


CHLOE'S ENTRY - Winner, 9 & 10 years age group 2013

Water Quality of Mudgeeraba Creek


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Division: 4-5
Category: Scientific Investigation
336363

Aim
To see if the water quality in Mudgeeraba Creek deteriorates from where the creek starts to where it ends.


TEST 2
Location-
Borogays Road, Mudgeeraba
Results-
PH Level - 6.8
Alkalinity - 50
Clarity - Clear with a few floating particles.
Observations-
The water was clear and just a little bit muddy on the banks.



TEST 3
Location-
Robina Parkway, Clear Island Waters.
Results-
PH Level - 6.3
Alkalinity - 50
Clarity - Dirty with many particles floating and coloured a shade of yellowish brown.
Salt - 32
Observations-
The creek looked very dirty. It looked muddy and there was rubbish everywhere most likely thrown from cars.

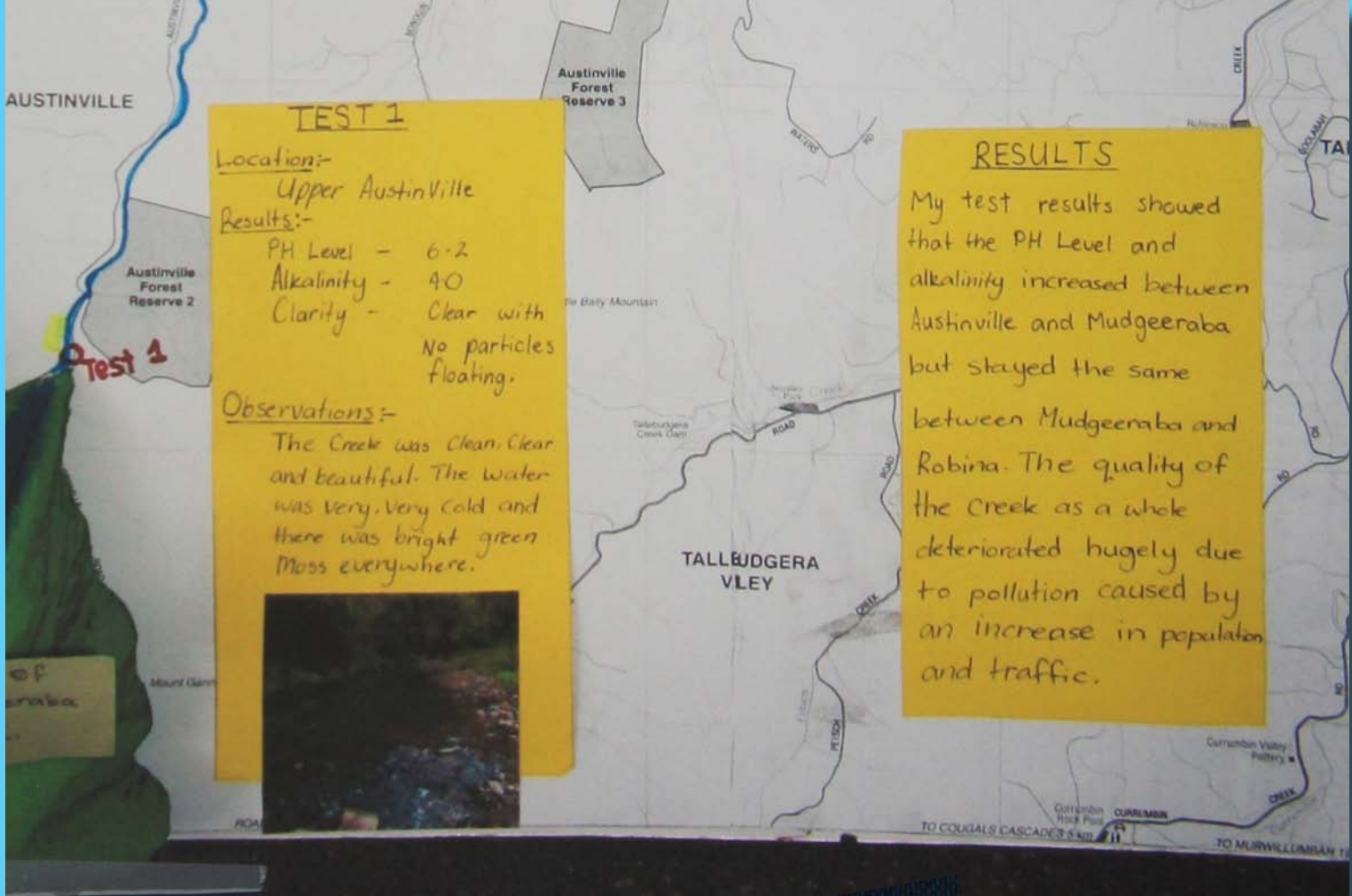


TEST 1
Location-
Upper Austinville
Results-
PH Level - 6.2
Alkalinity - 40
Clarity - Clear with no particles floating.
Observations-
The creek was clean, clear and beautiful. The water was very, very cold and there was bright green moss everywhere.



RESULTS
My test results showed that the PH level and alkalinity increased between Austinville and Mudgeeraba but stayed the same between Mudgeeraba and Robina. The quality of the creek as a whole deteriorated hugely due to pollution caused by an increase in population and traffic.





TEST 1

Location:-

Upper Austinville

Results:-

- PH Level - 6.2
- Alkalinity - 40
- Clarity - Clear with No particles floating.

Observations:-

The Creek was Clean, Clear and beautiful. The water was very, very cold and there was bright green Moss everywhere.



RESULTS

My test results showed that the PH Level and alkalinity increased between Austinville and Mudgeeraba but stayed the same between Mudgeeraba and Robina. The quality of the creek as a whole deteriorated hugely due to pollution caused by an increase in population and traffic.

Water Quality of Mudgeeraba Creek

Mudgeeraba
Creek State
School.

TEST 3

Location:-

Robina Parkway, Clean Island Waters.

Results:-

PH Level - 6.8

Alkalinity - 50

Clarity - Dirty with many particles floating and Coloured a shade of yellowish brown.

Salt - 32

Observation:-

The creek looked very dirty. It looked muddy and there was rubbish everywhere, most likely thrown from cars.



In addition to her map, Chloe kept detailed notes about her investigations including photographs and interviews. The judges were very impressed with her focus and attention to detail.

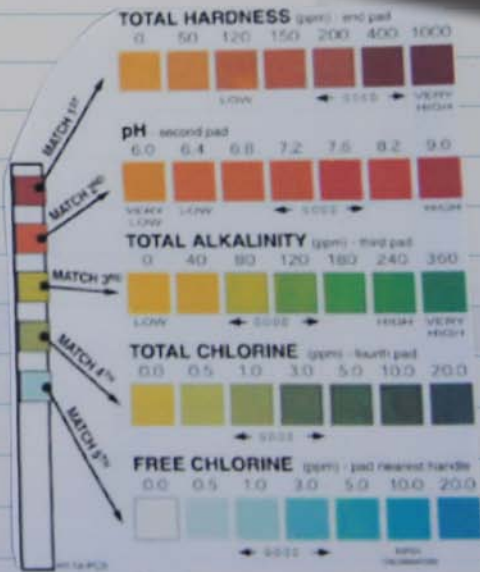
Great work Chloe!

May 15th July
I designed

TESTE

Location:-

Result:-



Question 4

What do you predict my test results will show?
If the top end of the creek is still clean I think your tests will show that the water quality will deteriorate because the creek quality has changed so much over the years.

Thursday 18th July 2013

Today I got my 3rd sample. I got it from under the bridge that crosses Mudgeeraba Creek on Robina Parkway right before were the Creek flows into Clear Island lake.

TEST 3

Location 3:-
Robina Parkway

Results:-

pH levels - 6.8

Alkalinity - 50

Clarity - Dirty with many particles floating and coloured a shade of yellow and brown.

Salt - 32

There appeared to be a small amount (0.5) of chlorine.

The creek at that spot was very dirty when I

Monday 8th July 2013

Today after school I went to RACQ at Robina and got a map of the Gold Coast City. It was the map I've been looking for because it shows the creek on one page from Springbrook to Clear Island Waters. I want to use the map on my presentation.
Next I went to Office Works and got a board to mount my poster.

Tuesday 9th July 2013

Today my daddy made me a block of expanded-foam and I shaped it into a mountain that I will use for Springbrook National park. This will make my poster 3-D. Afterwards I painted it green and left some spots for the trees. I left the river to paint Blue tomorrow.

