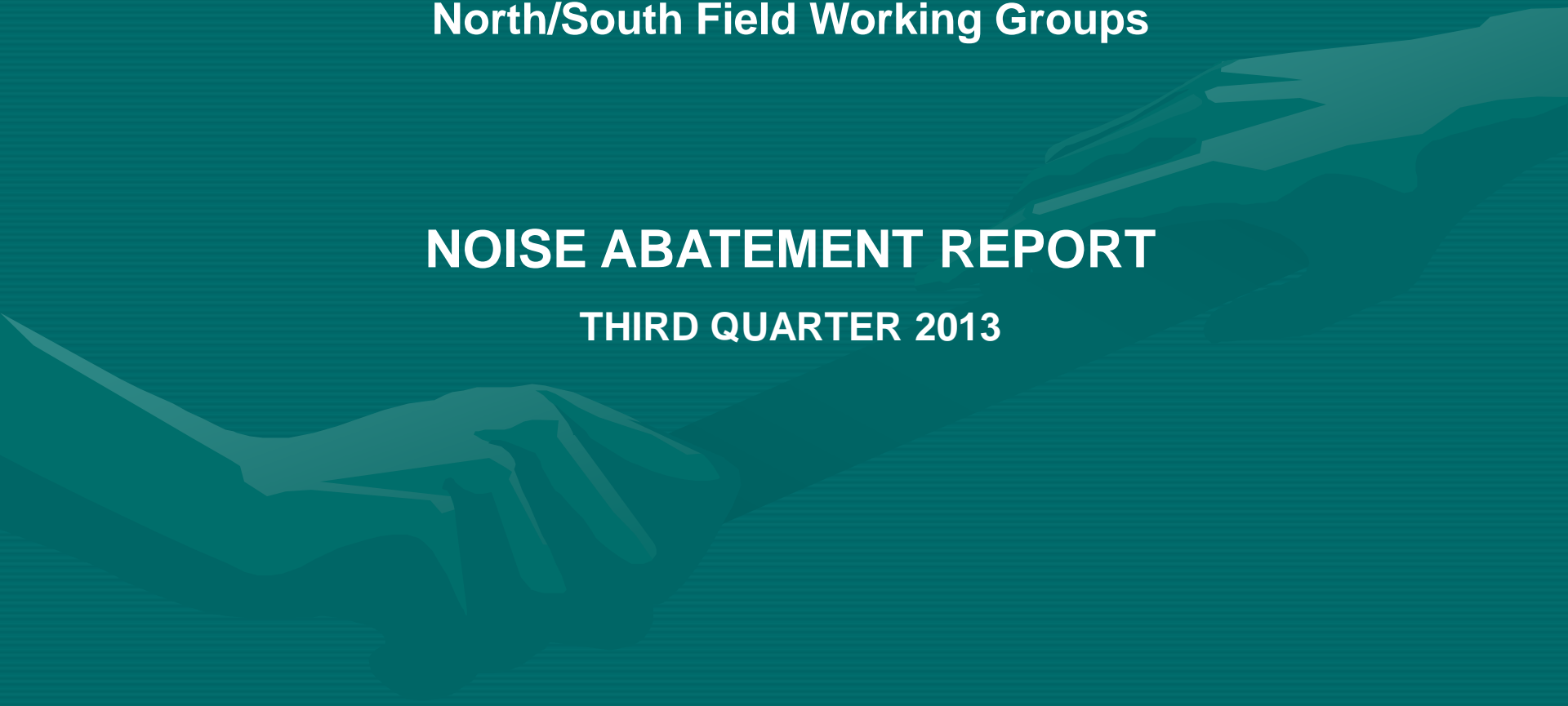


NOISE FORUM SUMMARY

North/South Field Working Groups

NOISE ABATEMENT REPORT

THIRD QUARTER 2013



Compliance Monitoring Quarterly Summary Comparison Third Quarter 2013				
	2012Q3		2013Q3	
	Compl.	N/C	Compl.	N/C
Runway 27R/L Jet Departure Compliance	97%	3%	94%	6%
Total Airport-wide Corporate Jet Departures	2,163	69	2,531	158
Runway 09R/L Jet Landing Compliance	0%	0%	100%	0%
Total Southeast Plan Corporate Jet Landings	0	0	26	0
North Field VFR Departure Compliance	97%	3%	96%	4%
Total Runways 27R/L & 33 Departures	1,084	39	1,123	48
North Field Quiet Hours Compliance	92%	8%	82%	18%
Total North Field Quiet Hours Departures	371	33	191	34
Runway 29 BFI Right Turn Departure Compliance	100%	0%	100%	0%
Total Runway 29 Turbojet Departures	16,305	5	16,383	4
Silent7 Night Departure Compliance	99%	1%	99%	1%
Total Runway 29 Night Turbojet Departures	3,113	35	2,992	29
Runway 11 Night Departure Compliance	0%	0%	92%	8%
Total Runway 11 Night Turbojet Departures	0	0	26	2
Runway 29 East Turn Departure Compliance	96%	4%	96%	4%
Total Runway 29 East Turn Departures	4,214	166	4,392	187
100 Degree Radial Turbojet Landing Compliance	92%	8%	94%	6%
Total 100 Degree Radial Turbojet Landings	2,617	213	2,367	155
Engine Runup Program Compliance	100%	0%	100%	0%
Total Evening and Nighttime Engine Runups	22	0	17	0

Link to full report: 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 27L/R Jet Departure NAP

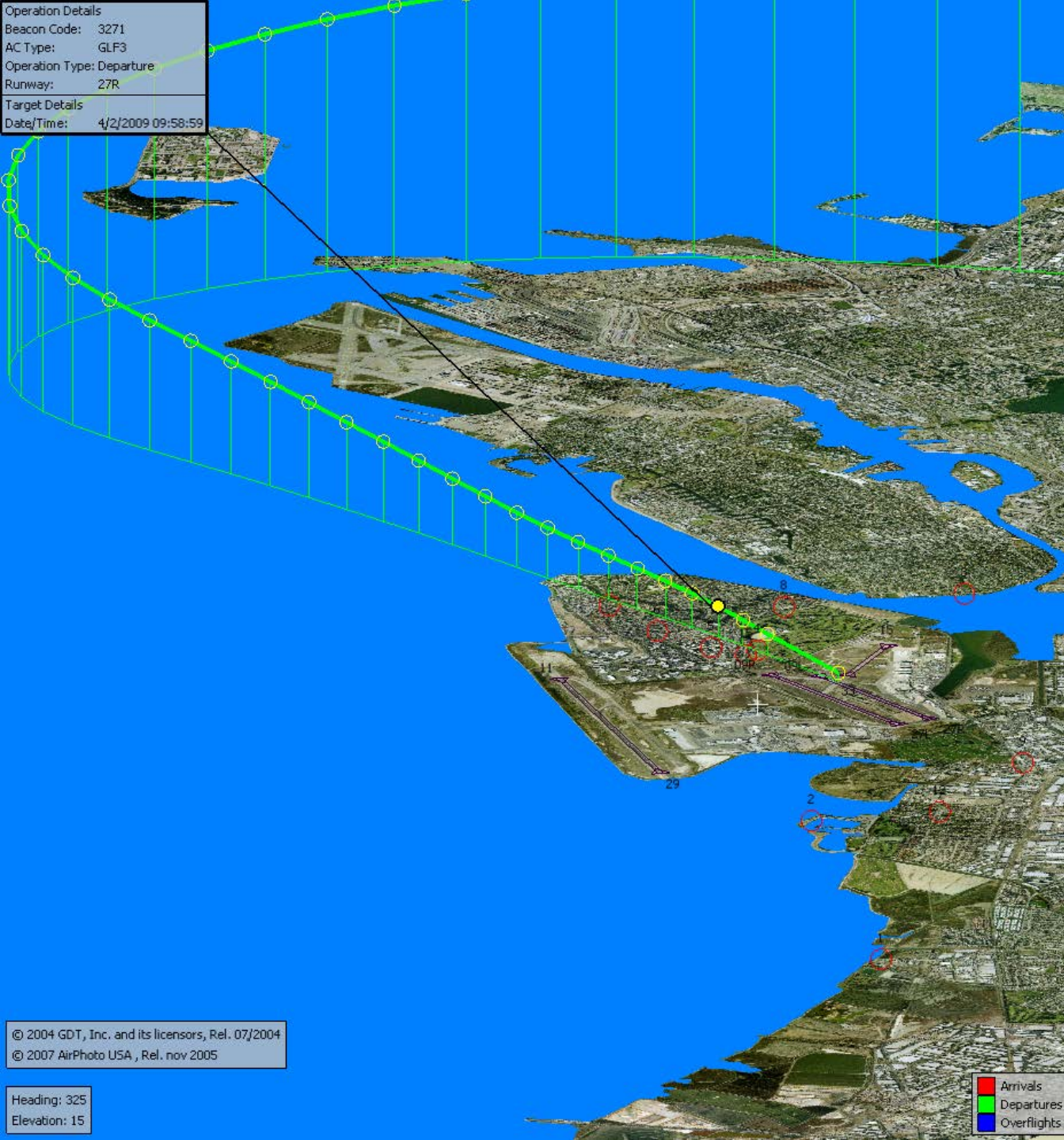
2013Q3
94% Compliance
(2,689 departures)

2012Q3
97% Compliance
(2,232 departures)

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© 2007 AirPhoto USA, Rel. nov 2005

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 09L/R Jet Landing NAP

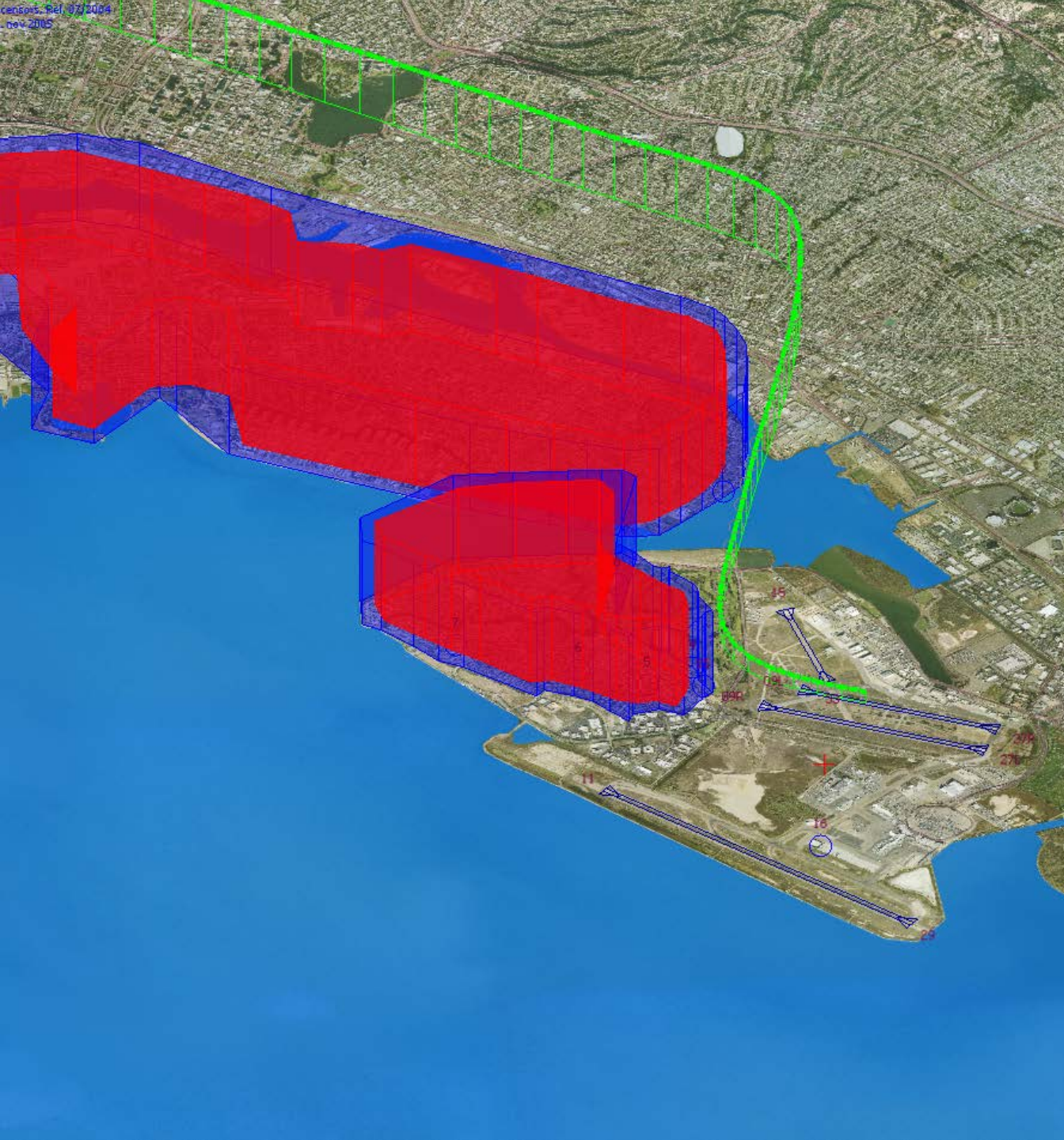
2013Q3
100% Compliance
(26 landings)

2012Q3
N/A
(0 landings)

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© 2007 AirPhoto USA, Rel. nov 2005

Heading: 325
Elevation: 15

Arrivals
Departures
Overflights



VFR Aircraft Departure NAP

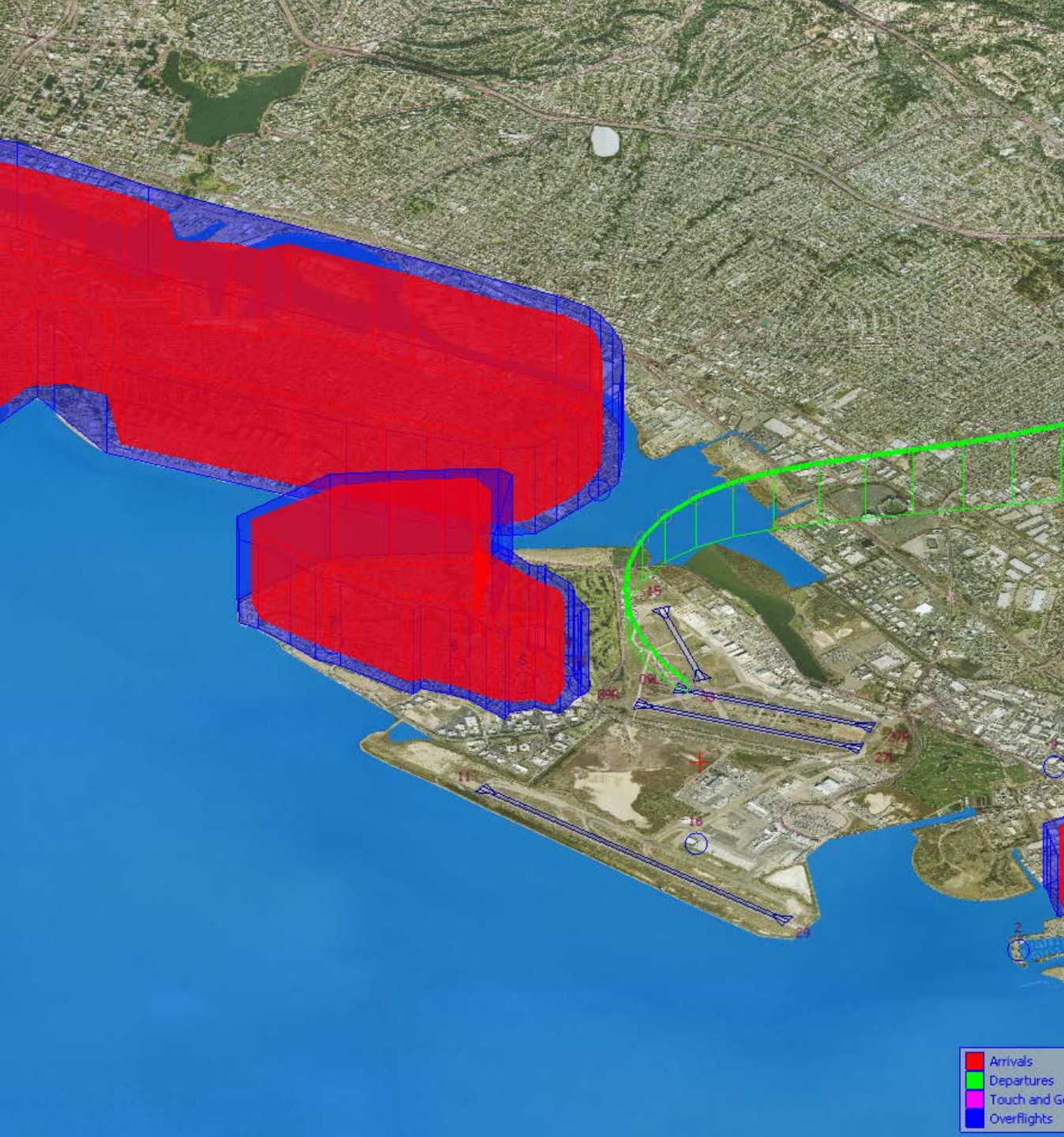
2013Q3
96% Compliance
(1,123 departures)

2012Q3
97% Compliance
(1,084 departures)

North Field Quiet Hours NAP

2013Q3
82% Compliance
(191 departures)

2012Q3
92% Compliance
(371 departures)



Runway 29 Bay Farm Right Turn NAP

2013Q3
100% Compliance
(16,383 departures)

2012Q3
100% Compliance
(16,305 departures)

Silent7 Night Departure NAP

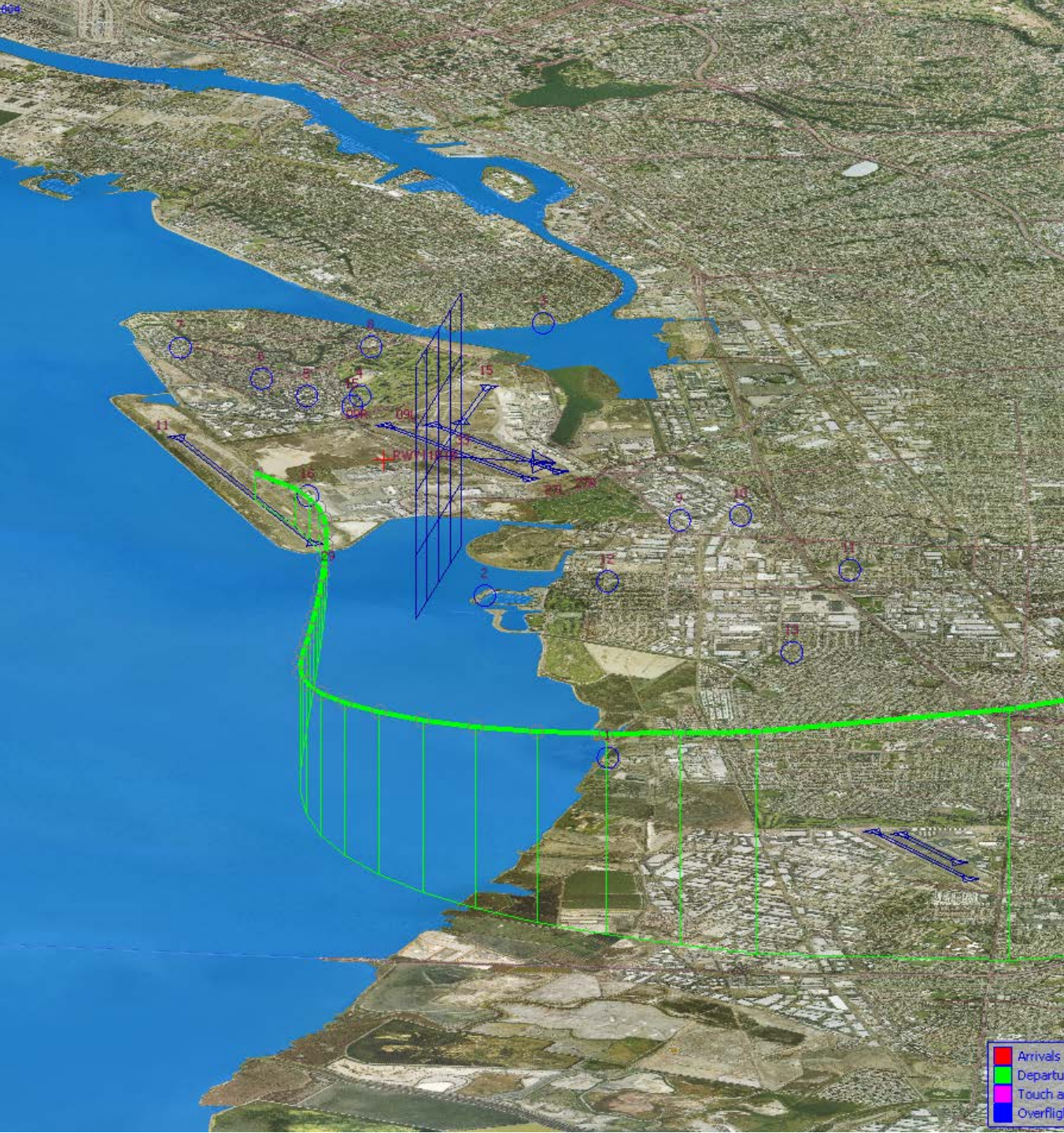
2013Q3
99% Compliance
(2,992 departures)

2012Q3
99% Compliance
(3,113 departures)

Runway 11 Night Departure NAP

2013Q3
92% Compliance
(26 departures)

2012Q3
N/A
(0 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 29 East Turn NAP

2013Q3
96% Compliance
(4,392 departures)

2012Q3
96% Compliance
(4,214 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**

**2013Q3
94% Compliance
(2,367 landings)**

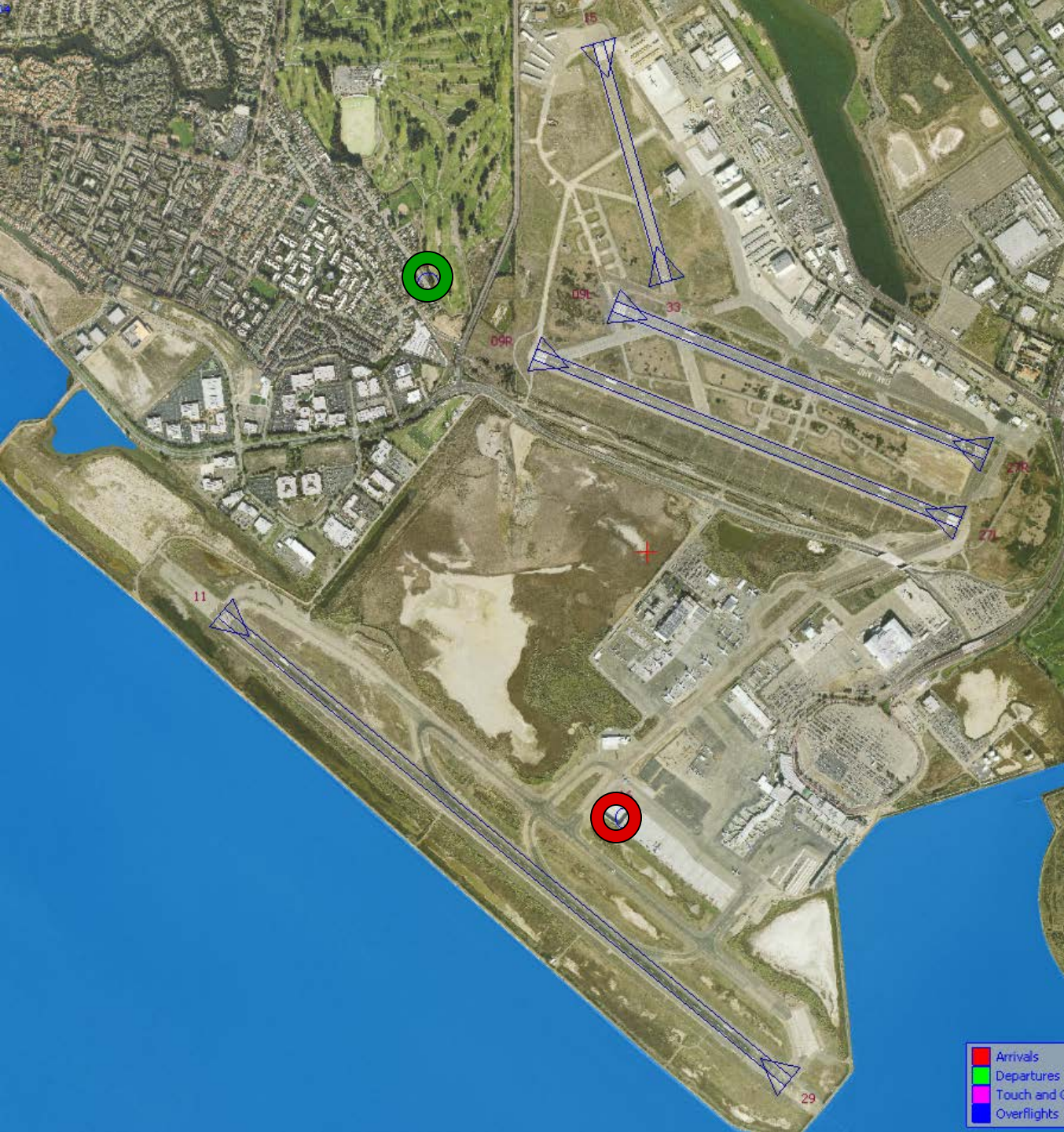
**2012Q3
92% Compliance
(2,617 landings)**

Engine Run-up NAP

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

2012Q3
100% Compliance
(22 engine run-ups)

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



Noise Monitor Terminal (NMT)

Site Map

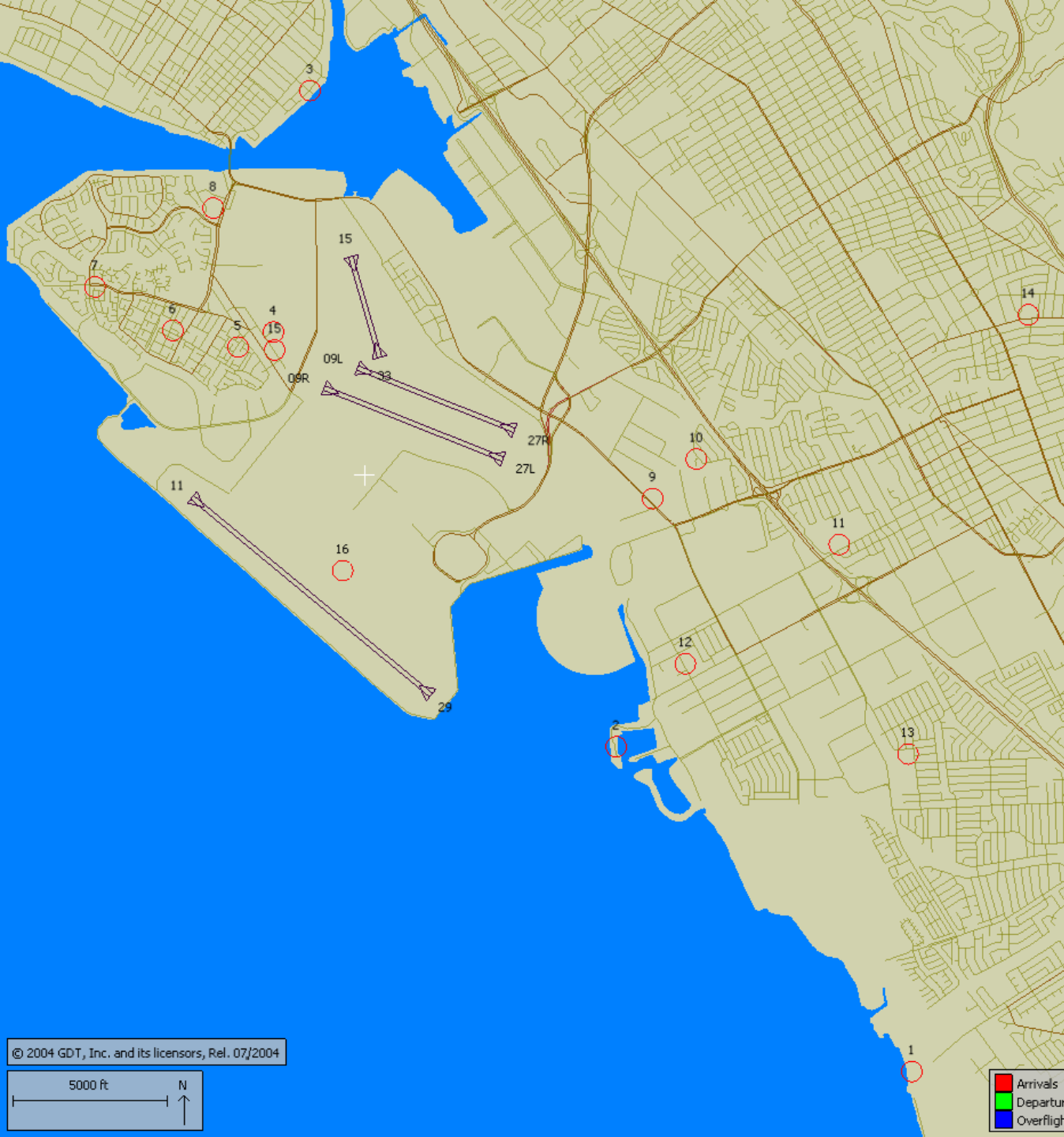


Table 1. North Field Night Aircraft Departure SEL Noise Measurements
Total Aircraft Departures = 191

Third Quarter 2013 (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	2	1	0.0	0.2%	0	0.0	0.0%	0	0.0	0.0%	3
2	11	1	0.0	0.2%	0	0.0	0.0%	0	0.0	0.0%	12
3	35	4	0.0	0.7%	2	0.0	0.4%	0	0.0	0.0%	41
4	56	40	0.4	7.1%	19	0.2	3.4%	28	0.3	4.9%	143
5	54	11	0.1	1.9%	12	0.1	2.1%	27	0.3	4.8%	104
6	9	9	0.1	1.6%	19	0.2	3.4%	14	0.2	2.5%	51
7	17	19	0.2	3.4%	8	0.1	1.4%	0	0.0	0.0%	44
8	36	28	0.3	4.9%	1	0.0	0.2%	0	0.0	0.0%	65
9	8	6	0.1	1.1%	3	0.0	0.5%	1	0.0	0.2%	18
10	18	4	0.0	0.7%	0	0.0	0.0%	1	0.0	0.2%	23
11	2	2	0.0	0.4%	0	0.0	0.0%	0	0.0	0.0%	4
12	11	8	0.1	1.4%	0	0.0	0.0%	0	0.0	0.0%	19
13	1	0	0.0	0.0%	1	0.0	0.2%	0	0.0	0.0%	2
14	6	2	0.0	0.4%	0	0.0	0.0%	0	0.0	0.0%	8
All NMTs	266	135	2	0	65	1	0	71	1	0	537

Table 2. Aircraft SEL Noise Measurements in Alameda - Total Aircraft Departures = 165

Third Quarter 2013 (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	35	4	0.0	1.7%	2	0.0	0.8%	0	0.0	0.0%	41
4	56	40	0.4	16.7%	19	0.2	7.9%	28	0.3	11.7%	143
5	54	11	0.1	4.6%	12	0.1	5.0%	27	0.3	11.3%	104
6	9	9	0.1	3.8%	19	0.2	7.9%	14	0.2	5.9%	51
7	17	19	0.2	7.9%	8	0.1	3.3%	0	0.0	0.0%	44
8	36	28	0.3	11.7%	1	0.0	0.4%	0	0.0	0.0%	65
Total	207	111	1.2		61	0.7		69	0.8		448

Table 3. Aircraft SEL Noise Measurements in San Leandro - Total Aircraft Departures = 26

Third Quarter 2013 (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	11	1	0.0	0.3%	0	0.0	0.0%	0	0.0	0.0%	12
9	8	6	0.1	1.8%	3	0.0	0.9%	1	0.0	0.3%	18
10	18	4	0.0	1.2%	0	0.0	0.0%	1	0.0	0.3%	23
11	2	2	0.0	0.6%	0	0.0	0.0%	0	0.0	0.0%	4
12	11	8	0.1	2.4%	0	0.0	0.0%	0	0.0	0.0%	19
13	1	0	0.0	0.0%	1	0.0	0.3%	0	0.0	0.0%	2
14	6	2	0.0	0.6%	0	0.0	0.0%	0	0.0	0.0%	8
Total	57	23	0.3		4	0.0		2	0.0		86

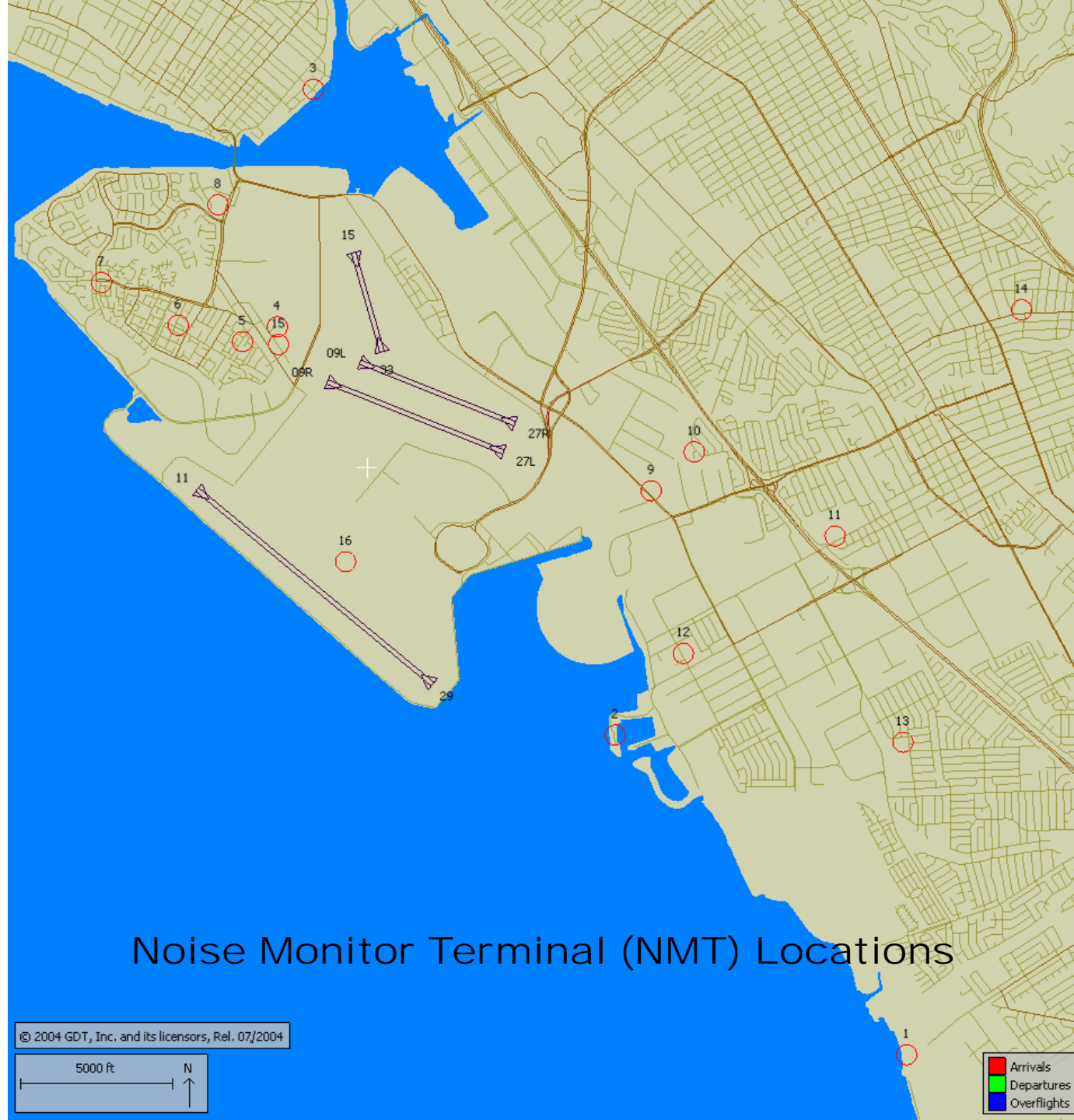
Rolling Take-off Night Departure Procedure (1:00 to 5:00 AM) Third Quarter 2013, NMT 2

	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)

Rolling Take-off Night Departure Procedure (1:00 to 5:00 AM) Third Quarter 2012, 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 2012 [B]						
	Total [X]	Est. Avg. Monthly [X/3]				
B727	-	-	-	0	0	0
DC10/MD10	142	47	43	64	73	12
MD11	239	80	111	66	75	16
A306	223	74	14	64	71	8
B757	59	20	2	64	72	12
Difference [A-B]						
B727		-104	-101	-76	-87	-44
DC10/MD10		-40	11	-5	-5	-10
MD11		48	98	-4	-4	-8
A306		7	-7	-3	-6	-17



Noise Monitor Terminal (NMT) Locations