

## Redington Windfarm - Representative Water Needs

### Foundations

	<i>June - July</i>		
	<i>Low</i>	<i>High</i>	<i>Average</i>
Water for concrete mix	15000	19000	17000
Water for aggregate / trucks	7500	14250	10875
Number of Foundations	30		
<b>Total Water Required</b>	<b>675000</b>	<b>997500</b>	<b>836250</b>

### Dust Control

	<i>Low</i>	<i>High</i>	<i>Average</i>
Daily Useage Amount	5000	10000	7500
<b>2007</b>			
Start Date	6/1/2007		
End Date	10/15/2007		
Number of Days	136		
Percentage of days requiring water	80%		
<b>Total Water Required</b>	<b>544000</b>	<b>1088000</b>	<b>816000</b>

### Monthly Consumption (gallons)

	<b>2007</b>				
	<i>June</i>	<i>July</i>	<i>August</i>	<i>Semptember</i>	<i>October</i>
Foundations					
<i>Monthly Multiplier (must equal "1")</i>	627187.5	209062.5			
	0.75	0.25			
Dust Control					
<i>Monthly Multiplier (must equal "1")</i>	89760	244800	244800	163200	73440
	0.11	0.3	0.3	0.2	0.09
<b>Total</b>	<b>716947.5</b>	<b>453862.5</b>	<b>244800</b>	<b>163200</b>	<b>73440</b>
1 cubic foot of water (gal)	7.5	7.5	7.5	7.5	7.5
Gallons per day	23127.3	14640.7	7896.8	5264.5	2369.0
Cubic Feet per Hour	963.6	14640.7	7896.8	5264.5	2369.0
Cubic Feet per Minute (if over 24 hrs)	16.1	610.0	329.0	219.4	98.7
Cubic Feet per Minute (if over 12 hrs)	32.1	10.2	5.5	3.7	1.6
Number of 5000 gal trucks (per day)	4.78	2.93	1.58	1.09	0.47
Number of 9500 gal trucks (per day)	2.52	1.54	0.83	0.57	0.25