



LEGEND

PROPOSED BUFFER



EXISTING STREAM



NOTES:

1. SAMPLING EVENTS THAT TOOK PLACE IN EARLIER STAGES OF THE REGIONAL STORMWATER MANAGEMENT PLAN FOR POMPESTON CREEK FECAL COLIFORM WAS FOUND FURTHER DOWN STREAM OF THIS SITE. WHERE THE SAMPLING TOOK PLACE IS WOODED AND NOT TYPICAL CANADA GOOSE HABITAT. IT IS MORE LIKELY THAT THE GEESE ARE FREQUENTING THE GRASSED AREAS ALONG MAPLE AND DAWSON STRETS. STORMWATE RUNOFF THEN CARRIES THE FECAL COLIFORM POLLUTION DOWNSTREAM. FECAL COLIFORM CAN BE A SERIOUS HEALTH RISK.
2. RCE PROPOSES A TWO PRONG SOLUTION TO THE FECAL COLIFORM PROBLEM DOWNSTREAM OF THE SITE. FIRST, RCE RECOMMENDS A VEGETATIVE BUFFER BE INSTALLED AROUND THE STREAM. THE VEGETATIVE BUFFER WILL TREAT THE STORMWATER AS THE RUNOFF FLOWS OVER IT. THE GEESE WILL FEED FURTHER AWAY FROM THE STREAM AND MAY LEAVE THE AREA COMPLETELY. THE BUFFER WILL SEVERELY LIMIT THEIR ACCESS TO THE STREAM. GEESE LIKE TO HAVE READY ACCESS TO WATER, THE BUFFER WILL ELIMINATE THAT ACCESS THAT THEY HAVE NOW.
3. THE SECOND PART OF THE PLAN IS TO IMPLEMENT A GOOSE MANAGEMENT PLAN FOR THIS AREA AND THE ENTIRE WATERSHED. GOOSE POPULATIONS ARE COMMON PROBLEM THROUGHOUT THE STATE AND MANY MUNICIPALITIES ARE IMPLEMENTING VARIOUS GOOSE MANAGEMENT PLANS TO MEET THEIR MUNICIPALITIES NEEDS AND BUDGET RESTRAINTS.
4. THIS BUFFER WILL NOT BE EASY TO CREATE BECAUSE IT WILL RUN THROUGH PRIVATE PROPERTY. THIS PROBLEM HAPPENS OFTEN WHEN TRYING TO CONSTRUCT A LONG BUFFER SUCH AS THIS. THE MUNICIPALITY SHOULD WORK WITH LAND OWNERS TO MAKE THE BUFFER AT LEAST 25 FEET FROM THE EDGE OF THE STREAM. THIS IS THE SHORTEST WIDTH OF A BUFFER WITH A MEASURABLE IMPACT ON RUNOFF. THE LONGEST RECOMENDED IS 75 FT.



BEFORE



AFTER



CHRISTOPHER C. OBROPTA, Ph.D., P.E.
PROFESSIONAL ENGINEER - NJ LICENSE # 37632

DESIGNED: _____ DATE: _____
CHECKED: _____ APPROVED: _____ DATE: _____
SPW CCO

MILESTONE 4 OF REGIONAL STORMWATER MANAGEMENT PLAN FOR THE
POMPESTON CREEK
NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DAWSON ST AND MAPLE ST RESTORATION, MOORESTOWN, NJ
VEGETATIVE BUFFER STRIPS

RUTGERS
New Jersey Agricultural
Experiment Station
WATER RESOURCES PROGRAM
14 COLLEGE FARM ROAD
NEW BRUNSWICK, NJ 08901

JOB	CONCEPT SHEET #
POMP	9
BID	TOTAL
9	12

DRAFT