



AMERICAN
UNIVERSITY

WASHINGTON, D C

Jacobs Field
Quarterly Sound Monitoring
Report

September – November 2023



Jacobs Field Audio Equipment and Sound Measurement Standard Operating Protocol and Procedure Checklist

Created Date: 5/10/23, Last Revision: 10/24/23

Audio Equipment			
	Yes	No	Notes
Approved audio equipment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ONLY the approved equipment located in the cabinet stored at Jacobs Field shall be used.
Approved laptop in place and connected directly to designated mixer port?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ONLY laptop labelled "Approved for Use at Jacobs Field" may be used.
Speakers placed and facing proper direction?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	All speakers shall face directly away from the adjacent property ONLY and be placed at ground level per diagram.
Mixer channels set to marked levels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Knobs shall not be turned past the red markings for each input.
No external sources of amplified sound?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	All sources of amplified sound shall ONLY be connected to the mixer.
Digital signal processor power on?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Amplified sound shall ONLY be used when DSP is powered on.
Meter			
	Yes	No	Notes
Compliant meter?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ONLY NOR139 model meter shall be used.
Approved location?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Meter shall be in approved location for the entire monitoring period and mounted on a tripod at a height of approximately 5 feet.
Battery check completed and meter clock synced to time source?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Battery type: internal <input type="checkbox"/> external <input checked="" type="checkbox"/> NOTE: If battery low, replace prior to taking of measurements. Time source (e.g. phone, watch, etc...): <u>Cell phone</u>
Calibration completed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Date and Time of Calibration: <u>9/24/23, 10:45 am</u> Sensitivity Settings: <u>-28.8</u>
Meter setup complete?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Time weighting = Slow , Frequency weighting = A
Windscreen on?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Windscreen must be on prior to taking readings.
Wind speed and direction noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Wind speed: <u>5 mph</u> Wind direction: <u>SE</u>



Measurements						
	Yes	No				
Date and type of event noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Date: <u>9/24/23</u> Event type: <u>Field Hockey vs Lafayette</u>			
Name of operator noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Name: <u>Brian Chepulis</u>			
Pregame startup test completed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Source	Average (dBA)	Maximum (slow)	Duration (secs)
			Music	61.5	72.9	28
			PA	64.9	69	13
			Shot Clock			
Horn	67.5	74.1	10			
National Anthem start and end times noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Start time: <u>1:32 pm</u> End time: <u>1:34 pm</u>			
Team introductions start and end times noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Start time: <u>1:29 pm</u> End time: <u>1:31 pm</u>			
End time of each quarter noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Q1 end time: <u>1:55 pm</u> Other:			
			Q2 end time: <u>2:14 pm</u>			
			Q3 end time: <u>2:44 pm</u>			
			Q4 end time: <u>3:05 pm</u>			
Post-event battery voltage noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Voltage: <u>5.6</u>			
Meter data and raw data saved?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	File name for measurements: <u>230924</u>			
Summary report generated and saved?	<input checked="" type="checkbox"/>	<input type="checkbox"/>				

Notes (e.g., reasons for answering "No" to any above, problems encountered, corrections needed, etc...):

NOTE: THE BELOW SHALL BE SIGNED AND DATED AFTER THE CHECKLIST HAS BEEN FULLY COMPLETED. AN ELECTRONIC COPY OF THIS CHECKLIST SHALL BE SAVED TO FILE.

Signature: Brian Chepulis Date: 9/24/23

4710 Woodway Lane NW Residence ↑

MONITORING LOCATION → 

Jacobs Field Reference Diagram 5/10/23

 Horn  Speaker

Bench Podium Bench





ASPHALT PATH

All speakers to be placed at ground level.

SCOREBOARD
Fixed Horns Height = ~ 8"
Pointed towards ground.

GREEN TURF

Fixed Horn Height = ~ 12"
Pointed towards ground.

   
Bleacher Bleacher Bleacher Bleacher Bleacher

NOT TO SCALE

Directory:

C:\Users\chepulis\AppData\Local\Temp\Norsonic\Downloaded Measurements\230924

File version v1.0/6.1.1.51

File: 230924 FH vs Lafayette	Date 9/24/23	Duration	Status	Average	Fast Max	Slow Max	Fast Min	Slow Min	L1	L5	L10	L50	L90	L95	L99	
				LAeq	LAFmax	LASmax	LAFmin	LASmin	LAF,Percc2	LAF,Percc3	LAF,Percc4	LAF,Percc5	LAF,Percc6	LAF,Percc7	LAF,Percc8	
NOR139_7984499_230924_0001.NBF	(2023/09/24 12:31:14.00)	(0:0:22.0)	N/A	54.4	70.1	63.2	46.1	47.8	64.7	59.5	56.4	49.9	47.2	46.8	46.4	
NOR139_7984499_230924_0002.NBF	(2023/09/24 12:33:07.00)	(0:0:28.0)	Anthem	N/A	61.5	78.6	72.9	51.5	53.1	75.2	67.3	59.7	54.5	52.9	52.6	52
NOR139_7984499_230924_0003.NBF	(2023/09/24 12:33:53.00)	(0:0:13.0)	PA	N/A	64.9	73.4	69	51.2	52.2	72.9	70.4	68.6	62.9	55.1	54.2	51.5
NOR139_7984499_230924_0004.NBF	(2023/09/24 12:35:47.00)	(0:0:0.0)		N/A	50.9	52	51.8	51.8	51.8	-	-	-	-	-	-	-
NOR139_7984499_230924_0005.NBF	(2023/09/24 12:36:03.00)	(0:0:10.0)	Horn	N/A	67.5	81	74.1	51.7	52.6	77.8	71	70	61.1	54	53.3	51.9
NOR139_7984499_230924_0006.NBF	(2023/09/24 13:36:09.00)	(0:3:50.0)		N/A	69.9	86.6	82.4	46.5	48.3	81.3	76.2	74	62.3	50.5	49.1	47.4
NOR139_7984499_230924_0007.NBF	(2023/09/24 13:40:01.00)	(0:4:58.0)		N/A	70.5	89.8	87	46.1	47.8	81.8	76	72.8	62.6	51	48.6	47.2
NOR139_7984499_230924_0008.NBF	(2023/09/24 13:45:01.00)	(0:4:58.0)		N/A	73.9	92.5	89.4	47.4	54.3	87.3	79.4	75.3	65.7	56.7	54.8	51.6
NOR139_7984499_230924_0009.NBF	(2023/09/24 13:50:02.00)	(0:4:57.0)		N/A	68.7	83.9	80.8	47.3	53.2	79.7	75.1	72.3	62.8	54.7	53	50.5
NOR139_7984499_230924_0010.NBF	(2023/09/24 13:55:01.00)	(0:4:58.0)		N/A	66.1	79.3	77	46.7	47.7	77.3	72.9	70.3	57.4	49.4	48.4	47.6
NOR139_7984499_230924_0011.NBF	(2023/09/24 14:00:02.00)	(0:4:57.0)		N/A	69.8	88	84.5	48.7	52.9	80.9	76	73.1	63.4	55.3	53.3	50.5
NOR139_7984499_230924_0012.NBF	(2023/09/24 14:05:02.00)	(0:4:57.0)		N/A	67.8	86.8	81.1	47.1	49.4	78.6	74.4	71.6	61.6	52.8	51.1	48.4
NOR139_7984499_230924_0013.NBF	(2023/09/24 14:10:02.00)	(0:4:57.0)		N/A	68.5	86.3	82.6	47.9	53.1	78.6	73.8	71.7	63.8	56.3	54.8	51.1
NOR139_7984499_230924_0014.NBF	(2023/09/24 14:15:02.00)	(0:4:57.0)		N/A	63.4	79.7	74	48.2	49.8	72.6	69.7	67.8	56.7	51.7	50.8	49.5
NOR139_7984499_230924_0015.NBF	(2023/09/24 14:20:02.00)	(0:4:57.0)		N/A	56.1	70.3	68.6	47.4	48.6	66.8	60.6	58.4	53	49.9	49.3	48.5
NOR139_7984499_230924_0016.NBF	(2023/09/24 14:25:02.00)	(0:4:57.0)		N/A	65.8	82	78.1	48.9	51.1	76.3	72.1	69.5	60.7	52.6	51.6	50.2
NOR139_7984499_230924_0017.NBF	(2023/09/24 14:30:02.00)	(0:4:57.0)		N/A	68.5	86	81.7	48	48.9	79	74.9	72.2	62.3	54.6	52.6	49.1
NOR139_7984499_230924_0018.NBF	(2023/09/24 14:35:02.00)	(0:4:57.0)		N/A	68.5	89.5	82.9	47.4	49.9	80.8	74.2	70.5	61.2	51	49.7	48.4
NOR139_7984499_230924_0019.NBF	(2023/09/24 14:40:02.00)	(0:4:57.0)		N/A	67.1	85	80.1	46	48.8	77.1	72.8	70.8	61.2	51.2	49.5	47.7
NOR139_7984499_230924_0020.NBF	(2023/09/24 14:45:02.00)	(0:4:57.0)		N/A	66.8	82.5	78.2	46.5	51	76.1	72.5	70.7	63	52.3	50.2	47.9
NOR139_7984499_230924_0021.NBF	(2023/09/24 14:50:02.00)	(0:4:57.0)		N/A	69.2	84.3	80.3	46	49	80.4	76.1	73.4	61	51.4	49.3	46.9
NOR139_7984499_230924_0022.NBF	(2023/09/24 14:55:02.00)	(0:4:57.0)		N/A	65.3	83.9	78.7	46	50	75.6	71.1	68.8	60.2	50.9	49.1	47.4
NOR139_7984499_230924_0023.NBF	(2023/09/24 15:00:02.00)	(0:4:57.0)		N/A	66.2	83.7	77.3	46.9	52.2	77.3	72.4	69.6	60.9	53.2	51.5	48.8
NOR139_7984499_230924_0024.NBF	(2023/09/24 15:05:02.00)	(0:2:37.0)		N/A	68.1	82.6	79.7	47.9	49.2	79.2	74.7	72.7	59.3	51.2	50.1	48.8



Jacobs Field Audio Equipment and Sound Measurement Standard Operating Protocol and Procedure Checklist

Created Date: 5/10/23, Last Revision: 10/24/23

Audio Equipment			
	Yes	No	Notes
Approved audio equipment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ONLY the approved equipment located in the cabinet stored at Jacobs Field shall be used.
Approved laptop in place and connected directly to designated mixer port?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ONLY laptop labelled "Approved for Use at Jacobs Field" may be used.
Speakers placed and facing proper direction?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	All speakers shall face directly away from the adjacent property ONLY and be placed at ground level per diagram.
Mixer channels set to marked levels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Knobs shall not be turned past the red markings for each input.
No external sources of amplified sound?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	All sources of amplified sound shall ONLY be connected to the mixer.
Digital signal processor power on?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Amplified sound shall ONLY be used when DSP is powered on.
Meter			
	Yes	No	Notes
Compliant meter?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ONLY NOR139 model meter shall be used.
Approved location?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Meter shall be in approved location for the entire monitoring period and mounted on a tripod at a height of approximately 5 feet.
Battery check completed and meter clock synced to time source?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Battery type: internal <input type="checkbox"/> external <input checked="" type="checkbox"/> NOTE: If battery low, replace prior to taking of measurements. Time source (e.g. phone, watch, etc...): <u>Cell phone</u>
Calibration completed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Date and Time of Calibration: <u>10/6/23, 6:31 pm</u> Sensitivity Settings: <u>-28.8</u>
Meter setup complete?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Time weighting = Slow , Frequency weighting = A
Windscreen on?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Windscreen must be on prior to taking readings.
Wind speed and direction noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Wind speed: <u>SE</u> Wind direction: <u>5 mph</u>



AMERICAN UNIVERSITY

WASHINGTON, DC

Measurements						
	Yes	No				
Date and type of event noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Date: <u>10/7/23</u> Event type: <u>Field Hockey vs Bucknell</u>			
Name of operator noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Name: <u>Brian Chepulis</u>			
Pregame startup test completed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Source	Average (dBA)	Maximum (slow)	Duration (secs)
			Music	51.9	63.7	23
			PA	65.8	83.2	16
			Shot Clock	66.1	83	15
Horn						
National Anthem start and end times noted?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Start time: _____ End time: _____			
Team introductions start and end times noted?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Start time: _____ End time: _____			
End time of each quarter noted?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Q1 end time: _____ Other: _____			
			Q2 end time: _____			
			Q3 end time: _____			
			Q4 end time: _____			
Post-event battery voltage noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Voltage: <u>12.1</u>			
Meter data and raw data saved?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	File name for measurements: <u>231007</u>			
Summary report generated and saved?	<input checked="" type="checkbox"/>	<input type="checkbox"/>				

Notes (e.g., reasons for answering "No" to any above, problems encountered, corrections needed, etc...):
 Original sheet was soaking wet due to the rain during the game. The paper ripped and the ink bled together making the sheet illegible.



NOTE: THE BELOW SHALL BE SIGNED AND DATED AFTER THE CHECKLIST HAS BEEN FULLY COMPLETED. AN ELECTRONIC COPY OF THIS CHECKLIST SHALL BE SAVED TO FILE.

Signature: Brian Chepulis Date: 10/7/23

4710 Woodway Lane NW Residence ↑

MONITORING LOCATION → 

Jacobs Field Reference Diagram 5/10/23

 Horn
  Speaker

Bench Podium Bench

ASPHALT PATH





All speakers to be placed at ground level.

SCOREBOARD

Fixed Horns Height = ~ 8"
Pointed towards ground.

GREEN TURF

Fixed Horn Height = ~ 12"
Pointed towards ground.

Bleacher Bleacher Bleacher Bleacher Bleacher

NOT TO SCALE

Directory:

C:\Users\chepulis\AppData\Local\Temp\Norsonic\Downloaded Measurements\NOR139_FILE\231007

File version v1.0/6.1.1.51

File 231007 FH v. Bucknell	Date 10/7/23	Duration	Status	Average LAeq	Fast Max LAFmax	Slow Max LASmax	Fast Min LAFmin	Slow Min LASmin	L1	L5	L10	L50	L90	L95	L99	
									LAF, Perc2	LAF, Perc3	LAF, Perc4	LAF, Perc5	LAF, Perc6	LAF, Perc7	LAF, Perc8	
NOR139_7984499_231007_0001.NBF	(2023/10/07 09:46:27.00)	(0:0:23.0)	Anthem	N/A	51.9	63.7	68.6	48.8	49.8	57.7	54.2	53.5	51.6	49.9	49.6	49.2
NOR139_7984499_231007_0002.NBF	(2023/10/07 09:47:28.00)	(0:0:16.0)	PA	N/A	65.8	83.2	76.9	48.9	52	81.9	65.3	62.2	56.7	52.6	50.5	49.5
NOR139_7984499_231007_0003.NBF	(2023/10/07 09:48:06.00)	(0:0:15.0)	Horn	N/A	66.1	83	75.8	48.1	55	80.5	67.1	66.3	55.7	50.8	50.5	49.3
NOR139_7984499_231007_0004.NBF	(2023/10/07 10:47:58.00)	(0:2:1.0)		N/A	60.7	73.8	66.7	52.6	55.4	68.4	65.1	63.3	58.9	55.6	54.8	53.8
NOR139_7984499_231007_0005.NBF	(2023/10/07 10:50:02.00)	(0:4:57.0)		N/A	64.6	79.8	72.8	52.5	54.2	74.4	70	67.2	62.2	56.8	55.4	53.5
NOR139_7984499_231007_0006.NBF	(2023/10/07 10:55:02.00)	(0:4:57.0)		N/A	69.4	82.5	79.7	51.2	54.9	78.8	76.3	74.2	63.6	56.8	55.5	53.8
NOR139_7984499_231007_0007.NBF	(2023/10/07 11:00:02.00)	(0:4:57.0)		N/A	69.2	85.7	80.9	51.4	55	80.2	74.4	72.3	65	56.7	55.2	53.2
NOR139_7984499_231007_0008.NBF	(2023/10/07 11:05:01.00)	(0:4:58.0)		N/A	69.5	83.8	78.6	49.1	56.8	78.8	75.7	73.8	65.3	56.4	54.3	51.3
NOR139_7984499_231007_0009.NBF	(2023/10/07 11:10:01.00)	(0:4:58.0)		N/A	68.6	82.8	78.9	50.1	55.1	77.8	74.2	72.4	65.2	58	55.9	52.7
NOR139_7984499_231007_0010.NBF	(2023/10/07 11:15:01.00)	(0:4:58.0)		N/A	69.8	81.9	79.4	49.1	54.3	78.8	75.8	74	66.2	57.2	54.5	50.6
NOR139_7984499_231007_0011.NBF	(2023/10/07 11:20:01.00)	(0:4:58.0)		N/A	66	80	76.4	50.8	51.7	77.1	73.1	70.2	58.6	53	52.3	51.6
NOR139_7984499_231007_0012.NBF	(2023/10/07 11:25:01.00)	(0:4:58.0)		N/A	69.8	83.5	80.1	47.3	54.2	79.2	76	73.9	65.5	56.3	53.4	50.3
NOR139_7984499_231007_0013.NBF	(2023/10/07 11:30:02.00)	(0:4:57.0)		N/A	70.2	85.6	82.7	46.6	51.7	80.7	76.7	74	64.5	54.1	51.4	48.6
NOR139_7984499_231007_0014.NBF	(2023/10/07 11:35:02.00)	(0:4:57.0)		N/A	73.8	94	89.7	47.1	51.2	86.2	78.9	75.4	62.9	53.2	51.5	49.5
NOR139_7984499_231007_0015.NBF	(2023/10/07 11:40:02.00)	(0:4:57.0)		N/A	68.6	85.7	80.3	50	56.1	79	75	72.6	63.1	57.3	55.8	52.9
NOR139_7984499_231007_0016.NBF	(2023/10/07 11:45:02.00)	(0:4:57.0)		N/A	58.2	73.1	65.8	47.5	49.2	66.1	63.9	62.3	54.9	50.1	49.5	48.6
NOR139_7984499_231007_0017.NBF	(2023/10/07 11:50:02.00)	(0:4:57.0)		N/A	69.4	83.4	79.3	46.2	47.9	79.3	76.5	74.4	59.7	50.3	49	47.7
NOR139_7984499_231007_0018.NBF	(2023/10/07 11:55:02.00)	(0:4:57.0)		N/A	70	85.7	80.6	47.9	54.8	79.5	76.5	74.1	65.2	56.4	54.2	50.8
NOR139_7984499_231007_0019.NBF	(2023/10/07 12:00:02.00)	(0:4:57.0)		N/A	69.8	83.7	79.7	46.4	51.7	79.5	76.2	73.7	65.2	56.4	53.9	49.2
NOR139_7984499_231007_0020.NBF	(2023/10/07 12:05:01.00)	(0:4:58.0)		N/A	71.9	85.3	82.1	47.6	55.6	82.1	78.1	75.9	66.7	58.6	56.3	52
NOR139_7984499_231007_0021.NBF	(2023/10/07 12:10:02.00)	(0:4:57.0)		N/A	68	83.4	79.1	47.9	51.2	78.2	74.5	72.3	62	55.5	53.6	50.2
NOR139_7984499_231007_0022.NBF	(2023/10/07 12:15:02.00)	(0:4:57.0)		N/A	69.3	82.5	79.1	45.3	51.8	78.9	75.9	73.7	63.8	54.6	52.2	47.8
NOR139_7984499_231007_0023.NBF	(2023/10/07 12:20:01.00)	(0:4:58.0)		N/A	70.8	89.3	85.4	45.4	50.3	81.4	77.1	74.6	63.8	52.5	50	47.2
NOR139_7984499_231007_0024.NBF	(2023/10/07 12:25:02.00)	(0:4:57.0)		N/A	72	84.2	81.4	45	53.5	81.5	78.7	76.6	66	55.5	53.1	49.4
NOR139_7984499_231007_0025.NBF	(2023/10/07 12:30:02.00)	(0:4:57.0)		N/A	70.3	88.7	85.5	45.1	46.6	83.1	77.5	73.4	53.1	47.9	47.3	46.4
NOR139_7984499_231007_0026.NBF	(2023/10/07 12:35:02.00)	(0:4:57.0)		N/A	68.8	86.2	81.7	46.4	47.8	79.2	76.2	73	60.5	50.9	49.2	47.7
NOR139_7984499_231007_0027.NBF	(2023/10/07 12:40:02.00)	(0:4:57.0)		N/A	70.6	86	80.7	46.9	54.7	80.1	76.6	74.8	66.1	55.4	52.6	49.2
NOR139_7984499_231007_0028.NBF	(2023/10/07 12:45:02.00)	(0:4:57.0)		N/A	73.2	90.8	88.4	47.7	55	85	78.9	76.2	66.1	57	55.5	50.3
NOR139_7984499_231007_0029.NBF	(2023/10/07 12:50:02.00)	(0:4:57.0)		N/A	68.7	85.8	82.4	46	47.9	80.1	75.1	72.4	61.6	49.1	48.4	47.4
NOR139_7984499_231007_0030.NBF	(2023/10/07 12:55:02.00)	(0:4:57.0)		N/A	71	83.7	81.7	46.1	49.6	81.2	77.9	75.4	64.9	53.9	51.5	48.3
NOR139_7984499_231007_0031.NBF	(2023/10/07 13:00:01.00)	(0:4:58.0)		N/A	70.2	88.9	84	47.4	50.4	81.2	77.4	74.6	59.9	52.1	50.8	48.9
NOR139_7984499_231007_0032.NBF	(2023/10/07 13:05:02.00)	(0:4:57.0)		N/A	71.4	86.1	82.6	44.7	47.9	82.2	78.3	75.8	63.6	51.8	50.2	46.8
NOR139_7984499_231007_0033.NBF	(2023/10/07 13:10:02.00)	(0:4:57.0)		N/A	68.7	86.1	83.1	46.7	50.9	79.3	75.2	72.2	61.6	53.7	51.9	48.9
NOR139_7984499_231007_0034.NBF	(2023/10/07 13:15:02.00)	(0:1:30.0)		N/A	55.2	74	66.9	47.5	48.6	64.4	58.7	56.7	52.5	49.7	48.9	47.9



Jacobs Field Audio Equipment and Sound Measurement Standard Operating Protocol and Procedure Checklist

Created Date: 5/10/23, Last Revision: 10/24/23

Audio Equipment			
	Yes	No	Notes
Approved audio equipment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ONLY the approved equipment located in the cabinet stored at Jacobs Field shall be used.
Approved laptop in place and connected directly to designated mixer port?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ONLY laptop labelled "Approved for Use at Jacobs Field" may be used.
Speakers placed and facing proper direction?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	All speakers shall face directly away from the adjacent property ONLY and be placed at ground level per diagram.
Mixer channels set to marked levels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Knobs shall not be turned past the red markings for each input.
No external sources of amplified sound?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	All sources of amplified sound shall ONLY be connected to the mixer.
Digital signal processor power on?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Amplified sound shall ONLY be used when DSP is powered on.
Meter			
	Yes	No	Notes
Compliant meter?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ONLY NOR139 model meter shall be used.
Approved location?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Meter shall be in approved location for the entire monitoring period and mounted on a tripod at a height of approximately 5 feet.
Battery check completed and meter clock synced to time source?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Battery type: internal <input type="checkbox"/> external <input checked="" type="checkbox"/> NOTE: If battery low, replace prior to taking of measurements. Time source (e.g. phone, watch, etc...): <u>Cell Phone</u>
Calibration completed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Date and Time of Calibration: <u>10/6/23, 6:31 pm</u> Sensitivity Settings: <u>-28.8</u>
Meter setup complete?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Time weighting = Slow , Frequency weighting = A
Windscreen on?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Windscreen must be on prior to taking readings.
Wind speed and direction noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Wind speed: <u>3 mph</u> Wind direction: <u>SE</u>



AMERICAN UNIVERSITY

WASHINGTON, DC

Measurements																							
	Yes	No																					
Date and type of event noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Date: <u>10/8/23</u> Event type: <u>Field Hockey vs Maryland</u>																				
Name of operator noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Name: <u>Brian Chepulis</u>																				
Pregame startup test completed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<table border="1"> <thead> <tr> <th>Source</th> <th>Average (dBA)</th> <th>Maximum (slow)</th> <th>Duration (secs)</th> </tr> </thead> <tbody> <tr> <td>Music</td> <td>65.1</td> <td>67.8</td> <td>15</td> </tr> <tr> <td>PA</td> <td>62.2</td> <td>73.6</td> <td>16</td> </tr> <tr> <td>Shot Clock</td> <td>66.2</td> <td>70.6</td> <td>9</td> </tr> <tr> <td>Horn</td> <td>64.8</td> <td>70.7</td> <td>10</td> </tr> </tbody> </table>	Source	Average (dBA)	Maximum (slow)	Duration (secs)	Music	65.1	67.8	15	PA	62.2	73.6	16	Shot Clock	66.2	70.6	9	Horn	64.8	70.7	10
			Source	Average (dBA)	Maximum (slow)	Duration (secs)																	
			Music	65.1	67.8	15																	
			PA	62.2	73.6	16																	
Shot Clock	66.2	70.6	9																				
Horn	64.8	70.7	10																				
National Anthem start and end times noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Start time: <u>3:02 pm</u> End time: <u>3:04 pm</u>																				
Team introductions start and end times noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Start time: <u>3:00 pm</u> End time: <u>3:02 pm</u>																				
End time of each quarter noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Q1 end time: <u>3:24 pm</u> Other: _____ Q2 end time: <u>3:45 pm</u> Q3 end time: <u>4:15 pm</u> Q4 end time: <u>4:35 pm</u>																				
Post-event battery voltage noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Voltage: <u>12.2</u>																				
Meter data and raw data saved?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	File name for measurements: <u>231008</u>																				
Summary report generated and saved?	<input checked="" type="checkbox"/>	<input type="checkbox"/>																					

Notes (e.g., reasons for answering "No" to any above, problems encountered, corrections needed, etc...):



NOTE: THE BELOW SHALL BE SIGNED AND DATED AFTER THE CHECKLIST HAS BEEN FULLY COMPLETED. AN ELECTRONIC COPY OF THIS CHECKLIST SHALL BE SAVED TO FILE.

Signature: Brian Chepulis Date: 10/8/23

4710 Woodway Lane NW Residence ↑

MONITORING LOCATION → 

Jacobs Field Reference Diagram 5/10/23

 Horn  Speaker

Bench Podium Bench





ASPHALT PATH

All speakers to be placed at ground level.

SCOREBOARD
Fixed Horns Height = ~ 8"
Pointed towards ground.

GREEN TURF

Fixed Horn Height = ~ 12"
Pointed towards ground.

   
Bleacher Bleacher Bleacher Bleacher Bleacher

NOT TO SCALE

Directory:

C:\Users\chepulis\AppData\Local\Temp\Norsonic\Downloaded Measurements\NOR139_FILE\231008

File version v1.0/6.1.1.51

File 231008 FH v. Maryland	Date 10/8/23	Duration	Status	Average LAeq	Fast Max LAFmax	Slow Max LASmax	Fast Min LAFmin	Slow Min LASmin	File version v1.0/6.1.1.51							
									L1 LAF,Perc2	L5 LAF,Perc3	L10 LAF,Perc4	L50 LAF,Perc5	L90 LAF,Perc6	L95 LAF,Perc7	L99 LAF,Perc8	
NOR139_7984499_231008_0001.NBF	(2023/10/08 13:58:06.00)	(0:0:15.0)	Anthem	N/A	65.1	70.2	67.8	57.9	62.7	69.9	68.9	67.7	64.4	61.8	60.8	58.5
NOR139_7984499_231008_0002.NBF	(2023/10/08 13:58:57.00)	(0:0:16.0)	PA	N/A	62.2	79.3	73.6	48.4	50.4	77.9	64.9	58.2	53.5	49.8	49.1	48.5
NOR139_7984499_231008_0003.NBF	(2023/10/08 13:59:29.00)	(0:0:9.0)	Horn	N/A	66.2	76.5	70.6	45.6	54.7	-	70.7	67.6	64.8	61	54.1	45.7
NOR139_7984499_231008_0004.NBF	(2023/10/08 14:59:49.00)	(0:0:10.0)	Horn	N/A	64.8	75	70.7	51.1	58.3	74.4	71.4	67.4	60.3	55	54.4	52.4
NOR139_7984499_231008_0005.NBF	(2023/10/08 15:00:01.00)	(0:4:58.0)	N/A	N/A	68.7	80.7	76.9	49.9	53.8	77.4	74	72.1	66.7	57.6	55.5	52.2
NOR139_7984499_231008_0006.NBF	(2023/10/08 15:05:02.00)	(0:4:57.0)	Intro	N/A	70	89.1	85.2	46.2	47.5	82.1	76.4	72.2	60.9	51	49.3	47.6
NOR139_7984499_231008_0007.NBF	(2023/10/08 15:10:01.00)	(0:4:58.0)	N/A	N/A	66.2	81.9	76.9	52.2	54.8	77	71.9	69.7	61.9	56.1	55	53.6
NOR139_7984499_231008_0008.NBF	(2023/10/08 15:15:02.00)	(0:4:57.0)	N/A	N/A	66	85.5	80.3	49.8	55	76.1	72.2	69.4	60.3	55.3	54.3	52.4
NOR139_7984499_231008_0009.NBF	(2023/10/08 15:20:02.00)	(0:4:57.0)	1st	N/A	68.6	83.7	80.5	50	52.9	79.2	75.2	72.6	62.5	54.7	53.7	51.8
NOR139_7984499_231008_0010.NBF	(2023/10/08 15:25:02.00)	(0:4:57.0)	N/A	N/A	65.2	82.7	77.4	48.5	52.5	76	71.6	68.5	60	54.8	53.4	51.4
NOR139_7984499_231008_0011.NBF	(2023/10/08 15:30:02.00)	(0:4:57.0)	N/A	N/A	66	85	78.7	48	50.5	75.6	71.5	69.8	61.2	53.6	52	49.7
NOR139_7984499_231008_0012.NBF	(2023/10/08 15:35:02.00)	(0:4:57.0)	N/A	N/A	68.4	92.8	85.4	48.5	51.6	78.7	73.9	71.4	62.1	55.1	53.7	51
NOR139_7984499_231008_0013.NBF	(2023/10/08 15:40:02.00)	(0:4:57.0)	N/A	N/A	68.1	83.8	79.4	48	51.4	78.5	75	72.1	62.7	55.3	53.1	50.4
NOR139_7984499_231008_0014.NBF	(2023/10/08 15:45:02.00)	(0:4:57.0)	2nd	N/A	59.7	81.3	74.5	45.7	47.1	72.1	64.2	60.5	53.5	48.4	47.7	46.8
NOR139_7984499_231008_0015.NBF	(2023/10/08 15:50:02.00)	(0:4:57.0)	N/A	N/A	61.6	73.2	68.9	47.3	48.3	69.5	67.1	65.6	58.6	50.8	50	48.7
NOR139_7984499_231008_0016.NBF	(2023/10/08 15:55:02.00)	(0:4:57.0)	N/A	N/A	65.4	86.6	79.8	49.5	53.4	75.4	70.4	68	60.8	54.8	53.2	51.1
NOR139_7984499_231008_0017.NBF	(2023/10/08 16:00:01.00)	(0:4:58.0)	N/A	N/A	64.2	80.9	76.7	47.8	51.3	75.1	70	67.2	59.7	53	51.4	49.4
NOR139_7984499_231008_0018.NBF	(2023/10/08 16:05:02.00)	(0:4:57.0)	N/A	N/A	65.5	83.2	76.6	48.8	52.4	75.2	71.6	69.2	61.3	54.5	52.9	51
NOR139_7984499_231008_0019.NBF	(2023/10/08 16:10:02.00)	(0:4:57.0)	N/A	N/A	68.9	87.3	83.9	47.7	49.6	80.5	75	71.9	61.5	53.8	51.4	49.1
NOR139_7984499_231008_0020.NBF	(2023/10/08 16:15:02.00)	(0:4:57.0)	3rd	N/A	65.1	86.4	82.7	46.5	48.3	74.7	70.5	67.5	59.2	51.4	49.8	48.2
NOR139_7984499_231008_0021.NBF	(2023/10/08 16:20:02.00)	(0:4:57.0)	N/A	N/A	65.4	80.6	77	47.5	51.4	75.3	71	68.8	61.8	54.7	53.1	49.9
NOR139_7984499_231008_0022.NBF	(2023/10/08 16:25:02.00)	(0:4:57.0)	N/A	N/A	67.4	83.8	79.3	47.7	52.9	79.8	72.4	69.8	61.8	53.8	52.2	49.2
NOR139_7984499_231008_0023.NBF	(2023/10/08 16:30:02.00)	(0:4:57.0)	N/A	N/A	67.9	85.6	79.2	47.1	50.8	79.3	73.7	71.2	61.8	52.3	50.6	48.7
NOR139_7984499_231008_0024.NBF	(2023/10/08 16:35:02.00)	(0:4:57.0)	4th	N/A	64.3	81.1	75.8	46.3	48	75.5	71.2	68.5	55.3	49.7	48.9	47.7
NOR139_7984499_231008_0025.NBF	(2023/10/08 16:40:02.00)	(0:4:57.0)	N/A	N/A	53.4	70.3	67.3	45.4	46.9	63	58	55.5	50.3	47.9	47.3	46.6
NOR139_7984499_231008_0026.NBF	(2023/10/08 16:45:02.00)	(0:4:57.0)	N/A	N/A	55.5	74.3	68.6	47.3	48	63.8	59.7	58	52.9	49.9	49.3	48.1
NOR139_7984499_231008_0027.NBF	(2023/10/08 16:50:02.00)	(0:4:57.0)	N/A	N/A	54	70	62.6	46.2	47.9	61.5	58.7	57.3	51.5	48.6	48	47.3
NOR139_7984499_231008_0028.NBF	(2023/10/08 16:55:02.00)	(0:3:47.0)	N/A	N/A	56	70.2	64.3	46.6	48.5	64.8	61.1	59.3	53	49.1	48.6	47.5



Jacobs Field Audio Equipment and Sound Measurement Standard Operating Protocol and Procedure Checklist

Created Date: 5/10/23, Last Revision: 10/24/23

Audio Equipment			
	Yes	No	Notes
Approved audio equipment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ONLY the approved equipment located in the cabinet stored at Jacobs Field shall be used.
Approved laptop in place and connected directly to designated mixer port?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ONLY laptop labelled "Approved for Use at Jacobs Field" may be used.
Speakers placed and facing proper direction?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	All speakers shall face directly away from the adjacent property ONLY and be placed at ground level per diagram.
Mixer channels set to marked levels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Knobs shall not be turned past the red markings for each input.
No external sources of amplified sound?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	All sources of amplified sound shall ONLY be connected to the mixer.
Digital signal processor power on?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Amplified sound shall ONLY be used when DSP is powered on.
Meter			
	Yes	No	Notes
Compliant meter?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ONLY NOR139 model meter shall be used.
Approved location?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Meter shall be in approved location for the entire monitoring period and mounted on a tripod at a height of approximately 5 feet.
Battery check completed and meter clock synced to time source?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Battery type: internal <input type="checkbox"/> external <input checked="" type="checkbox"/> NOTE: If battery low, replace prior to taking of measurements. Time source (e.g. phone, watch, etc...): <u>Cell phone</u>
Calibration completed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Date and Time of Calibration: <u>10/20/23, 6:12 pm</u> Sensitivity Settings: <u>-28.8</u>
Meter setup complete?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Time weighting = Slow , Frequency weighting = A
Windscreen on?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Windscreen must be on prior to taking readings.
Wind speed and direction noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Wind speed: <u>4 mph</u> Wind direction: <u>S</u>



Measurements						
	Yes	No				
Date and type of event noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Date: <u>10/21/23</u> Event type: <u>Field Hockey vs Holy Cross</u>			
Name of operator noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Name: <u>Brian Chepulis</u>			
Pregame startup test completed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Source	Average (dBA)	Maximum (slow)	Duration (secs)
			Music	68.1	74.2	17
			PA	63.8	75	19
			Shot Clock	65.8	73.6	13
Horn						
National Anthem start and end times noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Start time: <u>12:02 pm</u> End time: <u>12:03 pm</u>			
Team introductions start and end times noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Start time: <u>11:58 am</u> End time: <u>12:01 pm</u>			
End time of each quarter noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Q1 end time: <u>12:21 pm</u> Other:			
			Q2 end time: <u>12:40 pm</u>			
			Q3 end time: <u>1:10 pm</u>			
			Q4 end time: <u>1:35 pm</u>			
Post-event battery voltage noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Voltage: <u>12.2</u>			
Meter data and raw data saved?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	File name for measurements: <u>230121</u>			
Summary report generated and saved?	<input checked="" type="checkbox"/>	<input type="checkbox"/>				

Notes (e.g., reasons for answering "No" to any above, problems encountered, corrections needed, etc...):



NOTE: THE BELOW SHALL BE SIGNED AND DATED AFTER THE CHECKLIST HAS BEEN FULLY COMPLETED. AN ELECTRONIC COPY OF THIS CHECKLIST SHALL BE SAVED TO FILE.

Signature: Brian Chepulis Date: 10/21/23

4710 Woodway Lane NW Residence ↑

MONITORING LOCATION → 

Jacobs Field Reference Diagram 5/10/23

 Horn
  Speaker

Bench Podium Bench

ASPHALT PATH





All speakers to be placed at ground level.

SCOREBOARD

Fixed Horns Height = ~ 8"
Pointed towards ground.

GREEN TURF

Fixed Horn Height = ~ 12"
Pointed towards ground.

   
 Bleacher Bleacher Bleacher Bleacher Bleacher

NOT TO SCALE

Directory:

C:\Users\chepulis\AppData\Local\Temp\Norsonic\Downloaded Measurements\NOR139_7984499\231021

File version v1.0/6.1.1.51

File 231021 FH v. Holy Cross	Date 10/21/23	Duration	Status	Average						File version		v1.0/6.1.1.51					
				L1	L5	L10	L50	L90	L95	L99	LAF, Perc2	LAF, Perc3	LAF, Perc4	LAF, Perc5	LAF, Perc6	LAF, Perc7	LAF, Perc8
NOR139_7984499_231021_0001.NBF	(2023/10/21 10:56:44.00)	(0:0:17.0)	Anthem	N/A	68.1	74.3	74.2	56.7	66.4	74.1	71.4	71	67.3	62.4	58.5	57	
NOR139_7984499_231021_0002.NBF	(2023/10/21 10:57:30.00)	(0:0:19.0)	PA	N/A	63.8	81.1	75	52	55.1	79.2	64.5	62.7	57.8	54	53.3	52.4	
NOR139_7984499_231021_0003.NBF	(2023/10/21 10:58:14.00)	(0:0:13.0)	Horn	N/A	65.8	80.1	73.6	45.9	58.1	78.5	69.2	68.7	58.4	46.8	46.5	46	
NOR139_7984499_231021_0004.NBF	(2023/10/21 11:41:34.00)	(0:3:25.0)		N/A	62.7	78.2	72.7	48	49.9	72.7	67.8	65.6	59.5	53.4	51.6	49.4	
NOR139_7984499_231021_0005.NBF	(2023/10/21 11:45:01.00)	(0:4:58.0)		N/A	61.1	77.4	72.7	48.2	50.3	70.9	66.3	64.5	57.6	51.2	50.4	49.4	
NOR139_7984499_231021_0006.NBF	(2023/10/21 11:50:01.00)	(0:4:58.0)		N/A	66.8	84.7	78.5	48.4	52.1	76.2	72.6	70.7	63	57	55.5	51.1	
NOR139_7984499_231021_0007.NBF	(2023/10/21 11:55:02.00)	(0:4:57.0)	intros	N/A	68.8	82.1	80.1	50.5	54	78.8	75.5	73.2	62.6	55	54	52.4	
NOR139_7984499_231021_0008.NBF	(2023/10/21 12:00:02.00)	(0:4:57.0)	anthem	N/A	71.5	88.7	86.8	47.5	49.2	82	77	74.8	65	52.4	51.1	49.3	
NOR139_7984499_231021_0009.NBF	(2023/10/21 12:05:02.00)	(0:4:57.0)		N/A	69.3	85.2	81.2	49.2	53	80.3	75.8	73.2	62.5	54.6	53.3	51.4	
NOR139_7984499_231021_0010.NBF	(2023/10/21 12:10:02.00)	(0:4:57.0)		N/A	71.8	90.2	83.6	51.5	55.9	83.1	78.3	75.6	64.9	57.3	55.8	53.5	
NOR139_7984499_231021_0011.NBF	(2023/10/21 12:15:02.00)	(0:4:57.0)		N/A	69.7	84	81	50.9	55.7	80.4	75.8	73.4	64.6	56.5	55	53.2	
NOR139_7984499_231021_0012.NBF	(2023/10/21 12:20:02.00)	(0:4:57.0)	1st	N/A	67.2	87.5	81.6	49.4	53.4	78.3	74	70.5	59.6	54.3	53.3	51.8	
NOR139_7984499_231021_0013.NBF	(2023/10/21 12:25:02.00)	(0:4:57.0)		N/A	70.4	89.2	84.4	49.6	51.9	82.1	76.7	73.5	62.7	54.8	53.2	51.3	
NOR139_7984499_231021_0014.NBF	(2023/10/21 12:30:02.00)	(0:4:57.0)		N/A	67.9	82.9	78.2	47.2	51.8	78.5	74.3	71.8	62.2	53.6	51.6	49.7	
NOR139_7984499_231021_0015.NBF	(2023/10/21 12:35:02.00)	(0:4:57.0)		N/A	69.7	87.3	83.6	48.9	52.1	80.2	76	73.5	62.6	54.3	52.7	50.8	
NOR139_7984499_231021_0016.NBF	(2023/10/21 12:40:02.00)	(0:4:57.0)	2nd	N/A	64.3	77.6	73.6	51.9	53.4	73.1	69.6	67.7	61.5	55.3	54.4	53	
NOR139_7984499_231021_0017.NBF	(2023/10/21 12:45:02.00)	(0:4:57.0)		N/A	63.7	81.9	76.6	50.8	52.3	74.3	70.2	67.4	58.2	54	53.1	51.8	
NOR139_7984499_231021_0018.NBF	(2023/10/21 12:50:02.00)	(0:4:57.0)		N/A	72.1	89.6	85.2	49.2	51.6	83.4	79.4	76.1	62.1	54.1	52.8	51.3	
NOR139_7984499_231021_0019.NBF	(2023/10/21 12:55:01.00)	(0:4:58.0)		N/A	75.2	91.2	89	50.7	55.2	88.7	81.4	77.3	65.4	56.8	55	52.3	
NOR139_7984499_231021_0020.NBF	(2023/10/21 13:00:02.00)	(0:4:57.0)		N/A	69.8	86.9	81.7	48.8	50.3	79.2	75.6	73.6	64.7	55.8	53.1	49.9	
NOR139_7984499_231021_0021.NBF	(2023/10/21 13:05:02.00)	(0:4:57.0)		N/A	70	84.6	80.4	49.4	50.8	79.9	76.4	74.2	64.3	55.4	53.6	51	
NOR139_7984499_231021_0022.NBF	(2023/10/21 13:10:02.00)	(0:4:57.0)	3rd	N/A	70.2	91.2	88.3	48.6	50	81.5	75.6	72.3	57.8	51.4	50.5	49.5	
NOR139_7984499_231021_0023.NBF	(2023/10/21 13:15:02.00)	(0:4:57.0)		N/A	76.8	93.3	91.3	49.8	54.2	90.3	82.7	79.1	66	56.8	54.7	51.7	
NOR139_7984499_231021_0024.NBF	(2023/10/21 13:20:02.00)	(0:4:57.0)		N/A	71.4	89.5	85.3	50.8	53.1	81.3	77.3	75.3	65.7	55.8	54.3	52.1	
NOR139_7984499_231021_0025.NBF	(2023/10/21 13:25:02.00)	(0:4:57.0)		N/A	69.9	87.5	82.3	46.4	48.2	80.2	76.3	74.3	62.9	53.4	50.9	47.7	
NOR139_7984499_231021_0026.NBF	(2023/10/21 13:30:02.00)	(0:4:57.0)		N/A	71.7	86.8	83.7	49.3	54.1	82.3	77.1	75	67.4	57.4	55.3	51.8	
NOR139_7984499_231021_0027.NBF	(2023/10/21 13:35:02.00)	(0:2:30.0)	4th	N/A	66.2	81.9	75.9	46.9	51.7	76	72.5	70.6	59.9	52.8	51.7	50	



Jacobs Field Audio Equipment and Sound Measurement Standard Operating Protocol and Procedure Checklist

Created Date: 5/10/23, Last Revision: 10/24/23

Audio Equipment			
	Yes	No	Notes
Approved audio equipment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ONLY the approved equipment located in the cabinet stored at Jacobs Field shall be used.
Approved laptop in place and connected directly to designated mixer port?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ONLY laptop labelled "Approved for Use at Jacobs Field" may be used.
Speakers placed and facing proper direction?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	All speakers shall face directly away from the adjacent property ONLY and be placed at ground level per diagram.
Mixer channels set to marked levels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Knobs shall not be turned past the red markings for each input.
No external sources of amplified sound?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	All sources of amplified sound shall ONLY be connected to the mixer.
Digital signal processor power on?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Amplified sound shall ONLY be used when DSP is powered on.
Meter			
	Yes	No	Notes
Compliant meter?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ONLY NOR139 model meter shall be used.
Approved location?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Meter shall be in approved location for the entire monitoring period and mounted on a tripod at a height of approximately 5 feet.
Battery check completed and meter clock synced to time source?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Battery type: internal <input type="checkbox"/> external <input checked="" type="checkbox"/> NOTE: If battery low, replace prior to taking of measurements. Time source (e.g. phone, watch, etc...): <u>Cell phone</u>
Calibration completed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Date and Time of Calibration: <u>11/1/23, 5:43 pm</u> Sensitivity Settings: <u>-28.4</u>
Meter setup complete?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Time weighting = Slow , Frequency weighting = A
Windscreen on?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Windscreen must be on prior to taking readings.
Wind speed and direction noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Wind speed: <u>5 mph</u> Wind direction: <u>SE</u>



AMERICAN UNIVERSITY

WASHINGTON, DC

Measurements						
	Yes	No				
Date and type of event noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Date: <u>11/2/23</u> Event type: <u>Field Hockey vs Bucknell</u>			
Name of operator noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Name: <u>Brian Chepulis</u>			
Pregame startup test completed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Source	Average (dBA)	Maximum (slow)	Duration (secs)
			Music	66.5	77.4	30
			PA	68	73.8	19
			Shot Clock	76.1	83.1	12
Horn						
National Anthem start and end times noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Start time: <u>11:02 am</u> End time: <u>11:04 am</u>			
Team introductions start and end times noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Start time: <u>10:58 am</u> End time: <u>11:01 am</u>			
End time of each quarter noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Q1 end time: <u>11:25 am</u> Other:			
			Q2 end time: <u>11:47 am</u>			
			Q3 end time: <u>12:14 pm</u>			
			Q4 end time: <u>12:37 pm</u>			
Post-event battery voltage noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Voltage: <u>12.1</u>			
Meter data and raw data saved?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	File name for measurements: <u>231102</u>			
Summary report generated and saved?	<input checked="" type="checkbox"/>	<input type="checkbox"/>				

Notes (e.g., reasons for answering "No" to any above, problems encountered, corrections needed, etc...):
Started late due to field conditions.



NOTE: THE BELOW SHALL BE SIGNED AND DATED AFTER THE CHECKLIST HAS BEEN FULLY COMPLETED. AN ELECTRONIC COPY OF THIS CHECKLIST SHALL BE SAVED TO FILE.

Signature: Brian Chepulis Date: 11/2/23

4710 Woodway Lane NW Residence ↑

MONITORING LOCATION → 

Jacobs Field Reference Diagram 5/10/23

 Horn  Speaker

Bench Podium Bench

ASPHALT PATH

All speakers to be placed at ground level.

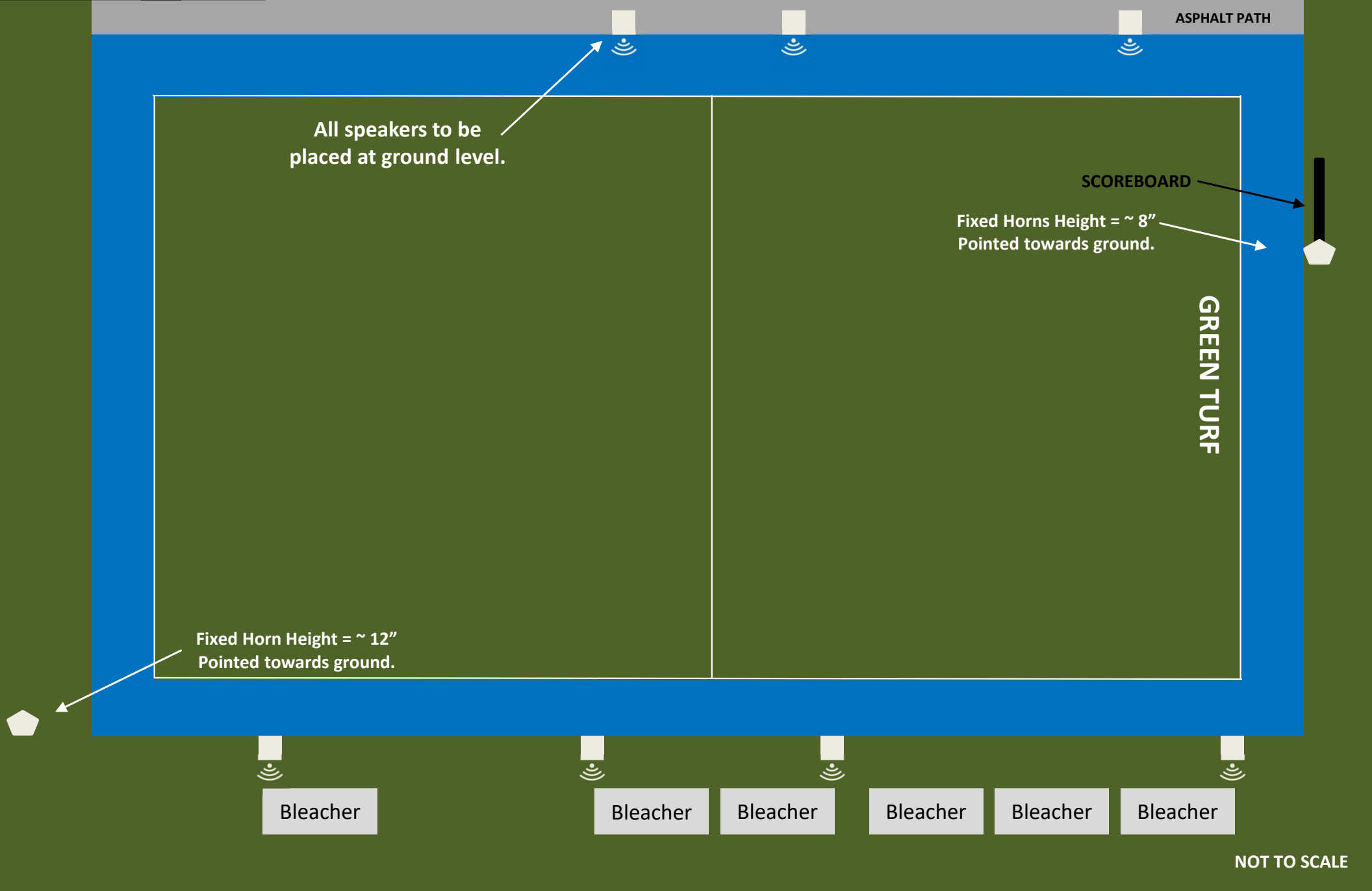
SCOREBOARD
Fixed Horns Height = ~ 8"
Pointed towards ground.

GREEN TURF

Fixed Horn Height = ~ 12"
Pointed towards ground.

Bleacher Bleacher Bleacher Bleacher Bleacher

NOT TO SCALE





Jacobs Field Audio Equipment and Sound Measurement Standard Operating Protocol and Procedure Checklist

Created Date: 5/10/23, Last Revision: 10/24/23

Audio Equipment			
	Yes	No	Notes
Approved audio equipment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ONLY the approved equipment located in the cabinet stored at Jacobs Field shall be used.
Approved laptop in place and connected directly to designated mixer port?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ONLY laptop labelled "Approved for Use at Jacobs Field" may be used.
Speakers placed and facing proper direction?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	All speakers shall face directly away from the adjacent property ONLY and be placed at ground level per diagram.
Mixer channels set to marked levels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Knobs shall not be turned past the red markings for each input.
No external sources of amplified sound?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	All sources of amplified sound shall ONLY be connected to the mixer.
Digital signal processor power on?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Amplified sound shall ONLY be used when DSP is powered on.
Meter			
	Yes	No	Notes
Compliant meter?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ONLY NOR139 model meter shall be used.
Approved location?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Meter shall be in approved location for the entire monitoring period and mounted on a tripod at a height of approximately 5 feet.
Battery check completed and meter clock synced to time source?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Battery type: internal <input type="checkbox"/> external <input checked="" type="checkbox"/> NOTE: If battery low, replace prior to taking of measurements. Time source (e.g. phone, watch, etc...): <u>Cell phone</u>
Calibration completed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Date and Time of Calibration: <u>11/1/23, 5:43 pm</u> Sensitivity Settings: <u>-28.4</u>
Meter setup complete?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Time weighting = Slow , Frequency weighting = A
Windscreen on?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Windscreen must be on prior to taking readings.
Wind speed and direction noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Wind speed: <u>7 mph</u> Wind direction: <u>SE</u>



Measurements				
	Yes	No		
Date and type of event noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Date: <u>11/2/23</u> Event type: <u>Field Hockey BU v Lafayette</u>	
Name of operator noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Name: <u>Brian Chepulis</u>	
Pregame startup test completed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Source	Average (dBA)
			Music	
			PA	
			Shot Clock	
			Maximum (slow)	Duration (secs)
National Anthem start and end times noted?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Start time: _____ End time: _____	
Team introductions start and end times noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Start time: <u>2:02 pm</u> End time: <u>2:05 pm</u>	
End time of each quarter noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Q1 end time: <u>2:27 pm</u> Other: <u>OT 3:49 pm</u>	
			Q2 end time: <u>2:47 pm</u>	
			Q3 end time: <u>3:14 pm</u>	
			Q4 end time: <u>3:36 pm</u>	
Post-event battery voltage noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Voltage: <u>11.86</u>	
Meter data and raw data saved?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	File name for measurements: <u>231102</u>	
Summary report generated and saved?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		

Notes (e.g., reasons for answering "No" to any above, problems encountered, corrections needed, etc...):
Tested all prior to game 1. No PA used for game 2. No anthem for game 2.



NOTE: THE BELOW SHALL BE SIGNED AND DATED AFTER THE CHECKLIST HAS BEEN FULLY COMPLETED. AN ELECTRONIC COPY OF THIS CHECKLIST SHALL BE SAVED TO FILE.

Signature: Brian Chepulis Date: 11/2/23

4710 Woodway Lane NW Residence ↑

MONITORING LOCATION → 

Jacobs Field Reference Diagram 5/10/23

 Horn
  Speaker

Bench Podium Bench

ASPHALT PATH





All speakers to be placed at ground level.

SCOREBOARD

Fixed Horns Height = ~ 8"
Pointed towards ground.

GREEN TURF

Fixed Horn Height = ~ 12"
Pointed towards ground.

Bleacher Bleacher Bleacher Bleacher Bleacher

NOT TO SCALE



Jacobs Field Audio Equipment and Sound Measurement Standard Operating Protocol and Procedure Checklist

Created Date: 5/10/23, Last Revision: 10/24/23

Audio Equipment			
	Yes	No	Notes
Approved audio equipment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ONLY the approved equipment located in the cabinet stored at Jacobs Field shall be used.
Approved laptop in place and connected directly to designated mixer port?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ONLY laptop labelled "Approved for Use at Jacobs Field" may be used.
Speakers placed and facing proper direction?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	All speakers shall face directly away from the adjacent property ONLY and be placed at ground level per diagram.
Mixer channels set to marked levels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Knobs shall not be turned past the red markings for each input.
No external sources of amplified sound?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	All sources of amplified sound shall ONLY be connected to the mixer.
Digital signal processor power on?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Amplified sound shall ONLY be used when DSP is powered on.
Meter			
	Yes	No	Notes
Compliant meter?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ONLY NOR139 model meter shall be used.
Approved location?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Meter shall be in approved location for the entire monitoring period and mounted on a tripod at a height of approximately 5 feet.
Battery check completed and meter clock synced to time source?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Battery type: internal <input type="checkbox"/> external <input checked="" type="checkbox"/> NOTE: If battery low, replace prior to taking of measurements. Time source (e.g. phone, watch, etc...): <u>Cell phone</u>
Calibration completed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Date and Time of Calibration: <u>11/1/23, 5:43 pm</u> Sensitivity Settings: <u>-28.4</u>
Meter setup complete?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Time weighting = Slow , Frequency weighting = A
Windscreen on?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Windscreen must be on prior to taking readings.
Wind speed and direction noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Wind speed: <u>4 mph</u> Wind direction: <u>S</u>



Measurements						
	Yes	No				
Date and type of event noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Date: <u>11/4/23</u> Event type: <u>Field Hockey vs Lafayette</u>			
Name of operator noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Name: <u>Brian Chepulis</u>			
Pregame startup test completed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Source	Average (dBA)	Maximum (slow)	Duration (secs)
			Music	60.6	72.1	20
			PA	51	53.7	13
			Shot Clock	51.1	55	13
Horn						
National Anthem start and end times noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Start time: <u>1:00 pm</u> End time: <u>1:01 pm</u>			
Team introductions start and end times noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Start time: <u>12:57 pm</u> End time: <u>12:59 pm</u>			
End time of each quarter noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Q1 end time: <u>1:20 pm</u> Other:			
			Q2 end time: <u>1:40 pm</u>			
			Q3 end time: <u>2:09 pm</u>			
			Q4 end time: <u>2:32 pm</u>			
Post-event battery voltage noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Voltage: <u>12.11</u>			
Meter data and raw data saved?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	File name for measurements: <u>231104</u>			
Summary report generated and saved?	<input checked="" type="checkbox"/>	<input type="checkbox"/>				

Notes (e.g., reasons for answering "No" to any above, problems encountered, corrections needed, etc...):



NOTE: THE BELOW SHALL BE SIGNED AND DATED AFTER THE CHECKLIST HAS BEEN FULLY COMPLETED. AN ELECTRONIC COPY OF THIS CHECKLIST SHALL BE SAVED TO FILE.

Signature: Brian Chepulis Date: 11/4/23

4710 Woodway Lane NW Residence ↑

MONITORING LOCATION → 

Jacobs Field Reference Diagram 5/10/23

 Horn  Speaker

Bench Podium Bench





ASPHALT PATH

All speakers to be placed at ground level.

SCOREBOARD
Fixed Horns Height = ~ 8"
Pointed towards ground.

GREEN TURF

Fixed Horn Height = ~ 12"
Pointed towards ground.

   
Bleacher Bleacher Bleacher Bleacher Bleacher

NOT TO SCALE

Directory:

C:\Users\chepulis\AppData\Local\Temp\Norsonic\Downloaded Measurements\NOR139_7984499\231104

File version v1.0/6.1.1.51

File 231104 FH v. Lafayette	Date 11/4/23	Duration	Status	Average	Fast Max	Slow Max	Fast Min	Slow Min	L1	L5	L10	L50	L90	L95	L99	
				LAeq	LAFmax	LASmax	LAFmin	LASmin	LAF,Perc2	LAF,Perc3	LAF,Perc4	LAF,Perc5	LAF,Perc6	LAF,Perc7	LAF,Perc8	
NOR139_7984499_231104_0001.NBF	(2023/11/04 11:38:11.00)	(0:0:20.0)	Anthem	N/A	60.6	67.8	72.1	46.8	55.2	66.8	65	64.2	58.6	55.2	54.4	49.8
NOR139_7984499_231104_0002.NBF	(2023/11/04 11:39:35.00)	(0:0:13.0)	PA	N/A	51	57.2	53.7	44.6	47.6	55.5	54.5	53.9	50.1	46.7	45.4	44.9
NOR139_7984499_231104_0003.NBF	(2023/11/04 11:40:15.00)	(0:0:13.0)	Horn	N/A	51.1	59.3	55	46.2	49	57.3	56.3	54.2	49.6	47.1	46.8	46.4
NOR139_7984499_231104_0004.NBF	(2023/11/04 11:40:57.00)	(0:0:9.0)		N/A	63.3	71.1	65.7	48.6	60.6	-	66	65.6	62.7	56.6	53.4	48.8
NOR139_7984499_231104_0005.NBF	(2023/11/04 13:01:16.00)	(0:3:43.0)		N/A	65.9	83.9	79.8	42.3	44.1	78.3	72.6	68.8	57	47.3	45.3	43.7
NOR139_7984499_231104_0006.NBF	(2023/11/04 13:05:01.00)	(0:4:58.0)		N/A	72.5	87.2	82.9	44.7	48.2	83.5	79.2	76.5	65.3	53.7	50.2	47
NOR139_7984499_231104_0007.NBF	(2023/11/04 13:10:02.00)	(0:4:57.0)		N/A	73.2	86.5	83	46.3	54.1	83	79.9	77.4	67.8	57.3	55.2	51.9
NOR139_7984499_231104_0008.NBF	(2023/11/04 13:15:02.00)	(0:4:57.0)		N/A	72.8	90.3	84	47.1	55.4	84.2	79.5	76.4	66	56.8	54.5	51.1
NOR139_7984499_231104_0009.NBF	(2023/11/04 13:20:02.00)	(0:4:57.0)	1st	N/A	66.8	85.6	80.3	44.4	47.3	77.8	73.6	70.9	58.2	49.6	48.2	46.6
NOR139_7984499_231104_0010.NBF	(2023/11/04 13:25:02.00)	(0:4:57.0)		N/A	73.9	87.9	84.3	44.1	51.7	84.5	81.2	78.3	64.6	54	51.8	48.5
NOR139_7984499_231104_0011.NBF	(2023/11/04 13:30:02.00)	(0:4:57.0)		N/A	70.5	87.9	84.2	44.1	54.1	81.6	76.5	74	64.4	55.9	53	49.4
NOR139_7984499_231104_0012.NBF	(2023/11/04 13:35:01.00)	(0:4:58.0)		N/A	70.5	86.1	79.2	43.5	52	79.4	76.5	74.9	66.1	55.5	51.8	48.1
NOR139_7984499_231104_0013.NBF	(2023/11/04 13:40:02.00)	(0:4:57.0)	2nd	N/A	60.7	78.6	73.7	46.9	50.1	72.4	66.1	62.6	55.9	51.9	51	49.6
NOR139_7984499_231104_0014.NBF	(2023/11/04 13:45:01.00)	(0:4:58.0)		N/A	57.7	75.1	70.7	44.3	46.8	68.3	62.5	60.2	53.8	49.2	47.9	46.2
NOR139_7984499_231104_0015.NBF	(2023/11/04 13:50:01.00)	(0:4:58.0)		N/A	67.5	85.9	81.2	46.2	48.9	79.3	73.3	70.2	59.4	51	49.5	47.8
NOR139_7984499_231104_0016.NBF	(2023/11/04 13:55:02.00)	(0:4:57.0)		N/A	70.4	83.2	80.1	45.4	51.5	79.7	76.8	75	65.4	55.1	52.7	49.5
NOR139_7984499_231104_0017.NBF	(2023/11/04 14:00:01.00)	(0:4:58.0)		N/A	71.1	88.9	81.9	50	56.3	81.7	77.7	74.9	65.5	57.6	55.2	52.6
NOR139_7984499_231104_0018.NBF	(2023/11/04 14:05:02.00)	(0:4:57.0)	3rd	N/A	71.3	89.2	83.7	45.4	55	81.8	77.7	75	65	56	53.9	50.4
NOR139_7984499_231104_0019.NBF	(2023/11/04 14:10:02.00)	(0:4:57.0)		N/A	71.5	89.3	84.5	43.8	47.3	82.2	77.7	75.4	59.7	49.2	47.8	45.8
NOR139_7984499_231104_0020.NBF	(2023/11/04 14:15:02.00)	(0:4:57.0)		N/A	70.6	86	81.4	44	50	82.2	77.1	74.6	63.5	53.3	51	46.5
NOR139_7984499_231104_0021.NBF	(2023/11/04 14:20:02.00)	(0:4:57.0)		N/A	70.1	87.2	80.9	45.7	51.3	79.8	76.3	74.2	65.1	55.2	52.8	49.2
NOR139_7984499_231104_0022.NBF	(2023/11/04 14:25:02.00)	(0:4:57.0)		N/A	72.5	90.4	86.3	45.7	53	85.4	77.5	74.5	65.6	55.2	52.6	49.7
NOR139_7984499_231104_0023.NBF	(2023/11/04 14:30:01.00)	(0:4:58.0)	4th	N/A	70	86.3	81.2	46.8	53.8	79.3	76.6	74.5	64	56.1	54.4	50.6
NOR139_7984499_231104_0024.NBF	(2023/11/04 14:35:02.00)	(0:4:57.0)		N/A	65.4	80.1	77.6	46.8	50	76.7	71.8	69	59	52.1	50.9	49.2
NOR139_7984499_231104_0025.NBF	(2023/11/04 14:40:02.00)	(0:4:57.0)		N/A	67.9	82	79.5	41.3	43	79.1	75.1	72.1	61	48.3	45.6	42.4
NOR139_7984499_231104_0026.NBF	(2023/11/04 14:45:01.00)	(0:4:58.0)		N/A	65.3	81.3	78.6	43.1	45.5	77.9	73.6	67	54.3	48	46.9	45
NOR139_7984499_231104_0027.NBF	(2023/11/04 14:50:02.00)	(0:4:57.0)		N/A	60.4	79.2	74.5	44.3	47.5	73.1	66.2	62.2	54.7	49.9	48.5	46.3
NOR139_7984499_231104_0028.NBF	(2023/11/04 14:55:02.00)	(0:3:50.0)		N/A	54.1	72.4	67.4	44.1	45.7	65.1	58.2	55.9	50.3	47	46.3	45.2