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arose a need for a large, long-range, and dependable supply of fresh water. The construction of the San Jacinto Dam, completed in 1953, was not only designed to provide a dependable yield of 150 million gallons per day but to also fulfill municipal, industrial, recreational, mining, of the water purification plant was completed in 1954.

The opening of Houston's Intercontinental Airport in the 1960's resulted in continued growth in the area with the communities of Kingwood and Forest Cove beginning to fill in the watersheds' southern area. The watershed is very rural and is covered in deciduous forest and palustrine (marshy) forested wetlands with pastureland dominating and Peach Creek as not meeting the most northern section.

Water Quality

Water quality is the physical, chemical and biological characteristics of water. Drinking water purity, safety of human contact, and ecosystem viability are all used to characterize water body health. The Texas Commission on Environmental Quality and irrigation purposes. Construction (TCEQ) is responsible for assessing and maintaining the ecological health of streams throughout Texas. Historically, data indicated that no substantial concerns existed for these streams, which are tributaries to Lake Houston. However, as urban development increases the possibility of negative changes to water quality and biological conditions also

> TCEQ has listed both Caney Creek their contact recreational use due to

elevated levels of bacteria. Elevated levels of bacteria likely stem from sources such as intermittent municipal collection system overflows, failing septic systems, pet waste, wildlife, avian populations, and farms and ranches scattered throughout the watershed. High concentrations of bacteria are observed when bacteria are transported from their source by rain water and

washed into local streams.

Determining a single cause for high bacteria levels is difficult because there are such a large number of potential sources. It will take an effort by water quality managers, residents, and other stakeholders to help solve the problem. Water quality managers are currently conducting studies to help determine major contributors of bacteria to the watershed. When these sources are identified a number of solutions may be implemented which include:

- Using appropriate enforcement
- Repairing and maintaining failing infrastructures

 Developing watershed management plans

What can YOU do to prevent bacteria from entering your watershed?

 Report any leaking sewer lines or sewer overflows to the proper utility district

 Utilizing Best Management Practices (BMPs)

actions if violations are found

 Pick up and properly dispose of pet waste at home and in community parks

 Perform routine maintenance of septic systems to avoid leaks and costly repairs

 Contact your local county extension agent to learn how to best manage cow, horse or other livestock waste

water quality, and biological data were collected to provide a better understanding of how they interact and affect the riparian ecosystem.

algal populations reduces dissolved oxygen leading to noxious conditions, fish kills, and other aquatic stresses. Results of nutrient data show no exceedances above the state screening level. Elevated E. coli bacteria counts were observed at both Caney and Peach Creek sites with all elevated results

observed in the winter months.

veys. Higher scores equate to higher aquatic life use. The scores for Peach Creek and Caney Creek indicate a high aquatic life use. **Parks**

Lake Houston Park

Lake Houston Park is a beautiful, lushly forested park with nature trails perfect for spot photography, nature study, and bird watching. The park is comprised of nearly 5,000 acres located thirty miles north of Houston. The park is situated at the confluence of Caney Creek and the East Fork of the San Jacinto River, straddling the Harris-Montgomery County line.

Park camping facilities include several walk-in campsites complete with fire ring, tent pad, picnic table, and grill. Running water is available along with shower buildings and restrooms located near each campground. Lake Houston Park offers hiking, biking, and equestrian trials along with various water activities. Ponds are located well off the beaten path surrounded by pines and cypress with an abundant animal population.



Water Quality

Managing

To better understand the effects of urban development, the U.S. Geological Survey (USGS), in cooperation with H-GAC and TCEQ, conducted a systemat- in-stream monitoring for basic ic watershed monitoring study to characterize water-quality conditions on Lake Creek, Peach Creek, and Caney Creek tributaries to Lake Houston. The watersheds of these streams are similar, dominated by forests and forested wetlands. Streambeds are predominately sand and gravel with isolated pockets of silt and clay. Hydrologic,

In 2004 the USGS conducted continuous water quality parameters including water temperature, specific conductance, dissolved oxygen, and pH. They tested additional water samples for nutrients; ammonia, nitrates, and phosphates. These nutrients can enrich a water body which leads to higher rates of plant growth and wide spread algal blooms. Death and decomposition of



The USGS also documented the types and

determine the biological diversity of the water

bodies. Fish and benthic-macroinvertebrate

community structure and stream-habitat con-

ditions were used to determine a score com-

paring biological components with habitat sur-

numbers of fish and micro-organisms to

LEGEND

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Watershed Profile

Caney Creek - 222 square miles Peach Creek - 151 square miles

Rainfall

Approximately 62 inches per year

Elevation

Caney - 377 feet at the headwaters to 42 feet at the mouth Peach - 433 feet at the headwaters to 53 feet at the mouth

Geology

Sedimentary formations consisting of material deposited by water

Clays, silts and local sands. Poorly-drained, tight clays

Major Ecoregion

South Central Plains

Vegetation

Loblolly Pine, Oak, Pecan and Willow

Cities

Kingwood Forest Cove New Waverly Cut and Shoot New Caney Splendora

Tributaries

McRae Creek Boggy Creek

Turkey Creek

Spring Branch

Cagle Branch

Issues

Elevated bacteria levels

Parks

Sam Houston National Forest Albert Sallas Park Lake Houston Park Montgomery County Park

Golf Courses

Texas National Country Club Roman Forest Country Club

No matter where you live, work or play, you are always in a watershed an area of land that drains to a particular creek, river, bayou or lake. **Understanding our role in** watershed management is

critical to the protection of our waterways, floodplains, and drinking water, as

and fishing areas.

Watersheds

well as our recreational

As our population grows, so do the risks to our waterways from activities in the watershed.



Contacts

For more information about your watershed, please contact the following:

www.h-gac.com

TCEQ Region 12 www.tceg.state.tx.us

(713) 767-3500

Harris County Flood Control District www.hcfcd.org (713) 684-4000

Harris County Precinct 1 www.co.harris.tx.us/comm lee/ (713) 755-6111

Harris County Precinct 4 www.hcp4.net (281) 353-8424

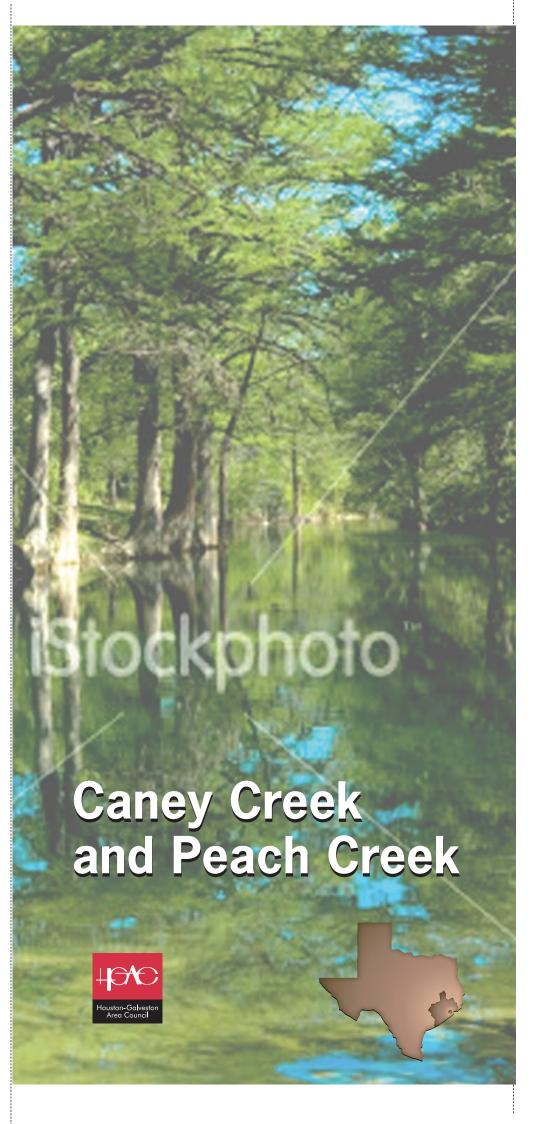
Montgomery County www.co.montgomery.tx.us (936) 336-4558

San Jacinto County www.co.san-iacinto.tx.us/ips/cms









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Caney Creek and Peach Creek Watersheds

Caney and Peach Creek watersheds are located in southeastern Texas, approximately 40 miles north of Houston. The headwaters of Peach Creek originate just east of the Walker-San Jacinto County line and north of SH 150. The southern most extent of the watershed is the confluence of Peach and Caney Creeks, approximately three miles from Lake Houston. The headwaters of Caney Creek originate just east of New Waverly and north of SH 150 in Walker County. The southern most extent runs through the entire length of Montgomery County to the confluence with the East Fork of the San Jacinto River before entering Lake Houston at Kingwood in Harris County.

History

A major period of expansion began in the 1870s with the construction of several railroads marking the beginning of the great lumbering boom. Commercial lumbering had begun prior to the Civil War, but access to the river hampered efforts to utilize the area's rich timber resources. Over the next four decades most of the areas thick pine forests had been deforested which permanently transformed the landscape and economic base into raising livestock and farming.

In 1932, the area experienced a dramatic change in economics when oil was discovered in south central Montgomery County. The discovery of the Conroe oilfield immediately triggered a tremendous oil boom and within days thousands of fortune-seekers, wildcatters, roughnecks, and financiers, flooded the area. The Conroe oilfield was once the third largest in the United States. By the 1990s, the field that reestablished the Gulf Coast region as an oil province reported cumulative crude production of over seven-hundred million barrels. As Houston's population grew to more than one million in 1950 there