



## Sound Update

October 27, 2009

➤ Permanent Sound Monitoring system protocol

➤ Establishment of 33dBA ambient

- CH2M Hill data
- Background analysis

➤ dBA/Low Frequency measurements

- Reporting protocol
- 14 days of measurements

➤ Summary

# Permanent Sound Monitoring System Protocol



- ~ Agreed between Evergreen Solar and Modeling Specialties
- ~ Measurements at R5 (VOC), R7 (Cooling Towers) located on Evergreen property, and R1 (DREZ property line)
- ~ Purchase order for sound monitoring equipment placed with vendor
- ~ Measurement levels agreed:

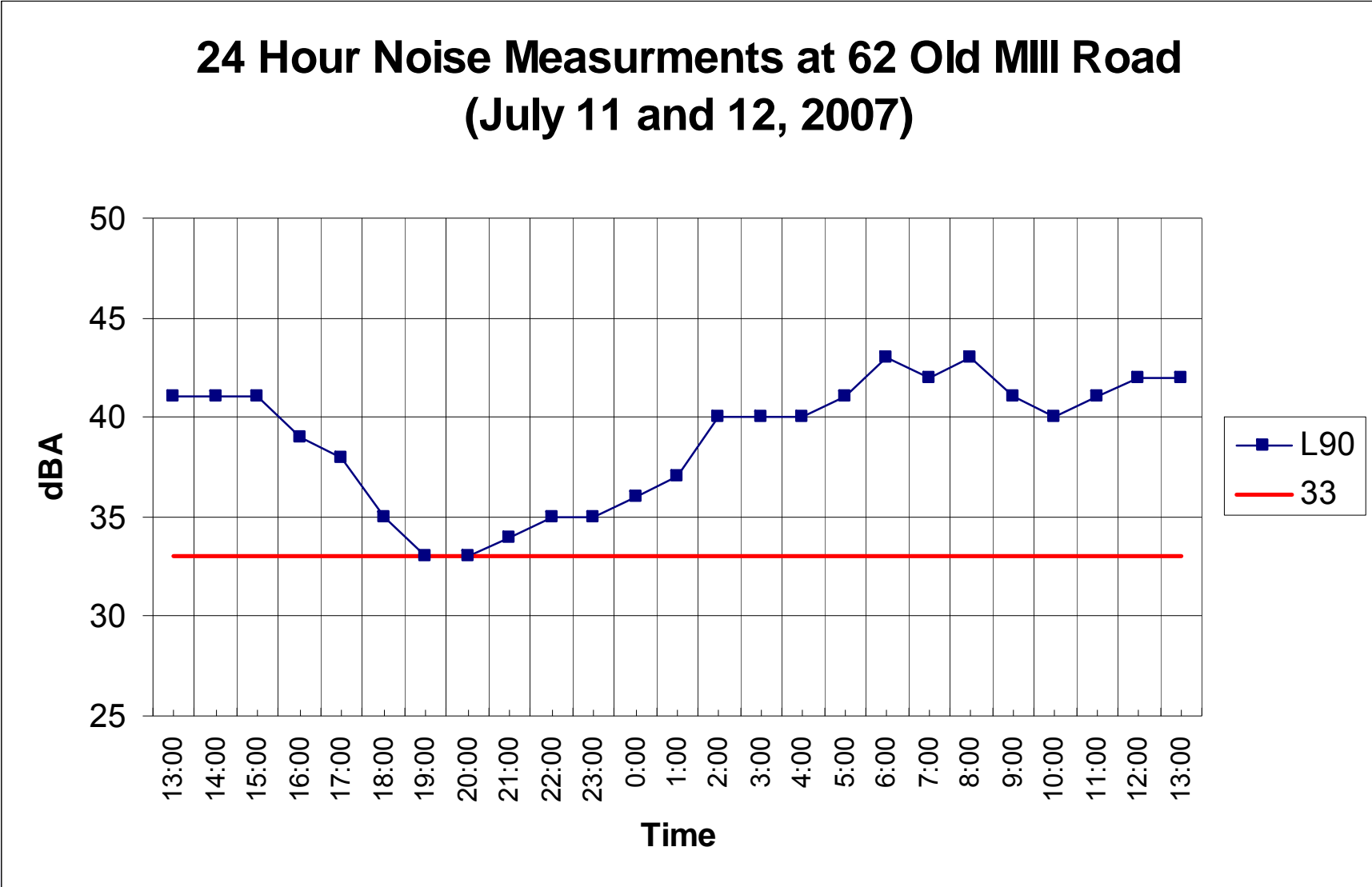
Monitor location	R1 (DREZ)	R7 (C.T.)	R5 (VOC)
	dBA	dBA	dBA
DEC daytime limit	43	61	66
DEC night time limit	38	56	61
	dB	dB	dB
16 Hz limit	65	78	78
31.5 Hz limit	65	74	73

# Establishing 33dBA



- In order to demonstrate compliance background sound levels have to be at 33 dBA.
- The 33dBA was established in 2007 by CH2M Hill engineering firm.
  - Measurements were taken at 62 Old Mill residence.
  - 25 measurements taken over a 24 hour period.
  - The lowest L90, achieved twice, was 33dBA the highest was 43dBA.

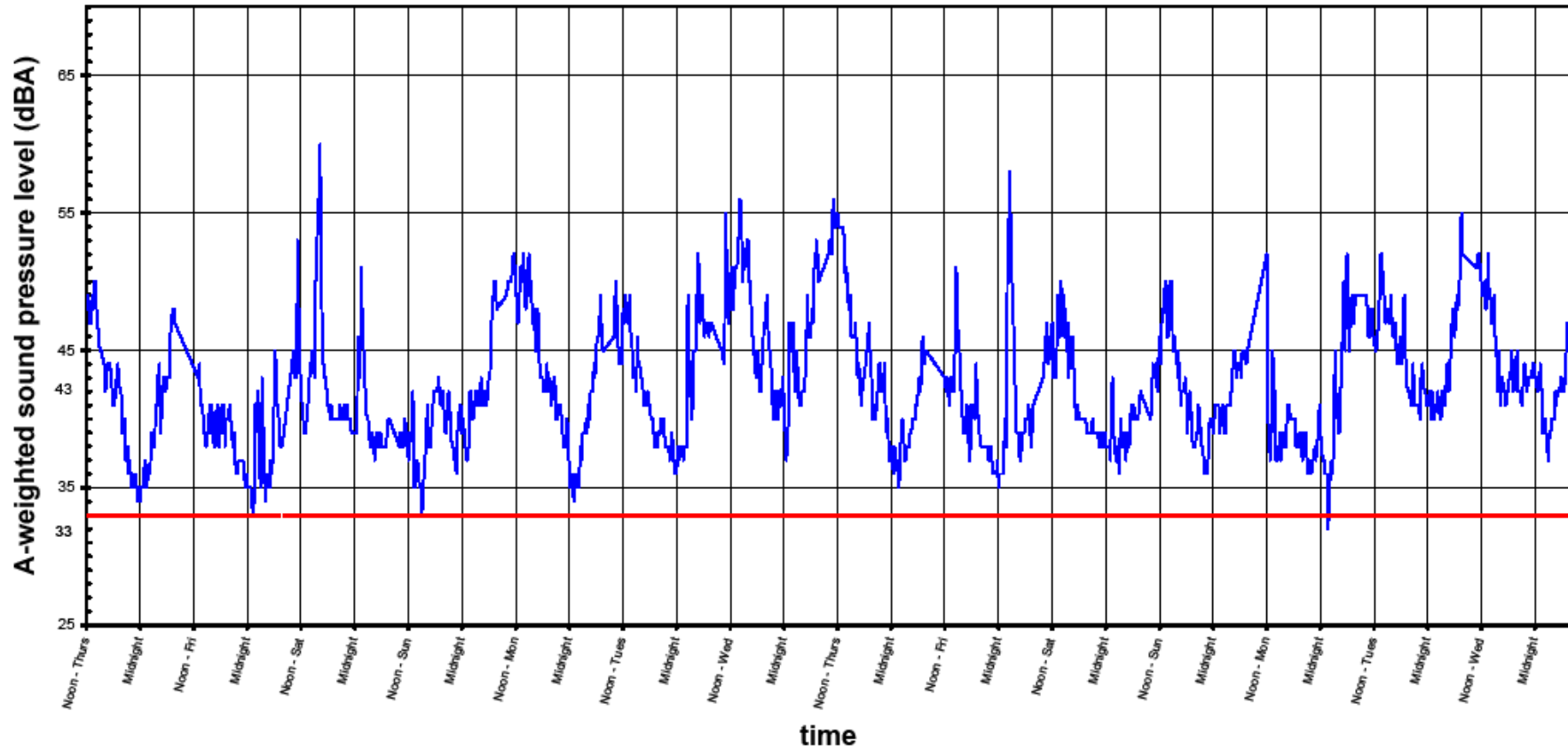
## 24 Hour Noise Measurements at 62 Old Mill Road (July 11 and 12, 2007)



# Background Today (EG removed)



Evergreen Solar -- Calculated Background Levels at R1  
Period of October 1, 2009 - October 15, 2009



— R1 - Behind back pasture (off riding trail, overlooking Cold Spring Creek)

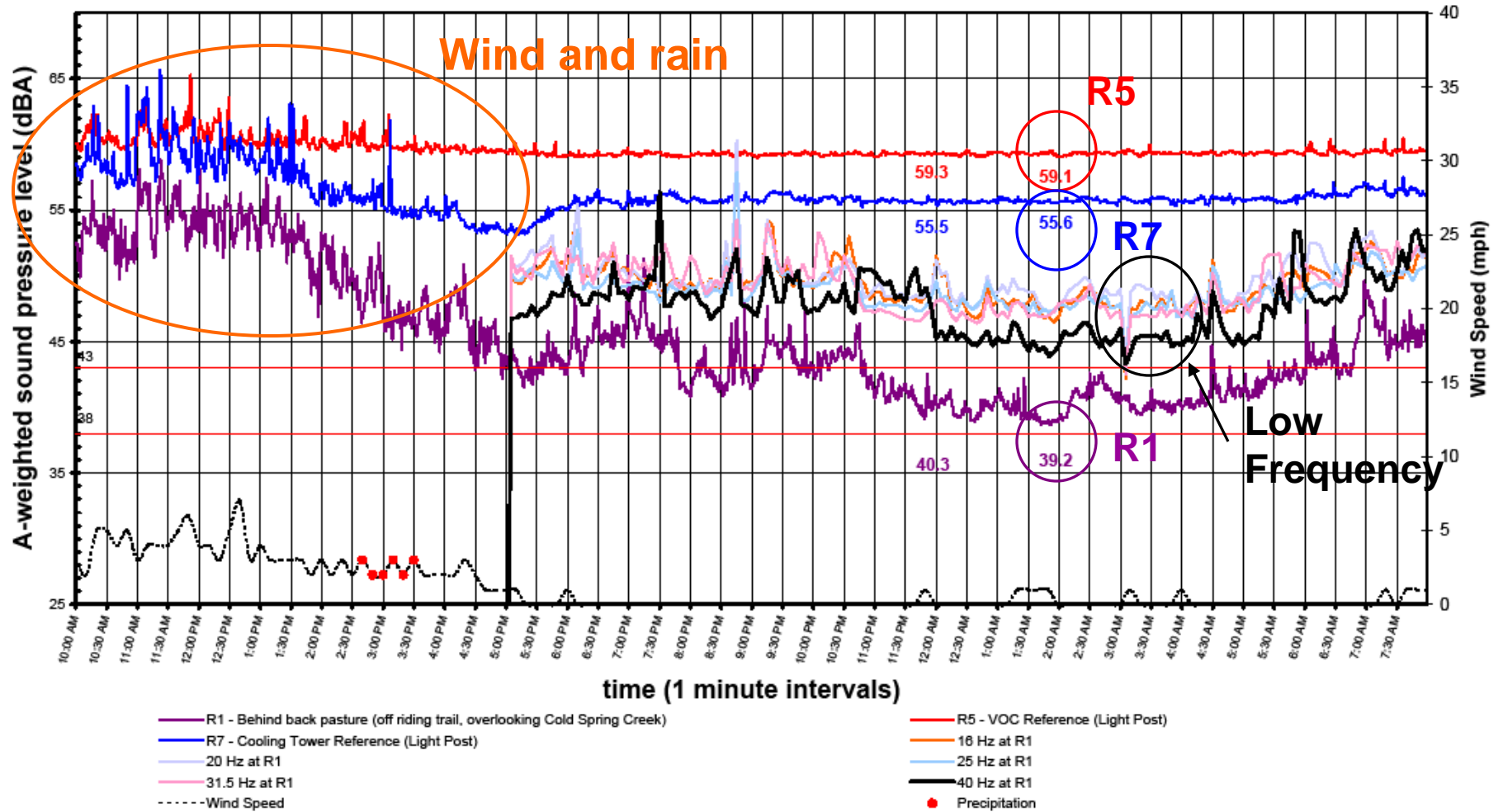


# Current dBA and L.F. data



Evergreen Solar - A-weight sound pressure levels (L90)

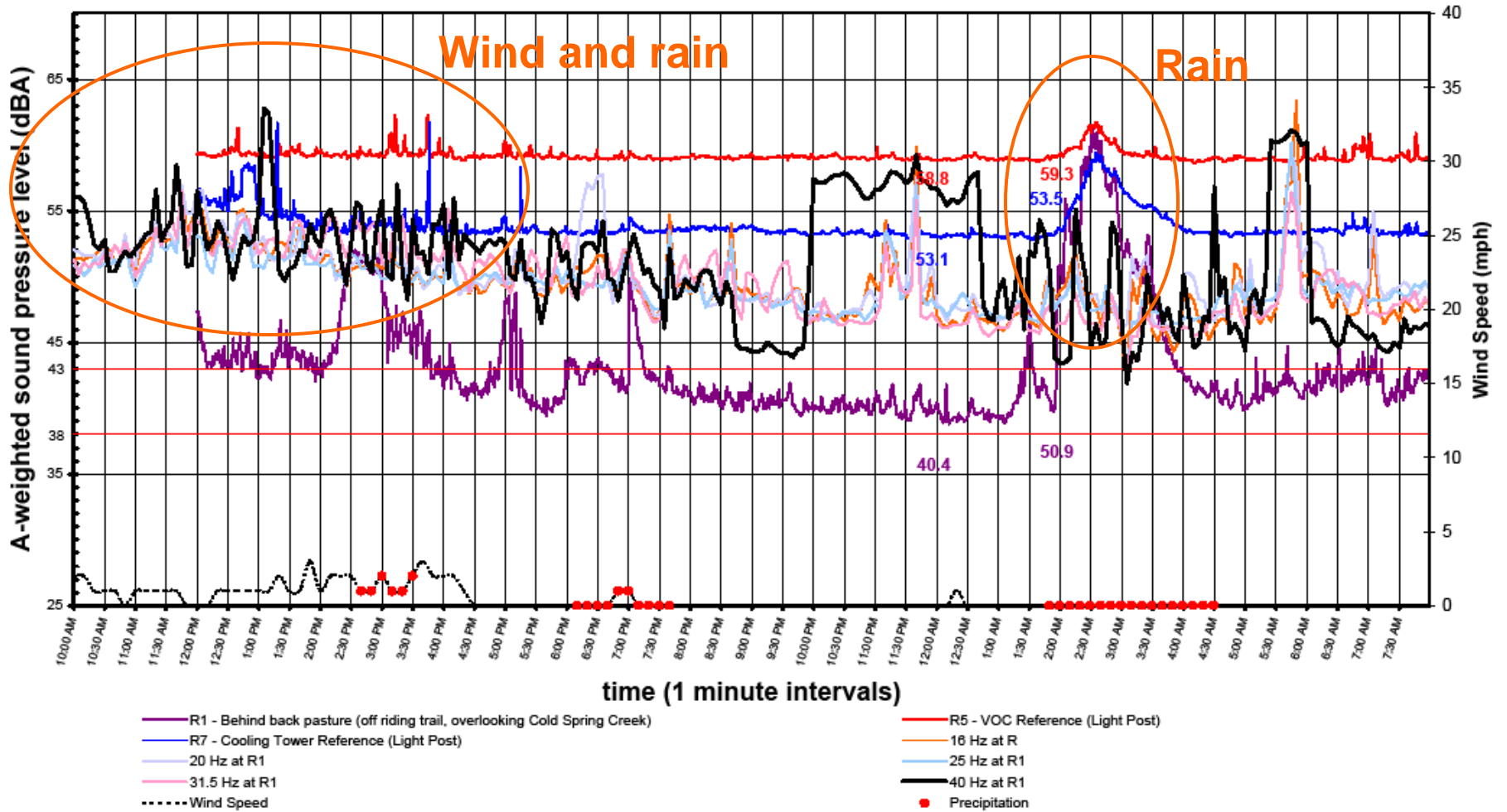
October 8, 2009 - October 9, 2009



# Current dBA and L.F. data



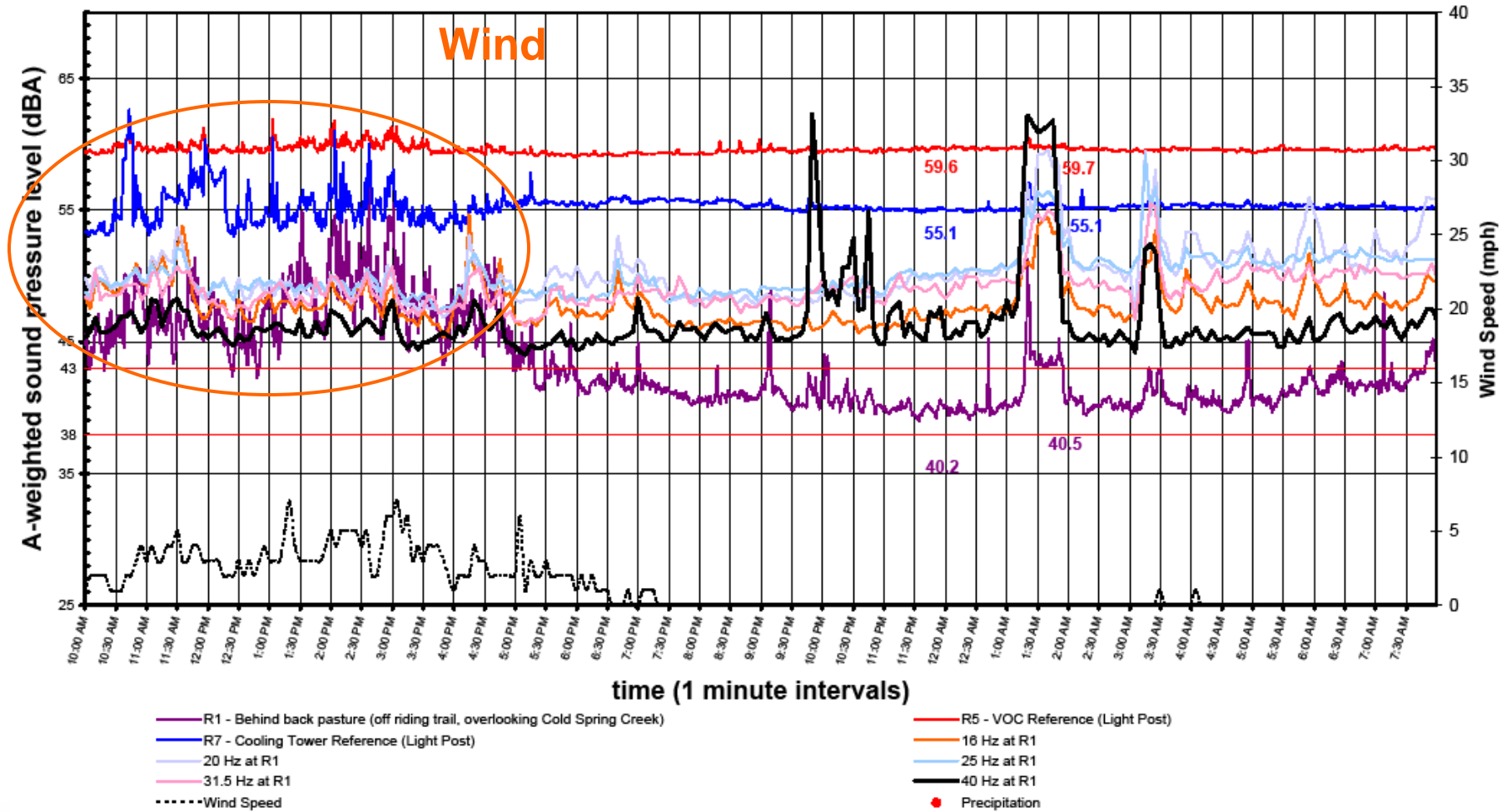
Evergreen Solar - A-weight sound pressure levels (L90)  
October 9, 2009 - October 10, 2009



# Current dBA and L.F. data



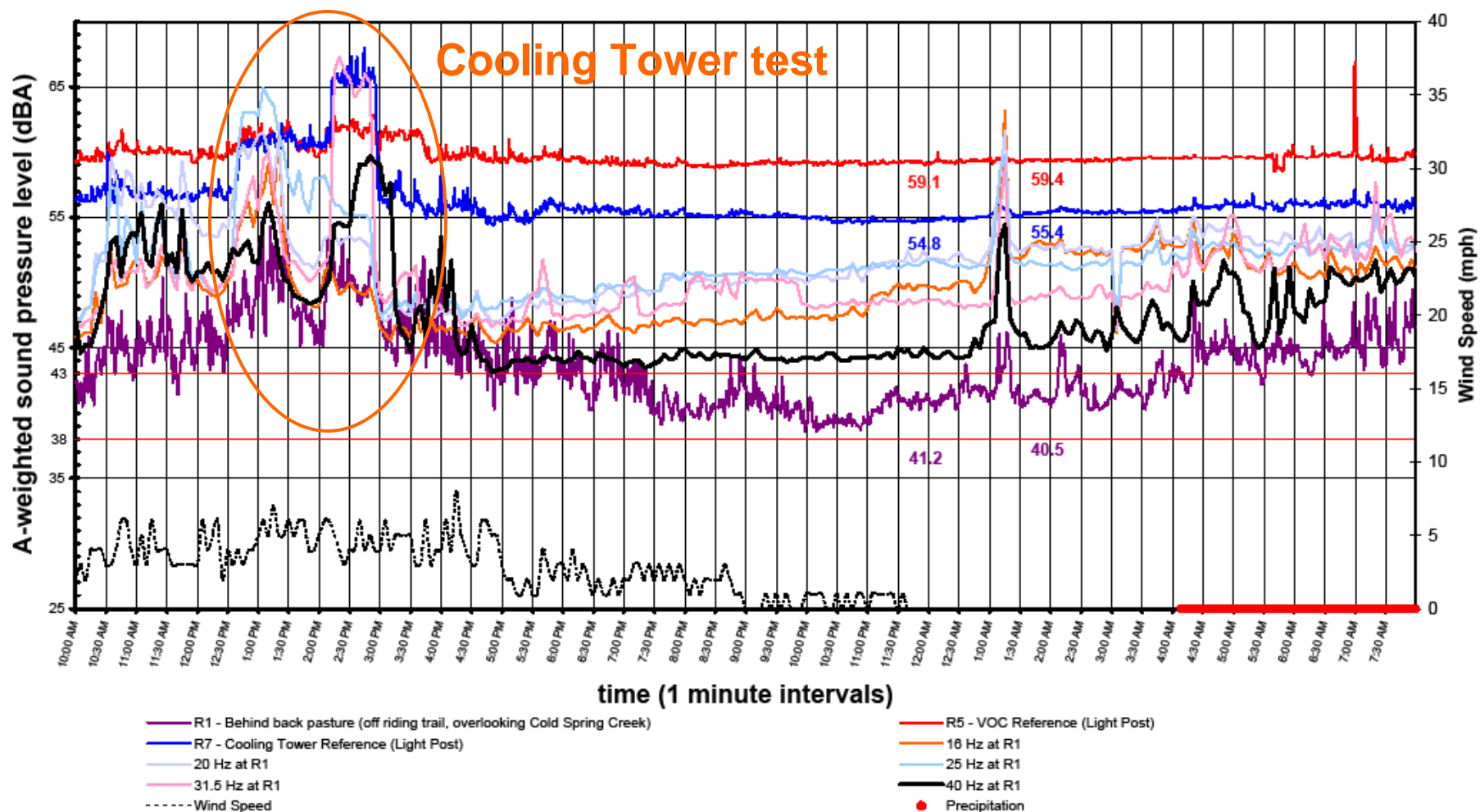
Evergreen Solar - A-weight sound pressure levels (L90)  
 October 10, 2009 - October 11, 2009



# Current dBA and L.F. data



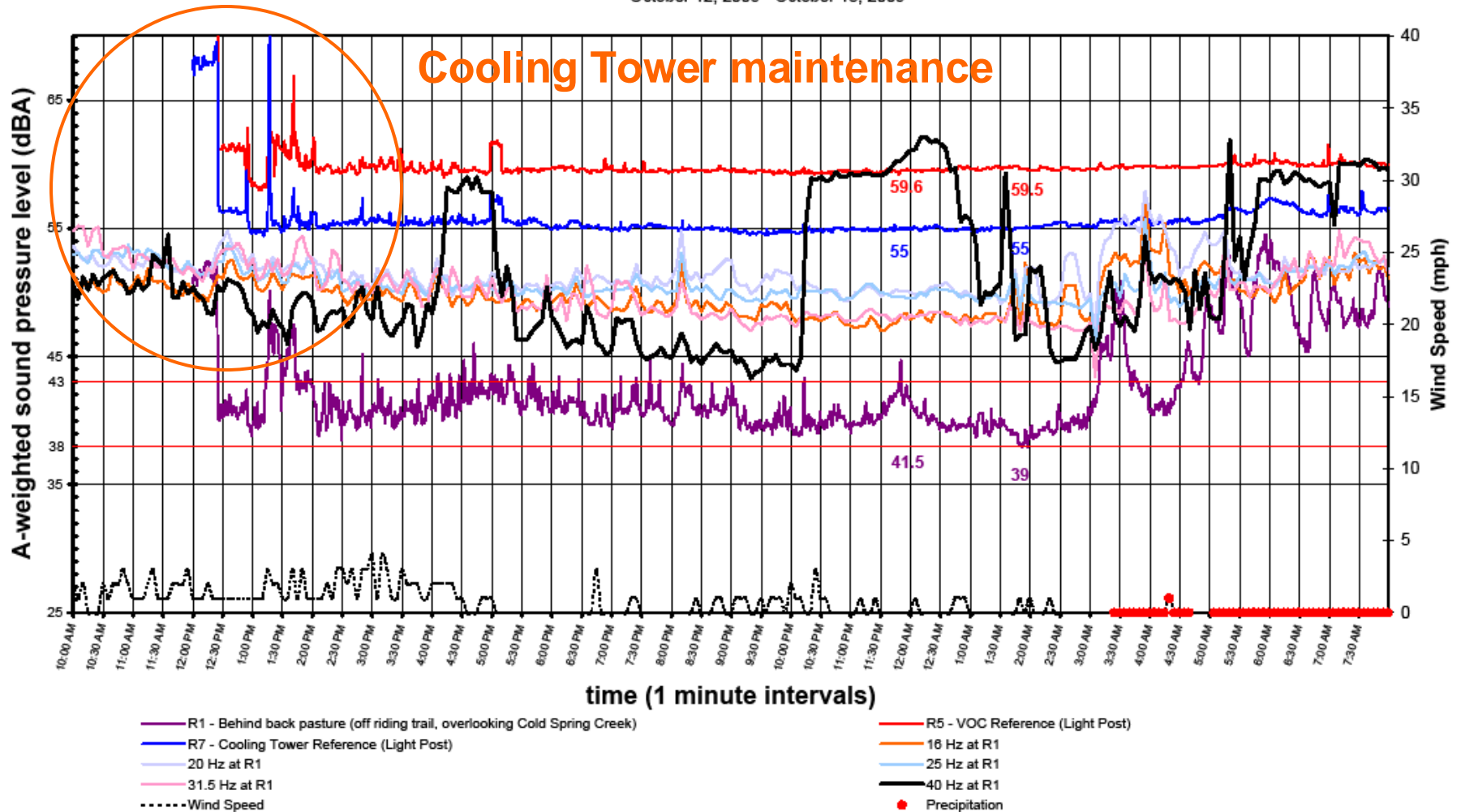
Evergreen Solar - A-weight sound pressure levels (L90)  
October 11, 2009 - October 12, 2009



# Current dBA and L.F. data



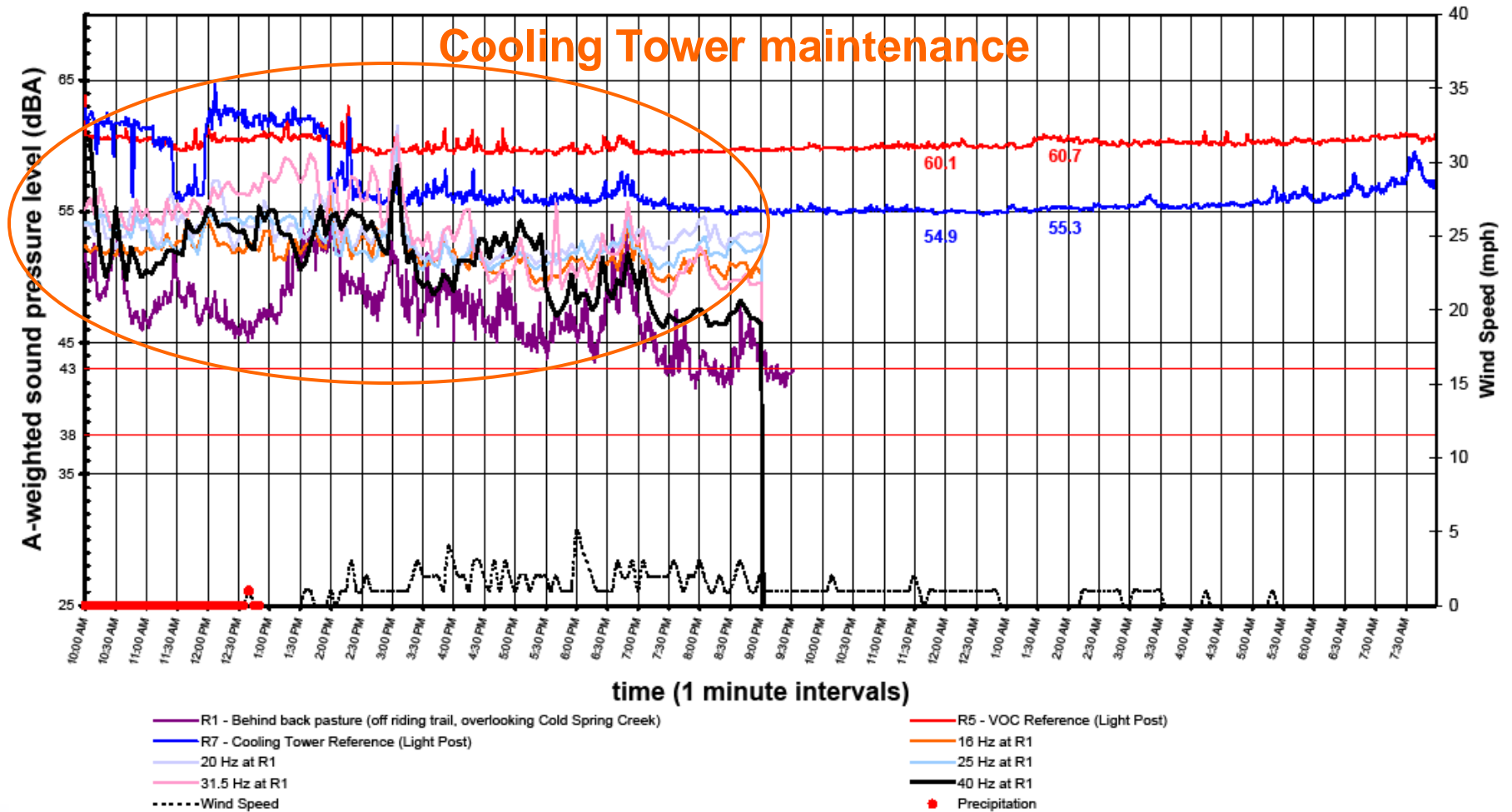
Evergreen Solar - A-weight sound pressure levels (L90)  
October 12, 2009 - October 13, 2009



# Current dBA and L.F. data



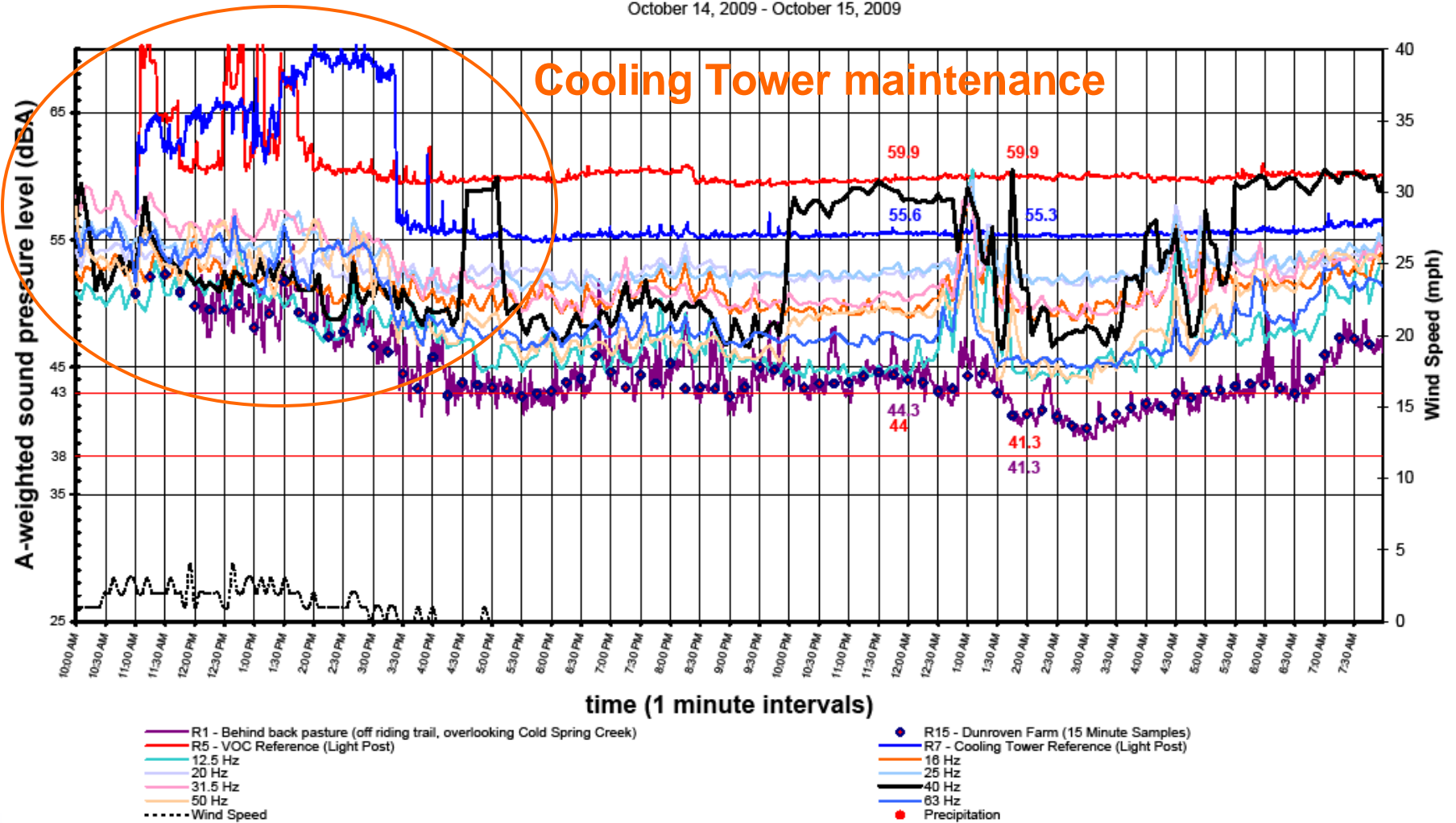
Evergreen Solar - A-weight sound pressure levels (L90)  
 October 13, 2009 - October 14, 2009



# Current dBA and L.F. data



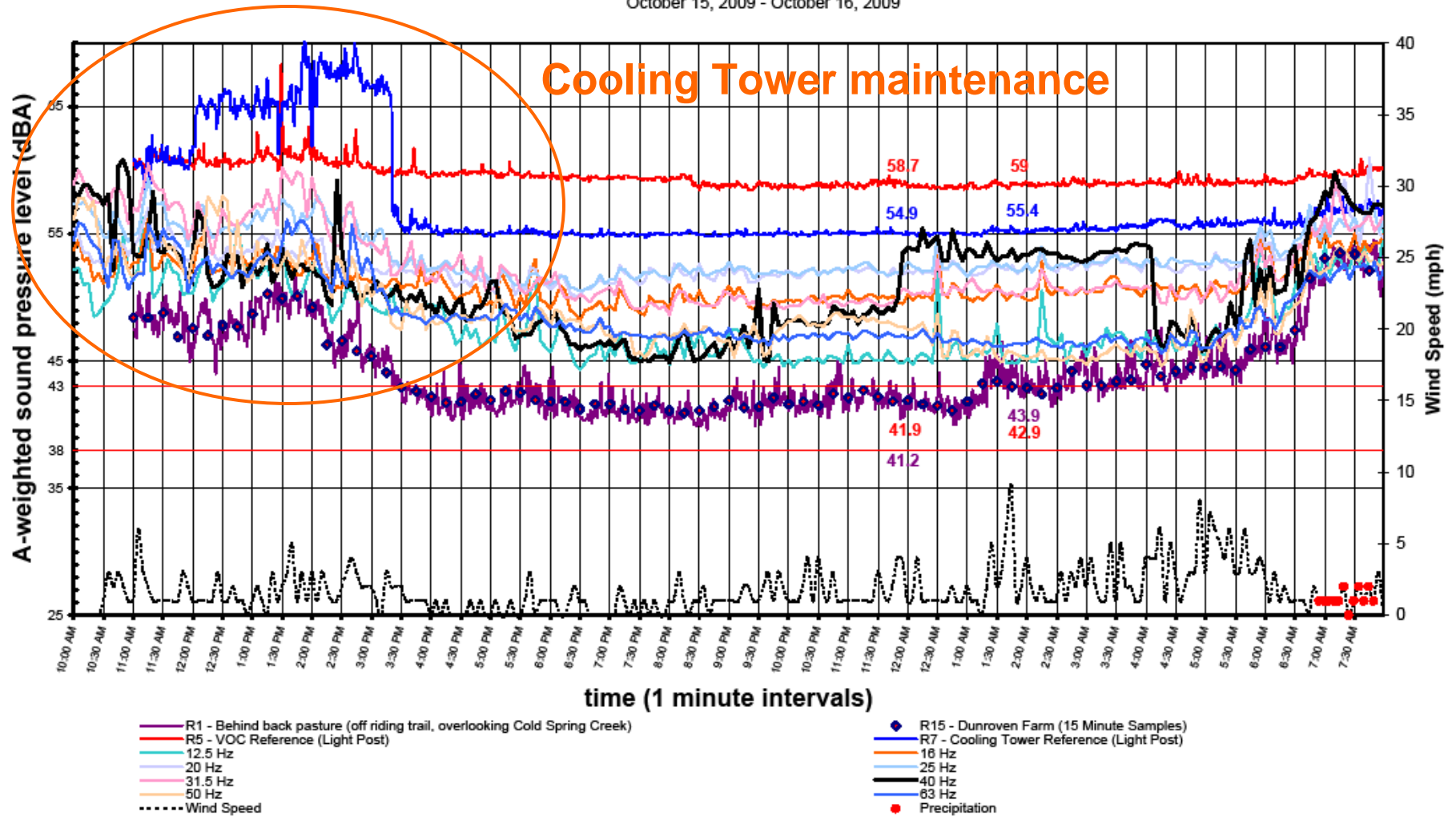
Evergreen Solar - A-weight sound pressure levels (L90)  
October 14, 2009 - October 15, 2009



# Current dBA and L.F. data



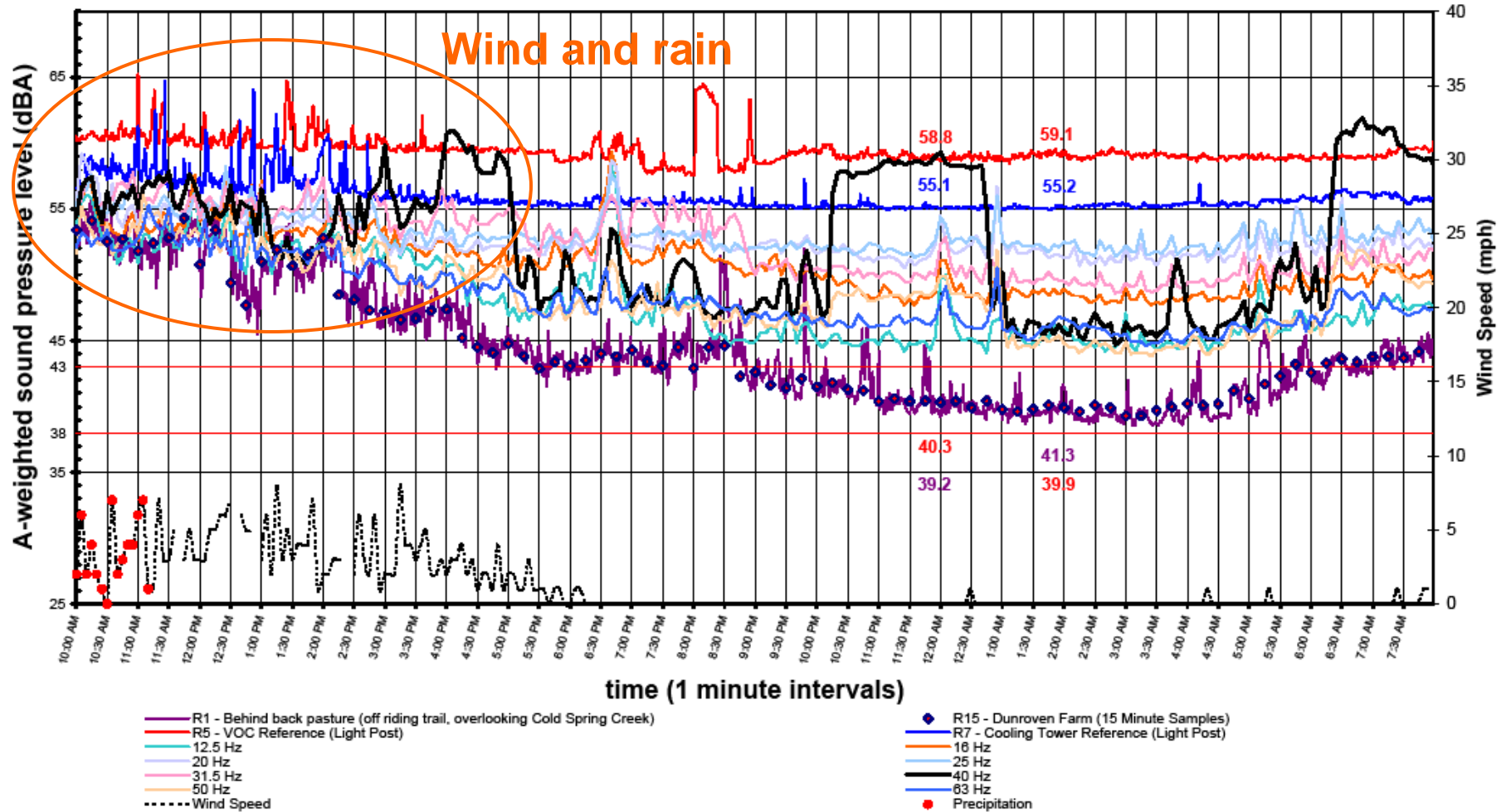
Evergreen Solar - A-weight sound pressure levels (L90)  
October 15, 2009 - October 16, 2009



# Current dBA and L.F. data



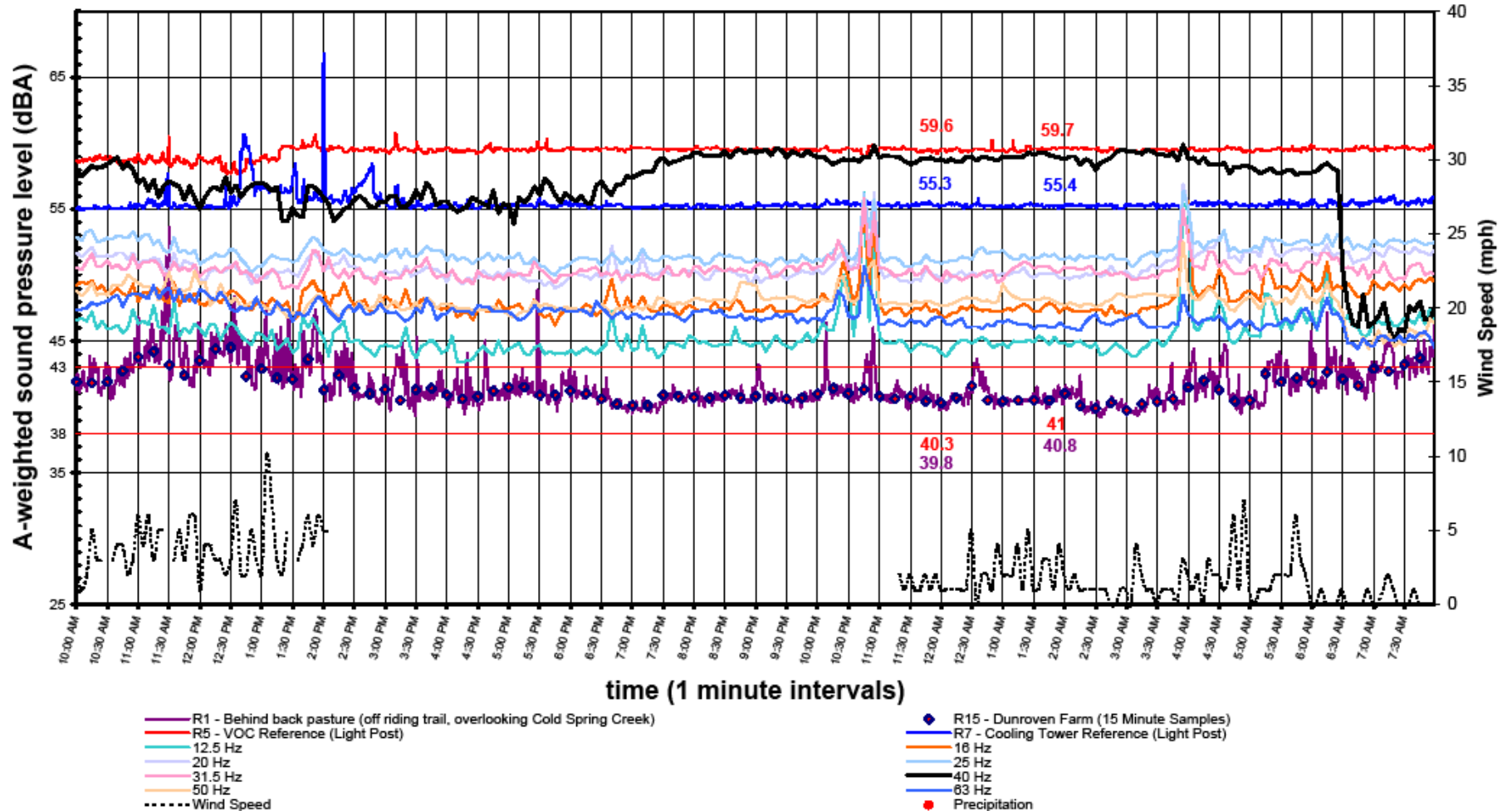
Evergreen Solar - A-weight sound pressure levels (L90)  
October 16, 2009 - October 17, 2009



# Current dBA and L.F. data



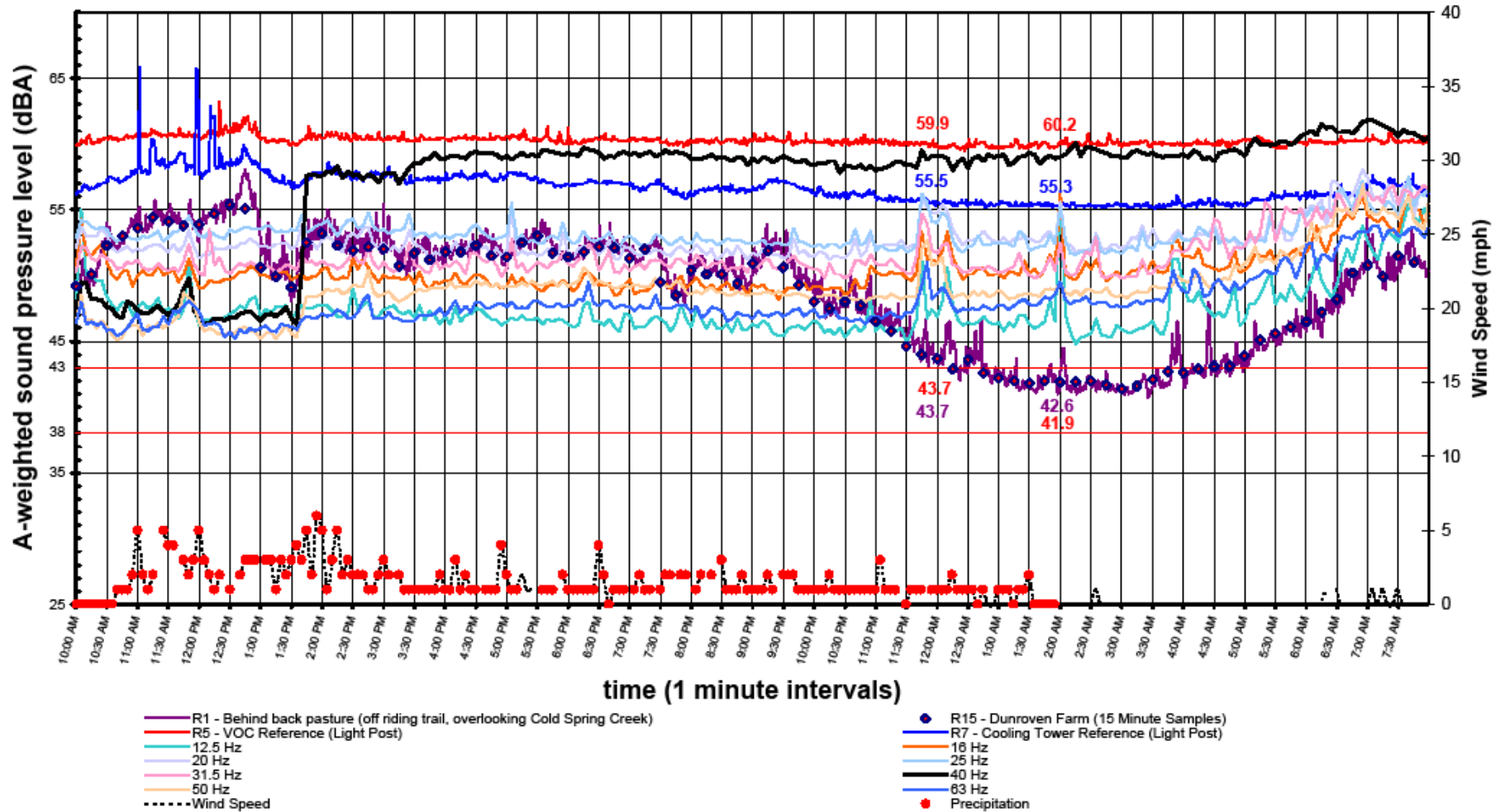
Evergreen Solar - A-weight sound pressure levels (L90)  
October 17, 2009 - October 18, 2009



# Current dBA and L.F. data



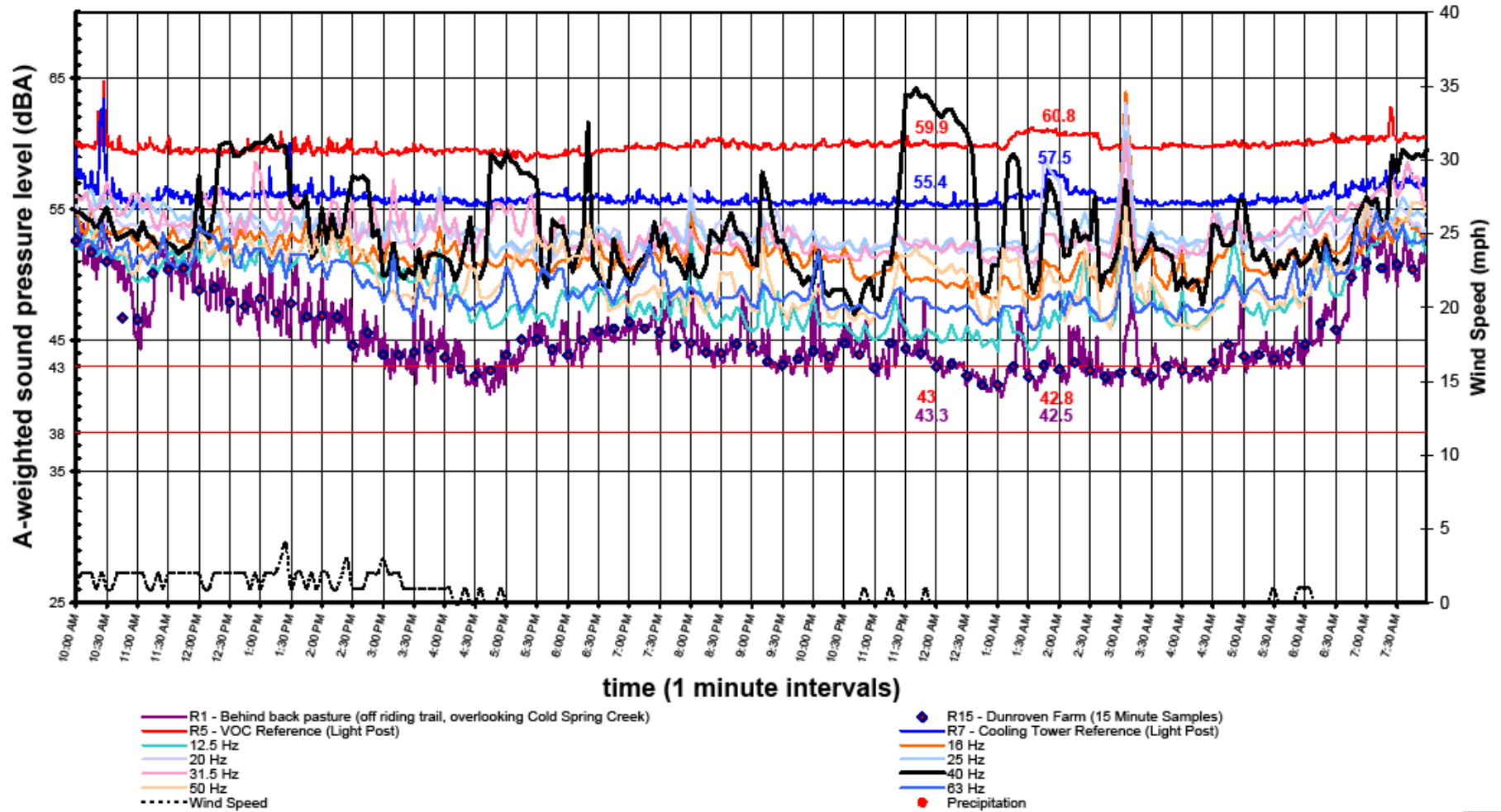
Evergreen Solar - A-weight sound pressure levels (L90)  
October 18, 2009 - October 19, 2009



# Current dBA and L.F. data



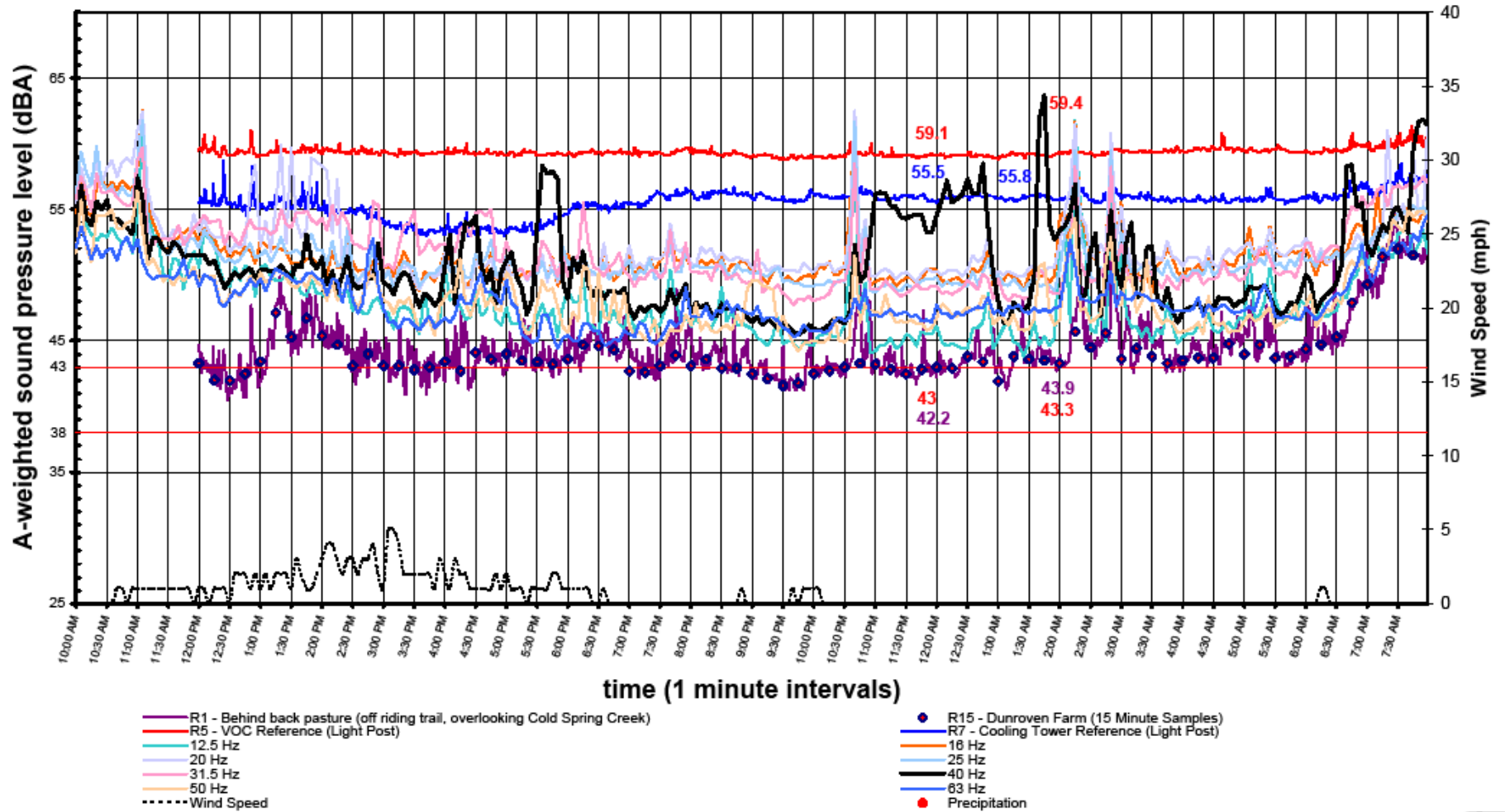
Evergreen Solar - A-weight sound pressure levels (L90)  
October 19, 2009 - October 20, 2009



# Current dBA and L.F. data



Evergreen Solar - A-weight sound pressure levels (L90)  
October 20, 2009 - October 21, 2009

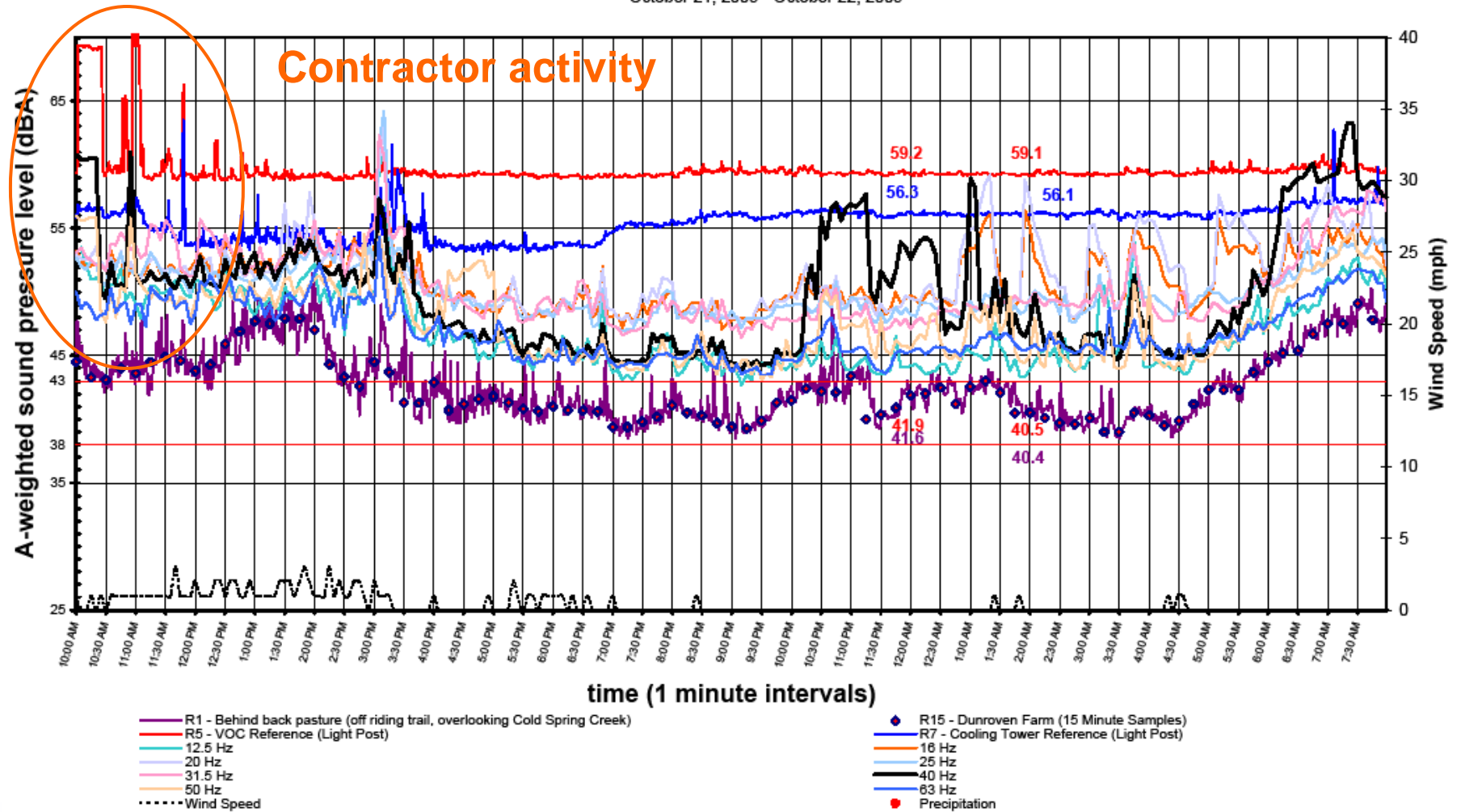


# Current dBA and L.F. data



Evergreen Solar - A-weight sound pressure levels (L90)

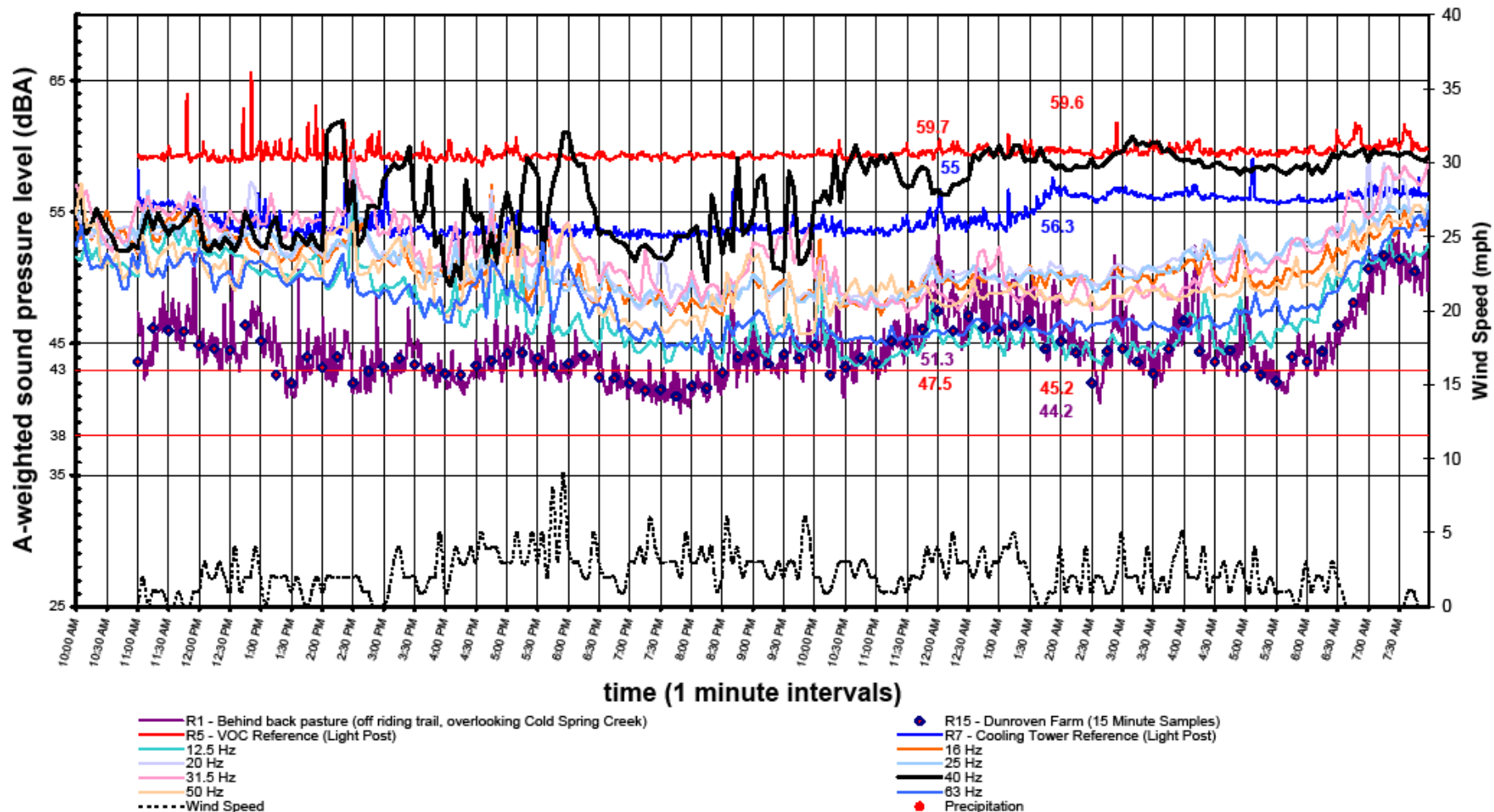
October 21, 2009 - October 22, 2009



# Current dBA and L.F. data



Evergreen Solar - A-weight sound pressure levels (L90)  
October 22, 2009 - October 23, 2009



## Long Term monitoring protocol

- EG and DEC consultant in agreement
- Equipment is on order
- Installation complete 11/27

## 'Worst case scenario' test

- EG and DEC consultant in agreement
- Waiting on final input from neighbors consultant
- EG is ready to perform test (no wind, no rain)