

LARGE DIAMETER UV CIPP PLANNING,  
DESIGN AND INSTALLATION  
PRESENTED BY  
MIKE APP, SENIOR PM  
PRECISION TRENCHLESS LLC



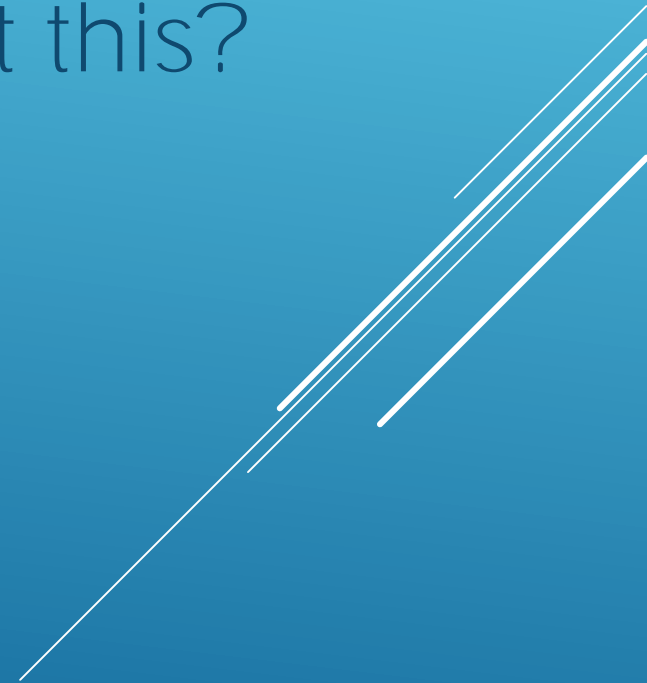
THE  
**PRECISION**  
Precision Industrial Maintenance, Inc. • Martin Environmental Services, Inc.  
Precision Trenchless, LLC  
**GROUP**

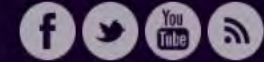


load into Onondaga Lake from  
the foreground is Metro- the re  
sewage facility for the City of S

## THE PROBLEM

How do you protect this?





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## Onondaga Lake – The Most Polluted Lake In America

Onondaga Lake is roughly 4.5 miles long, 1 mile wide, and lies in Central New York, next to the city of Syracuse. The lake has an average depth of 36 feet, with two deep basins. The northern basin is 62 feet deep; the southern is 65 feet deep. Ninemile Creek and Onondaga Creek are the lake’s two largest tributaries. Additionally, the discharge from Metro – Onondaga County’s sewage treatment plant – provides almost 20% of the water flowing into the lake and as much as 30% in the summer.



Sediment load into Onondaga Lake from Onondaga

### Land Rights

The Complaint

Declaration

FAQ

Goals

Legal Briefs

Maps

Onondaga Lake – The Most Polluted Lake In America

The “Cleanup” Plan



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1:39 PM

10/30/2017





RCP pipes ranging from 18 – **66"**, **circle and ovals** –

# HOW DO YOU DESIGN FOR A CIRCLE AND HOW DO YOU DESIGN FOR AN ELLIPSE???

WE USED THE ATV – 200 FOR ALL DESIGNS – BY ING EASY SOFT

WHY? – as we were designing for PD, we wanted to insure that the design parameters were the same on strengths on all designs. The program also allows for elliptical shaped pipes, which we had numerous of.

SO BIG PIPE, EVERYTHING IS BIGGER  
AND I MEAN EVERYTHING

THE PRESENTATION WILL FOCUS ON THE DN 1600 INSTALL AKA THE  
63" ELLIPTICAL PIPE







THE UV EQUIPMENT IS BIGGER





HOW DO YOU MOVE A CRATE 22,000 POUNDS  
INTO A DITCH?



TIME TO GET THE PACKERS ON, GOT A COUPLE GUYS??????





A RARE LOOK INTO A PIPE DURING A CURE



SAME PHOTO LIGHTS NOW OFF




FINISHED PRODUCT 63" UV CURED FIBERGLASS  
CIPP

# SUMMARY OF INSTALLATION

1. 63" ELLIPTICAL SHAPED PIPE – SAERTEX S+ LINER 10MM THICK
1. TOTAL TIME INSTALL TO COMPLETION – 14 HOURS
1. 63" RCP ELLIPTICAL SHAPED PIPE – 187 LF IN LENGTH
1. A TOTAL OF OVER 2,000 LF OF 60+ WAS INSTALLED ON THIS PROJECT IN OVER 8 DIFFERENT LOCATIONS, TOTAL INSTALL TIME WAS 15 DAYS
1. S+ LINER HAS A STRENGTH OF 2.9M PSI AND WAS 3<sup>RD</sup> PARTY TESTED AT OVER 4.0M PSI

# WHY WAS UV CURED FIBERGLASS SELECTED FOR THIS PROJECT?

1. ABILITY TO TAKE THE VARIED SHAPES ON THE PROJECT
  2. THE S+ LINER STRENGTHS AND DESIGN LIFE INSURED HYDROLOGIC CAPACITY WAS MAINTAINED AND INCREASED
  3. NO USE OF WATER TO POTENTIALLY SPILL INTO WATERWAYS
  4. ABILITY TO INSTALL IN WINTER AND EARLY SPRING IN NON ROAD ACCESS LOCATIONS.
- 



# QUESTIONS??

I CAN BE CONTACTED AT

MIKE APP

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