Benthic Macroinvertebrate Count/Chemical tests
Baker Creek by SDMS 7th and 8th grade students

10/25/26

8th grade water quality rating with benthic macroinvertebrates

Good

2/28/25

8th grade water quality rating with benthic macroinvertebrates

Fair

7th grade average chemical data

Turbidity-30

pH-7

Nitrate-.5

Nitrite-.1

Phosphate-2.5

"Pretty clean based on results." "The nitrate and nitrite levels are low which is good since there is no extra fertilizer (in the creek)."

9/29/2023

7th grade Chemical testing averages with UT K-TESST

Turbidity-40

pH-7

Nitrate-10

Nitrite-.5

Phosphate-10

9/23/2023

8th grade students- Benthic Aquatic Macroinvertebrate Count:

Fair quality rating of 11

"I think it's not that healthy, but it's pretty healthy for a local creek. I believe this because there are many different types of species living in it."- student

"It's not too bad. It is somewhat healthy because there were quite a few species. There probably would've been more if there were more than one teacher collecting the water." -student (This day students could not get outside so samples were brought indoors which might have affected the results).

4/6/2023

8th grade students- Benthic Aquatic Macroinvertebrate Count:
Fair rating of 11

"Baker creek is healthy compared to other creeks. After looking at bugs from baker creek there were 3 types of bugs that are sensitive taxa, and we found 2 bugs that are somewhat sensitive taxa, meaning that baker creek is a healthy creek."- student

9/30/2022

8th grade students- Benthic Aquatic Macroinvertebrate Count: Students look for biodiversity in the creek to assess the health.
Fair rating of 12. Most students agreed if we had more time than we could have found more species and therefore been higher.

4/22/22- Earth Day

7th grade students for chemical tests:

pH level: 7.5

Dissolved Oxygen: 9.3ppm

Nitrates: less than 5 ppm

Turbidity: less than 10 very clear

Chlorine: .035

All results were in the healthy range. Students agreed that based on these tests Baker Creek is in good health.

2/8/2022

7th grade students for chemical tests:

pH level: 7.67

Phosphates: 2 ppm

Dissolved Oxygen: 10.78

Nitrates: 5 ppm

Turbidity: less than 10 very clear

The results we got were in the range of healthy. There was some trash and dirt found by students to be pollutants but other than that the creek is healthy. We can see the bottom of the creek clearly and we found some little and not so little craw dads and a salamander in the water.

2/7/2022

8th grade completed a 30-minute sampling starting from 10:30am. Water quality rating is 19 so it is good water quality. pH 7

9/9/2021

8th grade completed a 45-minute sampling starting from 10:00am. Water quality rating is a 17 so it is good water quality. No pH was taken

2/26/2021

45 minute sampling from 10:00am. Water quality rating is a 19 so it is good water quality. No pH was taken.

10/06/20

Based on what we collected during 4, 45-minute data collection sessions, we got a score of 19 which means that our water quality is good. The pH is a 8.0 which is healthy.

10/25/19

Based on what we collected during a 2 hour period on 10/25/19, we got a score of 25 which means that our water quality is excellent. We think that everyone should help keep our creek clean for as long as possible

8/22/19

Based on collecting in the Baker creek preserve and by the bridge near our school we got a high water quality rating of 34, which is excellent water quality. **Data** collected from Baker Creek.