Kinley Creek Monitoring Sites Monitoring Data Summary for August 27th, 2020 – September 24th, 2020

Data Gaps

- At the KINA station, the turbidity, DO and specific conductivity data was not recorded during this monitoring period because the sensors were out for repairs. The pH sensor was buried from September 16th-17th, so that period of data was removed.
- At the KINB station, the turbidity sensor was buried in sediment from August 28th-31st, so the turbidity data was removed. DO data was not recorded during this monitoring period because the sensor was out for repairs.

SCDHEC Standards

• None of the Kinley Creek monitoring stations recorded any pH readings outside of the acceptable SCDHEC range of 6 to 8.5.

Storm Events

- The rain gauge along Kinley Creek recorded 5 storm events during this deployment period that resulted in a total of 5.1 inches of precipitation.
- Both the KINA and KINB stations recorded typical storm response patterns during this monitoring period.

Potential Illicit Discharges and Abnormal Events

• At the KINB station on September 3rd the pH dropped, and the specific conductivity increased, indicating there may have been an illicit discharge. The specific conductivity also increased on September 19th.

Flow Measurements

• No flow measurements were taken in the Kinley Creek watershed during this monitoring period.





Kinley Creek A (August 27, 2020 - September 24, 2020)



Note: Data gaps appear when the sonde is removed for calibration or when the flow depth is below the sensors

Kinley Creek A (August 27, 2020 - September 24, 2020)

Explanation of Statistics:

MINIMUM OBSERVED	The minimum of the values recorded by the datasonde in 15 minute intervals.
MAXIMUM OBSERVED	The maximum of the values recorded by the datasonde in 15 minute intervals.
MEDIAN OBSERVED	The median of all the values recorded by the datasonde in 15 minute intervals.
MEAN OBSERVED	The average of all the values recorded by the datasonde in 15 minute intervals.
STANDARD DEVIATION	The standard deviation of all the values recorded by the datasonde in 15 minute intervals.

Grab Sample Data:

	Sample 1		Sample 2		Sample 3		Sample 4	
Analyte (units)	8/31/2020		9/17/2020		9/17/2020		9/17/2020	
	Time	Results	Time	Results	Time	Results	Time	Results
Escherichia coli (MPN/100mL)	15:20	1,980	9:20	766	10:58	40	12:50	2,634
Total Suspended Solids (mg/L)			9:20	30.9	10:58	31.7	12:50	62
Total Phosphorus (mg/L)			9:20	0.094	10:58	0.11	12:50	0.16
Total Nitrogen (mg/L)			9:20	2.53	10:58	1.88	12:50	1.17

Analyte (units)	Sample 5		Sample 6		Sample 7		Sample 8	
	9/17/2020							
	Time	Results	Time	Results	Time	Results	Time	Results
Escherichia coli (MPN/100mL)	14:10	5,818						
Total Suspended Solids (mg/L)	14:10	144						
Total Phosphorus (mg/L)	14:10	0.21						
Total Nitrogen (mg/L)	14:10	0.72						

Notes: Sample 1 was taken during dry weather conditions. Samples 2-5 were taken during wet weather conditions.





Kinley Creek B (August 27, 2020 - September 24, 2020)



Note: Data gaps appear when the sonde is removed for calibration or when the flow depth is below the sensors

Kinley Creek B (August 27, 2020 - September 24, 2020)

Explanation of Statistics:

MINIMUM OBSERVED	The minimum of the values recorded by the datasonde in 15 minute intervals.
MAXIMUM OBSERVED	The maximum of the values recorded by the datasonde in 15 minute intervals.
MEDIAN OBSERVED	The median of all the values recorded by the datasonde in 15 minute intervals.
MEAN OBSERVED	The average of all the values recorded by the datasonde in 15 minute intervals.
STANDARD DEVIATION	The standard deviation of all the values recorded by the datasonde in 15 minute intervals.

Sampled Data:

Analyte (units)	Sample 1		Sample 2		Sample 3		Sample 4	
	8/31/2020		9/17/2020		9/17/2020		9/17/2020	
	Time	Results	Time	Results	Time	Results	Time	Results
Escherichia coli (MPN/100mL)	15:01	342	9:40	292	11:10	1,576	13:05	4,564
Total Suspended Solids (mg/L)			9:40	137	11:10	26.8	13:05	138
Total Phosphorus (mg/L)			9:40	0.12	11:10	0.068	13:05	0.2
Total Nitrogen (mg/L)			9:40	0.33	11:10	0.58	13:05	0.82

Analyte (units)	Sample 5		Sample 6		Sample 7		Sample 8	
	9/17/2020							
	Time	Results	Time	Results	Time	Results	Time	Results
Escherichia coli (MPN/100mL)	14:24	6,152						
Total Suspended Solids (mg/L)	14:24	223						
Total Phosphorus (mg/L)	14:24	0.25						
Total Nitrogen (mg/L)	14:24	1.04						

Notes: Sample 1 was taken during dry weather conditions. Samples 2-5 were taken during wet weather conditions.