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01/18/2005 08:15 AM

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cc <leila.goodwin@townofcary.org>, "Boone, Kelly"
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bcc

Subject Progress Energy Work Plan

Greetings Kim and Tim:

As a follow-up to our meeting with Progress Energy, I wanted to summary the work plan anticipated to provide Progress Energy the information they requested. Attached is a draft work plan for your review and comment. Let me know if this is consistent with your recollection of the meeting, and I will make additions, deletions or changes you suggest.

Thanks -

s/Tommy

(1) Progress Energy will provide an estimate of the land area that will require water and sewer service, and attempt to categorize the land areas as residential, commercial and industrial.

(2) Once the land areas are identified by Progress Energy, the Consultants will make an estimate of the wastewater flow volumes associated with the land area estimates.

(3) Once the wastewater flow projections are complete, the Consultants will use the QUAL2E model to determine if there is assimilative capacity in the Cape Fear River @ Buckhorn Dam to accommodate the flow.

(4) The Consultants will conduct the water quality modeling, and prepare a brief memorandum summarizing the following:

(a) Brief description of QUAL2E model, and the process undertaken by Cary and PWC to develop the model; DWQ's review process for the model; and results of the model when originally developed and run in 2001 to 2003. <Note: Just want Progress Energy to know that there is some history with the model.>

(b) General assumptions and criteria used to develop and run model

(c) Summary of modeling results using Progress Energy flow estimates/projections

(d) Discussion of TMDL issues upcoming for Cape Fear River, and clearly indicate that those issues can not be modeled with QUAL2E and that the assimilative capacity for TN and TP can not be defined at this time without the use of a new water quality model. Indicate that DWQ has a plan in place to develop a new water quality model to define the assimilative capacity for TN and TP.

(e) Outline the steps and procedures that Progress Energy should undertake to secure a NPDES permit for their own WWTP that discharges to the Cape Fear River.

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Meeting Summary Memorandum No. 015

To: Technical Advisory Committee
From: Western Wake Consultant Team
Meeting Date: January 13, 2005
Subject: Western Wake WRF Meeting with Progress Energy
Meeting Attendees:

Tom Trocheck, Progress Energy Marty Clayton, Progress Energy Kim Fisher, Town of Cary	Tim Bailey, Town of Cary Tommy Esqueda, CDM Kelly Boone, CDM
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Meeting Summary

On Thursday, January 13, 2005, from 11:00 AM to 12:00 PM, a meeting was conducted with representatives from Progress Energy, Town of Cary, and CDM to review and discuss land acquisition requirements for the Western Wake Regional Wastewater Management Facilities Project. The meeting was conducted at the Town of Cary Public Works and Utilities Operations Center. The objectives of the meeting were:

- Discuss potential routes for the effluent pipeline to the Cape Fear River and potential sites for the outfall structure at the river;
- Discuss obtaining permission for Town of Cary representatives to access property owned by Progress Energy for the purpose of evaluating effluent pipeline routes and outfall structure sites; and
- Discuss potential access roads across Progress Energy-owned land from Shearon Harris Road to the proposed water reclamation facility (WRF) site.

The Town of Cary and CDM presented an overview of the project and a map depicting the potential effluent pipeline routes and outfall sites that have been identified by GIS analysis.

Progress Energy staff indicated that in order to support the Western Wake WRF outfall structure between the Buckhorn Dam and the Chatham County/Harnett County line, they would need assurance that the Cape Fear River's assimilative capacity is sufficient to accept the additional wastewater effluent that would be generated by development of approximately 25,000 acres of property owned by Progress Energy. Town of Cary staff stated that any property that is within the service areas of one of the Western Wake Partners (Towns of Apex, Cary, Holly Springs, and Morrisville) has already been included in flow projections for the Western Wake WRF. Town staff reported that Chatham County was invited to participate in the Western Wake project but declined.

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Town of Cary staff stated that they believe it is unlikely that the NC Division of Water Quality will be able to report the total remaining assimilative capacity of the river. Town staff confirmed that the proposed Western Wake WRF discharge flow was modeled, but the remaining capacity of the river to accept additional wastewater flow was not determined. Town of Cary staff agreed to consider performing additional modeling to determine whether Progress Energy's proposed additional flow can be accommodated by the river. Town of Cary staff stated that the additional modeling would require information from Progress Energy regarding total land area and projected land use, including the amount of land that cannot be developed due to proximity to the Harris plant. Progress Energy agreed to provide that information.

Town of Cary staff requested that Progress Energy allow Cary's representatives to access the effluent pipeline routes and potential outfall sites in order to continue progress of the project. Progress Energy agreed to allow access and agreed to provide Cary with confidentiality and safety liability release agreements. Progress Energy stated that Town representatives would need to contact Progress Energy prior to visiting the sites.

Progress Energy representatives stated that the possibility of installing an effluent pipeline adjacent to the Progress Energy easement would need to be discussed with the Transmission Department due to possible impacts to grounding systems or future Progress Energy facilities. Staff indicated they would coordinate with the Transmission Department to determine potential impacts from effluent pipeline routes 4 and 11 on the map.

Town of Cary staff indicated that the Western Wake Partners would like to obtain a second access point to the WRF site from Shearon Harris Road. This access would require constructing a road across land owned by Progress Energy. Representatives from Progress Energy confirmed that they would be willing to consider an access road. Details regarding fencing and gates will need to be coordinated. Town of Cary staff noted that plans for gate and fencing configurations are flexible.

Progress Energy staff requested that the Western Wake Partners provide them with the estimated electrical capacity requirements of the WRF as soon as possible.

Action Items

- 1) Progress Energy will provide Town of Cary with an estimated amount of land to be developed and proposed land uses by acreage for the area to be used in projecting wastewater flows for the purpose of modeling Progress Energy's additional Cape Fear River discharge.
- 2) Once the land area has been defined by Progress Energy, the Town of Cary will use the information to estimate projected wastewater flow rates and that will be used to conduct additional water quality modeling for the Cape Fear River.

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- 3) Prior to initiating the water quality modeling, the Town of Cary will submit a memorandum to Progress Energy outlining the activities to be conducted, the assumptions to be used, and the results to be generated for the modeling effort. The purpose of the memorandum is to ensure that Cary staff and Progress Energy staff share common expectations for the water quality modeling effort.
- 4) Once the modeling is completed, the Town of Cary will report the results to Progress Energy, as well as a general outline of the steps Progress Energy should pursue in order to secure a wastewater discharge to the Cape Fear River. It is understood that Progress Energy may construct its own wastewater treatment facility and independent discharge or Progress Energy could share in the discharge structure and outfall to be constructed by the Western Wake Partners.
- 5) Progress Energy will provide Town of Cary with confidentiality and safety liability release agreements so that representatives can access the effluent pipeline and potential outfall sites. Progress Energy will also provide a name and phone number for a contact person at Progress Energy that Cary will telephone in advance of visiting any properties owned by Progress Energy.
- 6) Progress Energy staff will coordinate with their Transmission Department to determine potential impacts from effluent pipeline routes 4 and 11 on the map.
- 7) The Western Wake Partners will provide Progress Energy with the estimated electrical capacity requirements as soon as possible.

This concluded the meeting.