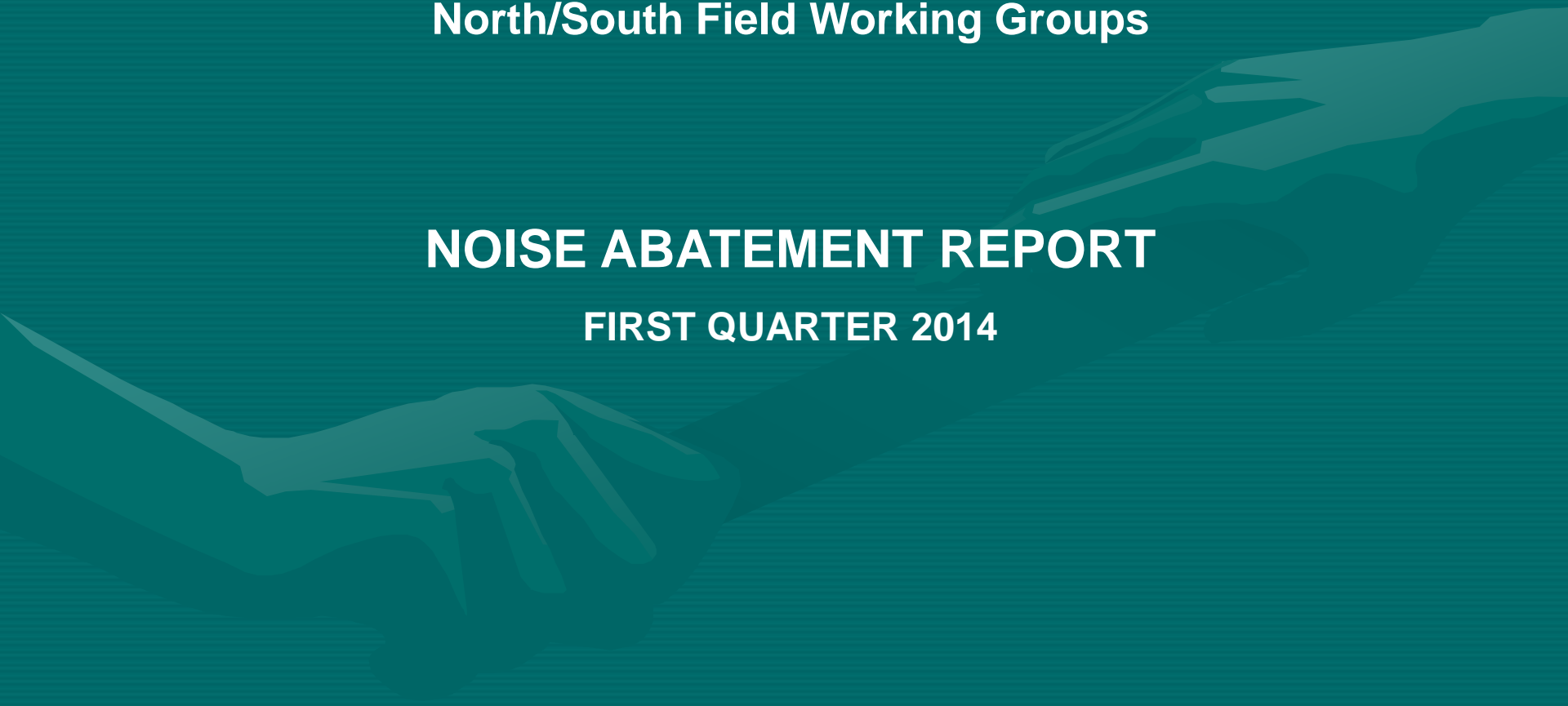


NOISE FORUM SUMMARY

North/South Field Working Groups

NOISE ABATEMENT REPORT

FIRST QUARTER 2014



Compliance Monitoring Quarterly Summary Comparison First Quarter 2014				
	2013Q1		2014Q1	
	Compl.	N/C	Compl.	N/C
Runway 28R/L Jet Departure Compliance	97%	3%	95%	5%
Total Airport-wide Corporate Jet Departures	2,190	67	2,526	132
Runway 10R/L Jet Landing Compliance	79%	21%	79%	21%
Total Southeast Plan Corporate Jet Landings	54	14	225	60
North Field VFR Departure Compliance	97%	3%	97%	3%
Total Runways 28R/L & 33 Departures	967	27	831	25
North Field Quiet Hours Compliance	85%	15%	84%	16%
Total North Field Quiet Hours Departures	132	23	163	32
Runway 30 BFI Right Turn Departure Compliance	100%	0%	100%	0%
Total Runway 30 Turbojet Departures	14,632	3	13,087	3
Silent8 Night Departure Compliance	99%	1%	99%	1%
Total Runway 30 Night Turbojet Departures	2,768	20	2,283	34
Runway 12 Night Departure Compliance	78%	22%	71%	29%
Total Runway 12 Night Turbojet Departures	14	4	124	50
Runway 30 East Turn Departure Compliance	98%	2%	97%	3%
Total Runway 30 East Turn Departures	3,421	85	2,941	85
100 Degree Radial Turbojet Landing Compliance	91%	9%	86%	14%
Total 100 Degree Radial Turbojet Landings	1,925	188	1,027	166
Engine Runup Program Compliance	100%	0%	100%	0%
Total Evening and Nighttime Engine Runups	30	0	7	0

Link to full report: http://flyquietoak.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

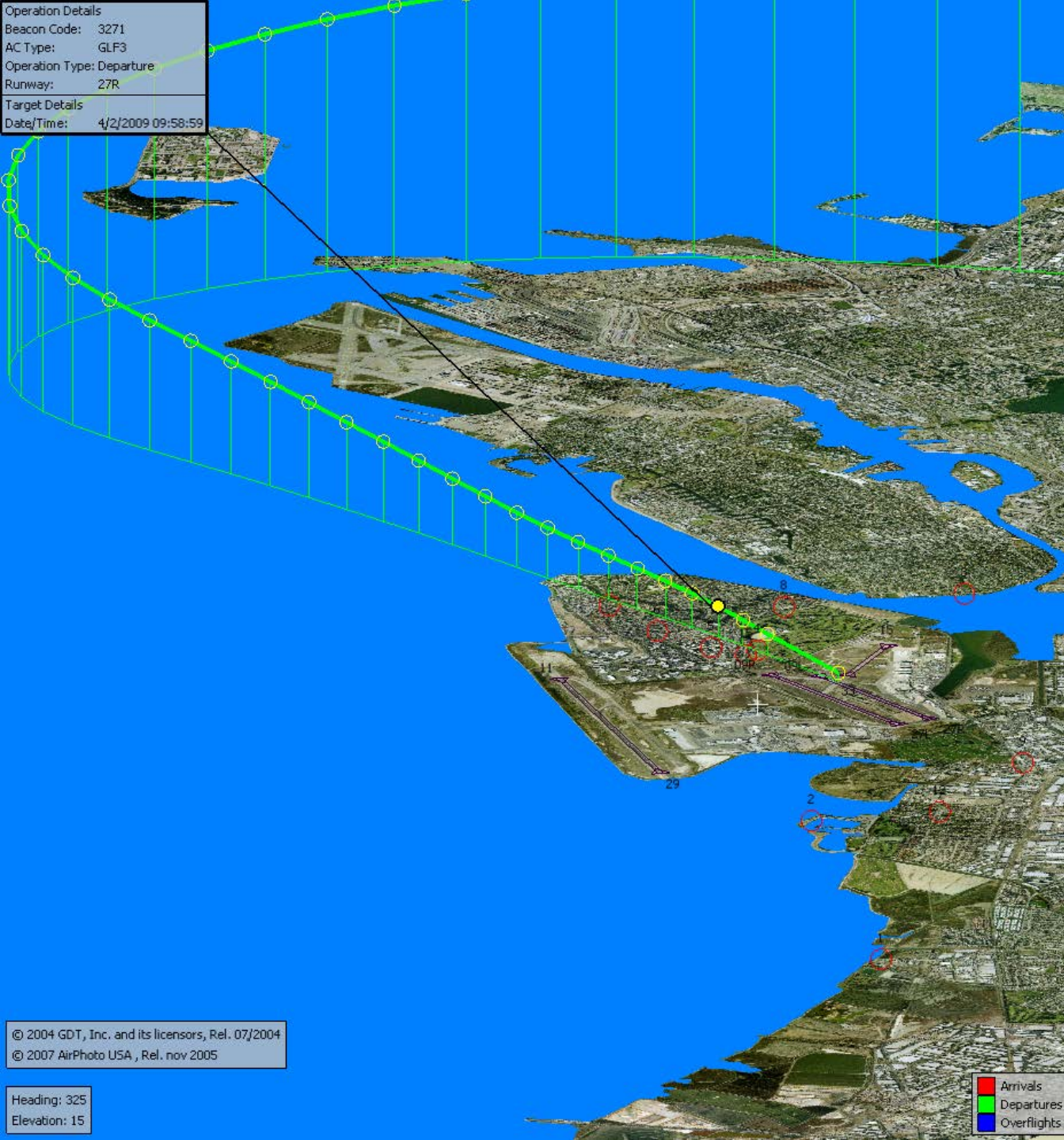
2014Q1
95% Compliance
(2,658 departures)

2013Q1
97% Compliance
(2,257 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

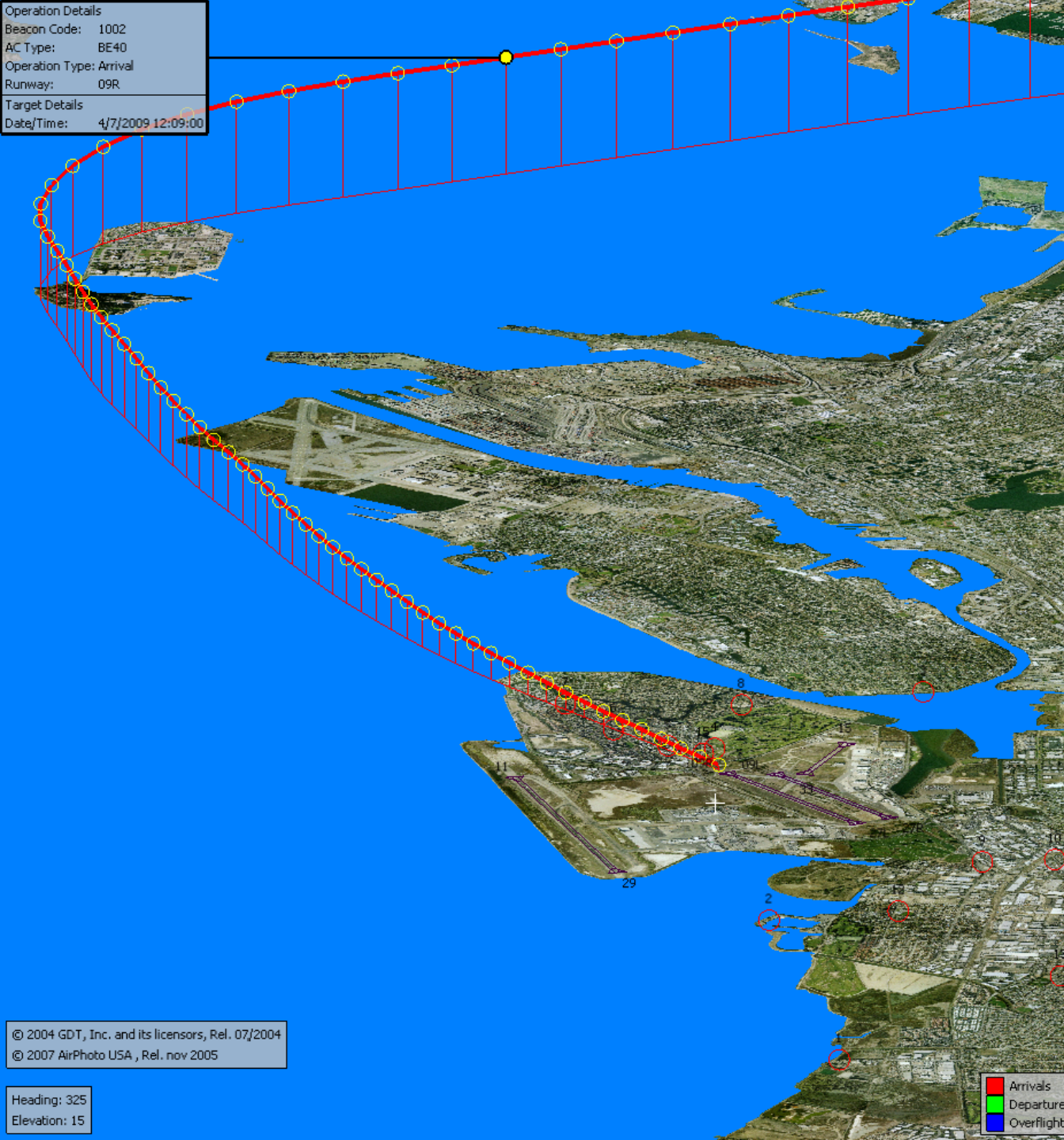
2014Q1
79% Compliance
(285 landings)

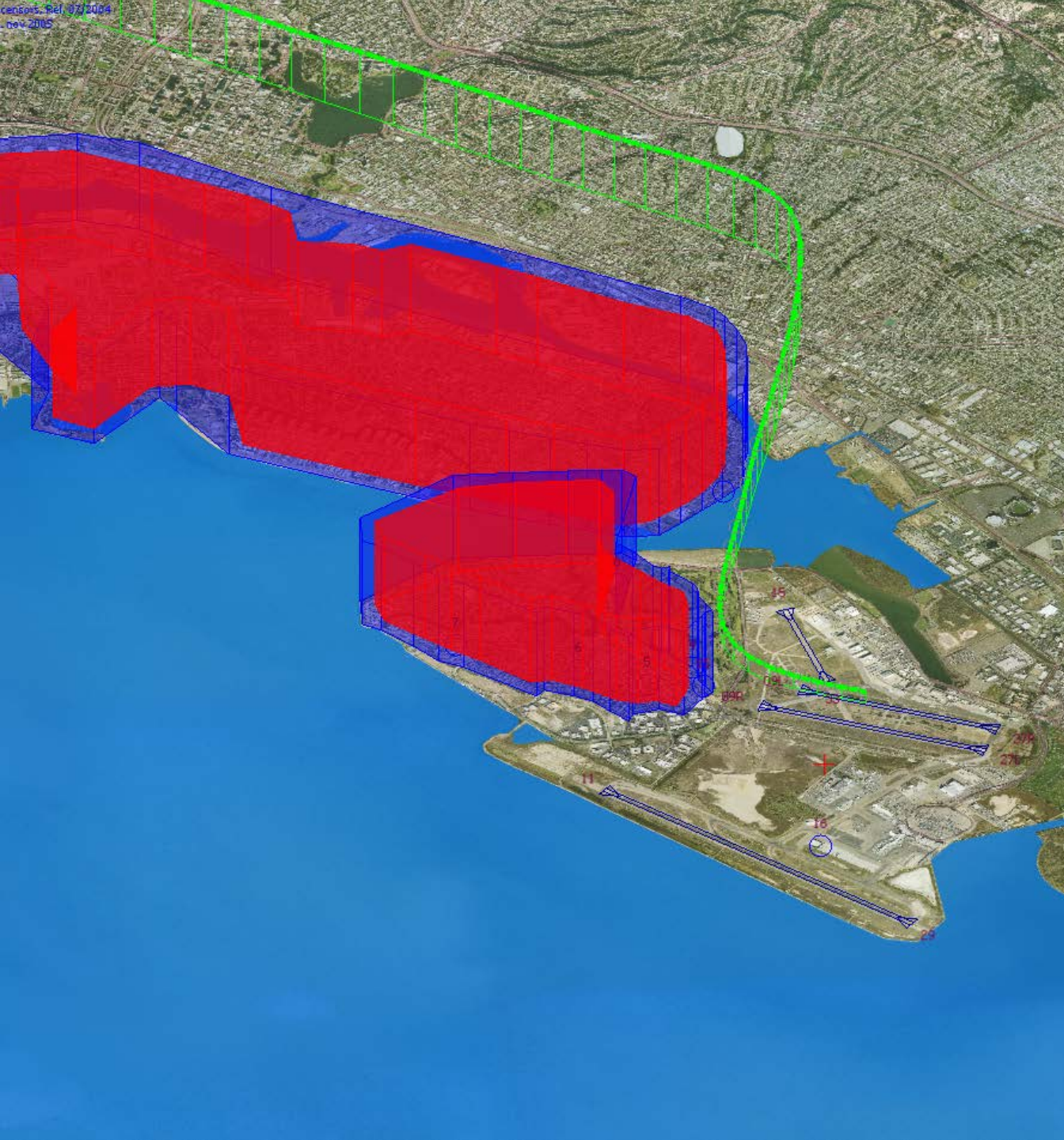
2013Q1
79% Compliance
(68 landings)

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© 2007 AirPhoto USA, Rel. nov 2005

Heading: 325
Elevation: 15

Arrivals
Departures
Overflights





VFR Aircraft Departure NAP

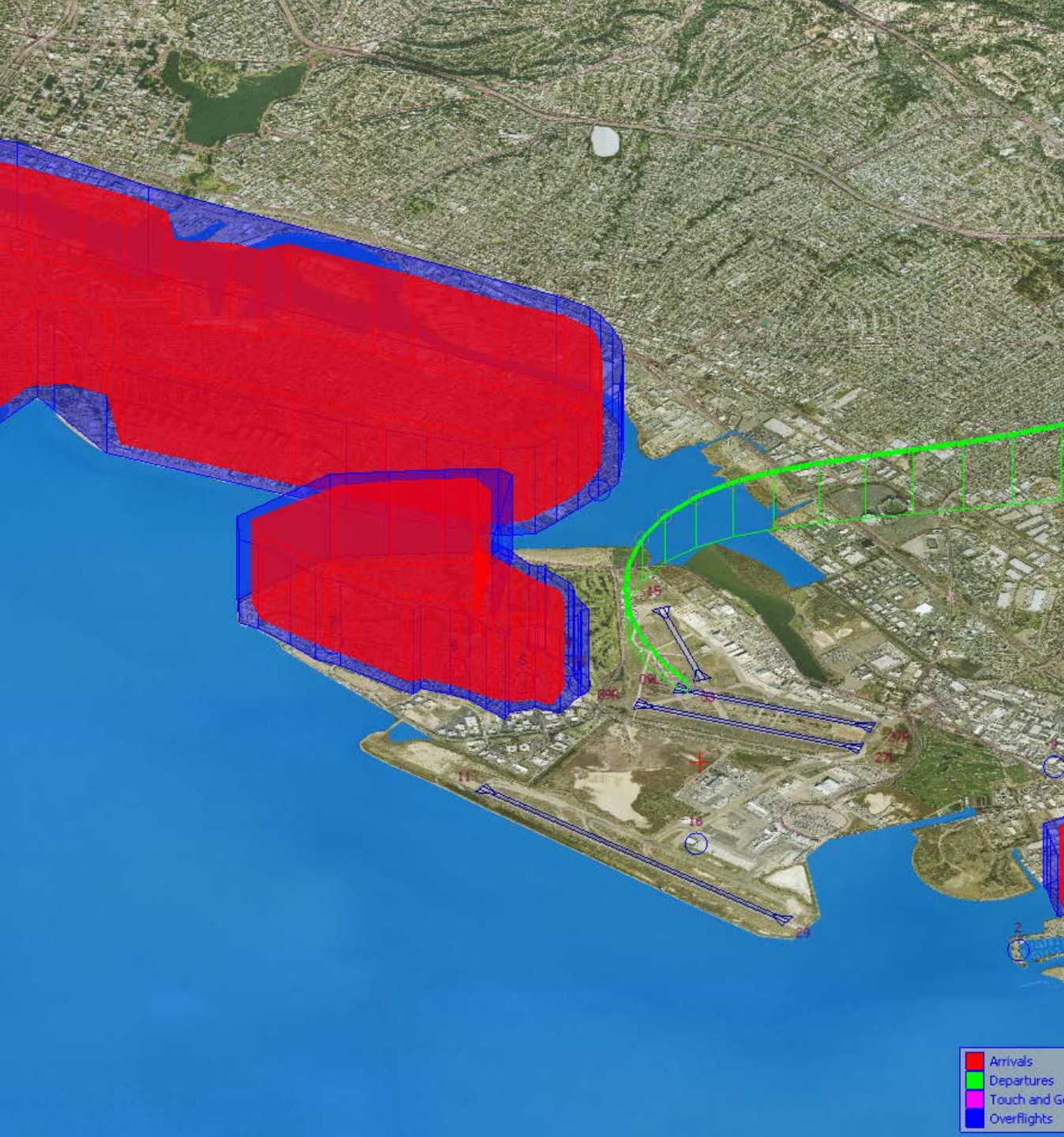
2014Q1
97% Compliance
(856 departures)

2013Q1
97% Compliance
(994 departures)

North Field Quiet Hours NAP

2014Q1
84% Compliance
(195 departures)

2013Q1
85% Compliance
(155 departures)



Runway 30 Bay Farm Right Turn NAP

2014Q1
100% Compliance
(13,087 departures)

2013Q1
100% Compliance
(14,635 departures)

Silent7 Night Departure NAP

2014Q1
99% Compliance
(2,317 departures)

2013Q1
99% Compliance
(2,788 departures)

Runway 12 Night Departure NAP

2014Q1
71% Compliance
(174 departures)

2013Q1
78% Compliance
(18 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

2014Q1
97% Compliance
(3,026 departures)

2013Q1
98% Compliance
(3,506 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**

**2014Q1
91% Compliance
(1,831 landings)**

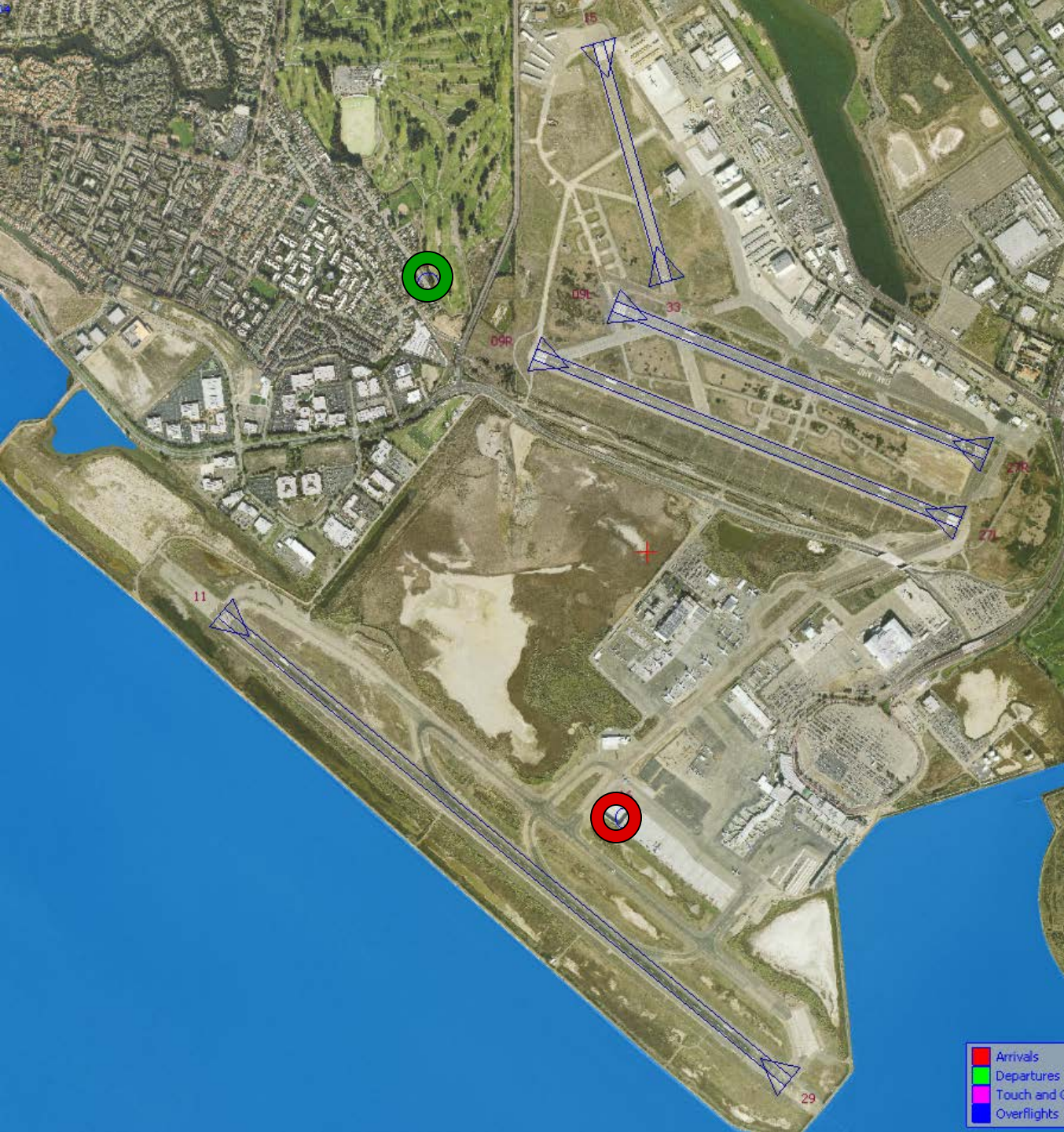
**2013Q1
91% Compliance
(2,113 landings)**

Engine Run-up NAP

2014Q1
100% Compliance
(7 engine run-ups)*

2013Q1
100% Compliance
(30 engine run-ups)

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



Noise Monitor Terminal (NMT)

Site Map

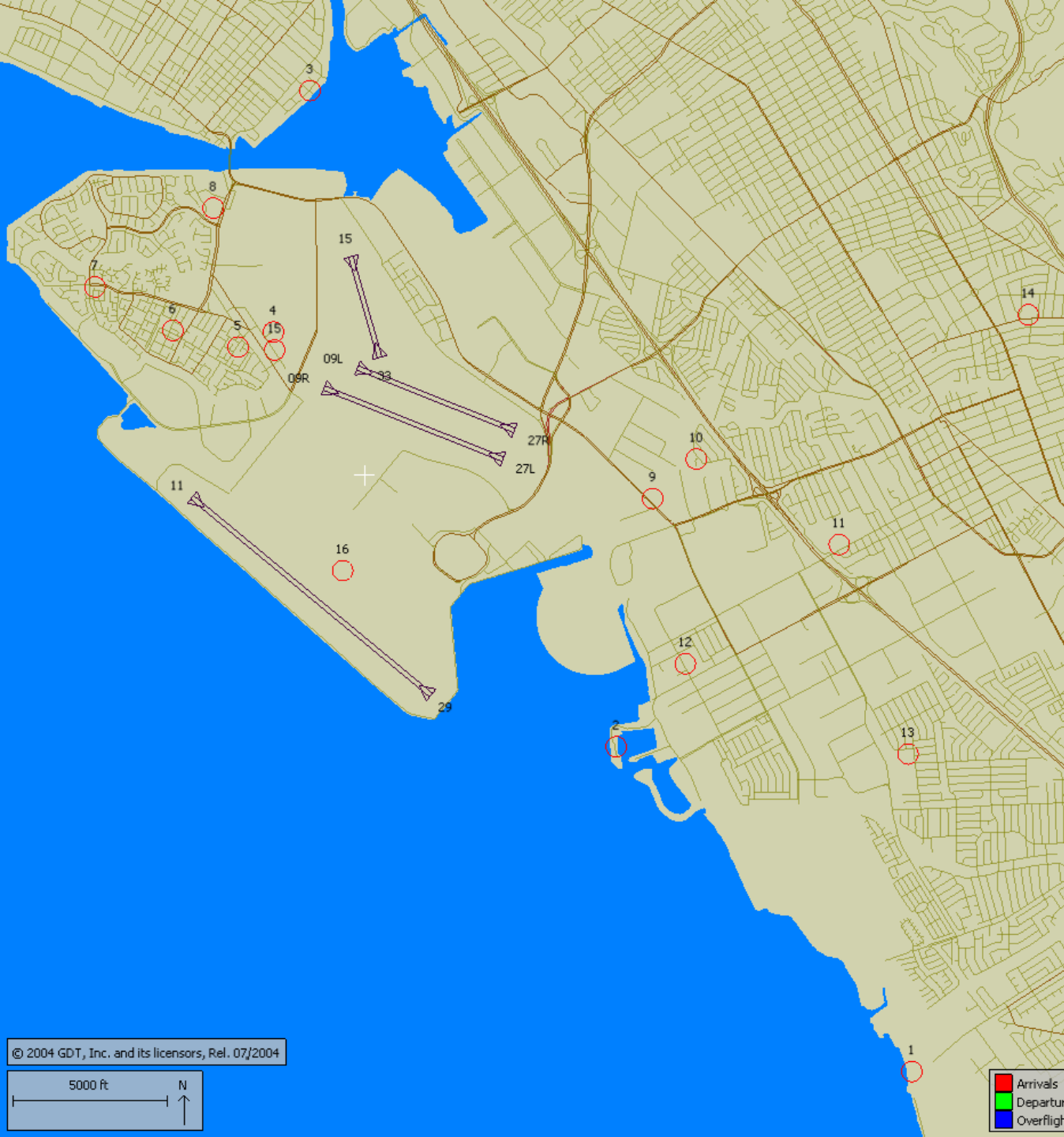


Table 1. North Field Night Aircraft Departure SEL Noise Measurements
Total Aircraft Departures = 195

First 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	2	0.0	0.4%	0	0.0	0.0%	0	0.0	0.0%	5
2	32	3	0.0	0.5%	1	0.0	0.2%	0	0.0	0.0%	36
3	41	3	0.0	0.5%	0	0.0	0.0%	0	0.0	0.0%	44
4	59	42	0.5	7.4%	9	0.1	1.6%	21	0.2	3.7%	131
5	44	8	0.1	1.4%	7	0.1	1.2%	20	0.2	3.5%	79
6	12	7	0.1	1.2%	9	0.1	1.6%	16	0.2	2.8%	44
7	15	11	0.1	1.9%	13	0.1	2.3%	0	0.0	0.0%	39
8	19	20	0.2	3.5%	4	0.0	0.7%	0	0.0	0.0%	43
9	23	14	0.2	2.5%	19	0.2	3.4%	1	0.0	0.2%	57
10	52	37	0.4	6.5%	3	0.0	0.5%	0	0.0	0.0%	92
11	8	3	0.0	0.5%	1	0.0	0.2%	0	0.0	0.0%	12
12	28	11	0.1	1.9%	6	0.1	1.1%	0	0.0	0.0%	45
13	9	0	0.0	0.0%	0	0.0	0.0%	0	0.0	0.0%	9
14	7	2	0.0	0.4%	0	0.0	0.0%	0	0.0	0.0%	9
All NMTs	352	163	2	0	72	1	0	58	1	0	645

Table 2. Aircraft SEL Noise Measurements in Alameda - Total Aircraft Departures = 126

First 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	41	3	0.0	1.3%	0	0.0	0.0%	0	0.0	0.0%	44
4	59	42	0.5	17.6%	9	0.1	3.8%	21	0.2	8.8%	131
5	44	8	0.1	3.3%	7	0.1	2.9%	20	0.2	8.4%	79
6	12	7	0.1	2.9%	9	0.1	3.8%	16	0.2	6.7%	44
7	15	11	0.1	4.6%	13	0.1	5.4%	0	0.0	0.0%	39
8	19	20	0.2	8.4%	4	0.0	1.7%	0	0.0	0.0%	43
Total	190	91	1.0		42	0.5		57	0.6		380

Table 3. Aircraft SEL Noise Measurements in San Leandro - Total Aircraft Departures = 69

First 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	32	3	0.0	0.9%	1	0.0	0.3%	0	0.0	0.0%	36
9	23	14	0.2	4.3%	19	0.2	5.8%	1	0.0	0.3%	57
10	52	37	0.4	11.3%	3	0.0	0.9%	0	0.0	0.0%	92
11	8	3	0.0	0.9%	1	0.0	0.3%	0	0.0	0.0%	12
12	28	11	0.1	3.4%	6	0.1	1.8%	0	0.0	0.0%	45
13	9	0	0.0	0.0%	0	0.0	0.0%	0	0.0	0.0%	9
14	7	2	0.0	0.6%	0	0.0	0.0%	0	0.0	0.0%	9
Total	159	70	0.8		30	0.3		1	0.0		260

**Rolling Take-off Night Departure Procedure (1:00 to 5:00 AM)
First Quarter 2014, 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
First Quarter 2014 [B]					
	Total [X]	Est. Avg. Monthly [X/3]			
B727	0	-	-	-	-
DC10/MD10	132	44	34	68	78
MD11	171	57	49	70	79
A306	96	32	20	67	76
B757	155	52	39	67	76
Difference [A-B]					
B727		-104	-101	-76	-87
DC10/MD10		-43	2	-1	0
MD11		25	36	0	0
A306		-35	-1	0	-1

(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 back-blast noise events are effectively correlated as the program software algorithms may misidentify an aircraft noise event.

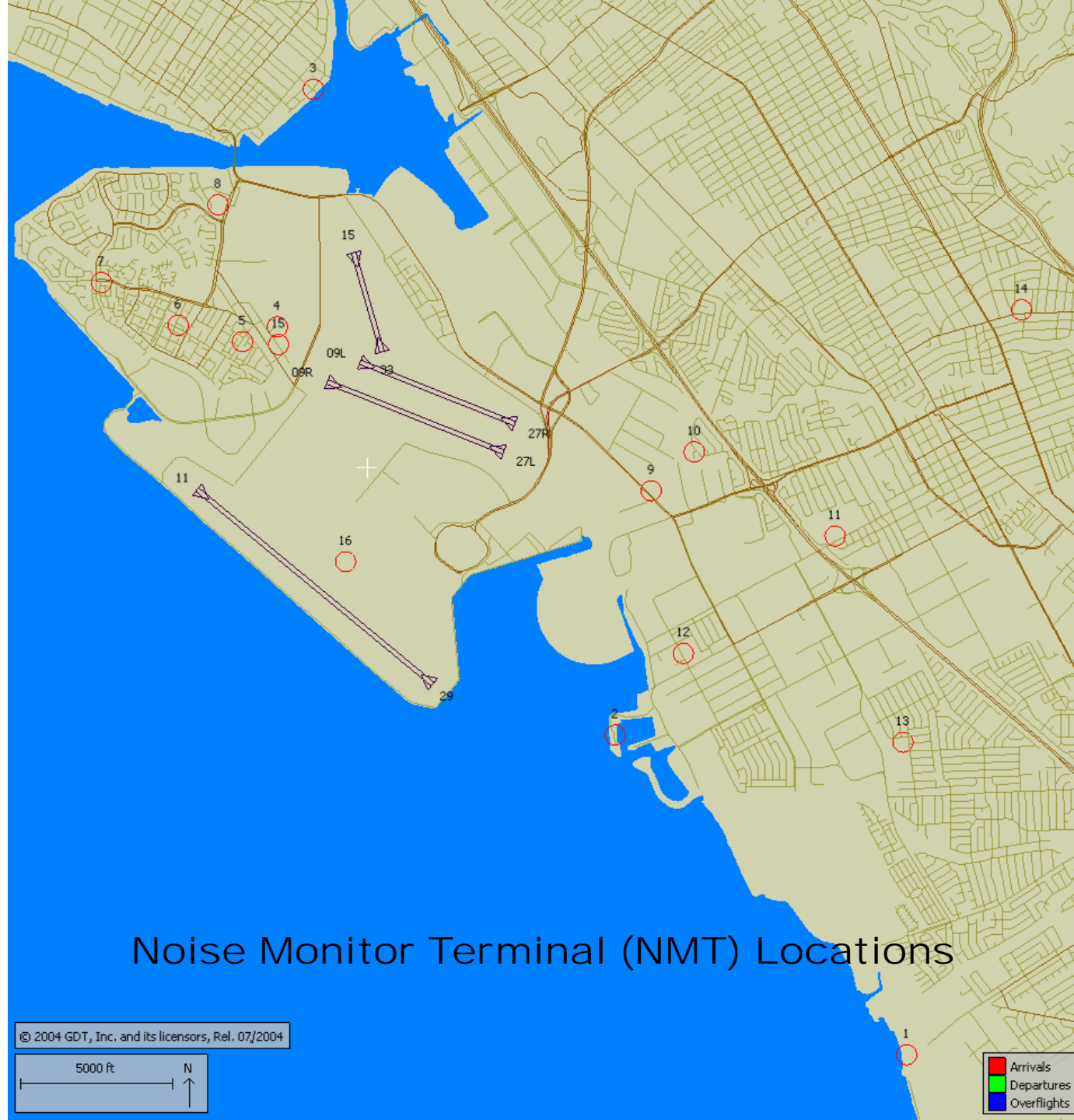
Source: ANOMS (Airport Noise and Operations Monitoring System)

Rolling Take-off Night Departure Procedure (1:00 to 5:00 AM)
First 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
First Quarter 2013 [B]					
	Total [X]	Est. Avg. Monthly [X/3]			
B727	0	-	-	-	-
DC10/MD10	147	49	96	78	24
MD11	194	65	145	78	23
A306	223	74	108	75	18
B757	63	21	26	74	15
Difference [A-B]					
B727		-104	-101	-76	-44
DC10/MD10		-38	64	-1	2
MD11		33	132	-1	-1
A306		7	87	-2	-7

(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