Hinkson Science Team Meeting Minutes

A meeting of the Hinkson Creek Science Team occurred on May 9, 2023, starting at 3:00 PM via webex call.

Science Team Members

Name	Organization	Area of Interest or Role	Present/Absent for Meeting
Venessa Madden	U.S. Environmental Protection Agency	Water Chemistry/Water Quality	Present
Paul Blanchard	Retired	Hydrology/ Water Quality	Present
Robert Voss	Missouri Department of Natural Resources	Water Chemistry/Water Quality/CWA Section 303d	Absent
John Holmes	Allstate Consultants	Civil/Environmental/Water Resources Engineer	Present
Robb Jacobson	U.S. Geological Survey	Fluvial Geomorphology/ Hydrology	Present
Dave Michaelson	Missouri Department of Natural Resources	Aquatic Macroinvertebrate Biologist/ Water Quality	Present
Chris Schmitt	Retired/Emeritus U.S. Geological Survey	Aquatic Toxicology	Present
Sean Zeiger	Lincoln University	Hydrology and Watershed Modeling	Present
Alba Argerich	University of Missouri Columbia	Water Quality/Stream Ecology	Present

Other People in Attendance: Lynne Hooper, Michele Woolbright, Jon White, Nicki Rinehart

Minutes

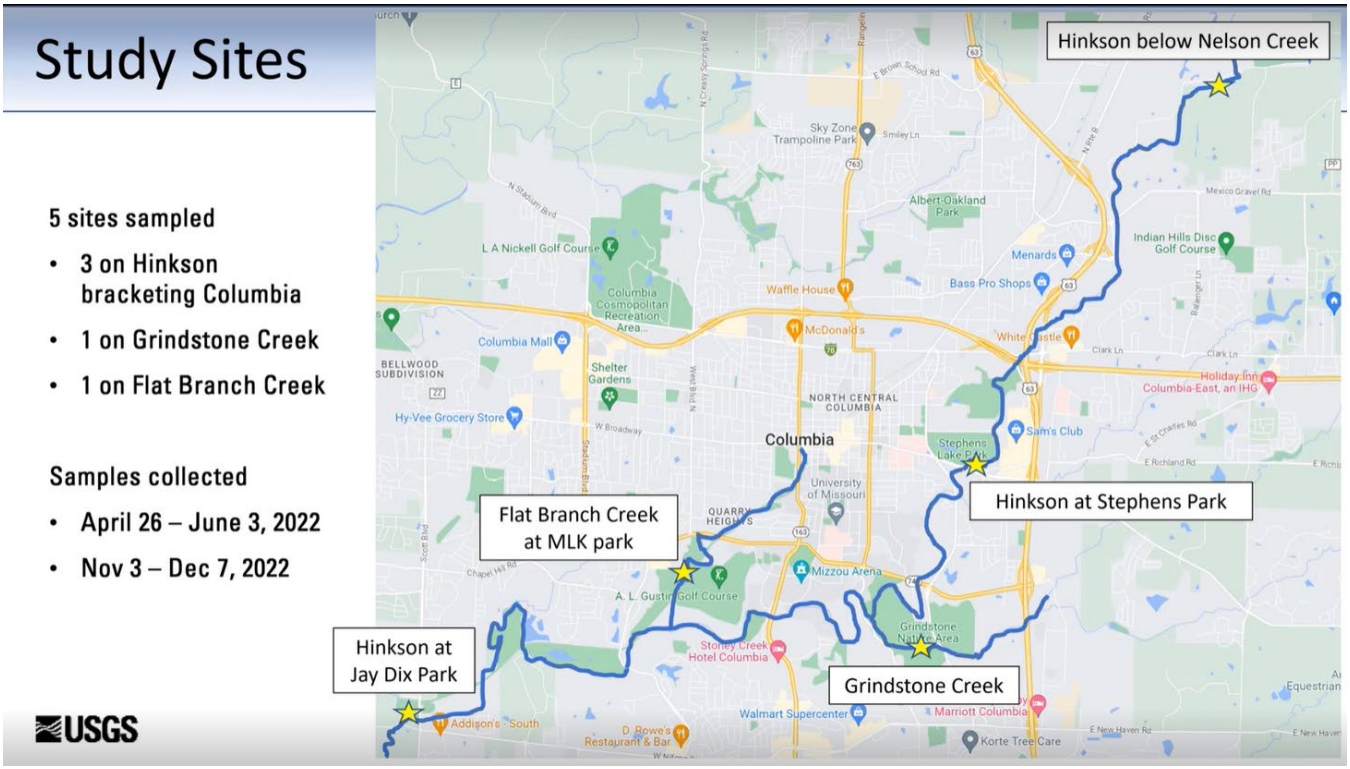
The minutes for March were tabled, no meeting occurred in April.

Discussion Items

1. USGS Contaminate Monitoring od Hinkson Creek
    - Dave Alvarez gave a brief overview of analytical results
    - Spring & Fall sampling for organic and inorganic contaminants
    - Surface water (Grab and passive samples), pore water, and bed sediment
    - Passive samplers deployed ~1 month, dissolved contaminants, time weighted average
        - Semipermiable Membrance Device (SPMD)

- Fat soluble organics
- Polar Organic Chemical Integrative Sampler (POCIS)
  - Water soluble organics

- Group discussion



Sample Types and Analyses Performed

Surface Water	
Passive Sampling	Grab Sampling
Polycyclic Aromatic Hydrocarbons (PAHs)	"Recoverable" metals
Chlorinated Pesticides	General water quality
Polychlorinated Biphenyls (Total PCBs)	Cations (Al, Ca, Fe, K, Mg, Mn, Na, Sr)
Polybrominated Diphenyl Ethers (PBDEs)	Anions (Br, Cl, F, NO_2+NO_3, PO_4, SO_4)
Current-Use Pesticides	Nutrients (total N, total P)
Wastewater Indicator Chemicals	PFAS
Pharmaceuticals	
PFAS	

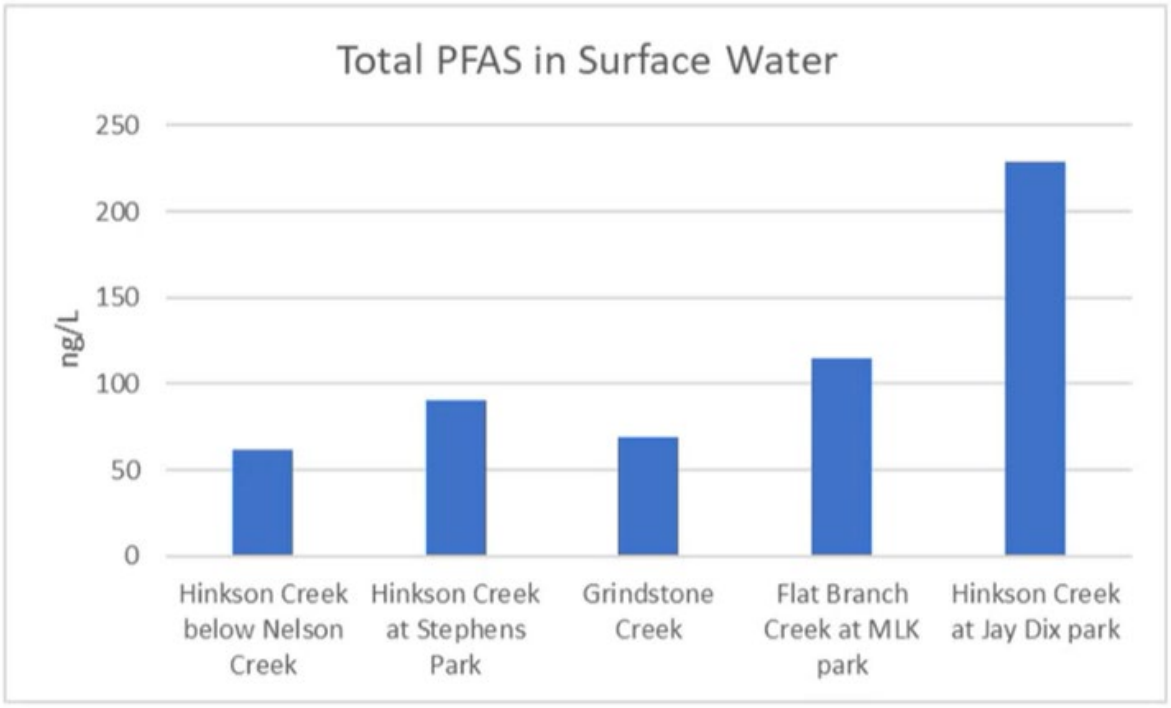
Sediment Pore Water
"Recoverable" metals
General water quality
Cations (Al, Ca, Fe, K, Mg, Mn, Na, Sr)
Anions (Br, Cl, F, NO_2+NO_3, PO_4, SO_4)
Nutrients (total N, total P)

Bed Sediment
Polycyclic Aromatic Hydrocarbons (PAHs)
Chlorinated Pesticides
Polychlorinated Biphenyls (Total PCBs)
Polybrominated Diphenyl Ethers (PBDEs)
Wastewater Indicator Chemicals
PFAS
"Recoverable" metals
Total Hg

General water quality = pH, alkalinity, conductivity, hardness, ammonia, and dissolved oxygen

"Recoverable" metals = Ag, Ca, Cr, Co, Cu, Ni, Pb, Se, V, Zn

April 2022



PFBA most frequently identified

Next Meeting

The next meeting for the Science Team is scheduled from 3 pm to 5pm on June 6, 2023, via web interface call.