blockchain.





KHRC AND LESSON LEARNED

Dr. Bruce Howard, Equine Medical Director, KHRC

"KHRC has never won litigation for use of forbidden substances from a big purse race"

Because of:

- Inadequate chain-of-custody procedure and practices.
- Underfunded legal team versus owners like Amr Zedan Medina Spirit

BETTER C-O-C FOR TXRC AND TVMDL

REQUIREMENTS:

- > KEEP ALL CURRENT PROCEDURES AND SUPPLIES.
- > ADD THREE NEW TAMPER EVIDENT SEAL BAGS PER HORSE
- >VETS WILL NEED IOS DEVICES WITH SIGNAKEY RACE-TRACK APP
- LAB AND SPC WILL NEED WEBCAMS & SIGNAKEY SOFTWARE
- >SIGNAKEY WILL SUPPLY APP, WEBCAMS, SOFTWARE & TRAINING
- **➢ PILOT DURATION 12 WEEKS**

TAMPER-EVIDENT SEAL SPECIMEN BAGS

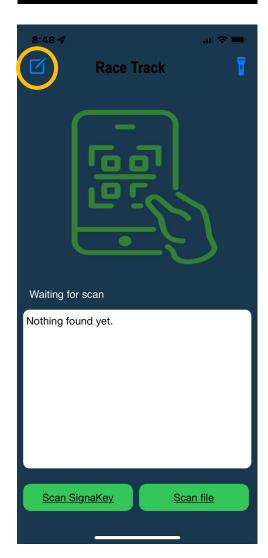
SAMPLE ID LABEL



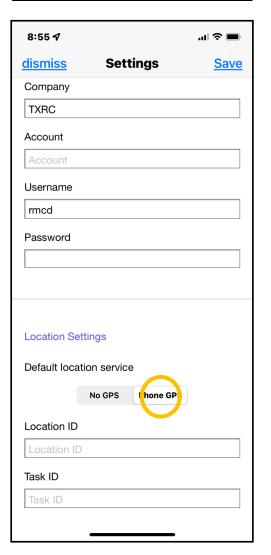
TAMPER EVIDENT SEAL

STEPS FOR SCANNING A SIGNAKEY

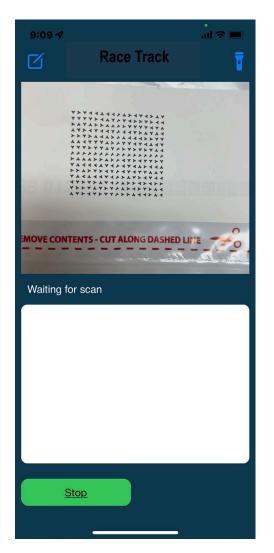
Open APP - GoTo Settings for Profile



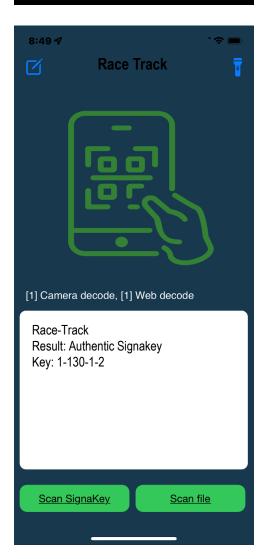
Enter Credentials Enable Phone GPS



Center Object and App will Scan Signakey



Results Summary after Scanning Signakey



IN THE TEST BARN

- USE ALL EXISTING PROCEDURES TO COLLECT 1 URINE & THEN 4 BLOOD SAMPLES.
- PLACE ALL SAMPLES IN TAMPER EVIDENT BAG #1 AND SECURE SEAL.
- USING iPhone WITH RACE-TRACK APP SCAN SIGNAKEY ALL WHILE IN THE STALL AREA.
- THE SCAN BEGINS THE SECURE CHAIN-OF-CUSTODY FOR THE SPECIMENS.
- ATTACH THE ID STICKER TO BAG #1 AND MOVE IT TO THE SAMPLE PREPARATION CENTER.

TE BAG #1 WITH LARGE URINE SAMPLE & 4 VIALS

TAMPER EVIDENT
SEAL BAG WITH
PREPRINTED TEXT
COVERED BY
LABELS FOR
DEMONSTRATION

SO MOT CUT HERE TO OPEN

SIGNAKEY LABEL

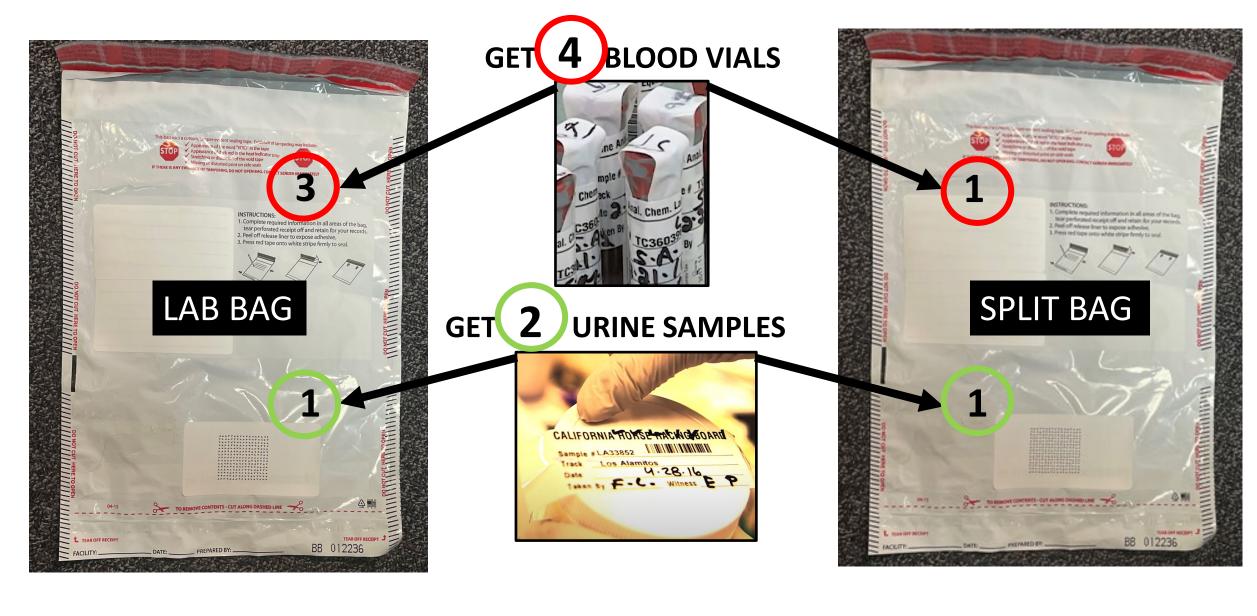
SAMPLE # LABEL

IN THE SAMPLE PREPARATION CENTER

- CHECK BAG #1 SEAL IS SECURE. GET PHOTO.
- IF YES **SCAN SIGNAKEY** USING COMPUTER **WEB-CAM**
- NEXT STEP IN THE CHAIN-OF-CUSTODY PROCESS.
- OPEN BAG #1 REMOVE CONTENTS.
- CENTRIFUGE VIALS SPLIT URINE IN 2 EQUAL SAMPLES
- FOLLOW ALL ESTABLISHED SAMPLE PREP PROCEDURES.
- 3 BLOOD & 1 URINE SAMPLES GO INTO THE LAB BAG
- 1 BLOOD & 1 URINE SAMPLE GO INTO SPLIT BAG
- SECURE TE SEAL ON EACH BAG SCAN BOTH SIGNAKEY.
- NEXT STEP IN THE CHAIN OF CUSTODY PROCESS
- PUT LAB BAG IN SHIPPING CONTAINER IN LOCKING FRIDGE
- SPLIT SAMPLE BAGS GOES INTO SECURE LOCKING FREEZER.

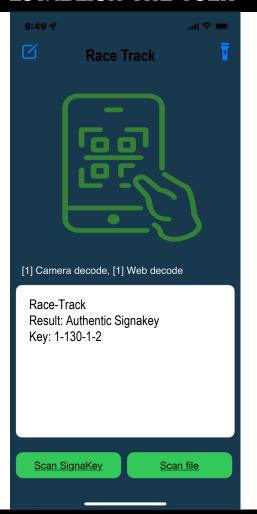


IN SPC - FILL IDENTICAL SAMPLE BAGS





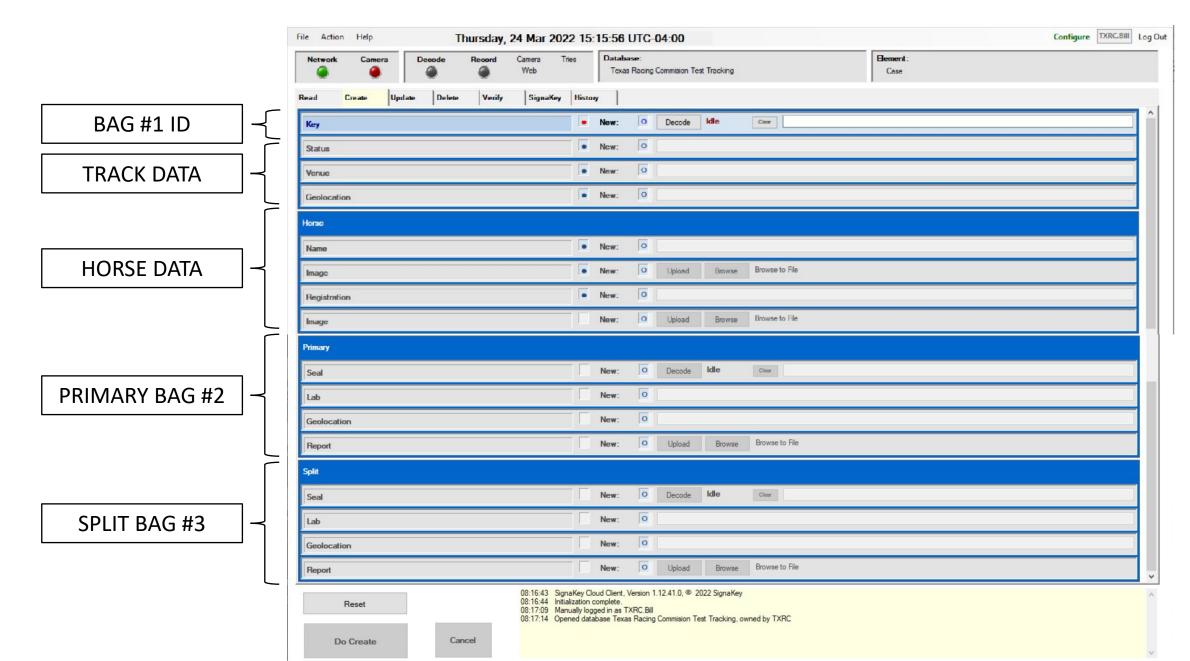
LOGIN WITH SMARTPHONE TO ESTABLISH THE USER



SCANNING AT EACH LOCATION CAPTURES TIMESTAMP & GEOSPATIAL COORDINATES



UN-CUSTOMIZED DATABASE TEMPLATE

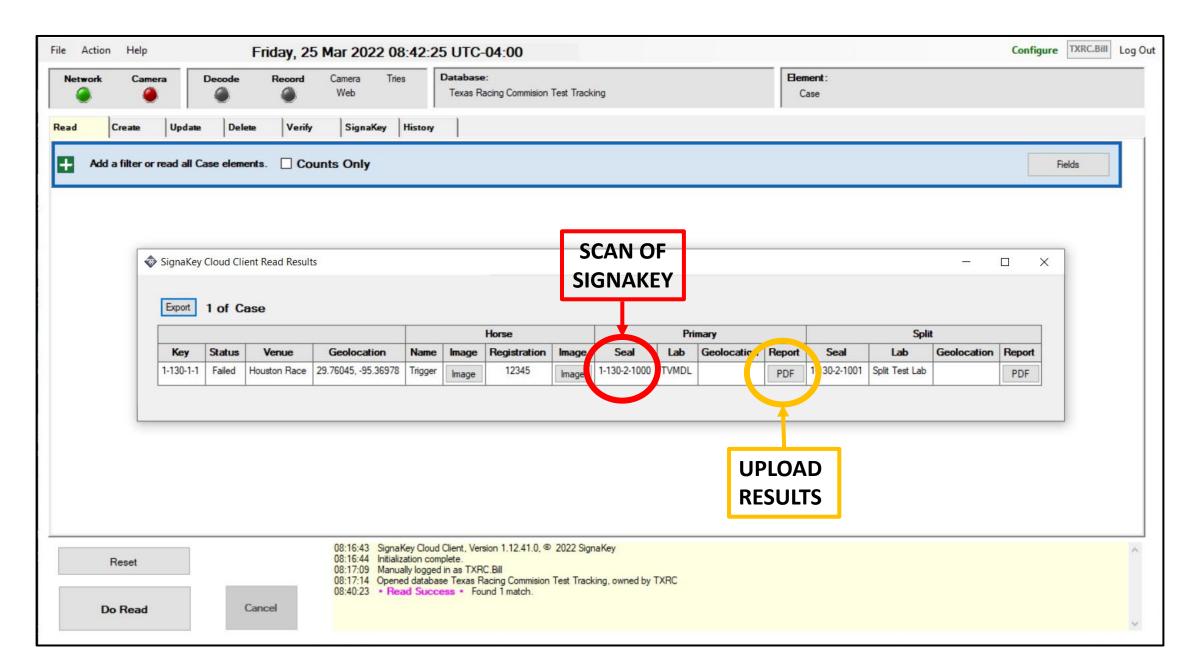


AT THE LAB

- ✓ CHECK THAT BAG SEAL IS SECURE TAKE CONFIRMING PHOTO.
- ✓ IF NO REFUSE DELIVERY.
- ✓ IF YES SCAN SIGNAKEY WITH WEB-CAM CONFIRMS C-O-C
- ✓ OPEN SAMPLE BAG REMOVE SPECIMENS SAVE SAMPLE BAG.
- ✓ GENERATE ACCESSION NUMBER AND CREATE SAMPLE STICKERS
- ✓ PERFORM ALL TESTS USING NORMAL PRESCRIBED METHODS.
- **✓** OPEN RACE-TRACK SOFTWARE
- ✓ SCAN SIGNAKEY ON SAMPLE BAG WITH WEBCAM.



COMPLETE RECORD FORMAT



AT THE LAB

- ✓ SCAN OF LAB BAG SIGNAKEY BRINGS UP CORRECT FILE.
- ✓ SCAN ALSO INFORMS SOFTWARE OF PENDING STATUS CHANGE.
- ✓ UPLOAD ALL TEST RESULTS FROM LIM INTO RACE-TRACK.
- ✓ IF ALL TESTS ARE NEGATIVE DISCARD SAMPLE BAG.
- ✓ IF TESTS ARE POSITIVE RETAIN BAG WITH CASE FILE EVIDENCE.
- ✓ SELECTED SPLIT LAB TO BE INFORMED BY TXRC OF REQUIREMENTS.

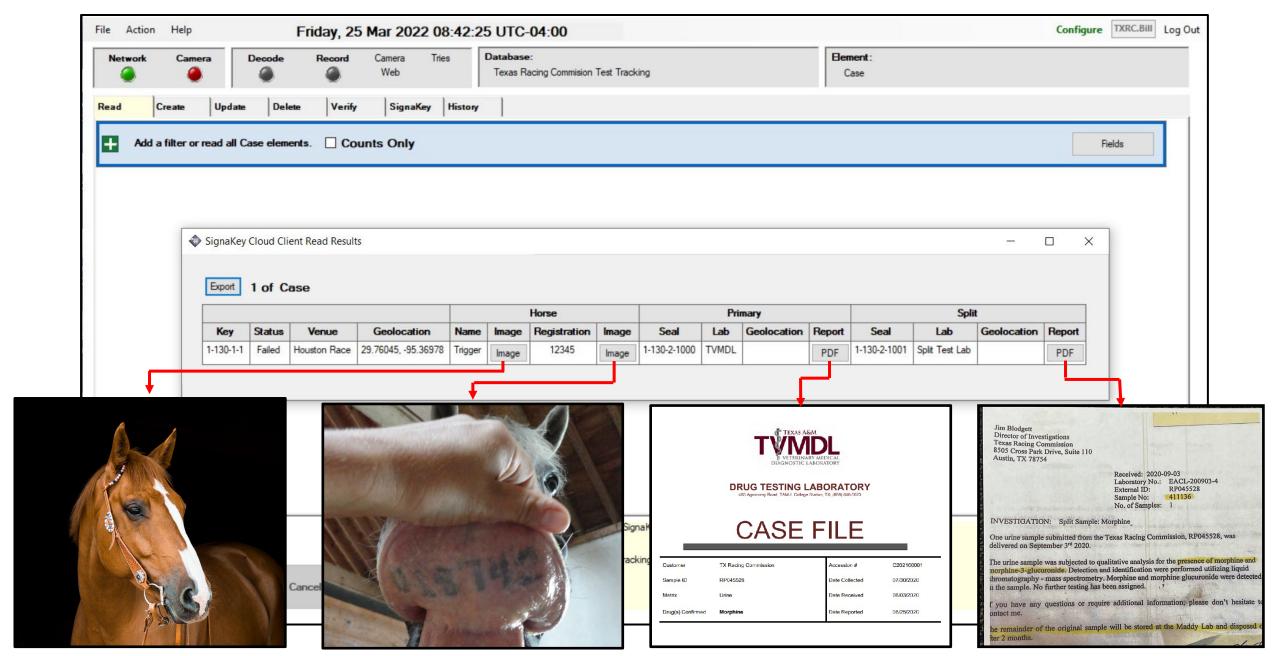


IN OOC SETTING OPTION

- ✓ SCHEDULE WITH TRAINER & TXRC VET OR VET TECH.
- ✓ NEED TE SAMPLE BAG/4 VIALS/URINE CUP/HAIR COMB & BAG.
- ✓ CHECK FOR IPHONE SIGNAL COVERAGE.
- ✓ USE ALL SAME PROCEDURES AS BARN PLUS HAIR IF NO URINE.
- ✓ PUT SAMPLES IN BAG, SECURE SEAL, SCAN SIGNAKEY.
- ✓ COMPLETE SIGNATURE CARD WITH TRAINER WITNESS.
- ✓ RETURN BAG TO SPC, SCAN SAME AS RACE DAY FOR C-O-C.



COMPLETE RECORD FORMAT



STATUS SUMMARY

- SAMPLE BAGS ARE GENERIC SHOULD BE TXRC CUSTOMIZED.
- DATA BASE WORKS BUT NEEDS TO BE CUSTOMIZED.
- PHONE APP "RACE-TRACK" DESIGNED BUT NOT YET FULLY PROGRAMED
- 12 WEEK PILOT THRU JUNE 59 RACE DAYS APR 22 THRU JUNE 30.
- EVERYTHING DESIGNED TO BE HISA COMPLIANT