



# Status Report Noise Mitigation Programs

Presentation to the  
LAX/Community Noise Roundtable

July 12, 2017

# Aircraft Sound Insulation Programs at LAX

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- Land uses around airports such as residences, schools, hospitals and places of worship, with a Community Noise Equivalent Level (CNEL) of 65 dB, are generally considered “incompatible” with the airport.
- Los Angeles International Airport (LAX) has an FAA-approved Noise Compatibility Program (NCP), which makes certain residential areas eligible for FAA funding.
- Federal (ANSA, 1979), State (Title 21, 1970) and Local (Resolution No. 21481, 2001) rules provide eligibility and funding structure.
- LAWA Letter Agreements provide specifics on Program Administration

# LAX Program Participants

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## Residential Programs

City of El Segundo (on hold)

City of Inglewood

County of Los Angeles (Lennox, Del Aire, Athens)

City of Los Angeles (completed 2013)

## School Programs

Lennox School District

Inglewood Unified School District

# Typical Sound Insulation Treatments

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## **Residential:**

- Replacement of windows and doors (including hardware and weather-stripping), positive ventilation system

## **Schools:**

- Replacement of doors and new threshold
- Replacement of windows, including new windows where wood replacement or drywall-blocked windows currently exist
- Exterior wall insulation and interior sound panels as needed
- Mechanical system upgrades (HVAC/PVS)

Target of 45dB interior noise level, and/or a 5dB reduction

# Acoustical Testing – Design Status Update

## Testing Design Status Update

2016		July-16					Aug-16					Sep-16				
Jurisdiction	Total Eligible	Total Outreach	Total Units Sign up	Total Units Survey	Acoustic Tested	Total Units Design	Total Outreach	Total Units Sign up	Total Units Survey	Acoustic Tested	Total Units Design	Total Outreach	Total Units Sign up	Total Units Survey	Acoustic Tested	Total Units Design
County of LA	2,588	986	3	4	91		986	12	8	41		986	17	6	0	
City of Inglewood	3,724	467	297	223	54		436	44	45	45		178	59	47	32	
		Oct-16					Nov-16					Dec-16				
Jurisdiction	Total Eligible	Total Outreach	Total Units Sign up	Total Units Survey	Acoustic Tested	Total Units Design	Total Outreach	Total Units Sign up	Total Units Survey	Acoustic Tested	Total Units Design	Total Outreach	Total Units Sign up	Total Units Survey	Acoustic Tested	Total Units Design
County of LA	2,588	986	6	4	12		986	25	12	0		986	2	3	20	
City of Inglewood	3,721	674	123	90	27		0	40	67	55		685	13	18	27	

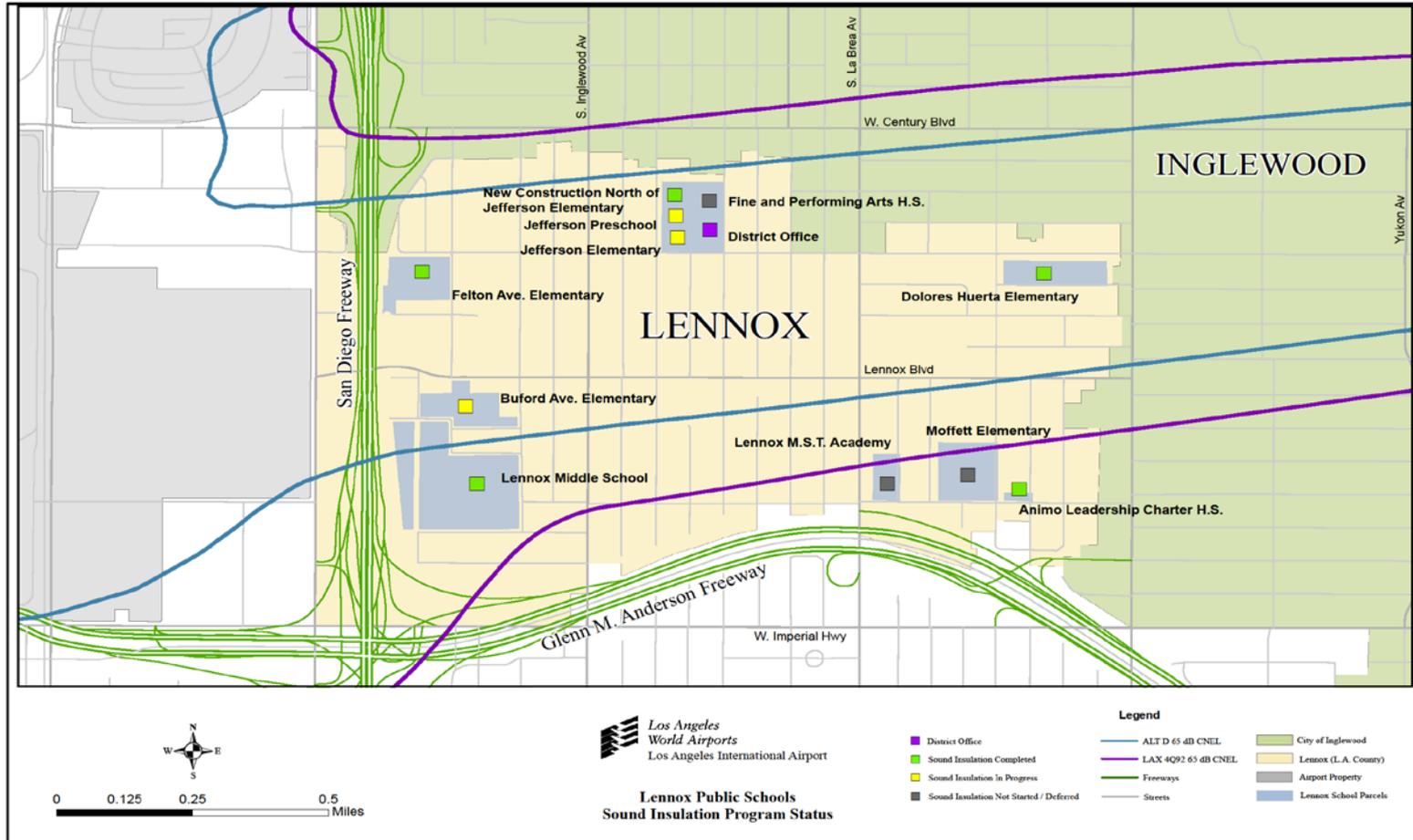
2017		Jan-17					Feb-17					Mar-17				
Jurisdiction	Total Eligible	Total Outreach	Total Units Sign up	Total Units Survey	Acoustic Tested	Total Units Design	Total Outreach	Total Units Sign up	Total Units Survey	Acoustic Tested	Total Units Design	Total Outreach	Total Units Sign up	Total Units Survey	Acoustic Tested	Total Units Design
LA County	2,588	1086	0	3	0	0	1050	36	7	14	0	1014	23	49	47	0
City of Inglewood	3,721	872	201	97	23	0	297	143	175	53	51	0	45	68	50	0
		Apr-17					May-17					Jun-17				
Jurisdiction	Total Eligible	Total Outreach	Total Units Sign up	Total Units Survey	Acoustic Tested	Total Units Design	Total Outreach	Total Units Sign up	Total Units Survey	Acoustic Tested	Total Units Design	Total Outreach	Total Units Sign up	Total Units Survey	Acoustic Tested	Total Units Design
LA County	2,588	991	45	49	31	0	640	4	50	44	0	636	26	23		0
City of Inglewood	3,721	614	48	40	76	100	88	286	202	89	1	387	48	101	53	0

	Total Outreach	Total Units Sign up	Total Units Survey	Acoustic Tested	Total Units Design
2016	5916	65	37	164	
	2440	576	490	240	

	Total Outreach	Total Units Sign up	Total Units Survey	Acoustic Tested	Total Units Design
2017	5417	134	181	136	0
	2258	771	683	344	152

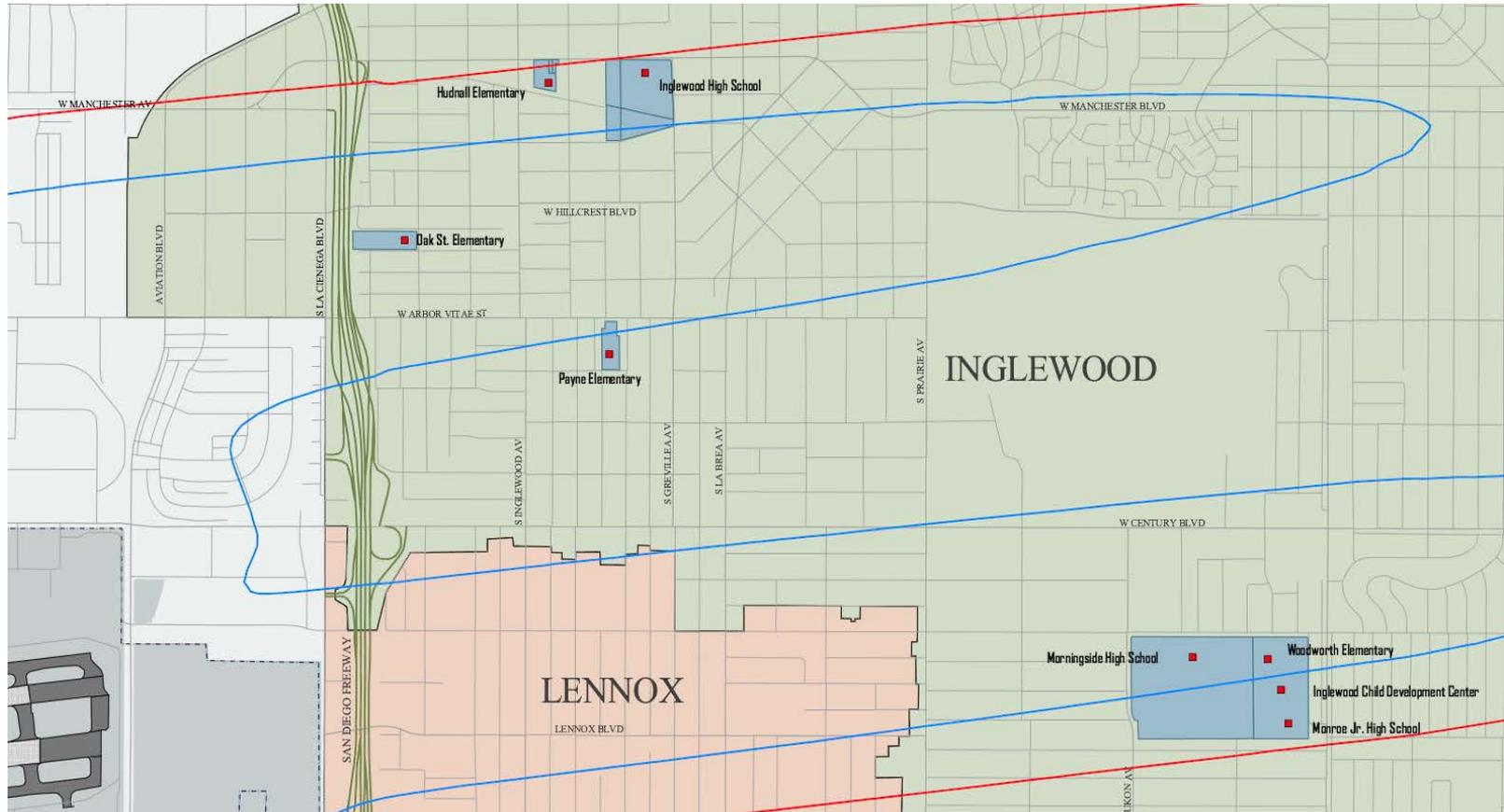
- FAA approved LAX Passenger Facility Charge (PFC) funding: 11 Schools and \$34 Million
- 2011 – LAX awarded \$10 Million for 1<sup>st</sup> Work Plan
- 2014 – LAX awarded \$10 Million for 2<sup>nd</sup> Work Plan
  - Completed Schools: Huerta Elementary, Animo Leadership High School, Felton Elementary, Lennox Middle School, Jefferson ORG
  - In Progress: Buford Elementary – Under Construction  
Jefferson Elementary – Anticipate Construction 2018
  - Removed from Program: LMSTA High School, Moffet Elementary, New Media & Performing Arts High School

# Lennox School District



- 2014 – FAA approved LAX PFC funding: 6 schools and \$44.4 Million
  - 2015 – LAX awarded \$10 Million for 1<sup>st</sup> Work Plan
  - Eligible Schools: Payne Elementary, Morningside High School, Monroe Middle School, Woodworth Elementary, Woodworth Child Development Center, Oak Street Elementary
  - In Progress: Payne Elementary – Anticipate Construction late 2017  
Monroe Middle School – Anticipate Construction 2018
- LAWA plans to include Inglewood High School in the next PFC application – FAA indicated now eligible under updated Noise Exposure Map for LAX

# Inglewood Unified School District



# Highlights – LAX Residential Sound Insulation Program

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Oct 2015: New FAA rules require two-step eligibility

- Homes must be inside 65dB contour
- Interior noise level of 45dB or greater (average of all habitable rooms)

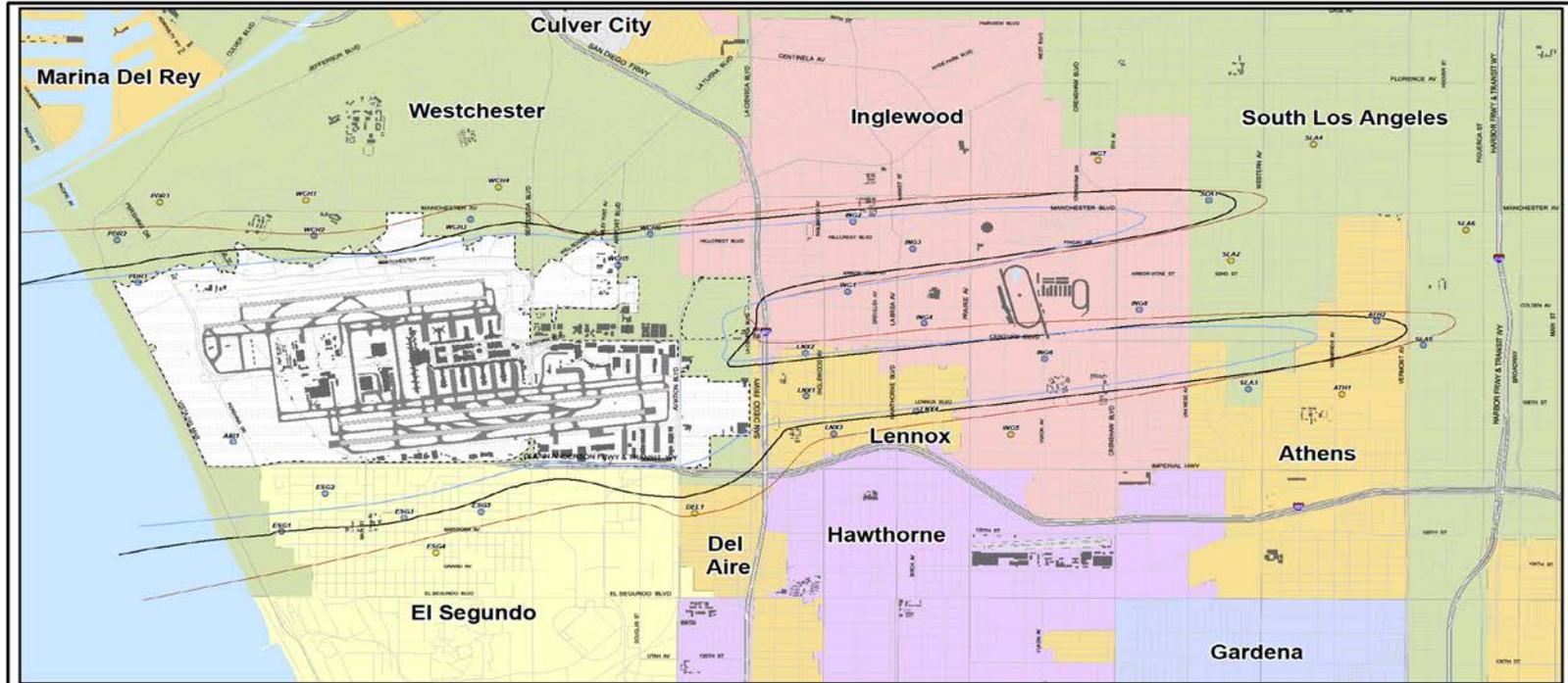
Dec 2015: Record 3,341 homes sound insulated in 12 months

- Inglewood finished 2,077 homes – most in the country

Jan 2016: FAA approved Noise Exposure Maps (NEMs) for use at LAX

May 2016: LAWA authorized Inglewood and LA County to begin acoustical testing

# Program Boundary – 2020 NEM vs. 1992



LAX 2020 NEM, Alt-D and 4Q92 Contours

<p><b>Legend</b></p> <ul style="list-style-type: none"> <li><span style="color: black;">—</span> NEM 2020 65 dB CNEL Contour</li> <li><span style="color: blue;">—</span> ALT D 65 dB CNEL</li> <li><span style="color: red;">—</span> 4Q92 65 dB CNEL Contour</li> <li><span style="color: blue;">●</span> Noise Monitor (Required for Title 21)</li> <li><span style="color: orange;">●</span> Noise Monitor (Not required for Title 21)</li> </ul>		<ul style="list-style-type: none"> <li> Streets</li> <li> Landmarks</li> <li> Airport Property</li> </ul>
<p><b>Los Angeles World Airports</b> Los Angeles International Airport</p>		
<p>LAWA Noise Management Environmental Affairs Officer: Karlyssa Pasaja Checked by: Dan H. Young, Environmental Supervisor II Prepared by: James C. Dungan III, Environmental Specialist II Prepared on: May 12, 2014</p>		

Questions?

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