Town of Cary Pump Station Inspection Sheet

**Facility Name:** West Cary  
**ID Number:** 035  
**Inspection Date:** 3/12/2010

### Pump

- **Type:** Submersible
- **Discharge Diameter:** 6"
- **Control:** VFD
- **Manufacturer:** ABS Pumps
- **Model:** ABS AFP1501 ME630/4
- **Condition:** Fair
- **Firm Capacity:** 1,592 gpm
- **Rep:** Pete Duty & Associates  
  919-220-4156

- **Pump One:** 1,126 gpm
- **Pump Two:** 1,154 gpm
- **Pump Three:** 1,124 gpm

**Wetwell will be approximately 75,000 gal**

### Odor:

- **At the Fence:** 0.000 ppm  
  **Wetwell:** 4.567 ppm
- **Odor Control:** Ferrous Sulfate  
  **Condition:** Good

### Generator:

- **Generator:** Cummins Power Gen.  
  **Model:** DFEG-5775275  
  **Condition:** Good
  **KVA:** 437.5  
  **KW:** 350

### Grinder:

- **Grinder:** Muffin Monster  
  **Condition:** Poor

### Sound:

- **At the Fence:** 54 dB Gen off  
  **Wetwell:** 77 db Pump off
- **At the Fence:** 58 dB Gen on  
  **Wetwell:** 89 db Pump on

### Comments:

- new pump room's walls are leaking water, a series of sump pump are used
- new pump room's walls have bug holes, cosmetic defects
- sidewalk settled away from building, sealant impaired
- surface rust on piping, mostly cosmetic
- grinder overheated during inspection
- white crystalline corrosion on top of generator tank
West Cary Pump Curve:

![Performance Field Graph](image)

MODEL: AFP 1501 4 POLE
TAB: 6" CLOSED

<table>
<thead>
<tr>
<th>Htot [ft]</th>
<th>P2 [hp]</th>
<th>NPSH [ft]</th>
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<tr>
<td>260</td>
<td>120</td>
<td>30</td>
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<td>10</td>
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<tr>
<td>160</td>
<td>70</td>
<td>5</td>
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</table>

Solid size: 80 x 100 mm
No. of vane: 2

Performance diagram based on motor speed (n not const.)

Speed Motor: 1780 RPM
Speed hydr.: 1780 RPM

Tolerance according to hydraulic institute

Issue: 04.Apr 1996
V2/2-T4.1
DEM
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West Cary Pump Station

Pump Room

New Building

Wetwell