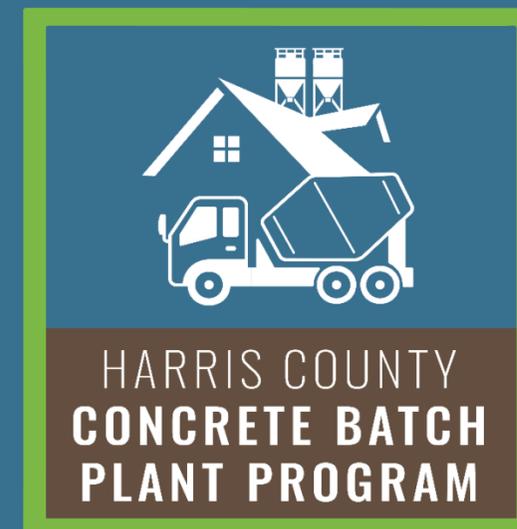


Harris County Concrete Batch Plant Inspection Program

NACAA Fall Membership Meeting

October 18, 2023

Matt Van Vleck – Air Monitoring Services Manager

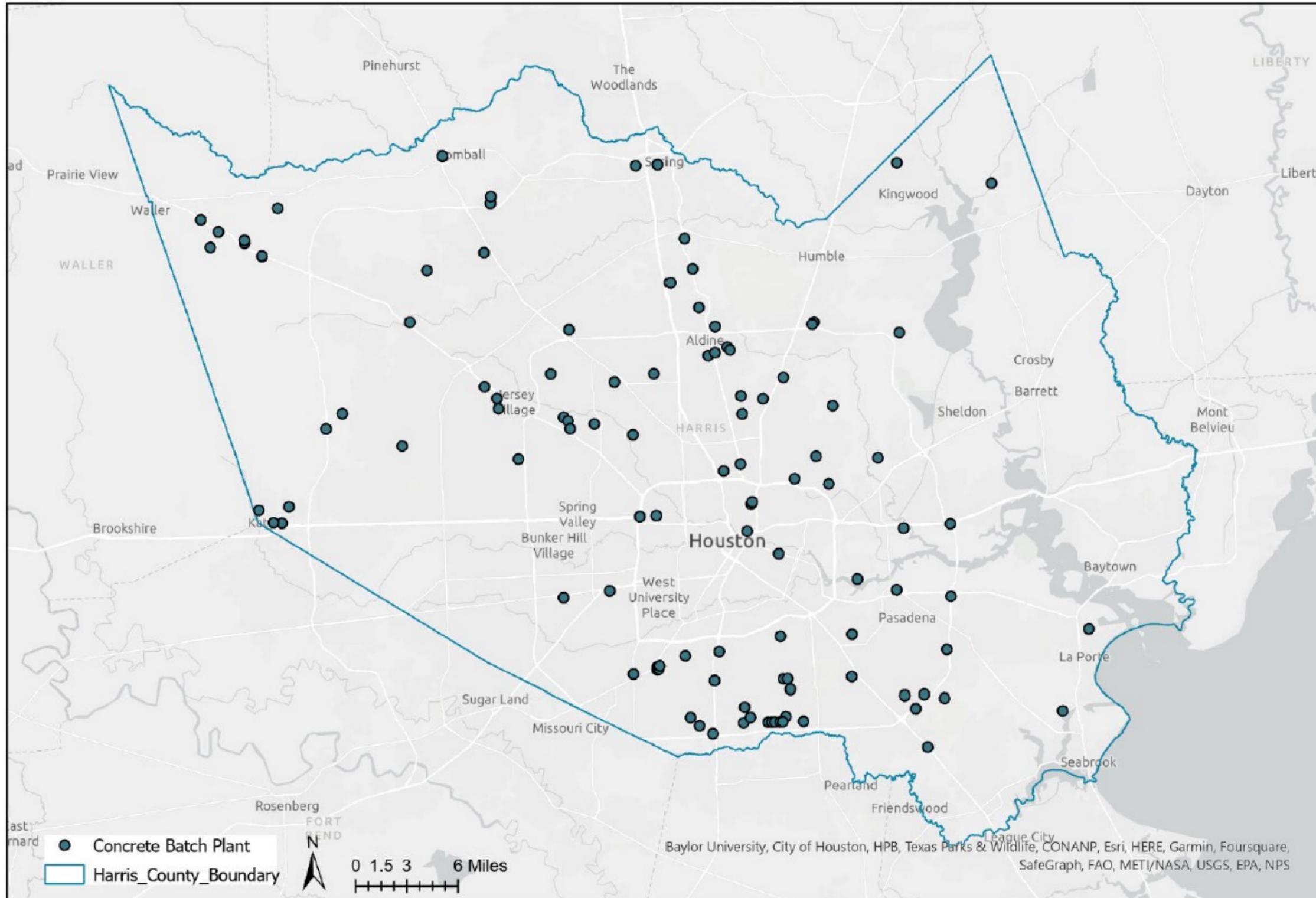


Concrete Batch Program

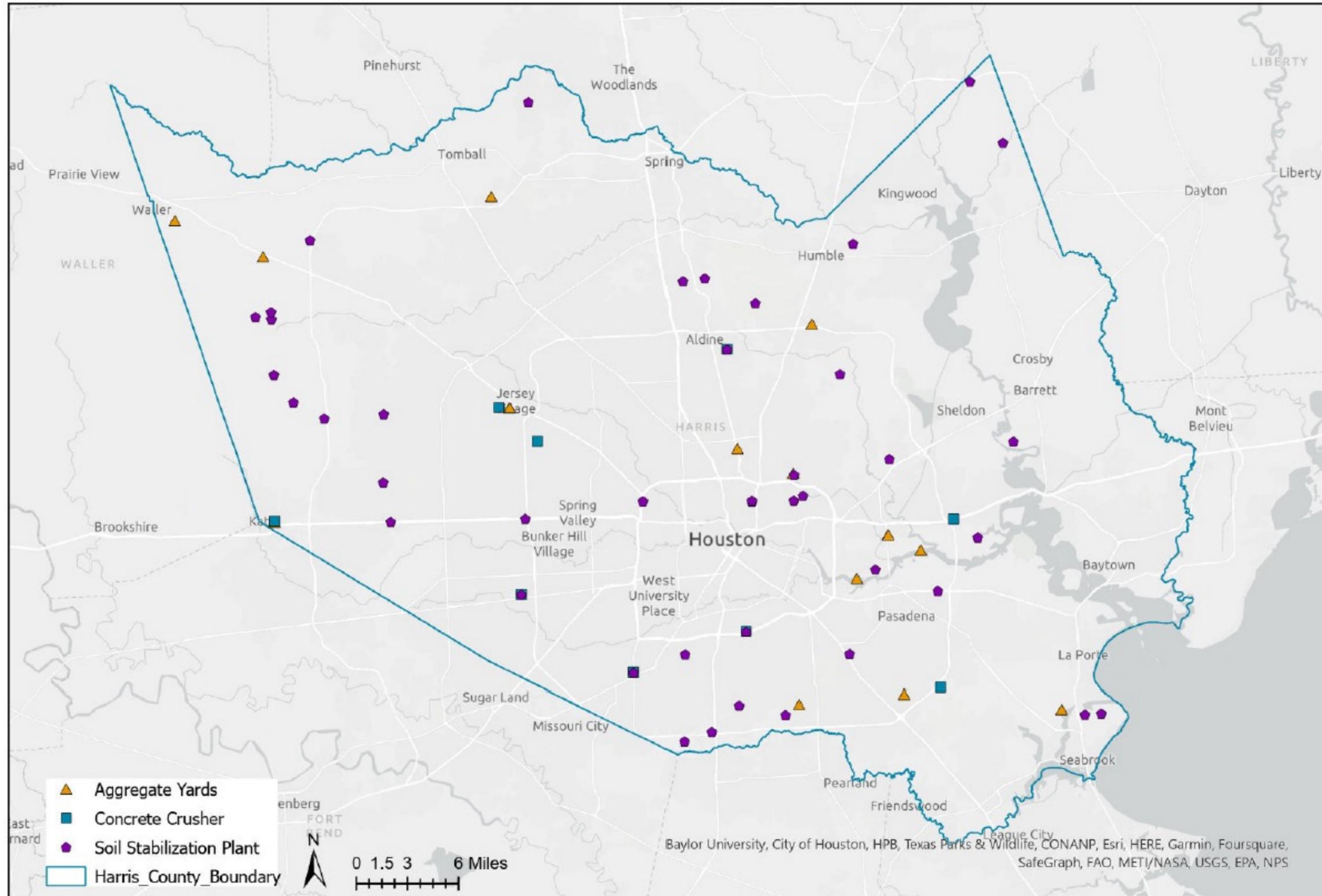


- Harris County Pollution Control Services (PCS) began its Concrete Batch Plant Program in 2020
- The program is designed to take a proactive look at the numerous concrete batch plants in Harris County
- Two full time investigators conduct unannounced proactive inspections and complaint investigations at concrete batch plants and related facilities
- 485 inspections conducted and 218 Violation Notices issued since July 2020

Concrete Batch Plants



Related Facilities



Proximity to Receptors



Proximity to Receptors



Proximity to Receptors



Proximity to Receptors



Common Permit Violations

Harris County Pollution Control Services

101 S. Richey, Suite H
Pasadena, Texas 77506
Main: 713-920-2831

FAX: 713-274-6475

PERMANENT CONCRETE BATCH PLANT INSPECTION CHECKLIST

Inspection ID: 193747 Date: 6/7/23 Time: 1:21 PM 2:40 PM
 PCS I.D. No. 11864 Key Map: 497M
 Facility Name: Concrete Ready-Mix Photos: 16
 Physical Address: 1492 Gravel Street, Houston, TX 77015 Telephone No.: 281.555.4444
 Contact Person: John Smith Title: Owner
 Mailing address: 1492 Gravel Street, Houston, TX 77015
 Weather: Clear Wind Direction: SSE Wind Speed: 4-7 MPH
 Primary SIC Code: 3273 Secondary SIC Code: n.a
 Facility Volume: < 30 cu yds/hr < 200 cu yds/hr > 200 cu yds/hr
 Facility Status: Permanent Temporary Specialty
 Description of Facility: Dry (rotary mix truck) batch plant, one drop point, dual elevated storage silos
 Description of Area Surrounding Facility: Industrial, adjacent to I-10 @ Beltway, numerous CBP and rock crushing operations in the immediately area.

AIR

Permit No.: 76126L001 Permit Issued Date: October 7, 2015 (applicable to CBP w/ standard permits issued 2012-2021)

Instructions: C = Compliant, V = Violation Found, NA = Not applicable. Please document the compliance status by selecting the correct box below for each item. If a violation is noted, add a description of the violation in the discussion area below the appropriate section.

C	V	NA	STANDARD PERMIT SECTION 3: ADMINISTRATIVE REQUIREMENTS
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	(J) Records shall be maintained on-site for a rolling 24-month period for the following:
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	(i) 30 TAC § 101.201, Emissions Event Reporting and Recordkeeping Requirements;
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	3(J)(ii) 30 TAC § 101.211, Scheduled Maintenance, Startup, and Shutdown Reporting and Recordkeeping Requirements
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(iii) production rate for each hour and day of operation that demonstrates compliance with subsection (8)(A),(9)(A), or (10)(A) of this standard permit, as applicable;
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(iv) all repairs and maintenance of abatement systems;
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(v) Material Safety Data Sheets for all additives and other chemicals used at the site;
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(vi) road cleaning, application of road dust control, or road maintenance for dust control;
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(vii) stockpile dust suppression;
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(viii) silo warning device or shut-off system tests;



Damaged/Disconnected Air Abatement Equipment



Failure to maintain fabric or cartridge filters and collection systems



Visible emissions from storage silos



Faulty suction shroud and central dust collection unit



Failure control emissions from in-plant roads



Failure to pave batch and material delivery routes with a cohesive hard surface



Tracking & Road Dust Emissions



Improper storage of sand and aggregates



Failure to maintain a 12-foot dust suppressant fence



Failure to maintain three-walled bunkers



Industrial Solid Waste Violations



Water Code Violations



Water Code Violations

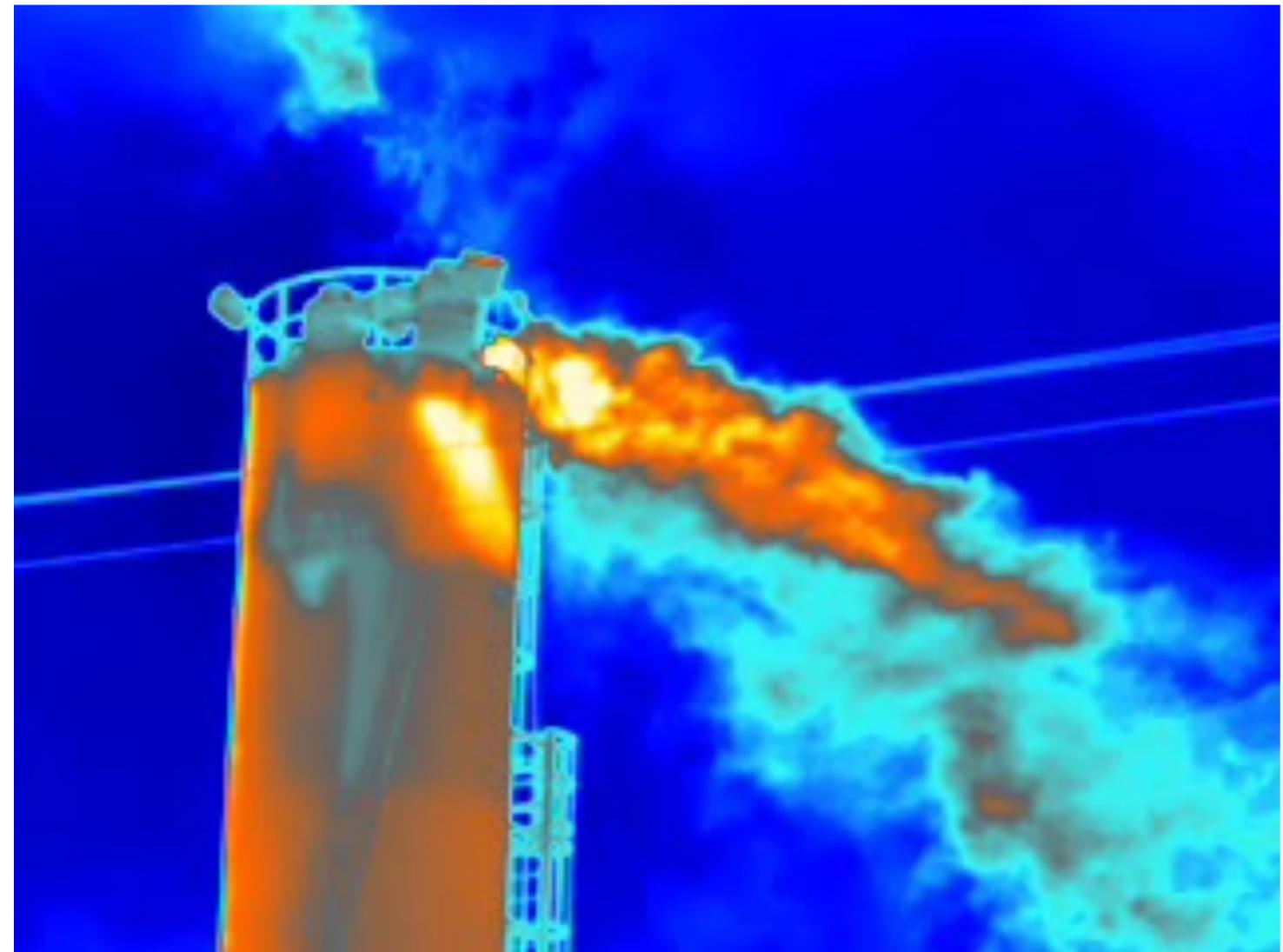


FLIR optical gas imaging (OGI)

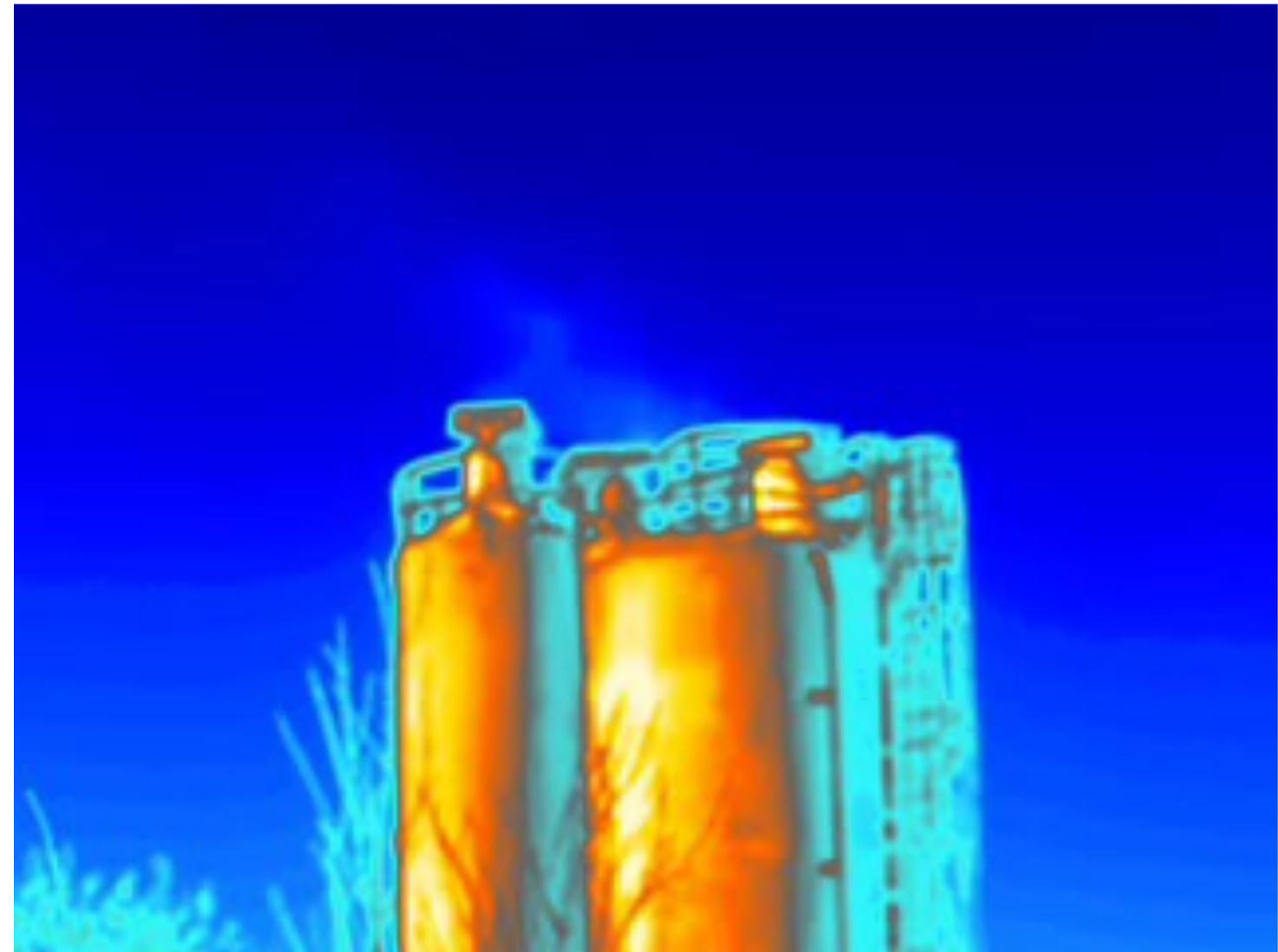
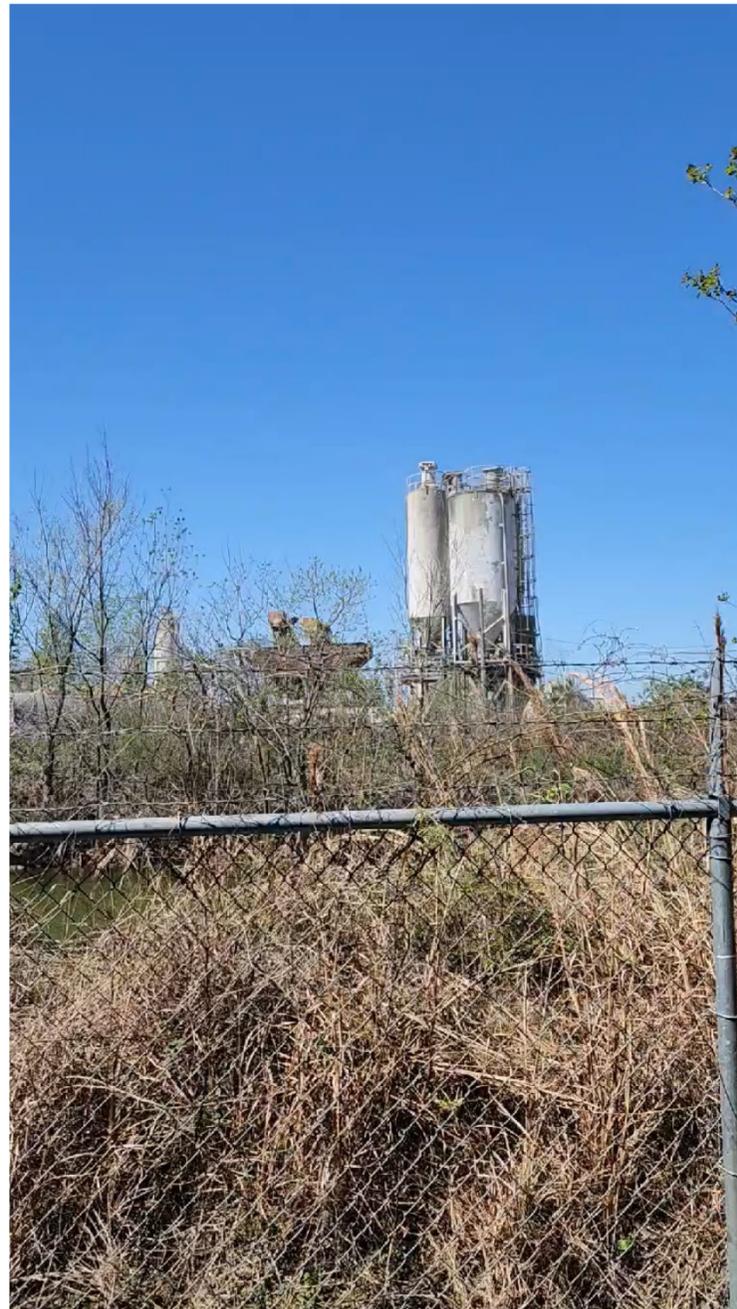
- Infrared camera commonly used to find invisible gas (Hydrocarbon) leaks in industrial settings.
- This camera can also detect fine particulate matter due to a temperature difference between the particulate and background and the particulate's IR reflectivity.



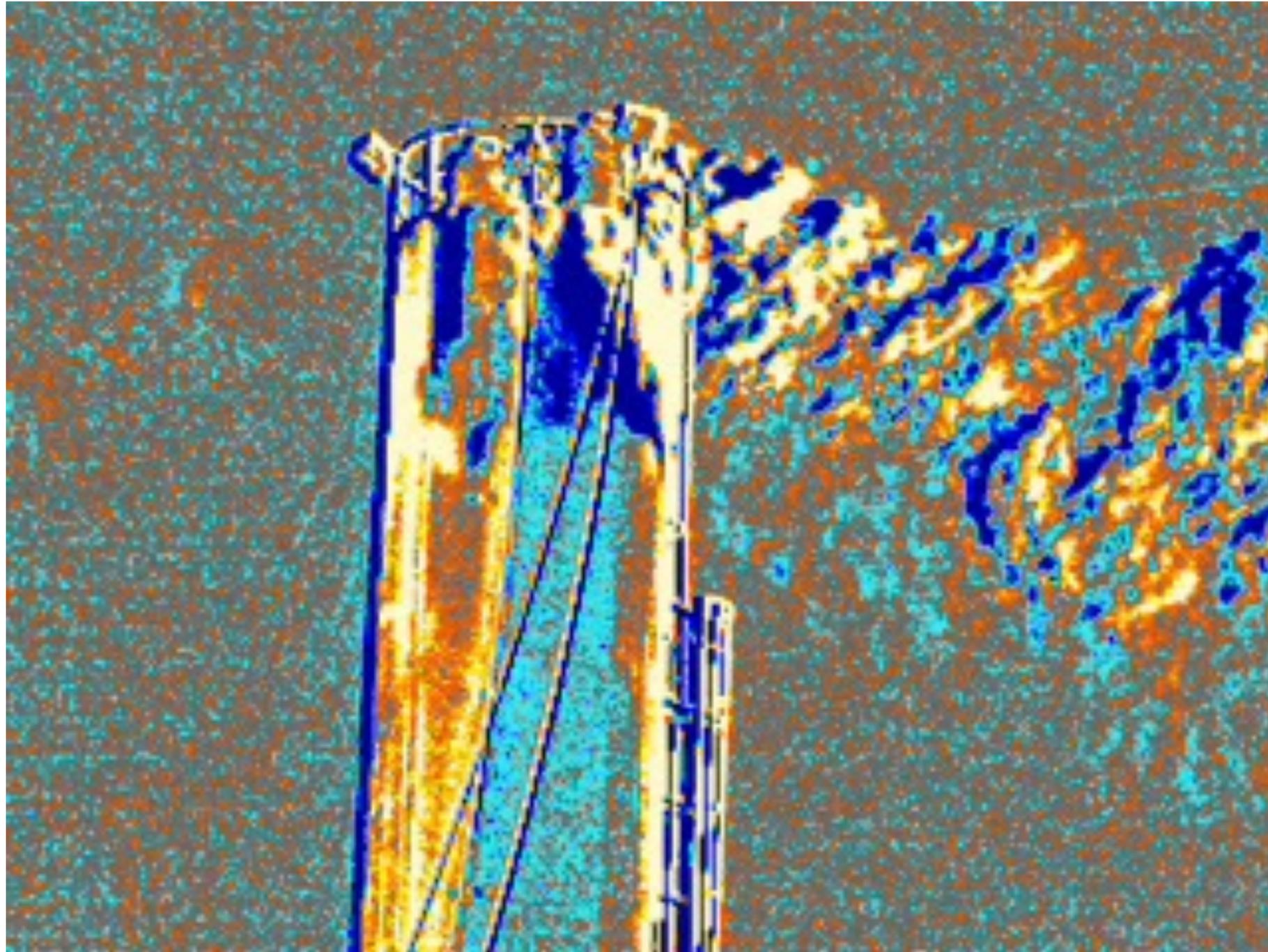
FLIR Camera vs. Standard Digital Camera



FLIR Camera vs Standard Digital Camera



High Sensitivity FLIR Video





Q&A



Harris County
Pollution Control