





## **SOUND LEVEL METER READINGS**

## MODEL: FT-DD-T440HP3 (40hp T4 VACSTAR TURBINE VACUUM PRODUCER)

**READING ONE**: 60 DB-A, 3 FEET FROM TURBINE @ 45° ANGLE

AND NO BACKGROUND NOISE OR OUTSIDE INTERFERENCE.

**READING TWO**: 56 DB-A, 10 FEET FROM TURBINE @ 45° ANGLE

AND NO BACKGROUND NOISE OR OUTSIDE INTERFERENCE.

**READING THREE**: 51 DB-A, 20 FEET FROM TURBINE @ 45° ANGLE

AND NO BACKGROUND NOISE OR OUTSIDE INTERFERENCE.

**READING FOUR**: 44 DB-A, 30 FEET FROM TURBINE @ 45° ANGLE

AND NO BACKGROUND NOISE OR OUTSIDE INTERFERENCE.

<u>NOTE</u>: THESE READINGS WERE TAKEN OUTSIDE OF 8'x10'x8' CINDER BLOCK ENCLOSURE WITH CONCRETE SLAB AND NO ROOF.

## **SOUND LEVEL METER USED:**

SIMPSON MODEL #40003 – MSHA APPROVED.
MEETS OSHA & WALSH-HEALY REQUIREMENTS FOR NOISE CONTROL.
CONFORMS TO ANSI S1.4-1983, IEC 651 SPECS FOR METER TYPE.

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Approved

03/22/2021 12:09:27 PM

Project Number:3746.0003 Sheet Project Name:Blue Wave Car Wash Test Personnel:Henrique Zhu								Sheet	_of	
Noise Measurement Survey										
Site Number:         ST-1         Date:6-29-22         Time: From 11:10AM         To 11:25AM										
existing Northerr Primary	carwash, and boundary  Noise Sour	nd metal fe of site has ces: E. I	nce with E. Lelar Leland R	n woo nd Ro Load 1	d grass and firm od slats along so had, approx. 200 traffic, traffic in	uthern bound ft away.	ary of	site. Roac	l on	
wasn be	hind concr	ete wan (Ea	ast of sit	<u>.e)</u>						
Measurement Results Observed Noise Sources/Events										
	dB	BA	T	ime	No	ise Source/Ev	ent		dBA	
Leq	51.8		1	1:16	Car wash				~57	
Lmax	57.9		1	1:22	Tank degassin	g			~54	
Lmin	46.1									
L5	56.4									
L10	55.9									
L50	50.2									
L90	47.7									
Ldn										
CNEL										
lanes, 1		5-20 cars i	n each v	ehicl	oh depending on e group, 2 group		_	_		
Equipment:SoundTrack LxT2 Measured Difference:0.49dBA										
Settings: A-Weighted□ Other□ Slow□ Fast□ Windscreen□										
Atmagn	haria Cana	litions:								
Atmospheric Conditions:  Maximum Wind   Average Winderschafter   Averag			Wind			Relative	<b>a</b>			
		_		$T_{\triangle}$	emperature (F)	Humidity				
Velocity (mph) Velocity (mp 7.8 2		(mpn)	88.	• ` ` ` `	Trainidity	( / 0 )				
1.0		<u> </u>		00.	.3					
Commo	enta:									
Comme	J1110.									

		_3746.0003					Sheet	_of	
		lue Wave C							
Test Per	sonnel:	Henrique Z	hu						
		N	oise N	<b>Iea</b>	surement S	Survey			
Site Nur	nber: <u>ST</u>	<u>-2</u> D	Oate: <u>6-</u>	<u> 29-2</u>	<u>2</u> Time:	From <u>11:41AM</u>	<u>Го 11:56А</u>	<u>M</u>	
Site Loc	ation:	Site f	eatures o	dried	grass and firm	dirt surface. Concre	ete wall al	ongside	
					-	uthern boundary of			
Northern	n boundary	of site has I	E. Lelan	d Ro	ad, approx. 125	oft away. Concrete	wall ends	right by	
tripod po	osition.								
					raffic, traffic in	residential unit sou	uth of site.	<u>, Car</u>	
Wash be	hind concre	ete wall (Ea	st of site	<u>;)</u>					
М.	4 B	-14	^	1.	<b>J.N.</b> ' C				
vieasur	ement Resi				ved Noise Sour		-	dBA	
T	dB	ΘA		me		ise Source/Event			
Leq	56.1			:45	Tank degassin			~65	
Lmax	74.7		11	:50	Sports car acce	eleration		~65	
Lmin	50.2								
L5	58.0								
L10	56.5								
L50	53.9								
L90	52.3								
Ldn									
CNEL									
Commei	nts•	Vehicle	sneeds.	20-4	Omnh denendin	g on traffic light, po	osted 30m	nh 2	
						, 2 groups every 5 n			
		t cars to sen				, 2 groups every 5 h	imiaco. v	Cincies	
runge nv	om compac	t cars to sen	ii tiuiici	uuc	KS.				
Equipme	ent: Soun	dTrack Lx7	Γ2		Measured Diff	ference: -0.49	dBA		
Equipment:SoundTrack LxT2 Measured Difference:0.49dBA Settings: A-Weighted Other Slow Fast Windscreen									
<i>9</i> -1	<i>6</i>				_				
Atmosp	heric Cond	litions:							
Maximum Wind Average Win						Relative			
Velocity (mph) Velocity (mp				Te	mperature (F)	Humidity (%)			
11.4		3.8		82.:	5	• \ /			
Commo	ents:								

	Number: Name: <u>B</u>			h			Sheet	_of
	sonnel:				<del></del>			
		]	Noise 1	Mea	surement S	Survey		
Site Nun	nber:ST	3Date:	_6-29-2	2	_ Time: From _	_12:08PM To _12	2:18PM	
existing	carwash, ar	nd metal fe	ence with	ı woc	d grass and firm od slats along so ad, approx. 10f	dirt surface. Concruthern boundary of taway.	ete wall al site. Road	ongside l on
	Noise Sour				raffic, traffic in	residential unit sou	th of site,	<u>Car</u>
Measur	ement Resi		1		ved Noise Sou			
	dB	8A	-	ime		ise Source/Event		dBA
Leq	62.5		12	2:25	Car Wash			~66
Lmax	75.6		ļ <u> </u>					
Lmin	51.6							
L5	67.3							
L10	66.0							
L50	60.6							
L90	55.4							
Ldn								
CNEL								
lanes, 1		5-20 cars	in each v	ehicl		traffic light, posted ps every 5 minutes.		
Settings:	ent: Se A-Weight	ed□ Other				red Difference: I Fast□ Win	0.49c ndscreenE	
Atmospheric Conditions:  Maximum Wind						Relative		
	ity (mph)	Velocity		Te	emperature (F)	Humidity (%)		
8.9	, (111p11 <i>)</i>	3.2	, (mpn)	87.		1141111411y (70)		
0.7		J. <u>L</u>		07.				
	<b>4</b>							