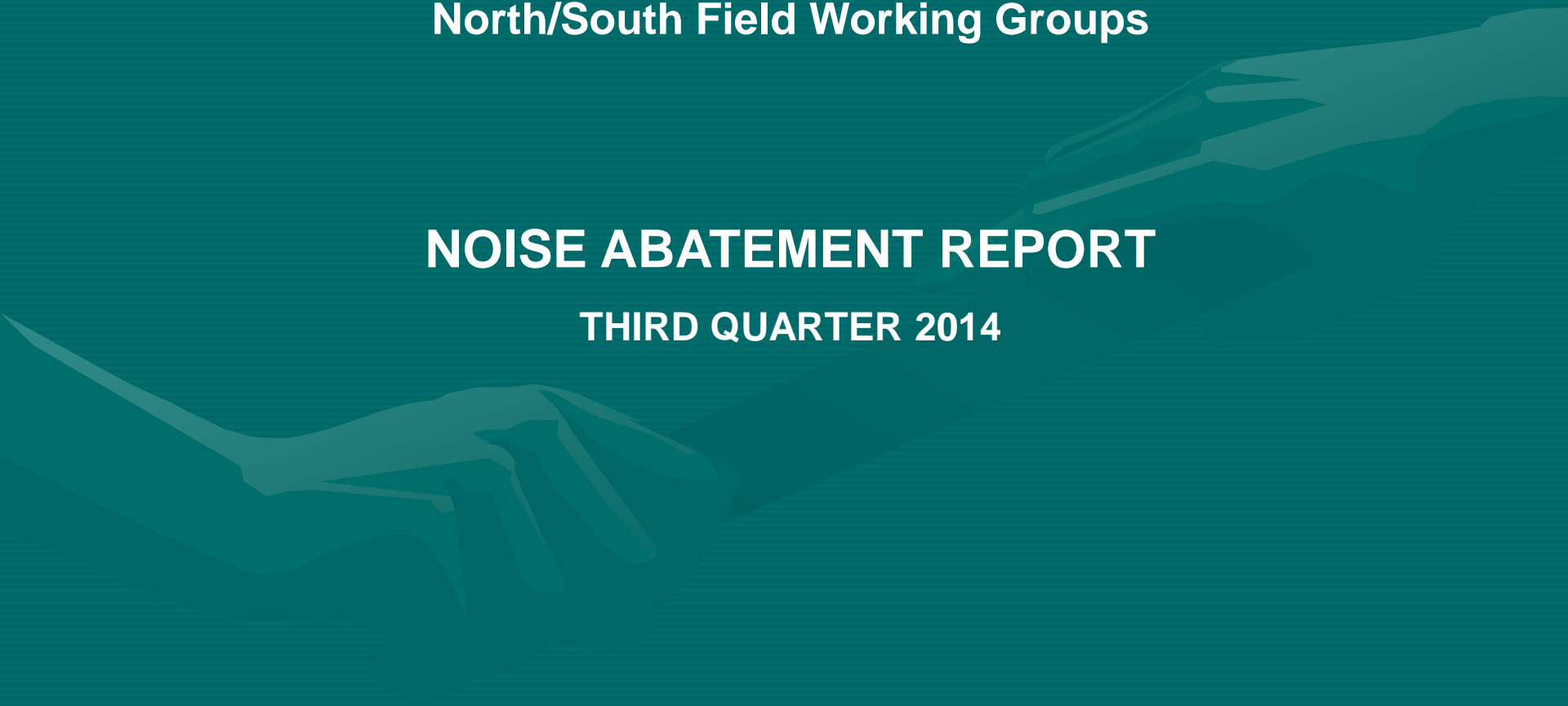


# **NOISE FORUM SUMMARY**

**North/South Field Working Groups**

## **NOISE ABATEMENT REPORT**

**THIRD QUARTER 2014**



Compliance Monitoring Quarterly Summary Comparison Third Quarter 2014				
	2013Q3		2014Q3	
	Compl.	N/C	Compl.	N/C
Runway 28R/L Jet Departure Compliance	94%	6%	93%	7%
Total Airport-wide Corporate Jet Departures	2,531	158	2,417	179
Runway 10R/L Jet Landing Compliance	100%	0%	100%	0%
Total Southeast Plan Corporate Jet Landings	26	0	0	0
North Field VFR Departure Compliance	96%	4%	98%	2%
Total Runways 28R/L & 33 Departures	1,123	48	1,123	25
North Field Quiet Hours Compliance	82%	18%	74%	26%
Total North Field Quiet Hours Departures	191	34	205	53
Runway 30 BFI Right Turn Departure Compliance	100%	0%	100%	0%
Total Runway 30 Turbojet Departures	16,383	4	16,652	6
Silent8 Night Departure Compliance	99%	1%	99%	1%
Total Runway 30 Night Turbojet Departures	2,992	29	2,954	33
Runway 12 Night Departure Compliance	92%	8%	100%	0%
Total Runway 12 Night Turbojet Departures	26	2	5	0
Runway 30 East Turn Departure Compliance	96%	4%	95%	5%
Total Runway 30 East Turn Departures	4,392	187	4,566	239
100 Degree Radial Turbojet Landing Compliance	94%	6%	93%	7%
Total 100 Degree Radial Turbojet Landings	2,367	155	2,566	191
Engine Runup Program Compliance	100%	0%	100%	0%
Total Evening and Nighttime Engine Runups	17	0	18	0

Link to full report: [http://flyquiotoak.com/pages/reports/quarterly\\_noise\\_compliance.html](http://flyquiotoak.com/pages/reports/quarterly_noise_compliance.html)

Operation Details  
Beacon Code: 3271  
AC Type: GLF3  
Operation Type: Departure  
Runway: 27R  
Target Details  
Date/Time: 4/2/2009 09:58:59

## Runway 28R/L Jet Departure NAP

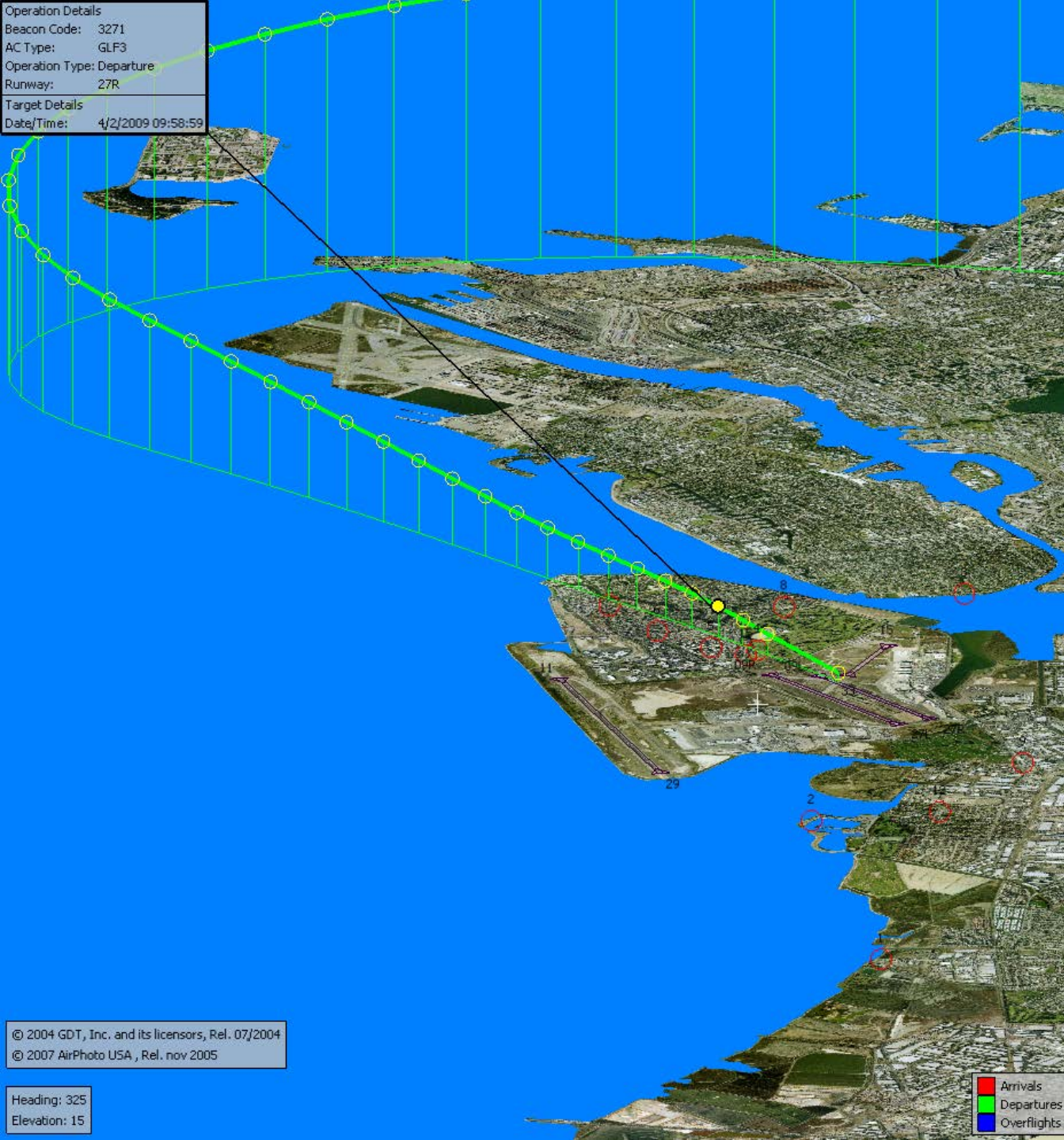
**2014Q3**  
**93% Compliance**  
**(2,596 departures)**

**2013Q3**  
**94% Compliance**  
**(2,689 departures)**

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Heading: 325  
Elevation: 15

Arrivals  
Departures  
Overflights





Operation Details  
Beacon Code: 1002  
AC Type: BE40  
Operation Type: Arrival  
Runway: 09R

Target Details  
Date/Time: 4/7/2009 12:09:00

## Runway 10R/L Jet Landing NAP

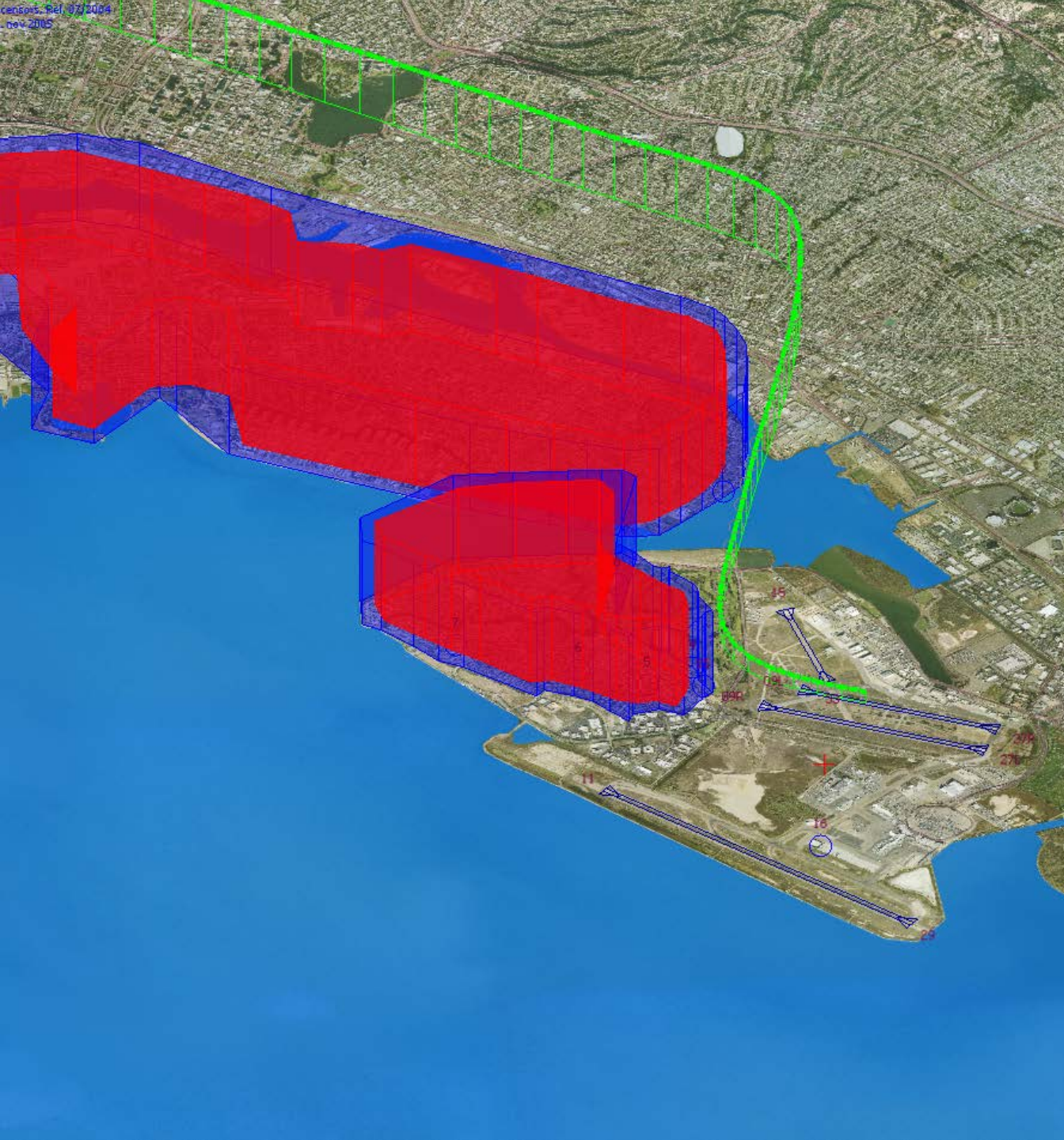
**2014Q3**  
**100% Compliance**  
**(0 landings)**

**2013Q3**  
**100% Compliance**  
**(26 landings)**

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© 2007 AirPhoto USA, Rel. nov 2005

Heading: 325  
Elevation: 15

Arrivals  
Departures  
Overflights



## VFR Aircraft Departure NAP

**2014Q3**

**98% Compliance  
(1,148 departures)**

**2013Q3**

**96% Compliance  
(1,219 departures)**



## North Field Quiet Hours NAP

**2014Q3**

**74% Compliance  
(258 departures)**

**2013Q3**

**82% Compliance  
(225 departures)**





## Runway 30 Bay Farm Right Turn NAP

**2014Q3**  
**100% Compliance**  
**(16,658 departures)**

**2013Q3**  
**100% Compliance**  
**(16,387 departures)**



## Silent8 Night Departure NAP

**2014Q3**  
**99% Compliance**  
**(2,987 departures)**

**2013Q3**  
**99% Compliance**  
**(3,021 departures)**



## Runway 12 Night Departure NAP

**2014Q3**  
**100% Compliance**  
**(5 departures)**

**2013Q3**  
**92% Compliance**  
**(28 departures)**





Operation Details	
Aircraft ID:	SWA771
Tail Number:	
Beacon Code:	1156
AC Type:	B737
Operation Type:	Departure
Runway:	29
Origin:	OAK
Destination:	BOI
Altitude (ft):	4833
Ground Speed (kt):	231.3
Date/Time:	11/28/2011 10:37:46

## Runway 30 East Turn NAP

**2014Q3**  
**95% Compliance**  
**(4,805 departures)**

**2013Q3**  
**96% Compliance**  
**(4,579 departures)**





Operation Details	
Aircraft ID:	SWA273
Tail Number:	
Beacon Code:	6675
AC Type:	B737
Operation Type:	Arrival
Runway:	29
Origin:	GEG
Destination:	OAK
Altitude (ft):	3251
Ground Speed (kt):	159.4
Date/Time:	4/18/2012 19:58:23

**100 Degree Radial  
At 3,000 ft. NAP**

**2014Q3  
93% Compliance  
(2,757 landings)**

**2013Q3  
94% Compliance  
(2,522 landings)**

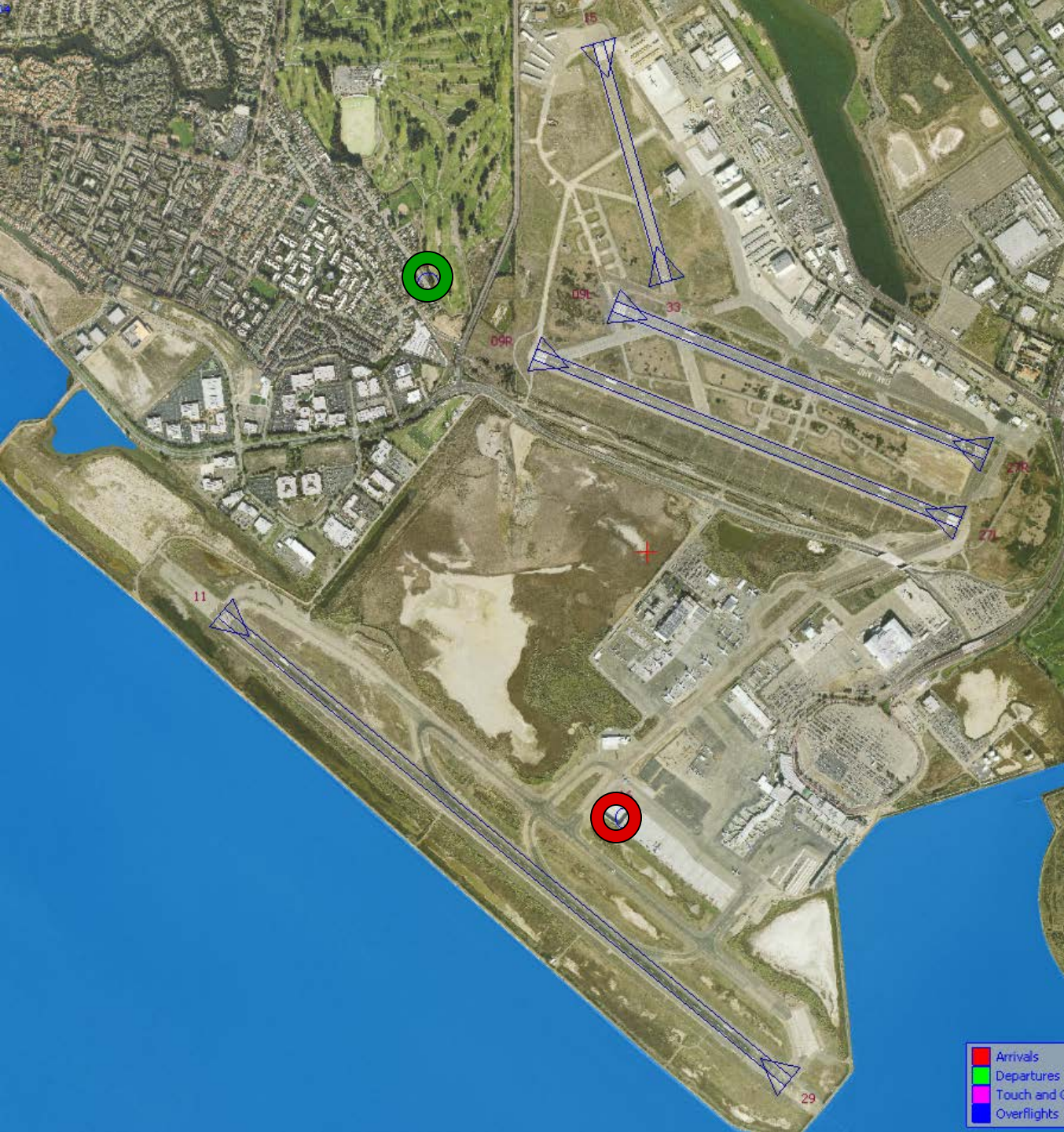


## Engine Run-up NAP

**2014Q3**  
**100% Compliance**  
**(18 engine run-ups)\***

**2013Q3**  
**100% Compliance**  
**(17 engine run-ups)**

**\*Only above idle-power run-ups recorded.**





**Table 1. North Field Night Aircraft Departure SEL Noise Measurements**  
**Total Aircraft Departures = 205**

Third Quarter 2014 (10:00 p.m. to 6:00 a.m.)

NMT Number	Aircraft Noise Events Below SEL 80 dBA	Aircraft Noise Events SEL 80 - 84.9 dBA			Aircraft Noise Events SEL 85 - 89.9 dBA			Aircraft Noise Events SEL ≥ 90 dBA			Total Aircraft Noise Events
		Amount	Nightly Average	As Percentage of Departures	Amount	Nightly Average	As Percentage of Departures	Amount	Nightly Average	As Percentage of Departures	
1	3	0	0.0	0.0%	0	0.0	0.0%	0	0.0	0.0%	3
2	13	3	0.0	0.5%	0	0.0	0.0%	0	0.0	0.0%	16
3	32	5	0.1	0.9%	0	0.0	0.0%	0	0.0	0.0%	37
4	66	47	0.5	8.3%	29	0.3	5.1%	17	0.2	3.0%	159
5	61	20	0.2	3.5%	12	0.1	2.1%	16	0.2	2.8%	109
6	22	18	0.2	3.2%	13	0.1	2.3%	9	0.1	1.6%	62
7	20	9	0.1	1.6%	8	0.1	1.4%	0	0.0	0.0%	37
8	44	20	0.2	3.5%	3	0.0	0.5%	0	0.0	0.0%	67
9	4	6	0.1	1.1%	7	0.1	1.2%	0	0.0	0.0%	17
10	16	7	0.1	1.2%	0	0.0	0.0%	0	0.0	0.0%	23
11	2	2	0.0	0.4%	0	0.0	0.0%	0	0.0	0.0%	4
12	7	1	0.0	0.2%	3	0.0	0.5%	0	0.0	0.0%	11
13	3	0	0.0	0.0%	0	0.0	0.0%	0	0.0	0.0%	3
14	4	3	0.0	0.5%	0	0.0	0.0%	0	0.0	0.0%	7
<b>All NMTs</b>	297	141	2	0	75	1	0	42	0	0	555

**Table 2. Aircraft SEL Noise Measurements in Alameda - Total Aircraft Departures = 188**

Third Quarter 2014 (10:00 p.m. to 6:00 a.m.)											
NMT Number	Aircraft Noise Events Below SEL 80 dBA	Aircraft Noise Events SEL 80 - 84.9 dBA			Aircraft Noise Events SEL 85 - 89.9 dBA			Aircraft Noise Events SEL ≥ 90 dBA			Total Aircraft Noise Events
		Amount	Nightly Average	As Percentage of Departures	Amount	Nightly Average	As Percentage of Departures	Amount	Nightly Average	As Percentage of Departures	
3	32	5	0.1	2.1%	0	0.0	0.0%	0	0.0	0.0%	37
4	66	47	0.5	19.7%	29	0.3	12.1%	17	0.2	7.1%	159
5	61	20	0.2	8.4%	12	0.1	5.0%	16	0.2	6.7%	109
6	22	18	0.2	7.5%	13	0.1	5.4%	9	0.1	3.8%	62
7	20	9	0.1	3.8%	8	0.1	3.3%	0	0.0	0.0%	37
8	44	20	0.2	8.4%	3	0.0	1.3%	0	0.0	0.0%	67
<b>Total</b>	<b>245</b>	<b>119</b>	<b>1.3</b>		<b>65</b>	<b>0.7</b>		<b>42</b>	<b>0.5</b>		<b>471</b>

**Table 3. Aircraft SEL Noise Measurements in San Leandro - Total Aircraft Departures = 17**

Third Quarter 2014 (10:00 p.m. to 6:00 a.m.)											
NMT Number	Aircraft Noise Events Below SEL 80 dBA	Aircraft Noise Events SEL 80 - 84.9 dBA			Aircraft Noise Events SEL 85 - 89.9 dBA			Aircraft Noise Events SEL ≥ 90 dBA			Total Aircraft Noise Events
		Amount	Nightly Average	As Percentage of Departures	Amount	Nightly Average	As Percentage of Departures	Amount	Nightly Average	As Percentage of Departures	
2	13	3	0.0	0.9%	0	0.0	0.0%	0	0.0	0.0%	16
9	4	6	0.1	1.8%	7	0.1	2.1%	0	0.0	0.0%	17
10	16	7	0.1	2.1%	0	0.0	0.0%	0	0.0	0.0%	23
11	2	2	0.0	0.6%	0	0.0	0.0%	0	0.0	0.0%	4
12	7	1	0.0	0.3%	3	0.0	0.9%	0	0.0	0.0%	11
13	3	0	0.0	0.0%	0	0.0	0.0%	0	0.0	0.0%	3
14	4	3	0.0	0.9%	0	0.0	0.0%	0	0.0	0.0%	7
<b>Total</b>	<b>49</b>	<b>22</b>	<b>0.2</b>		<b>10</b>	<b>0.1</b>		<b>0</b>	<b>0.0</b>		<b>81</b>



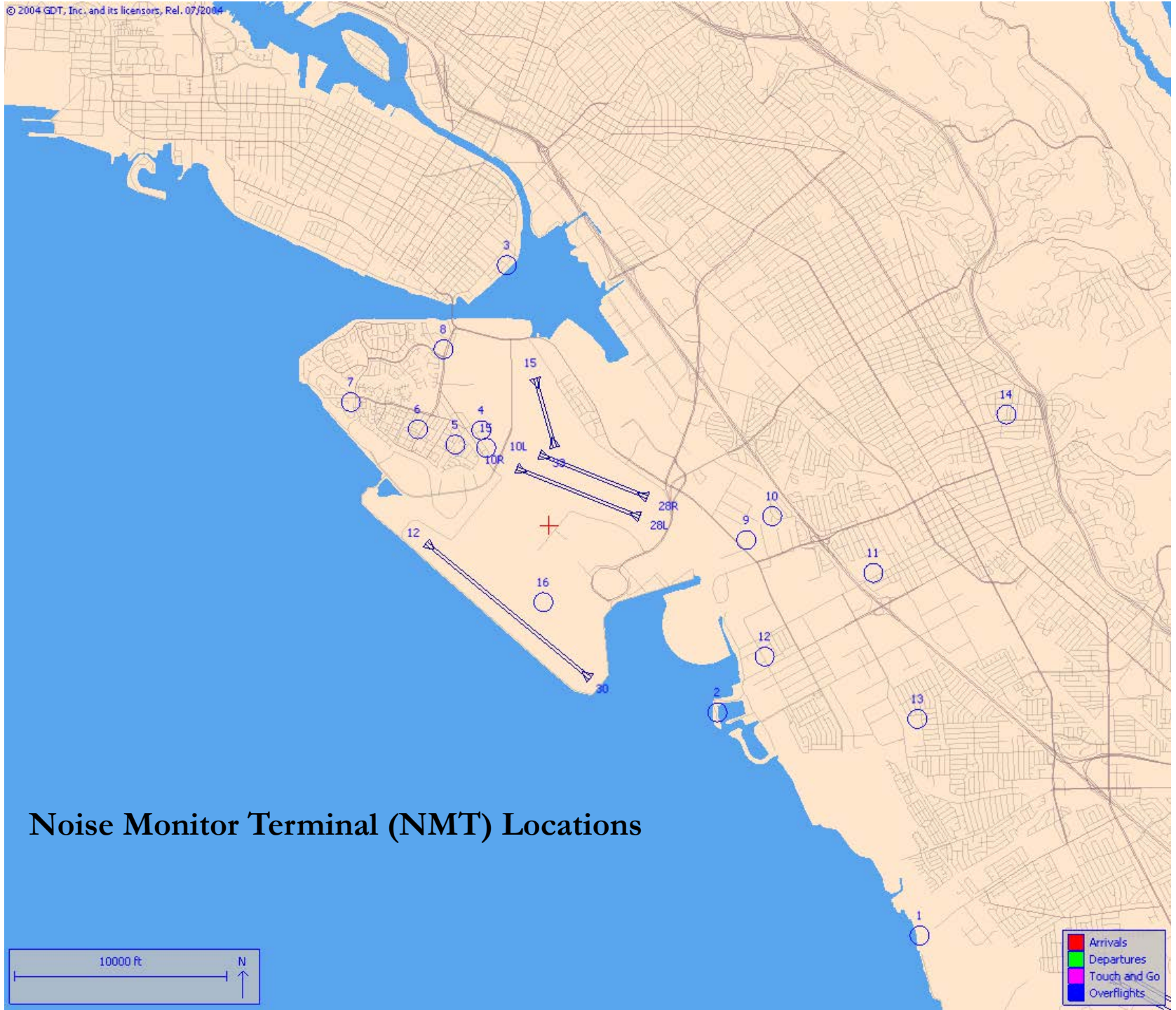


**Rolling Take-off Night Departure Procedure (1:00 to 5:00 AM)**  
**Third Quarter 2013, NMT 2**

	Aircraft Departures	Recorded Noise Events (a)	Lmax Average	SEL Average	Avg. Duration (seconds)
Baseline (November 2002) [A]					
B727	104	101	76	87	44
DC10/MD10	87	32	69	78	22
MD11	32	13	70	79	24
A306	67	21	67	77	25
Third Quarter 2013 [B]					
	Total [X]	Est. Avg. Monthly [X/3]			
B727	0	-	-	-	-
DC10/MD10	143	48	29	76	19
MD11	193	64	69	74	15
A306	218	73	22	74	13
B757	60	20	5	74	13
Difference [A-B]					
B727		-104	-101	-76	-44
DC10/MD10		-39	-3	-2	-3
MD11		32	56	-4	-9
A306		6	1	-3	-12

(a) For the current calendar quarter reported, ANOMS does not correlate all departures to their respective noise events; that is most, but not all, aircraft backblast noise events are effectively correlated as the program software algorithms may misidentify an aircraft noise event.  
Source: ANOMS (Airport Noise and Operations Monitoring System)





## Noise Monitor Terminal (NMT) Locations