

**NEW TECHNOLOGY FOR HYDROGRAPHIC FEATURES
IMPLEMENTING THE NATIONAL HYDROGRAPHIC DATASET (NHD)
AT HIGH RESOLUTION (1:2400) IN NEW JERSEY**

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ABSTRACT

Water and water quality are critical issues for New Jersey. New Jersey is the most densely populated state in the US and a provider of drinking water for New Jersey and portions of New York. The NJDEP has major responsibility for maintaining drinking and swimmable waters.

NJDEP has a long history of implementing new technologies and high quality data into their regulatory framework. The NJDEP has just completed new watercourse delineations delineated at 2400, down to 10 ft widths on the ground using 2002 digital imagery (+/- 1 foot pixels ; +/- 4 ft horizontal accuracy). These delineations have added new detail and about 50% more water courses to the states' stream delineations.

In order to add value to these new, extremely accurate delineations, the NJDEP with grants from EPA, Region 2 and USGS, has begun an effort to conflate and code the new streams with National Hydro Dataset compliant codes. With these codes and other event tables such as Surface Water Quality Classifications, the new hydro will allow the NJDEP and federal agencies to more efficiently and effectively monitor and protect the water resources of the state.

Mr. Thornton will address these issues as well as the status of the project and also discuss related issues including the creation of new HUC12 boundaries for the state and recent LIDAR elevations data and the impact these data will have on the streams GIS layer.

KEYWORDS

Hydrography, NHD, Surface Waters, HUC, Streams. Lakes, GIS, Data Integration

INTRODUCTION

A powerpoint of this presentation will be posted at
<http://www.nj.gov/dep/gis/traininter.html>