

2007

			Keys	Ranch waiver
Monday	Scot Shafer	567-6796	May 22/07	May 22/07
Tues/Sat	Lil Macmillan		May 22/07	May 22/07
Wed	Kathy Tachibana	553-5458 / 553-5236wrk		
Thurs	Joan Aidem	553-5641	May 22/07	May 22/07
Friday	Mike Grinnell	553-4405		May 22/07
Sunday	Bill Feeter	553-9857	May 22/07	May 22/07

**Backup**

Phyliss Siu			May 22/07
Joe Kitagawa			
Dave & Brenda Hubka	552-0135		
Debra Maple	658-0885 / 553-3200wrk		

correct terminology - George will email

excavation - all pits  
nest excavation with eggs

George will supply 2 gps units and metal detector

Will ID the excavations with numbered metal pieces - if in doubt about which is last - should mark both first and last excavations  
place the metal in the centre of the bottom of the excavation about 1 foot down - eggs are at the edge of the excavations, buried under a mound of sand



																		<b>6 paces SW of Cement Block - Phyllis noted windblown tracks by gravel hill - I believe these are the same tracks seen June 9th with 1 excavation. Very windy IF there were more than 1 excavation it was no longer visible. The tracks to the 1 that was visible were quite windblown and they had been walked over by several people. The upper part of the tracks were mostly blown away.</b>
9-Jun Sat	Lil	12	3	7	1	5-Aug	7-Aug	4	62	7-1	1	W?						
10-Jun Sun	Bill	13	4															
11-Jun Mon	Scot	14	5															
12-Jun Tue	Lil	15	6	A5														
				A6														
				A7														
				A8														
13-Jun Wed	Phyllis			7 A9														
		16			8	1	12-Aug	16-Aug	5	64	8-1	1	?					<b>East of Cement Blk east side of #3 - pictures</b>
14-Jun Thu	Joan	1	8															no new sign ? Not sure about #7 #8
15-Jun Fri	Mike	2	9															verified A9 and #8
16-Jun Sat	Lil	3	10															no new sign , added can and gps'd #8
17-Jun Sun	Bill	4	11															no new sign
18-Jun Mon	Scot	5	12		9	1	16-Aug				9-1		W					16 ft West of Dead Naupaka
					10	2	16-Aug				10-2		E					41 ft East of lg Driftwood - swale 2?, 50 South of Bank
19-Jun Tue	Lil	6	13		11	1	18-Aug	16-Aug	6	58	11-1		W					<b>Between East Morning GI &amp; Aki Grass, 25 ft from bank</b>
20-Jun Wed	Kathy	7	1															no new sign
21-Jun Thu	Joan	8	2															no new sign
22-Jun Fri	Mike	9	3															no new sign
23-Jun Sat	Lil	10	4															no new sign
24-Jun Sun	Bill	11	5															no new sign
25-Jun Mon	Scot	12	6															no new sign
26-Jun Tue	Lil	13	7															no new sign
27-Jun Wed	Kathy	14	8															no new sign
28-Jun Thu	Joan	15	9	A10														between Last Path Down and Dead Naupaka - turned around at bank - near ocean, not dune bank
29-Jun Fri	Mike	16	10		12	2	27-Aug				12-1,12-2		1 & 2					23yds East of Last Path down, marked both pits - looked like furthest east was last but not certain
		17			13	1	27-Aug				13-1		1					between Last Path Down and Dead Naupaka, 13 yds North of dune bank
30-Jun Sat	Lil	18	11		14	2	28-Aug	29-Aug	7	61	14-2		SE					<b>between East Morning GI &amp; Aki Grass, 13yds North of dune bank</b>
1-Jul Sun	Bill	1	12															no new sign
2-Jul Mon	Scot	2	13															no new sign
3-Jul Tue	Lil & Phyllis	3	14		15	2	1-Sep	31-Aug	8	59	15-2	2	E					<b>in the base of the dune at East Morning Glory</b>
4-Jul Wed	Kathy	4	1															had Slaters go out - didn't see anything new
5-Jul Thu	Joan	5	2															no new sign
6-Jul Fri	Mike	6	3															no new sign
7-Jul Sat	Lil	7	4															no new sign
8-Jul Sun	Bill	8	5															no new sign
9-Jul Mon	Scot	9	6															no new sign
10-Jul Tue	Lil	10	7															no new sign
11-Jul Wed	Kathy	11	8															no new sign, away July 12-26, Joan will be coordinator
12-Jul Thu	Joan	12	9															no new sign
13-Jul Fri	Mike	13	10															no new sign
14-Jul Sat	Bill	14	11	A11														8 paces N of E Morning Glory
15-Jul Sun	Bill	15	12	A12 A13														50 N of Last Path Down
16-Jul Mon	Scot	16	13	16	2	09/14/07												<b>91 ft E of Last Path Down, against the bank</b>

		16		17	1	09/14/07			17-1	1	77 ft W of Dicks Path Down, 20 ft from bank	
		16		18	2	09/14/07			18-2	2	4 ft W of E Morning Glory against the bank	
		16		19	2	09/14/07			19-2	2	50 ft N of Aki Grass	
17-Jul Tue	Bill	17	14	20	2	09/15/07			20-2	2	36 ft N of Dead Naupaka, 6 ft E of pile of logs	
				21	1	09/15/07			21-1	1	89 ft N of Aki Grass, 26 ft E of pile of logs	
18-Jul Wed	Kathy	1	15	22	2	09/16/07	13-Sep	9	57	22-2	2	Hatch #1 - Turtle #1
19-Jul Thu	Joan	2	1									51 ft N of W Morning Glory
20-Jul Fri	Mike	3	2									no new sign
21-Jul Sat	Phyllis	4	3									no new sign
22-Jul Sun	Bill	5	4									no new sign
23-Jul Mon	Scot	6	5									no new sign
24-Jul Tue	Phyllis	7	6									no new sign
												5pm George, 4 assistants, Joe & Sons, Scot, Mike, Feeters, Phyllis & Joan dug up Nest #1
												45 empty shells, 2 spoiled eggs, 1 unhatched embryonic turtle & 1 live turtle
25-Jul Wed	Bill	8	7									no new sign
26-Jul Thu	Joan	9	8									Hatch #2 Turtle #2
27-Jul Fri	Mike	10	9									no new sign
												Dug up Hatch #2 - George, Joan, Bill & Frances 75 empty, 2 spoiled
28-Jul Sat	Lil	11	10									no new sign
29-Jul Sun	Bill	12	11									no new sign
30-Jul Mon	Scot	13	12									no new sign
31-Jul Tue	Lil	14	13	23	1	29-Sep	29-Sep	10	60	23-1	1	13 y N of Aki Grass
1-Aug Wed	Kathy	15	1	24	1	30-Sep	29-Sep	11	59	24-1	1	40 ft NE last Fence Post
												Hatch #3 - Turtle #6
2-Aug Thu	Joan	1	2									no new sign
3-Aug Fri	Mike	2	3									no new sign
4-Aug Sat	Lil	3	4									no new sign
5-Aug Sun	Bill	4	5									no new sign
												dug up Hatch #3 -Bill, Frances, Joan, Mike & Lil - 60 empty, 4 spoiled eggs
6-Aug Mon	Scot	5	6									no new sign
												Hatch #4, Turtle #7 - big hatch, several went on long trecks away from ocean, ended up taken by crabs - counted 20 tracks that were taken by crabs
7-Aug Tue	Lil	6	7									no new sign
8-Aug Wed	Kathy	7	8									no new sign, found dead juvenile redbird tropic bird at W end of beach. Young fellows fishing - messed up beach
9-Aug Thu	Joan	8	9									no new
10-Aug Fri	Mike	9	10									no new sign
11-Aug Sat	Phyllis	10	11									no new sign
12-Aug Sun	Bill	11	12									no new sign
												Bill, Frances, Joan, Phyllis & Lil dug Hatch #4 - 82 empty shells, 4 undeveloped eggs, 1 live, 1 dry dead from crab found in sand near nest
13-Aug Mon	Scot	12	13									no new sign
14-Aug Tue	Lil	13	14									no new sign - very windy
15-Aug Wed	Kathy	14	15	25	6	13-Oct			25-6	25-6		12' S of top of Dicks Path Marker ? Need to measure
16-Aug Thu	Joan	15	16	26	1	14-Oct	14-Oct	12	60	26-1	26-1	Btw Dicks Path and E MGL 10 paces N
		15		27	1	14-Oct	15-Oct	13	61	27-1	27-1	N of Gravel Hill
17-Aug Fri	Mike	1										Hatches 5 & 6 Turtles 8 & 11
18-Aug Sat	Lil	2										No new sign
19-Aug Sun	Bill	3										no new sign, found dead hatchling tangled in fishing line at exit of #8

20-Aug Mon **Scot** 4  
 21-Aug Tue Lil 5  
 22-Aug Wed kathy 6  
 23-Aug Thu Joan 7  
 24-Aug Fri Mike 8  
 25-Aug Sat Lil 9

**26-Aug Sun Bill** 10  
 27-Aug Mon Scot 11  
 28-Aug Tue Joe 12

**29-Aug Wed Bill** 13

**30-Aug Thu Joan** 14      28    3    **29-Oct**      **2-Nov** 14      64      28-1,28-2    28-1,28-2

**31-Aug Fri Lil**

1-Sep Sat Lil  
 2-Sep Sun Bill  
 3-Sep Mon Scot  
 4-Sep Tue Lil  
**5-Sep Wed kathy**

6-Sep Thu Joan  
 7-Sep Fri Mike  
 8-Sep Sat Lil  
 9-Sep Sun Bill  
 10-Sep Mon Scot  
 11-Sep Tue Lil  
 12-Sep Wed Kathy

**13-Sep Thu Joan**  
 14-Sep Fri Mike

15-Sep Sat Lil  
 16-Sep Sun Bill  
**17-Sep Mon Scot**

18-Sep Tue Lil  
 19-Sep Wed Bill  
 20-Sep Thu Joan  
 21-Sep Fri Mike  
 22-Sep Sat Lil  
 23-Sep Sun Bill  
 24-Sep Mon Scot

**Dug #8 & #11 - Bill, Frances, Joe & son, Joan, Scot, Lil**  
**#8 - 78 empty, 2 undeveloped**  
**#11 - 86 empty, 3 undeveloped, 2 dead unhatched**  
 no new sign  
 no new sign  
 no new sign  
 no new sign  
 no new sign

**#7 Hatch, #14 Turtle - found live turtle at exit, released to ocean, found 1 dead at shoreline - a lot of crab activity**  
 no new sign  
 no new sign

**Hatch # 7, Turtle #14 - lots of crab activity, found 1 dead, found 1 live at exit and released to ocean**

**3 pits, unclear which was dug last, marked 1st and 3rd w sticks 1st in base of dune 10 paces E of East MGI, 3rd, 20ft N of dune btw Aki G & W MGI**

**Hatch #8 - Turtle #15 - lots of crab activity, found 1 dead close to surf line**

**found 2 tracks from #8 hatch, 1 lead to a dead turtle, no crab injuries**  
 no new sign  
 no new sign  
 no new sign  
 no new sign

**George, Mike, Joan, the Ballards, Kathy & Lil dug up #7&#8 hatches**  
**#7 - turtle 14 - 77 empty shells & 1 undeveloped egg**  
**#8 - turtle 15 - 78 empty shells & 3 undeveloped eggs - George took one with blood in yolk,**  
**George took frozen remains from Nests 6,7,8,11,14, & 15 - from Lil and Bill's freezers**

no new sign  
 no new sign  
 no new sign  
 no new sign  
 no new sign  
 no new sign

**Hatch #9 - Turtle #22 found 1 dead and 1 live with injuries at water line**  
 found 2 tracks from #9 hatch  
 found 2 dead hatchlings from hatch #9 - 1 near tide line at Last Path Down, 1 beside crab near hatch exit  
 no new sign  
 no new sign

**Scot, Ken, Mike, Joan, Marcy, Bill & Fr, & Lil dug #9**  
**80 empty shells, 1 undeveloped egg**

no new sign  
 no new sign  
 no new sign  
 no new sign  
 no new sign  
 no new sign

25-Sep Tue Lil  
26-Sep Wed Kathy  
27-Sep Thu Joan  
28-Sep Fri Mike  
**29-Sep Sat Lil**  
30-Sep Sun Bill  
1-Oct Mon Scot

2-Oct Tue Lil  
3-Oct **Wed Kathy**

4-Oct Thu Joan  
5-Oct Fri Mike  
6-Oct Sat Lil  
7-Oct Sun Bill  
8-Oct Mon Scot  
9-Oct Tue Lil  
10-Oct Wed Kathy  
11-Oct Thu Joan  
12-Oct Fri Mike  
13-Oct Sat Lil  
14-Oct Sun Bill

15-Oct Mon Scot  
16-Oct Tue Lil  
17-Oct Wed Kathy  
18-Oct Thu Joan  
19-Oct Fri Mike

20-Oct Sat Lil  
21-Oct Sun Bill  
22-Oct Mon Scot  
23-Oct Tue Lil  
24-Oct Wed Kathy  
25-Oct Thu Lil  
26-Oct Fri Mike  
27-Oct Sat Lil  
28-Oct Sun Bill  
29-Oct Mon Scot  
30-Oct Tue Lil  
31-Oct Wed Kathy  
1-Nov Thu Lil  
2-Nov Fri Mike  
3-Nov Sat Lil  
4-Nov Sun Bill  
5-Nov Mon Scot  
6-Nov Tue Lil  
7-Nov Wed Kathy  
8-Nov Thu Lil

no new sign  
no new sign  
no new sign  
no new sign

**Hatches 10 & 11 Turtles 23 & 24**

no new sign  
road too muddy didn't go

no new sign, 2 areas of Monk Seal tracks & impressions B & Swale 1  
no new sign, Monk Seal tracks - swale 2

**dug hatch #10 - 76 empty shells, 2 undeveloped eggs Bill, Scot, Mike, Kathy, Lil, Marcy & Ken**

**hatch #11 - 70 empty shells, 2 undeveloped eggs**

no new sign  
no new sign  
no new sign  
no new sign  
no new sign  
no new sign  
no new sign  
no new sign  
no new sign  
no new sign  
no new sign

**Hatch #12, Turtle #25**

**Hatch #13, Turtle #26, found 2 dead at shoreline, lots of crab activity - 2 dead in Scot's freezer**

one more track from Hatch 12

no new activity

no new activity

**Mike, Joan, Kathy, Lil, Bill & Frances, Joe**

**dug hatch 12 - Turtle 26 - 76 empty shells, 3 undeveloped & 2 live released to ocean**

**dug hatch 13 - Turtle 27 - 82 empty shells, 2 undeveloped - undeveloped eggs in Lil's freezer**

no new sign  
no new sign  
no new sign  
no new sign

road too muddy didn't go

no new sign - very windy, no visible tracks of any kind

no new sign - very windy, no visible tracks of any kind

no new sign - very windy, no visible tracks of any kind

no new sign - very windy

no new sign

no new sign

rained out

rained out

Hatch #14 - Turtle #28 marked & swept exit

Hatch #14 - 3 more tracks out from exit

rained out

rained out

road too muddy didn't go

road too muddy didn't go

Lil, Bill, Frances, Mike & Kathy

dug #14 78 empty, 3 undeveloped, 1 live, 26 dead

crab activity in exit area, looked like a hatchling had been dragged away

**Map ID    Landmarks**

**East to West**

A	Pavillion East End
C	Pavillion entrance
D	First Path Down
E	Last Path Down
F	Dead Naupaka
G	Dick's Path Down
H	Morning Glory East
I	Aik Grass
J	Morning Glory West
K	Cement Block
L	Gravel Hill
M	Fence Post
N	River
O	Swale 1
P	Swale 2
Q	White Cliff
R	Turtle Industry
S	Kaiehu Rock

8/7 counted 20 tracks that ended with crabs dragging hatchlings away, 8/12 found 1 dead, dry baby with hole in back of neck in sand near nest						
found 1 dead hatchling Aug 19 at exit area, tangled in fishing line being eaten by a crab						



2 dead were unhatched, seemed to be fully developed						
1 found dead from crabs						
2 found dead, 1 from crabs						
found 1 dead and 1 live but injured at waters edge					Sept 15, found 2 dead at tide line	
found 2 dead on shoreline						
11/3/2007 - 3 more tracks from exit						
11/4/07 - very heavy rains						

11/8/07 - crabs digging in exit area, appeared to have dragged 1 hatchling away						

<b>Hatches due -</b>			
<b>#1 - July 8</b>		<b>#4 - July 25</b>	
<b>#2 - July 20</b>		<b>#5 - July 25</b>	
<b>#3 - July 24</b>		<b>#6 - July 26</b>	
<b>11-Jul</b>	<b>Wed</b>	<b>Kathy</b>	
<b>12-Jul</b>	<b>Thu</b>	<b>Joan</b>	
<b>13-Jul</b>	<b>Fri</b>	<b>Mike</b>	
<b>14-Jul</b>	<b>Sat</b>	<b>Bill</b>	
<b>15-Jul</b>	<b>Sun</b>	<b>Bill</b>	
<b>16-Jul</b>	<b>Mon</b>	<b>Scot</b>	
<b>17-Jul</b>	<b>Tue</b>	<b>Bill</b>	
<b>18-Jul</b>	<b>Wed</b>	<b>Kathy</b>	
<b>19-Jul</b>	<b>Thu</b>	<b>Joan</b>	
<b>20-Jul</b>	<b>Fri</b>	<b>Mike</b>	
<b>21-Jul</b>	<b>Sat</b>	<b>Phyllis</b>	
<b>22-Jul</b>	<b>Sun</b>	<b>Bill</b>	
<b>23-Jul</b>	<b>Mon</b>	<b>Scot</b>	
<b>24-Jul</b>	<b>Tue</b>	<b>Phyllis</b>	
<b>25-Jul</b>	<b>Wed</b>	<b>Bill</b>	
<b>26-Jul</b>	<b>Thu</b>	<b>Joan</b>	
<b>Kathy</b>	<b>553-5236</b>		
<b>Mike</b>	<b>553-4405</b>		
<b>Bill</b>	<b>553-9857</b>		
<b>Scot</b>	<b>567-6796</b>		
<b>Phyllis</b>	<b>553-4489</b>		

5-Jun body impression near waters edge - Lil

3-Jul body impressions below high tide line - Lil

2-Oct 3 body impressions near bank - B, 3 body impressions at just below high water line - swale 1 - Lil

3-Oct body impression near waters edge - swale 2 - Joan

18-Oct tracks - swale 2 - Joan

2008

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Monday	Scot Shafer	567-6796	May 13/08	May 13/08
Tues/Sat	Lil Macmillan		May 13/08	May 13/08
Wed	Kathy Tachibana	553-5458 / 553-5236wrk		
Thurs	Joan Aidem	553-5641		May 13/08 has keys from 2007
Friday	Mike Grinnell	553-4405		May 13/08
Sunday	Bill Feeter	553-9857		May 13/08 has keys from 2007

**Backup**

Phyliss Siu  
Joe Kitagawa  
Dave & Brenda Hubka 552-0135  
Debra Maple 658-0885 / 553-3200wrk



**2008 Nesting Green Sea Turtle Survey Kawa'aloa Bay, Molokai, HI.**

**All Trips In -**

<b>Nests dug</b>	<b>Excavation #</b>	<b>Map ID</b>	<b>Aborted Tracks</b>	<b>Map ID</b>		<b>Map ID</b>	<b>Landmarks</b>
						<b>East to West</b>	
04/27/08			A1	S		A	Pavillion
05/01/08			A2	S	waters edge	C	East End
05/24/08	1	P				D	Pavillion entrance
06/10/08			A3	S	waters edge	E	First Path Down
06/14/08	2	R				F	Last Path Down
06/28/08			A4	Q	below high tide line	G	Dead Naupaka
06/28/08			A5	R/S	waters edge	H	Dick's Path Down
06/29/08	3	R				I	Morning Glory East
07/05/08			A6	A/B	up to dune	J	Aik Grass
07/05/08			A7	N	below high tide line	K	Morning Glory West
07/05/08			A8	Q	up to dune	L	Cement Block
7/28/2008			A9	S	waters edge, missing flipper, smaller turtle	M	Gravel Hill
07/31/08	4	S				N	Fence Post
08/15/08	5	S				O	River
08/18/08			A10	S	below high water	P	Swale 1
08/29/08	6	S				Q	Swale 2
09/10/08			A11	S	below high water	R	White Cliff
09/13/08	7	S				S	Turtle Industry
10/24/08			A12	S	below high water		Kaiehu Rock

**nesting activity at small beach to east of Kawaaloo beach**

Excavation #

5/23/2008	1
6/13/2008	2
7/4/2008	3
7/5/2008	4
7/30/2008	5





Bill	553-9857	Lil away July 7 - 22	
Kathy	553-5236		
Mike	553-4405		
Scot	567-6796		
Phyllis	553-4489		
<b><u>Hatch due #1 - July 23, 2008</u></b>			
6-Jul	Sun	Bill	no activity
7-Jul	Mon	Scot	
8-Jul	Tue	Kathy	
9-Jul	Wed	Bill	
10-Jul	Thu	Joan	
11-Jul	Fri	Mike	
12-Jul	Sat	Bill	
13-Jul	Sun	Bill	
14-Jul	Mon	Scot	
15-Jul	Tue	Kathy	
16-Jul	Wed	Bill	
17-Jul	Thu	Joan	
18-Jul	Fri	Mike	



05/25/08 tracks and body depression - west end of beach

06/29/08 seal basking on beach Feeters emailed pics and tag ID BO2 to D Schofield at NOA

08/01/08 seal tracks on Mike's beach

09/24/08 2 seals basking at east end of beach - one more silver than other - had red tag on back fl

09/25/08 1 seal basking at east end of beach, silver grey, Joan thought it was young

pper unable to read it - the seal was aware of me and did not want to disturb it.

2009

Keys

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Sunday	Bill Feeter	553-9857

has keys from 2008

**Backup**

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7/7/09 Tue	Lil	38	A19								long track, many shuffles, from last path up top & over side of dune - looked to have had difficulty getting back up from back side of dune and then on to above E Morning gl - 38 in track
		38	A20								
		38	10		2	5-Sep					btw Turtle ind and Kaiehu Rock up to dune edge, many shuffles - 38 in track
7/8/09 Wed	Scot	22-Jul	38	11	2	6-Sep	6-Sep	5	60		27 ft W of East M glory in edge of dune - 38 in track
7/9/09 Thu	Lil										no tracks
7/10/09 Fri	Mike										no tracks
7/11/09 Sat	Kathy										no tracks
7/12/09 Sun	Bill										no tracks
7/13/09 Mon	Joan										no tracks
7/14/09 Tue	Helen & Katie		A21								in front of river
7/15/09 Wed	Scot		A22								in front of E Morning Glory
7/16/09 Thu	Frances Ort										no new tracks - new excavation on Mike's Beach
7/17/09 Fri	Mike										no go - car trouble
7/18/09 Sat	Kathy	1-Aug		12	3	16-Sep	19-Sep	6	63		near cement block
7/19/09 Sun	Bill		A23								100 ft E of Kaiehu Rock
7/20/09 Mon	Joan										no tracks
7/21/09 Tue	Helen & Katie										no tracks
7/22/09 Wed	Scot										no tracks
7/23/09 Thu	Frances										no tracks
7/24/09 Fri	Mike										no tracks
7/25/09 Sat	Kathy			13	2	23-Sep					West Morning Glory/ gravel Hill
				14	2	23-Sep					Kaiehu Rock
				15	3	24-Sep					
7/26/09 Sun	Bill	9-Aug	A24								120 ft W of Cement Block - uncertain which was last - possibly the farthest west
7/27/09 Mon	Joan										below high water 40 ft E of Kaiehu Rock
7/28/09 Tue	Phyllis										no tracks
7/29/09 Wed	Scot										no tracks
7/30/09 Thu	Bill	14-Aug		16	2	28-Sep	27-Sep	7	59		Dead naupaka
			A25								50 ft E of Kaiehu Rock - ATV tracks length of beach - Frances sent pics to Ed
7/31/09 Fri	Mike										no tracks
8/1/09 Sat	Bill										no tracks
8/2/09 Sun	Bill										no tracks
8/3/09 Mon	Joan										no tracks
8/4/09 Tue	Phyllis										no tracks
8/5/09 Wed	Scot										no tracks
8/6/09 Thu	Bill										no tracks
8/7/09 Fri	Mike										no tracks
8/8/09 Sat	Kathy										no tracks
8/9/09 Sun	Bill										A5 and #4 hatched
	Lil										verified hatch locations - approaching storm may prevent monitors from checking beach in next few days
8/10/09 Mon	Joan										road to wet to gc
8/11/09 Tue	Lil										road to wet to gc
8/12/09 Wed	Scot										road to wet to gc
8/13/09 Thu	Lil	32	A26								up to edge of grass in front of the Pavilio
		36	17	1	12-Oct						40 ft W of last path, 20 ft N of dune
		36	18	1	12-Oct						20 ft SE of Dick's Path
		24-Aug	38	19	1	12-Oct	14-Oct	9	63		50 NE of Aki Grass
		26-Aug	42	20	3	12-Oct	13-Oct	8	61		60 ft NE of West Morning Glory - beside #17 - one to East
		38	21	3	12-Oct						60 ft NE of Turtle Industry
		36	22	1	12-Oct						29 ft S of Kaiehu rock beside #14 to East
8/14/09 Fri	Lil, Bill, Joan, Katie & Phyllis										dug #1 & #2 hatches
											#1 A5 - 56 empty shells, 14 spoiled, 1 dead, 2 live
											#2 - #4 nest - 75 empty shells
											no new tracks
8/15/09 Sat	Kathy										no new tracks
8/16/09 Sun	Bill										no new tracks
8/17/09 Mon	Joan										no new tracks
8/18/09 Tue	Lil										no new tracks
8/19/09 Wed	Scot										no new tracks- high surf/high tide - waves ran up to dune edge swale 2 west
8/20/09 Thu	Lil										no new tracks- high surf/high tide - waves ran up to dune edge swale 2 west - waves washed in # 22 & 14
8/21/09 Fri	Mike		A27								small track near water's edge
8/22/09 Sat	Kathy										no new tracks
8/23/09 Sun	Bill										no new tracks
8/24/09 Mon	Joan										Hatch #3 - turtle #6
8/25/09 Tue	Lil										3 more hatching tracks from #3 hatch
8/26/09 Wed	Scot	9-Sep	42	23	1	25-Oct	27-Oct	10	62		60 ft N of East Morning Glory - large hole
		38	A28								loop onto dry sand and rtn N of Gravel hi
		38	A29								loop onto dry sand and rtn N of Last Pos
8/27/09 Thu	Lil										
8/28/09 Fri	Lil, Bill, Frances, Helen, Katie, & Kathy	38	A30								dug #6 - hatch #3 - 71 empty shells, 1 dead, 4 unhatched/dead - sand was quite moist, three dead were still in shells - 2 partially out, 1 unhatched felt like there was a turtle inside
			A31								very long track up to river to swale
		11-Sep	38	24	1	27-Oct					short loop E of Kaiehu Rock
8/29/09 Sat	Kathy	12-Sep	38	25	1	28-Oct	28-Oct	11	60		90 ft N of swale 1 - still looking on way back to ocean
8/30/09 Sun	Bill										35 ft E of Swale 1 in base of dune
8/31/09 Mon	Joan										no new tracks
											road closed - fire

9/1/09 Tue Lil  
 9/2/09 Wed Scot  
 9/3/09 Thu Lil  
 9/4/09 Fri Mike  
 9/5/09 Sat Lil  
 9/6/09 Sun Bill  
 9/7/09 Mon Joan  
 9/8/09 Tue Lil

no new tracks  
 no new tracks  
 no new tracks  
 nest #9 hatched - lg # of tracks - hatch #4, ATV tracks the length of the beach  
 2 more tracks from nest #9  
 found #11 had hatched - #5 hatch - many tracks  
 no new tracks  
 no new tracks

9/9/09 Wed Scot, Bill, Joan, Mike, Lil, Helen, Katie & Joe

dug #9 -hatch #4 - 84 empty shells, 1 undeveloped, 3 unhatched/dead - sand was quite moist, three dead were still in shells

23-Sep 42 26 1 8-Nov  
 23-Sep 42 27 1 8-Nov  
 24-Sep 42 28 4 9-Nov 9-Nov 12 60

dug #11 - hatch #5 - 55 empty shells, 2 undeveloped - 1 very small, 8 partially hatched dead, 1 dead & 2 live - released - partially hatched were near the bottom of the nest and starting to decay - the sand was quite moist  
 Btw Pavillion entr and B at edge of bank  
 85 ft E of Cement Block  
 15 ft w of first path down in the trail

9/10/09 Thu Lil  
 9/11/09 Fri Mike  
 9/12/09 Sat Kathy  
 9/13/09 Sun Bill  
 9/14/09 Mon Joan  
 9/15/09 Tue Lil

no new tracks  
 no new tracks  
 no new tracks  
 no new tracks - #27 wet - high surf  
 no new tracks  
 no new tracks - # 27 wet

9/16/09 Wed Scot

A32

George Balazs - Joan, Bill, Frances, Helen, Katie, Scot & Lil - walked the beach

A33  
 A34

evening of 15th - George saw 2 turtles - A32 & A33, found tags, - both had been tagged 2007 while nesting at FFS

9/17/09 Thu Lil  
 9/18/09 Fri Mike  
 9/19/09 Sat Lil  
 9/20/09 Sun Bill  
 9/21/09 Mon Joan  
 9/22/09 Tue Lil  
 9/23/09 Wed Katie  
 9/24/09 Thu Lil, Joan, Mike, Frances Ort, Bill & Frances  
 9/25/09 Fri Mike  
 9/26/09 Sat Kathy  
 9/27/09 Sun Bill  
 9/28/09 Mon Joan  
 9/29/09 Tue Phyllis  
 9/30/09 Wed bill  
 10/1/09 Thu Katie & Helen  
 10/2/09 Fri Mike  
 10/3/09 Sat Kathy  
 10/4/09 Sun Bill  
 10/5/09 Mon Joan  
 10/6/09 Tue Frances Ort  
 10/7/09 Wed Scot  
 10/8/09 Thu Katie  
 10/9/09 Fri Mike  
 10/10/09 Sat Kathy  
 10/11/09 Sun Bill  
 10/12/09 Mon Joan  
 10/13/09 Tue Phyllis  
 10/14/09 Wed Scot  
 10/15/09 Thu Katie & Helen  
 10/16/09 Fri Joe, Bill, Frances

A35  
 A36  
 A37

Kaiehu rock - at water's edge  
 no new tracks  
 hatch #6 - turtle #12 - many tracks  
 1 more track from hatch #6  
 no new tracks  
 no new tracks - Sunday's track still visible  
 no new tracks  
 dug #12 - hatch #6 - 66 empty shells  
 no new tracks  
 hatch #7 - turtle 16  
 4 tracks from #16  
 no new tracks  
 no new tracks  
 no new tracks  
 at waters edge - Kaiehu rod  
 no new tracks  
 dug #16 - hatch #7 - 56 empty shells, 5 undeveloped  
 at waters edge - Kaiehu rod  
 up to high tide line - Kaiehu Rod  
 no new tracks - high tides - standing water at dune edge - White cliff & River  
 no new tracks  
 no new tracks  
 no new tracks  
 no new tracks  
 no new tracks - camper from Oregon - 3 days on beach  
 no new tracks  
 no new tracks  
 # 8 hatch - turtle 20  
 #9 hatch - turtle 19  
 1 track from hatch #9  
 no new tracks

Dug hatch #8 - nest #20 63 empty shells, 5 dead partially hatched, 3 undeveloped, 2 very small unhatched

Dug hatch #9 - nest #19- 72 empty shells, 3 undeveloped, 1 live

10/17/09 Sat Frances Ort  
 10/18/09 Sun Bill  
 10/19/09 Mon Katie  
 10/20/09 Tue Frances Ort  
 10/21/09 Wed Scot

no new tracks  
 no new tracks  
 no new tracks  
 no new tracks  
 no new tracks

10/22/09 Thu Lil  
 10/23/09 Fri Mike  
 10/24/09 Sat Lil  
 10/25/09 Sun Bill  
 10/26/09 Mon Phyllis  
 10/27/09 Tue Lil  
 10/28/09 Wed Scot  
 10/29/09 Thu Lil

no new tracks - chain gate down, section of fence out - next to section Brian fixed  
 no new tracks  
 no new tracks  
 no new tracks  
 no new tracks  
 no new tracks  
 #10 hatch - nest #23  
 #11 hatch - nest #25  
 1 more track from hatch #11

10/30/09 Fri Mike  
 10/31/09 Sat

no new tracks/ 1 young tropic bird on sand - seemed healthy  
 not checked  
 dig #23 - hatch 10 - 51 empty shells, 12 undeveloped

11/1/09 Sun Bill, Frances, Mike, Helen, & Lil

dig #25 - hatch #11 - 70 empty shells, 8 dead partially hatched, 3 undeveloped  
 beach not checked

11/2/09 Mon



11/3/09 Tue		beach not checked
11/4/09 Wed	Scot	road too wet
11/5/09 Thu	Lil	road too wet
11/6/09 Fri	Mike	no new tracks
11/7/09 Sat	Lil	no new tracks
11/8/09 Sun	Bill	no new tracks
<b>11/9/09 Mon</b>	<b>Joan</b>	<b>#28 only a few tracks - exit area unclear</b>
11/10/09 Tue	Lil	no new tracks 7 tracks still visible from #28
11/11/09 Wed	Scot	no new tracks
11/12/09 Thu	Lil	no new tracks - big surg - #27 wet
11/13/09 Fri	Mike	no tracks # 27 wet - big surf
11/14/09 Sat		not checked
<b>11/15/09 Sun</b>	<b>Bill, Frances, Frances O, Helen, Katie, Joe &amp; daughter &amp; grand son, Mike &amp; Lil plus guests Buch &amp;</b>	<b>big surf #27 wet no tracks from 26</b>
		<b>dug #28 - 67 empty shells, 5 live, 3 undeveloped, 2 very small undeveloped</b>
11/18/09 Wed		luncheon & plaque for Joan - George picked the rest of the frozen remains

2009 Nesting Green Sea Turtle Survey Kawa'aloa Bay, Molokai, HI.

All Trips In -

Nests dug	Excavation #	Map ID	Aborted Tracks	Map ID		Map ID	Landmarks
					East to West		
5/20/2009			AI	S		A	Pavillion
5/30/2009	1	E					East End
06/01/09			A2	R		C	Pavillion entrance
06/01/09			A3	S			
06/03/09	2	K/L				D	First Path Down
06/04/09			A4	H	9am see pics	E	Last Path Down
06/06/09			A5	I/J	possilbe exc - wind swept all acitivity	F	Dead Naupaka
06/07/09	3	H/I	A6	E/F		G	Dick's Path Down
06/08/09	4	G				H	Morning Glory East
06/13/09			A7	R/S		I	Aik Grass
06/14/09			A8	N		J	Morning Glory West
06/15/09			A9	N		K	Cement Block
06/15/09			A10	N		L	Gravel Hill
06/15/09			A11	N		M	Fence Post
06/16/09			A12	H		N	River
06/16/09	5	M	A13	Q		O	Swale 1
06/20/09			A14	A		P	Swale 2
06/20/09			A15	S		Q	White Cliff
06/21/09	6	F				R	Turtle Industry
06/21/09	7	I/J				S	Kaiehu Rock
06/22/09	8	S					
06/25/09			A16	R/S			
06/28/09			A17	D/E			
06/28/09			A18	S			
07/01/09	9a	D/E			unrecorded nest washed out by high surf		
07/04/09	9	I					
07/07/09			A19	E/H			
07/07/09			A20	R/S			
07/07/09	10	S					
07/08/09	11	H/I					
07/14/09			A21	N			
07/15/09			A22	H			
07/18/09	12	K					
07/19/09			A23	R/S			

07/25/09	13	J		
07/25/09	14	S		
07/26/09	15	M		
07/27/09			A24	S
07/30/09	16	F	A25	S
08/13/09			A26	C
08/13/09	17	E/F		
08/13/09	18	G		
08/13/09	19	I		
08/13/09	20	I/J		
08/13/09	21	Q/R		
08/13/09	22	S		
08/21/09			A27	S
08/26/09	23	H	A28	L
08/27/09			A29	M
08/28/09	24	O	A30	N/O
08/28/09			A31	R/S
08/29/09	25	O		
09/09/29	26	B/C		
09/09/09	27	J/K		
09/10/09	28	D/E		
09/16/09			A32	S
9/16/2009			A33	S
9/17/2009			A34	S
10/1/09			A35	S
10/3/09			A36	S
10/4/09			A37	S



Bill	553 - 9857
Kathy	553 - 5458
Mike	553 - 4405
Scot	567 - 6796
Phyllis	553 - 4489
Frances Ort	558 - 8996
Helen Coelho	567 - 6468
Katie Leong	553 - 5269

hatches due.....

- Sep 23 #13 - in dune above - 20ft SE of West Morning Glory (J)
- Sep 23 #14 – Kaiehu Rock (S)
- Sep 24 #15– 3 exc, all marked - all NW of Cement Blk - last one? - 55 ft NE of Last Fence Post (M), 120 ft W Cement Block
- Sep 28 #16– 10 ft NE of Dead Naupaka (F)
- Oct 12 #17 – 40 ft W of Last Path (E)
- Oct 12 #18 – 20 ft SE of Dick’s Path (G)
- Oct 12 #19 – 60 ft NE of Aki Grass (I)
- Oct 12 #20 – 60 ft NE of W Morning Glory (J)
- Oct 12 #21 – 60 ft NE of Turtle Ind ( R)
- Oct 12 #22 – 29 ft S of Kaiehu rock (S) beside #8 & #14

Sep 25	Fri	Mike	
Sep 26	Sat	Kathy	
Sep 27	Sun	Bill	
Sep 28	Mon	Joan	
Sep 29	Tue	Phyllis	
Sep 30	Wed	Bill	
Oct 1	Thu	Katie	
Oct 2	Fri	Mike	
Oct 3	Sat	Kathy	
Oct 4	Sun	Bill	
Oct 5	Mon	Joan	
Oct 6	Tue	Frances Ort	



6/2/2009 tracks seen on Mike's beach - came part way up beach and turned back to water

**2010**

			<b>Keys</b>	<b>Ranch waiver</b>
Mon	Lil Macmillan		yes	yes
Tues	Joan Aidem	553-5641	yes	yes
Wed	Scot Shafer	567-6796	yes	yes
Thurs	Lil Macmillan			
Friday	Mike Grinnell	553-4405	no	yes
Thurs	Kathy Tachibana	553-5458	yes	yes
Sunday	Bill Feeter	553-9857	yes	yes

**Backup**

Phyliss Siu		no	yes
Katie Leong		no	yes
Helen coelho		no	yes
Frances Ort		no	yes
Joe Kitagawa			yes
Dave & Brenda Hubka	552-0135		
Debra Maple	658-0885 / 553-3200wrk		



2010 Turtle Monitoring			est rtn	Track width	Turtle #	# pits	Est Hatch	Hatch Date	Hatch #	Incubation	Notes
04/02/10	Fri	Kathy			A1						pics - short crawls at west end of beach
04/02/10					A2						short track at water's edge - Kaiehu Rock
04/06/10	Tues	Lil			A3						short track at water's edge - Kaiehu Rock
					A4						short track at water's edge - Kaiehu Rock
					A5						Short track at water's edge - Kaiehu Rock - missing L hind flippe
04/09/10	Fri	Lil			A6						short track at water's edge - Kaiehu rock
					A7						short track at water's edge - Kaiehu rock
					A8						short track at water's edge - Kaiehu rock
					A9						short track at water's edge - Kaiehu rock
04/11/10	Sun	Bill			A10						short track at water's edge - Kaiehu rock
					A11						short track at water's edge - Kaiehu rock
04/13/10	Tues	Lil									no tracks
04/16/10	Fri	Lil			A12						short track at water's edge - Kaiehu rock
04/18/10	Sun	Bill			A13						short track at water's edge - Kaiehu rock
04/22/10	Thurs	Lil			A14						short track at water's edge - Kaiehu rock
					A15						short track at water's edge - Kaiehu rock - missing L hind flippe
04/23/10	Fri	Mike			A16						short track at water's edge - Kaiehu rock
					A17						short track at water's edge - Kaiehu rock
04/24/10	Sat	Kathy			A18						short track at water's edge - Turtle Inc
04/25/10	Sun	Bill									no tracks
04/27/10	Tues	Lil									no tracks
04/30/10	Fri	Mike			A19						short track at water's edge - Kaiehu rock
05/01/10	Sat	Kathy			A20						short track at water's edge - Kaiehu rock
					A21						short track at water's edge - Kaiehu rock
05/02/10	Sun	Bill			A22						short track at water's edge - Kaiehu rock
					A23						short track at water's edge - Kaiehu rock
05/04/10	Tues	Lil			A24						short track at water's edge - Kaiehu rock - missing L hind flippe
					A25						short track at water's edge - Kaiehu rock
					A26						short track onto dry sand - Kaiehu rock
05/06/10	Thurs	Lil			A27						short track at water's edge - Kaiehu rock
05/07/10	Fri	Mike			A28						short track at water's edge - Kaiehu rock
					A29						short track at water's edge - Turtle Inc
05/09/10	Sun	Bill			A30						short track at water's edge - Kaiehu rock
					A31						short track at water's edge - Kaiehu rock
05/11/10	Tues	Lil			A32						short track at water's edge - Kaiehu rock
					A33						short track at water's edge - Kaiehu rock - missing L hind flippe
05/13/10	Thurs	Lil									no tracks
05/14/10	Fri	Mike			A34						short track at water's edge - Aki Grass
					A35						short track at water's edge - Kaiehu rock
					A36						short track at water's edge - Kaiehu rock
<b>05/15/10</b>	<b>Sat</b>	<b>Kathy</b>	29-May		<b>1</b>	<b>2</b>	<b>7/14</b>				<b>North of Aki Grass</b>
<b>05/16/10</b>	<b>Sun</b>	<b>Bill</b>	30-May		<b>2</b>	<b>3</b>	<b>7/15</b>	<b>25-Jul</b>	<b>1</b>	<b>70</b>	<b>last one 10 E of Cement Block</b>
05/17/10	Mon	Lil			A37						short track at water's edge - Kaiehu rock
05/18/10	Tue	Joan			A38						short track at water's edge - Turtle Inc
05/19/10	Wed	Scot			A39						short track at water's edge - Kaiehu rock
05/20/10	Thu	Lil			A40						short track at water's edge - Kaiehu rock
05/21/10	Fri	Mike			A41						short track at water's edge - Kaiehu rock
05/22/10	Sat	Kathy									no tracks
05/23/10	Sun	Bill									no tracks
05/24/10	Mon	Lil			A42						short track at wate's edge - btw Kaiehu rock and Turtle Inc
					A43						short track at water's edge - Kaiehu rock - missing L hind flippe
05/25/10	Tue	Joan									no tracks
05/26/10	Wed	Scot			A44						short track at water's edge - Kaiehu rock
05/27/10	Thu	Lil									no tracks
05/28/10	Fri	Mike									no tracks
05/29/10	Sat	Kathy									no tracks
05/30/10	Sun	Bill									no tracks
<b>05/31/10</b>	<b>Mon</b>	<b>Lil</b>	14-Jun		<b>3</b>	<b>2</b>	<b>7/30</b>				<b>windblown tracks - both exc marked 3-1 10ft W of Dicks Path Down, 3-2 15ft N of East M Glory</b>
			14-Jun		<b>4</b>	<b>1</b>	<b>7/30</b>	<b>1-Aug</b>	<b>2</b>	<b>62</b>	<b>btw East M Glory and Aki Grass, 20ft N of dune</b>
					A45						short track at water's edge - Kaiehu rock
					A46						short track at water's edge - Kaiehu rock
					A47						short track at water's edge - Kaiehu rock
					A48						short track at water's edge - Turtle Inc
					A49						short track at water's edge - Kaiehu rock
06/01/10	Tue	Joan									no tracks
<b>06/02/10</b>	<b>Wed</b>	<b>Scot</b>	16-Jun	17	<b>5</b>	<b>2</b>	<b>8/1</b>	<b>10-Aug</b>	<b>3</b>	<b>69</b>	<b>32 ft N of E Morning Glory</b>
06/03/10	Thu	Lil									no tracks
06/04/10	Fri	Mike									no tracks
06/05/10	Sat	Kathy									no tracks
06/06/10	Sun	Bill									no tracks
06/07/10	Mon	Lil									no tracks
06/08/10	Tues	Joan									no tracks
06/09/10	Wed	Scot									2 short tracks Kaiehu rock & btw Kaiehu rock & Turtle Inc
06/10/10	Thurs	Lil									rained out
06/11/10	Fri	Mike			A50						short track at water's edge - Kaiehu rock
					A51						short track at water's edge - Kaiehu rock
06/12/10	Sat	Kathy									no tracks
06/13/10	Sun	Bill			A52						short track at water's edge - Kaiehu rock - missing L hind flippe
06/14/10	Mon	Lil			A53						short track at water's edge -White Cliff
					A54						short track at water's edge - Kaiehu rock
<b>06/15/10</b>	<b>Tues</b>	<b>Joan</b>	29-Jun	13	<b>6</b>	<b>3</b>	<b>8/14</b>	<b>21-Aug</b>	<b>4</b>	<b>67</b>	<b>Btw All Grass &amp; W Morning Glory - 30 ft N of dune</b>
06/16/10	Wed	Phyllis									no tracks
06/17/10	Thurs	Lil			A55						short track at water's edge - Kaiehu rock



08/20/10	Fri	Mike									no new tracks
08/21/10	Sat	Kathy									<b>Hatch #4, nest #6</b>
08/22/10	Sun	Frances & Bill	A89								short track at water's edge - Kaiehu rock
08/23/10	Mon	Phyllis									no new tracks
08/24/10	Tue	Joe									no new tracks, dead buck at water's edge - presumed drowned no visible injuries
08/25/10	Wed	Bill,Fr,Joe,Suki									<b>Dug nest #6 - 83 empty shells, 1spoiled, 1dead,1 live, no new track</b>
08/26/10	Thu	Lil		9-Sep	23	2	10/25	29-Oct	13	64	<b>36 ft n of East Morning Gl</b>
08/27/10	Fri	Mike									no new tracks
08/28/10	Sat	Kathy									no new tracks
08/29/10	Sun	Bill & Frances									no new tracks
08/30/10	Mon	Lil			24	1	10/29				<b>Between Dick's Path &amp; East Morning Glory - in dunt</b>
08/31/10	Tue	Bill			25	4	10/30				<b>28 N or Dick's Path</b>
09/01/10	Wed	Scot		15-Sep	26	1	10/31	2-Nov	14		<b>next to #21 - 50 ft N of Aki Grass</b>
					27	3	10/31				<b>100 ft N of fence post - shallow excavations</b>
											<b>Turtle #13 - Hatch #6 - (9/21 changed to hatch #6 re Turtle #9), 2 short tracks Kaiehu &amp; turtle</b>
09/02/10	Thu	Lil	A90A91								Industry
09/03/10	Fri	Mike									no tracks
09/04/10	Sat	Lil	A92A93								short tracks below high water - turtle ind & Kaiehu
09/05/10	Sun	Bill & Frances									no new tracks
09/06/10	Mon	Lil & Bill Purdue	A94								short track below high water - missing L flipper - Kaiehu rock
09/07/10	Tue	Lil, Bill & Frances									<b>Hatch #7 - nest 15, dug nest 13 - Hatch #6 - 80 empty shells, 2 dead, 5 undeveloped - in Lil's freezer (9/21 changed to Hatch #7 re nest #9</b>
09/08/10	Wed	Scot									more tracks from #15
09/09/10	Thu	Lil									6 more tracks from #15
09/10/10	Fri	Mike									3 more tracks from #15
09/11/10	Sat	Kathy									4 more tracks from #15
09/12/10	Sun	Bill									no new tracks
09/13/10	Mon	Lil & Purdues									no new tracks
09/14/10	Tue	Lil & Diane Pike									no new tracks
09/15/10	Wed	Bill,Fr,Lil, Purdues									no new tracks, <b>Bill, Frances,Purdues, &amp; Lil - dig # 15 - 61 empty, 4 undeveloped,4dead,16 livi</b>
09/16/10	Thu	Lil	A95								track onto dry sand North of Gravel Hill east of #27
09/17/10	Fri	Mike			28	1	11/16	21-Nov	15		<b>30 ft North of East morning Glory</b>
09/18/10	Sat	Diane Pike									no new tracks
09/19/10	Sun	Bill									<b>Hatch #8 - Nest #17 - (9/21 changed to HATCH #8 Re Nest #9 )</b>
09/20/10	Mon	Diane Pike									no new tracks
09/21/10	Tue	Lil & George	A96								<b>1 short track at Kaiehu Rock, dug nest #9 - no hatch reported - found 55 empty shells - renumbered hatches to include #9 as hatch #6</b>
											<b>Bill, Frances, Bill, Barb, Kathy, Joe, Joan, Lil &amp; George - guests - Joe's son, daughter inlaw, 2 grandchildren, Kathy's daughter,son inlaw,grandson, Purdue's neighbors ? Turner &amp; Tom Larson</b>
09/22/10	Wed	Scot									no new tracks
09/23/10	Thu	Lil									no new tracks
09/24/10	Fri	Mike									no new tracks
09/25/10	Sat	Phyllis									no new tracks - saw 2 pit bull type dogs running free in preserve near Sheanwater area - reported to Russell
09/26/10	Sun	Bill									no new tracks
09/27/10	Mon	Lil									no new tracks - missing center stakes for nests 20 & 23 - restaked (stakes may have been displaced when #28 was excavated)
09/28/10	Tue	Joan									<b>Hatch #9 - nest #18 high tides washed within 10 ft of nest - not able to ID the exit</b>
09/29/10	Wed	Scot									no new tracks - saw tracks from #18 - thought exit was 1 ft East of east rim of excavator
09/30/10	Thu	Lil									no new tracks - heavy rain had obscured all tracks, no trace of exit area from #11
10/01/10	Fri	Mike, Lil, Bill, Frances & Joan									<b>dug #17 81 empty shells, 1 undeveloped - in Lil's freezer, dug #18 - unable to find shell</b>
10/02/10	Sat	Kathy									no new tracks
10/03/10	Sun	Bill									<b>Hatch #10 - nest #20</b>
10/04/10	Mon	Lil									no new tracks
10/05/10	Tue	Joan									no new tracks
10/06/10	Wed	Scot									no new tracks
10/07/10	Thu	Lil, Joan, Bill, Fr, & Joe									<b>no new tracks - dug #20 - 72 empty shells</b>
10/08/10	Fri	Mike									no new tracks
10/09/10	Sat	Kathy									no new tracks
10/10/10	Sun	Bill									no new tracks
10/11/10	Mon	Lil									no new tracks
10/12/10	Tue	Joan									no new tracks
10/13/10	Wed	Scot									<b>Hatch #11 - nest #21 -exit area not clear - marked 2 possible spots</b>
10/14/10	Thu	Lil	A97								1 short track at Turtle Industry
10/15/10	Fri	Mike									<b>Hatch #12 - nest #22, 2 more tracks from #21 - marked exit area</b>
10/16/10	Sat	Kathy									not sure if Mike swept exit areas - may have been new tracks from both exit
10/17/10	Sun	Bill									no new tracks
10/18/10	Mon	Lil									no new tracks
10/19/10	Tue										beach not checked - next hatch due 10/25
10/20/10	Wed	Lil, Joan, Bill, Fr, & Diane Pike									4 new tracks from #21 - Hatch #11
											<b>Dug hatch #12 - nest #22 - 73 empty shells, 3 undeveloped, 1 dead, 2 live - released to ocean</b>
10/21/10	Thu										beach not checked - next hatch due 10/25
10/22/10	Fri	Mike									2 more tracks from #21
10/23/10	Sat	Kathy									no new tracks
10/24/10	Sun	Bill									no new tracks
10/25/10	Mon	Lil									no new tracks
10/26/10	Tue	Joan									no new tracks
10/27/10	Wed	Scot									no new tracks
10/28/10	Thu	Lil									no new tracks
10/29/10	Fri	Mike									<b>Hatch #13?? - Nest #23 Marked an exit area - windswept- no visible tracks</b>
10/30/10	Sat	Kathy									no new tracks - pictures confirm hatch exit
10/31/10	Sun	Bill									no new tracks
11/01/10	Mon	Lil									no new tracks
											<b>hatch #14 - nest #26 - marked exit &amp; swept - high surf - waves may wash over</b>
11/02/10	Tue	Joan, Lil, Bill & Fr, Diane & Guy from Kalaupapa									<b>Dug nest #23 - 70 empty shells, 3 undeveloped - in Lil's freeze</b>

11/03/10	Wed	Scot	no new tracks
11/04/10	Thu	Lil	rained out
11/05/10	Fri	Mike	rained out
11/06/10	Sat	Kathy	no new tracks
<b>11/07/10</b>	<b>Sun</b>	<b>Bill, Fr, Joan, Diane &amp; Lil</b>	<b>dug #21 - 71 empty, 2 undeveloped, 12 dead (saved 8 - 4 very decomposed), 4 live - released to ocean</b> <b>dug #26 - 73 empty, 4 undeveloped, 1 live - released to ocean</b>
11/08/10	Mon	Lil	beach not checked - next hatch due 11/16
11/09/10	Tue	Joan	beach not checked - next hatch due 11/16
11/10/10	Wed	Scot	beach not checked - next hatch due 11/16
11/11/10	Thu	Lil	beach not checked - next hatch due 11/16
11/12/10	Fri	Mike	beach not checked - next hatch due 11/16
11/13/10	Sat	Kathy	beach not checked - next hatch due 11/16
11/14/10	Sun	Bill	no tracks
11/15/10	Mon	Lil	no tracks/ found old nest washing out - 26paces East of last path down - most recent nest in that location
11/16/10	Tue	Joan	#12 2007 - no hatch recorded
11/17/10	Wed	Scot	no tracks
11/18/10	Thu	Lil	no tracks
11/19/10	Fri	Mike	no tracks
11/20/10	Sat	Kathy	no tracks
<b>11/21/10</b>	<b>Sun</b>	<b>Bill</b>	<b>Hatch #15 - Nest #28</b>
11/22/10	Mon	Lil	no new tracks
11/23/10	Tue	Joan	unable to check beach
11/24/10	Wed	Scot	unable to check beach
11/25/10	Thu	Lil	no new tracks
11/26/10	Fri	Joan, Lil, Bill & Fr, Diane & Kathy	<b>dug nest #28 - 79 empty shells 7 undeveloped</b>
11/29/10			sent frozen remains to George Balazs from nests #17, 21, 22, 23, 26, & 28

2010 Nesting Green Sea Turtle Survey Kawa'aloa Bay, Molokai, HI.

All Trips In -

Activity Date	Excavation ID #	Map ID	Aborted Tracks	Map ID	Map ID	Landmarks
					<b>East to West</b>	
4/2			A1	S	A	Pavillion
4/2			A2	S		East End
4/6			A3	S	C	Pavillion entrance
4/6			A4	S		
4/6			A5	S	D	First Path Down
4/9			A6	S	E	Last Path Down
4/9			A7	S	F	Dead Naupaka
4/9			A8	S	G	Dick's Path Down
4/9			A9	S	H	Morning Glory East
4/11			A10	S	I	Aki Grass
4/11			A11	S	J	Morning Glory West
4/16			A12	S	K	Cement Block
4/18			A13	S	L	Gravel Hill
4/22			A14	S	M	Fence Post
4/22			A15	S	N	River
4/23			A16	S	O	Swale 1
4/23			A17	S	P	Swale 2
4/24			A18	R	Q	White Cliff
4/30			A19	S	R	Turtle Industry
5/1			A20	S	S	Kaiehu Rock
5/1			A21	S		
5/2			A22	S		
5/2			A23	S		
5/4			A24	S		
5/4			A25	S		
5/4			A26	S		
5/6			A27	S		
5/7			A28	S		
5/7			A29	R		
5/9			A30	S		
5/9			A31	S		
5/11			A32	S		
5/11			A33	S		

5/14			<b>A34</b>	<b>I</b>
5/14			A35	S
5/14			A36	S
5/15	1	I		
<b>5/16</b>	<b>2</b>	<b>K</b>		
5/17			A37	S
5/18			A38	R
5/19			A39	S
5/20			A40	S
5/21			A41	S
5/24			A42	R/S
5/24			A43	S
5/26			A44	S
5/31	3	G H		
<b>5/31</b>	<b>4</b>	<b>H/I</b>		
5/31			A45	S
5/31			A46	S
5/31			A47	S
6/1			A48	R
6/1			A49	S
<b>6/2</b>	<b>5</b>	<b>H</b>		
6/11			A50	S
6/11			A51	S
6/13			A52	S
6/14			A53	Q
6/14			A54	S
<b>6/15</b>	<b>6</b>	<b>I/J</b>		
6/17			A55	S
6/18	7	J		
6/18			<b>A56</b>	<b>O</b>
6/19	8	H		



<b>hatched</b>	<b>hatch due date</b>	<i>location for last excavation dug, unless otherwise noted</i>
	14-Jul	5/15 - #1 - 2 excavations, 60 ft North of Aki Grass (I)
<b>Jul 25</b>	<b>15-Jul</b>	<b>5/16 - #2 - 3 excavations, 10 ft east of Cement Block (K)</b>
	30-Jul	5/31 - #3 - 2 excavations, #3-1 - 10 ft W Dicks Path (G), #3-2 - 15 ft N of E Morn GI (H)
<b>Aug 1</b>	<b>30-Jul</b>	<b>5/31 - #4 - 1 excavation, between E Morn GI (H) &amp; Aki Gr (I) 10 ft N from base of dune</b>
<b>Aug 10</b>	<b>1-Aug</b>	<b>6/02 - #5 - 2 excavations, 32 ft N of East Morning Glory (H)</b>
<b>Aug 21</b>	<b>14-Aug</b>	<b>6/15 - #6 - 3 excavations, between Aki Grass &amp; W Morning Glory - 30 ft N of dune</b>
	17-Aug	6/18 - #7 - 2 excavations, 65 ft NE of W Morning Glory (J)
	18-Aug	6/19 - #8 - 3 excavations, 58 ft NE of E Morning Glory (H) - 2 exc marked 10 ft apart
<b>??</b>	<b>19-Aug</b>	<b>6/20 - #9 - 2 excavations, 36 ft NE of Dead Naupaka (F)</b>
	28-Aug	6/29 - #10 - 2 excavations, 40 ft N of Swale 2 (P)
	29-Aug	6/30 - #11 - 2 excavations, 22 ft N of Aki Grass (I)
	30-Aug	7/01 - #12 - 3 excavations, 60 ft N of Swale 1 (O) - marked 2 excavations
<b>Sep 2</b>	<b>31-Aug</b>	<b>7/02 - #13 - 8 excavations, between Last Path (E) &amp; D Naupaka (F) 45 ft from dune</b>
	4-Sep	7/06 - #14 - 1 excavation, between E Morning GI (H) and Aki Gr (I) 55 ft from dune
<b>Sep 7</b>	<b>6-Sep</b>	<b>7/08 - #15 - 1 excavation, between D Naupaka (F) &amp; Dicks Path (G), 16 ft from dune</b>
	6-Sep	7/08 - #16 - 2 excavations, between Aki Gr (I) & West Morn Glory (J) - marked both excavations - #16-1 - 60 ft N of dune & 80 ft E of C Block (K) #16-2 - 25 ft North of dune
<b>Sep 19</b>	<b>14-Sep</b>	<b>7/16 - #17 - 1 excavation, 40ft NE of West Morn Glory (J), 13ft from dune</b>
<b>Sep 27</b>	<b>22-Sep</b>	<b>7/24 - #18 - 2 excavations, 5 ft West of Cement Block (K)</b>
	28-Sep	7/30 - #19 - 1 excavation, 6 ft west of East Morning Glory (H)- in dune
<b>Oct 3</b>	<b>29-Sep</b>	<b>7/31 - #20 - 1 excavation, 40 ft North of East Morning Glory (H)</b>
<b>Oct 13</b>	<b>8-Oct</b>	<b>8/09 - #21 - 1 excavation, 50 ft N of Aki Grass (I)</b>
<b>Oct 15</b>	<b>14-Oct</b>	<b>8/15 - #22 - 3 excavations, 50ft E of West Morning Glory (J) - 50 ft N of dune</b>
<b>Oct 29</b>	<b>25-Oct</b>	<b>8/26 - #23 - 2 excavations, 36 ft N of East Morning Glory</b>
	29-Oct	8/30 - #24 - 1 excavation, between Dicks P (G) & East Morning GI (H) in dune
	30-Oct	8/31 - #25 - 4 excavations, 28 ft N of Dick's path (G)
<b>Nov 2</b>	<b>31-Oct</b>	<b>9/01 - #26 - 1 excavation, 50 ft N of Aki Grass (I)</b>
	31-Oct	9/01 - #27 - 3 excavations, shallow - 100 ft N of Fence Post (M)
<b>Nov 21</b>	<b>16-Nov</b>	<b>9/17 - #28 - 1 excavation, 30 ft North of East Morning GI (H)</b>



<b>hatched</b>	<b>hatch due date</b>	<i>location for last excavation dug, unless otherwise noted</i>
	14-Jul	<b>5/15 - #1 - 2 excavations, 60 ft North of Aki Grass (I)</b>
Jul 25	15-Jul	<b>5/16 - #2 - 3 excavations, 10 ft east of Cement Block (K)</b>
	30-Jul	<b>5/31 - #3 - 2 excavations, #3-1 - 10 ft W Dicks Path (G), #3-2 -15 ft N of E Morn GI (H)</b>
Aug 1	30-Jul	<b>5/31 - #4 - 1 excavation, between E Morn GI (H) &amp; Aki Gr (I) 10 ft N from base of dune</b>
Aug 10	1-Aug	<b>6/02 - #5 - 2 excavations, 32 ft N of East Morning Glory (H)</b>
Aug 21	14-Aug	<b>6/15 - #6 - 3 excavations, between Aki Grass &amp; W Morning Glory - 30 ft N of dune</b>
	17-Aug	<b>6/18 - #7 - 2 excavations, 65 ft NE of W Morning Glory (J)</b>
	18-Aug	<b>6/19 - #8 - 3 excavations, 58 ft NE of E Morning Glory (H) - 2 exc marked 10 ft apart</b>
	19-Aug	<b>6/20 - #9 - 2 excavations, 36 ft NE of Dead Naupaka (F)</b>
	28-Aug	<b>6/29 - #10 - 2 excavations, 40 ft N of Swale 2 (P)</b>
	29-Aug	<b>6/30 - #11 - 2 excavations, 22 ft N of Aki Grass (I)</b>
	30-Aug	<b>7/01 - #12 - 3 excavations, 60 ft N of Swale 1 (O) - marked 2 excavations</b>
Sep 2	31-Aug	<b>7/02 - #13 - 8 excavations, between Last Path (E) &amp; D Naupaka (F) 45 ft from dune</b>
	4-Sep	<b>7/06 - #14 - 1 excavation, between E Morning GI (H) and Aki Gr (I) 55 ft from dune</b>
	6-Sep	<b>7/08 - #15 - 1 excavation, between D Naupaka (F) &amp; Dicks Path (G), 16 ft from dune</b>
	6-Sep	<b>7/08 - #16 - 2 excavations, between Aki Gr (I) &amp; West Morn Glory (J) - marked both excavations - #16-1 - 60 ft N of dune &amp; 80 ft E of C Block (K) #16-2 - 25 ft North of dune</b>
	14-Sep	<b>7/16 - #17 - 1 excavation, 40ft NE of West Morn Glory (J), 13ft from dune</b>
	22-Sep	<b>7/24 - #18 - 2 excavations, 5 ft West of Cement Block (K)</b>
	28-Sep	<b>7/30 - #19 - 1 excavation, 6 ft west of East Morning Glory (H)- in dune</b>
	29-Sep	<b>7/31 - #20 - 1 excavation, 40 ft North of East Morning Glory (H)</b>
	8-Oct	<b>8/09 - #21 - 1 excavation, 50 ft N of dune, Aki Grass (I) &amp; W Morning Glory(J)</b>
	14-Oct	<b>8/15 - #22 - 3 excavations, 50ft E of West Morning Glory (J) - 50 ft N of dune</b>
	25-Oct	<b>8/26 - #23 - 2 excavations, 36 ft N of East Morning Glory</b>
	29-Oct	<b>8/30 - #24 - 1 excavation, between Dicks P (G) &amp; East Morning GI (H) in dune</b>
	30-Oct	<b>8/31 - #25 - 4 excavations, 28 ft N of Dick's path (G)</b>
	31-Oct	<b>9/01 - #26 - 1 excavation, 50 ft N of Aki Grass (I)</b>
	31-Oct	<b>9/01 - #27 - 3 excavations, shallow - 100 ft N of Fence Post (M)</b>

MAY 16/10	1 no visible tags	basking at E end of beach
June 29/10	1 tags	basking at West end
July 14/10	1 tags	basking at East end of beach

**2011**

**Keys**

**Ranch waiver**

**Russell** 553-5236 ext 6589

Mon	Joan Aidem	553-5641	yes
Tues	Kathy Tachibana	553-5458	
Wed	Scot Shafer	567-6796	yes
Thurs	Lil Macmillan		
Friday	Mike Grinnell	553-4405	no
Saturday	Lil Macmillan		
Sunday	Bill Feeter	553-9857	yes

**Backup**

Phylliss Siu

Katie Leong

Helen coelho

**Diane Pike**

**567-6595**

Joe Kitagawa

Dave & Brenda Hubka 552-0135

Debra Maple 658-0885 / 553-3200wrk

2011 Turtle Monitoring	monitor	est rtn	Track width	Turtle #	# pits	Est Hatch	Hatch Date	Hatch #	Incubation	Notes
4/10/2011	Sun	Bill & Frances		A1						short basking tracks at west end of beach - monk seal basking against rocks - west end of beach
04/11/11	Mon			A2						short basking tracks at west end of beach
04/12/11	Tue									very windy
04/13/11	Wed									
04/14/11	Thu	Lil, Kathy & Dan Bennet								no tracks, refreshed all markers
04/15/11	Fri									
04/16/11	Sat									
04/17/11	Sun	Lil		A3						1 short basking track - Kaiehu rock
04/18/11	Mon									
04/19/11	Tue	Kathy								no tracks
04/20/11	Wed									
04/21/11	Thu									Lil away till May 19th
04/22/11	Fri	Mike		A4						1 short basking track at Kaiehu Rock
04/23/11	Sat									
04/24/11	Sun	Bill & Frances								no tracks
04/25/11	Mon									
04/26/11	Tue	Kathy								no tracks
04/27/11	Wed									
04/28/11	Thu									
04/29/11	Fri	Mike								no tracks
04/30/11	Sat									
05/01/11	Sun	Bill & Frances								no tracks
05/02/11	Mon									
05/03/11	Tue	Kathy								no turtle tracks - ATV tracks not fresh
05/04/11	Wed									
05/05/11	Thu									
05/06/11	Fri	Mike								no tracks
05/07/11	Sat									
05/08/11	Sun	Bill & Frances								no tracks
05/09/11	Mon									
05/10/11	Tue	Kathy		A5						short basking tracks at Kaiehu rock - pics - fresh ATV tracks - cc to Russel
				A6						short basking tracks at Kaiehu rock - pics
				A7						short basking tracks at Kaiehu rock - pics
05/11/11	Wed									
05/12/11	Thu									
05/13/11	Fri	Mike								no tracks
05/14/11	Sat									
05/15/11	Sun	Bill & Frances		A8						faint short basking track at Kaiehu rock
05/16/11	Mon									
05/17/11	Tue	Kathy								
05/18/11	Wed									
05/19/11	Thu									
05/20/11	Fri	Mike								no tracks
05/21/11	Sat									
05/22/11	Sun	Bill & Frances		A9						1 short basking track at Kaiehu rock
05/23/11	Mon									
05/24/11	Tue	Kathy		A10						short basking track at Kaiehu rock
				A11						
05/25/11	Wed									
05/26/11	Thu	Lil & Diane		A12						short basking track at Kaiehu rock
				A13						short basking track at Kaiehu rock - appeared to have one damaged flipper on left side
				A14						short basking track at Kaiehu rock
05/27/11	Fri	Mike								no tracks
05/28/11	Sat									
05/29/11	Sun	Bill & Frances								no tracks
05/30/11	Mon									
05/31/11	Tue	Kathy		A15						short basking track - pic between R & S
06/01/11	Wed									
06/02/11	Thurs	Lil		A16						short basking track at Kaiehu rock - damaged left flipper
				A17						short aborted track - below high water 30 ft east of kaiehu rock
06/03/11	Fri	Mike								no tracks
06/04/11	Sat									
06/05/11	Mon									
06/06/11	Wed	Lil								no turtle tracks, ATV tracks 1 - 2 days old, drove length of beach & into dune areas - lots of doughnuts
06/09/11	Thu									
06/10/11	Fri	Mike								no tracks
06/11/11	Sat	Lil								no tracks
06/12/11	Sun	Bill & Frances								no tracks
06/13/11	Mon									
06/14/11	Tue	Kathy								no tracks
06/15/11	Wed									
06/16/11	Thu	Lil		A18						short basking track at Kaiehu Rock
06/17/11	Fri	Mike		A19						short basking track at Kaiehu Rock
06/18/11	Sat	Lil								no tracks
06/19/11	Sun	Bill & Frances		A20						short basking track at Kaiehu Rock
06/20/11	Mon									
06/21/11	Tue	Kathy								no tracks
06/22/11	Wed	Lil		A21						short basking track at Kaiehu Rock
06/23/11	Thu									
06/24/11	Fri	Mike		A22						short basking track at Kaiehu Rock
06/25/11	Sat	Lil		A23						short basking track at Kaiehu Rock
06/26/11	Sun	Bill & Frances & Joe		A24						short basking track at Kaiehu Rock
06/27/11	Mon									
06/28/11	Tue	Kathy		A25						short basking track at Kaiehu Rock

06/29/11	Wed										A26	short basking track at Kaiehu Rock
06/30/11	Thu	Lil										no tracks
07/01/11	Fri	Mike										no tracks
07/02/11	Sat	Lil										didn't go - wet road, threatening cloud
07/03/11	Sun	Bill & Frances										no tracks
07/04/11	Mon											
07/05/11	Tue	Kathy										no tracks
07/06/11	Wed											
07/07/11	Thu	Lil										rain - didn't get out
07/08/11	Fri	Mike									A27	short basking track at Kaiehu Rock
07/09/11	Sat	Lil										no tracks
07/10/11	Sun											
07/11/11	Mon											
07/12/11	Tue	Kathy									A28	short basking track at Kaiehu Rock
07/13/11	Wed											
07/14/11	Thu	Lil										no tracks
07/15/11	Fri	Mike										no tracks
07/16/11	Sat											
07/17/11	Sun	Bill & Frances	31-Jul	1	2	9/15	17-Sep	1	62			40 ft NE of W Morning Gl, 20 ft N of dune
07/18/11	Mon	Lil									A29	short basking track at kaiehu rock
											A30	short basking track at kaiehu rock
07/19/11	Tue	Kathy									A31	short basking track at kaiehu rock
07/20/11	Wed											
07/21/11	Thu	Diane										no new tracks
07/22/11	Fri	Mike										no new tracks
07/23/11	Sat											
07/24/11	Sun	Bill & Frances									A32	short basking track at Kaiehu Rock
											A33	short basking track at Kaiehu Rock
07/25/11	Mon											
07/26/11	Tue	Kathy										
07/27/11	Wed											
07/28/11	Thu	Diane										
07/29/11	Fri	Mike										
07/30/11	Sat											
07/31/11	Sun	Bill & Frances									A34	rain - Helen & katie didn't go
08/01/11	Mon	Helen & Katie	15-Jul									shallow exc at edge of sand bank between B & I
												N of B - on edge of sand bank
												last path down - tracked up to dune
												40 paces NW of Cement Block near high tide zone
												between White cliff & turtle ind - near high tide zone
08/02/11	Tue	Kathy										
08/03/11	Wed	Phyllis	17-Jul	5	1	10/1	10/3	2	62			80 ft NE of last path down
08/04/11	Thu	Diane										
08/05/11	Fri	Mike										
08/06/11	Sat											
08/07/11	Sun	Bill & Frances										7/31 exc & #2 washed out
08/08/11	Mon											
08/09/11	Tue	Kathy									A36	basking track at Kaiehu rock
08/10/11	Wed	Lil										no new tracks
08/11/11	Thu	Diane										no new tracks
08/12/11	Fri	Mike										no new tracks
08/13/11	Sat											
08/14/11	Sun	Bill & Frances										no new tracks
												no new tracks, walked to end of Preserve to look for excavation reported to have been dug 8/10 - nothir clear, one shallow area that may have been a shallow excavation at very end by cliffs at highest part of sand near rocks
08/15/11	Mon	Lil & Helen										
08/16/11	Tue											
08/17/11	Wed	Lil	31-Aug	6	2	10/16						btwn first & last paths down - 100 ft E of #5 - 2nd exc very shallow - on way out - expect her to return tonight to make her nest
08/18/11	Thu	Diane	1-Sep	7	3	10/17	20-Oct	3	63			18 ft E of Fence Post M - long track several shallow digs
08/19/11	Fri	Mike										no new tracks
08/20/11	Sat	Lil									A37	short basking track at Kaiehu Rock
08/21/11	Sun	Bill & Frances										no new tracks
08/22/11	Mon											
08/23/11	Tue	Kathy										no new tracks
08/24/11	Wed											
08/25/11	Thu	Diane										no new tracks
08/26/11	Fri	Mike										no new tracks
08/27/11	Sat											
08/28/11	Sun	Bill & Frances									A38	short basking track at Kaiehu Rock
											A39	short basking track at Kaiehu Rock
											A40	short basking track at Kaiehu Rock
08/29/11	Mon											
08/30/11	Tue	Kathy										no new tracks
08/31/11	Wed	Lil										no new tracks, met Kama - camping at east end of beach, first met him 20th- had seen turtle at Preserv beach previous week
												no new tracks, ATV tracks the length of the beach, several fishermen with nets - Mac & Keif Apo wer there
09/01/11	Thu	Diane										no new tracks, met Kief - no fisherman
09/02/11	Fri	Mike										short track and shallow exc near water - Aki Grasi
09/03/11	Sat	Lil										
09/04/11	Sun	Bill & Frances	18-Sep	8		11/3	6-Nov	4	63			1 excavation North of B
09/05/11	Mon	Lil										no new tracks
09/06/11	Tue	Kathy										no new tracks
09/07/11	Wed											
09/08/11	Thu	Diane										no new tracks
09/09/11	Fri	Mike									A42	short basking tracks at west end
											A43	short basking tracks at west end
											A44	short basking tracks at west end

A45

09/10/11	Sat	Lil, Helen & Katie	short basking tracks at west end
09/11/11	Sun	Bill & Frances	no new tracks, big surf - washed over #6
09/12/11	Mon	Helen & Katie	no new tracks
09/13/11	Tue	Phyllis	
09/14/11	Wed	Lil	
09/15/11	Thu	Diane	#1 due
09/16/11	Fri	Mike	
09/17/11	Sat	Lil	#1 hatched - lots of clear tracks, distinct exit are!
09/18/11	Sun	Bill & Frances	no new tracks
09/19/11	Mon		
09/20/11	Tue	Lil	no new tracks
09/21/11	Wed	Margaret	dig #1 - Lil, Bill & Fr, Joe, Kathy & friends, Margaret & Charlie, Helen, Diane - 69 empty shells, 1 dead Lil's freezer for George
09/22/11	Thu		
09/23/11	Fri	Mike	no new tracks
09/24/11	Sat		
09/25/11	Sun		
09/26/11	Mon		
09/27/11	Tue	Margaret	no new tracks
09/28/11	Wed	Lil	no new tracks, #4 washed awa)
09/29/11	Thu	Lil	no new tracks
09/30/11	Fri	Mike	no new tracks
10/01/11	Sat	Lil	#5 due - no new tracks
10/02/11	Sun	Bill & Frances	no new tracks
10/03/11	Mon	Lil	#5 hatched - lots of tracks & distinct exit area 76 * N of center stake
10/04/11	Tue		
10/05/11	Wed		
10/06/11	Thu	Lil	no new tracks
			dig #5 - Lil, Margaret & 2 friends, Joan, Helen & granddaughter Anna, Diane & Val, - 64 empty, undeveloped, 1 dead, 2 live & released
10/07/11	Fri		
10/08/11	Sat		
10/09/11	Sun		
10/10/11	Mon		
10/11/11	Tue		<b>Lil away till November 8 - Frances to take over</b>
10/12/11	Wed	Margaret	no new tracks
10/13/11	Thu	Diane	no new tracks
10/14/11	Fri	Mike	no new tracks
10/15/11	Sat	Phyllis	no new tracks
10/16/11	Sun	Bill & Frances	no new tracks
10/17/11	Mon	Katie	no new tracks
10/18/11	Tue	Helen	no new tracks
10/19/11	Wed	Phyllis	no new tracks
10/20/11	Thu	Diane	<b>#7 hatched</b>
10/21/11	Fri	Mike	no new tracks
10/22/11	Sat	Margaret	no new tracks
10/23/11	Sun	Bill & Frances	no new tracks
10/24	Mon	Helen	dug #7 - Bill & Frances, Diane, Margaret & Helen - 70 empty shell
10/25/11	Tue		
10/26/11	Wed		
10/27/11	Thu		
10/28/11	Fri		
10/29/11	Sat		
10/30/11	Sun		
10/31/11	Mon	Bill & Frances	no new tracks
11/01/11	Tue	Helen	no new tracks
11/02/11	Wed	Margaret	no new tracks
11/03/11	Thu	Diane	no new tracks
11/04/11	Fri	Mike	no new tracks
11/05/11	Sat	Margaret	no new tracks
11/06/11	Sun	<b>Bill &amp; Frances</b>	<b>#8 hatched</b>
11/07/11	Mon		
11/08/11	Tue		
11/09/11	Wed	Lil	Dug #8 - Lil, Margaret, Helen, Diane, Joan, Bil & Frances - 48 empty shells, 5 undeveloped - in Lil freezer,

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All Trips In -

Activity Date	Excavation ID #	Map ID	Basking tracks	Map ID	Aborted Tracks	Map ID	Map ID	Landmarks
4/11			A1	S			A	Pavillion
4/11			A2	S			B	East End
4/17			A3	S			C	Pavillion entrance
4/22			A4	S			D	First Path Down
5/10			A5	S			E	Last Path Down
5/10			A6	S			F	Dead Naupaka
5/10			A7	S			G	Dick's Path Down
5/15			A8	S			H	Morning Glory East
5/22			A9	S			I	Aki Grass
5/24			A10	S			J	Morning Glory West
5/24			A11	S			K	Cement Block
5/26			A12	S			L	Gravel Hill
5/26			A13	S			M	Fence Post
5/26			A14	S			N	River
5/31			A15	RS			O	Swale 1
6/2			A16	S			P	Swale 2
6/2					A17	S	Q	White Cliff
6/16			A18	S			R	Turtle Industry
6/17			A19	S			S	Kaiehu Rock
6/19			A20	S				
6/22			A21	S				
6/24			A22	S				
6/25			A23	S				
6/26			A24	S				
6/28			A25	S				
6/28			A26	S				
7/8			A27	S				
7/12			A28	S				
<b>7/17</b>	<b>1</b>	<b>I/J</b>						
7/18			A29	S				
7/18			A30	S				
7/19			A31	S				
7/24			A32	S				

7/24			A33	S		
7/31					A34	B/C
8/1					A35	E
8/1	2	B				
8/1	3	L				
8/1	4	Q/R				
<b>8/3</b>	<b>5</b>	<b>E</b>				
8/9			A36	S		
8/17	6	D/E				
<b>8/18</b>	<b>7</b>	<b>M</b>				
8/20			A37	S		
8/28			A38	S		
8/28			A39	S		
8/28			A40	S		
9/3					A41	I
<b>9/4</b>	<b>8</b>	<b>B</b>				
9/9			A42			
9/9			A43			
9/9			A44			
9/9			A45			



<u>Date</u>	<u>Nest #</u>	<u>Map</u> <u>Location</u>	<u># of Pits</u>	<u>Est Hatch</u> <u>(60 days)</u>	<u>Hatch Date</u>	<u>Days</u> <u>Incubated</u>	<u>Hatch #</u>		<u>Dig Date</u>	<u>Dig Count</u>	<u>spoiled/</u> <u>undeveloped</u>	<u>Dead</u>	<u>Live</u>	<u>Successful</u> <u>Hatches</u>
7/17/11	1	I/J	2	9/15	9/17	62	1		9/21	69		1		68
8/1/11	2	B	1	9/29										
8/1/11	3	L	2	9/29										
8/1/11	4	Q/R	1	9/29										
8/3/11	5	E	1	10/1	10/3	62	2		10/7	67	3	1	2	63
8/17/11	6	D/E	2	10/16										
8/18/11	7	M	3	10/17	10/20	63	3		10/24	70				70
9/4/11	8	B	1	11/3	11/6	63	4		11/9	53	5			48
										259	8	2	2	249
NOTES -	#2	shallow excavation in sand bank near water's edge - washed out												
	#3	shallow excavation - washed out by high surf												
	#4	shallow excavation - washed out by high surf												
	#6	washed over by high surf												



<b>Mike</b>	<b>553 - 4405</b>			
<b>Diane Pike</b>	<b>567 - 6595</b>			<b>due Oct 17</b>
<b>Helen Coelho</b>	<b>567 - 6468</b>			<b>due Nov 3</b>
<b>Katie Leong</b>	<b>553 - 5269</b>			
<b>Phyllis</b>	<b>553 - 4489</b>			
<b>Margaret</b>	<b>553 - 9946</b>			
<b><u>date</u></b>	<b><u>day</u></b>	<b><u>monitor</u></b>	<b><u>nest #</u></b>	<b><u>hatch #</u></b>
10/11/11	Tues			
10/12/11	Wed	Margaret		
10/13/11	Thurs	Diane		
10/14/11	Fri	Mike		
10/15/11	Sat	Phyllis		
10/16/11	Sun	Bill & Frances		
10/17/11	Mon	Katie		
10/18/11	Tue	Helen		
10/19/11	Wed	Phyllis		
10/20/11	Thu	Diane		
10/21/11	Fri	Mike		
10/22/11	Sat	Margaret		
10/23/11	Sun	Bill & Frances		
10/24/11	Mon	Helen		
10/25/11	Tue	Margaret		
10/26/11	Wed			
10/27/11	Thu	Diane		
10/28/11	Fri	Mike		
10/29/11	Sat			
10/30/11	Sun	Bill & Frances		
10/31/11	Mon			
11/01/11	Tue	Helen		
11/02/11	Wed	Margaret		
11/03/11	Thu	Diane		
11/04/11	Fri	Mike		
11/05/11	Sat	Margaret		
11/06/11	Sun	Bill & Frances		
11/07/11	Mon	Phyllis		
11/08/11	Tue	Margaret		
11/09/11	Wed	Lil		

#7 - 18 ft East of Fence Post - M

#8 - East end of beach - North of B

Notes -

**2012**

**Keys**

**Russell** 553-5236 ext 6589

Mon	Lil Macmillan		yes
Tues	Kathy Tachibana		yes
Wed	Helen Coelho		yes
Thurs	Lil Macmillan		
Friday	Mike Grinnell	553-4405	no
Saturday	Diane Pike	567-6595	yes
Sunday	Bill Feeter	553-9857	yes

**Backup**

Phyliss Siu  
Joe Kitagawa

2012 Turtle Monitoring	monitor	est rtn	Track width	Turtle #	# pits	Est Hatch	Hatch Date	Hatch #	Incubation	Notes
3/23/12	Fri	Wailana Moses		A1						basking turtle sighted during beach cleanup - stayed on beach "a couple of hours" sent pictu
4/17/12	Tues	Lil & Kathy	45	1	2	10-Jun	14-Jun	1	?	<b>17 paces NW of B in dune edge - looked to be at least a couple of days old, first day of monitoring, refreshed all location markers.</b> <b>very windswept - no sign of tracks or mound - possible excavation - in trail above beach approx 100ft E of Last Path - E - assuming it was dug same time as #1 watch as if it was dug 2 weeks prior to #1 - est hatch June 1</b>
4/17/12	Tues			A2	2	1-Jun				basking track at Kaiehu rock - appeared to have a deformed L hind flipper
04/20/12	Fri	Mike								no new tracks
04/22/12	Sun	Bill & Frances								no new tracks
04/24/12	Tues	Lil	10-May	A3	3	1	25-Jun	28-Jun	2	63
04/26/12	Thurs	Lil		A4						basking track at Kaiehu rock - appeared to have a deformed L hind flipper
04/27/12	Fri	Mike								shallow excavation 7ft NW of B
04/28/12	Sat	Diane		A5						long track up to dune between C & E
04/29/12	Sun	Bill & Frances								no new tracks
04/30/12	Mon	Lil		A6						basking track at kaiehu rock - appeared to have a deformed L hind flipper/ loaned Helen my key she will go Tuesdays
05/01/12	Tue	Helen		A7						basking track at kaiehu rock - deformed hind flipper
05/02/12	Wed									beach not checkec
05/03/12	Thu	Lil								rained out
05/04/12	Fri	Mike	17-May	A8	4	2	1-Jul			<b>against rock cliffside at west end of beach - not fresh</b>
05/05/12	Sat	Diane								basking track at Kaiehu rock
05/06/12	Sun	Bill & Frances								no new tracks, sent pics of #4
05/07/12	Mon	Lil								no new tracks, marked both #4 exc - tracks washed away , very long mound. Seal tracks at fa east end of beach no seal sighted
05/08/12	Tue									beach not checkec
05/09/12	Wed	Helen								no new tracks
05/10/12	Thu	Lil		A9						short basking track at Kaiehu rock , 1 set of fresh seal tracks at east end of beach no seal sighte
05/11/12	Fri	Mike		A10						short basking track at Kaiehu rock
05/12/12	Sat									beach not checkec
05/13/12	Sun	Bill & Frances								no new tracks
05/14/12	Mon	Lil	28-May	45	5	1	13-Jul			<b>shallow excavation overlapping #3</b>
05/15/12	Tue	Helen	29-May	45	6	1	14-Jul	15-Jul	3	61
05/16/12	Wed									long track up to dune between C & E
05/17/12	Thu	Lil								30 ft East of C in dune edge
05/18/12	Fri	Mike								beach not checkec
05/19/12	Sat									no new tracks
05/20/12	Sun	Bill & Frances								beach not checkec
05/21/12	Mon	Lil								no new tracks
05/22/12	Tue	Helen								no new tracks
05/23/12	Wed									beach not checkec
05/24/12	Thu	Lil								no new tracks
05/25/12	Fri	Mike								no new tracks
05/26/12	Sat									beach not checkec
05/27/12	Sun	Bill & Frances		A12						long track at C several shallow shuffles
05/28/12	Mon	Lil		A13						basking track at Kaiehu rock
05/29/12	Tue	Helen	12-Jun	40	7	2	7/28			basking track at Kaiehu rock
05/30/12	Wed		13-Jun	40	8	1	7/29			<b>10 ft South of Kaiehu pointed rock</b>
05/31/12	Thu	Lil	13-Jun	40	9	2	7/29			<b>beach not checked - found June 1st 60ft west of first path down - D in edge of dune</b>
06/01/12	Fri	Mike	15-Jun		10	1	7/31			<b>found June 1st - 30 ft west of last path down - E in edge of dune</b>
06/01/12	Fri	Mike		A15						rained out
06/02/12	Sat	Diane	16-Jun		11	2	8/1			<b>45 ft west of white cliff - Q - at base of dune</b>
06/02/12	Sat	Diane		A16						<b>long track along base of cliff at Kaiehu rock thru nest 4, several very shallow digs</b>
06/03/12	Sun	Bill & Frances	17-Jun		12	1	8/2	30-Jul	4	57
06/04/12	Mon	Lil								long track up to dune at C
06/05/12	Tue									<b>10 ft east of B</b>
06/06/12	Wed	Lil								no new tracks
06/07/12	Thu									<b>beach not checked</b>
06/08/12	Fri	Mike								no new tracks
06/09/12	Sat	Diane								<b>Russell - watch for loose dogs - attack on sheerwaters Wed &amp; Thurs</b>
06/10/12	Sun	Bill & Frances								no new tracks
06/11/12	Mon	Lil								no new tracks
06/12/12	Tue									no new tracks
06/13/12	Wed	Lil								beach not checkec
06/14/12	Thu	Helen								no new tracks
06/15/12	Fri	Mike	29-Jun	13	2	8/14				hatch #1 - nest #1 - not from marked excavation, from shallow exc at edge of kiaw
06/16/12	Sat	Diane	29-Jun	14	2	8/14				<b>2 shallow exc 10 ft North of nest #5</b>
06/17/12	Sun	Bill & Frances	30-Jun	15	2	8/15				<b>100 ft North of Turtle Industry</b>
06/18/12	Mon	Lil	1-Jul	16	1	8/16				<b>2 excavations, between Dick's Path and East Morning Glory</b>
06/19/12	Tue									<b>30 ft N of edge of dune, 40 ft SE of Kaiehu rock (S) - very long mound</b>
06/20/12	Wed	Lil, Helen, Bill, Frances, Diane, Joan								checked beach all the way to the west end of the preserve - reports of fresh excavation 6/13 - n sign very strong winds Sunday
06/21/12	Thu									short basking track at S, winds had erased all sign of #15, 2 new tracks from nest 1, repacet marker 3 & 5 and hatch markers - went missing from Sunday am to Mon am
06/22/12	Fri									beach not checkec
06/23/12	Sat									<b>dig nest #1 - 84 empty shells, 1 spoiled egg - in Lil's freezer</b>
06/24/12	Sun									track up to dune, very shallow scuffing at edge of Kiawe at
06/25/12	Mon									track up and onto of dune, very shallow scuffing East of nest #
06/26/12	Tue									<b>1 exc, dug onto of #9-1, appeared to be shallow</b>
06/27/12	Wed									<b>1 exc 40 ft S of Dead Naupaka in edge of dune</b>
06/28/12	Thu									<b>2 exc, in base of dune 100ft E of Swale 1 (O)</b>
06/29/12	Fri									halfway up beach at White Cliff (Q)
06/30/12	Sat									short basking track at Kaiehu rock - deformed flipper on L sid

Date	Day	Person(s)	Start Date	End Date	Track Count	Excavation Count	Track Date	Excavation Date	Other	Notes
06/21/12	Thu	Helen	5-Jul		A22	20	3	8/20		track up to dune, very shallow scuffing at edge of Kiawe at <b>directly below C - in base of dune</b>
			5-Jul			21	2	8/20		<b>between First &amp; Last Paths in base of dune - 140 ft East of E, 16 ft East of nest #2</b>
			5-Jul			22	2	8/20		<b>Top of dune 35 and 40 ft South East of Gravel Hill marker - not sure which was last one dug</b>
06/22/12	Fri	Mike	6-Jul		A23	23	1	8/21	8/14	<b>1 shallow exc: 15 ft E of B - beside #12</b>
										track above high water, between First & Last path
										track above high water, at Swale one - may have been a small turtle or seal tracks - narrow and n deep
06/23/12	Sat	Diane			A24					didn't go - rain
06/24/12	Sun	Bill & Frances	8-Jul		24	2	8/22	8/27	6	<b>beside nest #16 - 45ft SE of Kaiehu Rock</b>
06/25/12	Mon	Lil								no new tracks
06/26/12	Tue	Lil								no new tracks - refreshed all markers - nests and location
06/27/12	Wed	Helen								no new tracks
06/28/12	Thu	Lil & Helen								<b>Hatch #2 - nest #3 - looked to be small number of tracks, walked to west end of preserve beaches - found recent excavation - gps'd, staked - number 6281 (June 28 first exc)</b>
06/29/12	Fri	Mike								no new tracks
06/30/12	Sat	Diane								no new tracks
07/01/12	Sun	Bill & Frances								one new hatchling track from nest :
07/02/12	Mon	Lil								no new tracks, gps'd all excavations to date
07/03/12	Tue	Lil	17-Jul		25	3	9/1			<b>very shallow excavations, last one in #4</b>
										<b>beach not checked 4th, exc found 5th - very windswept unable to tell which was last marked all 4 exc</b>
07/04/12	Wed		18-Jul		26	4	9/2			<b>two large exc at base of upper dune at Swale 1 (O) very long mound on last exc</b>
07/05/12	Thu	Lil	19-Jul		27	2	9/3			no new tracks
07/06/12	Fri	Mike								no new tracks
07/07/12	Sat	Diane								no new tracks
07/08/12	Sun	Bill & Frances			A25					long track up to the dune edge at Swale 1 and retur
					A26					long track crossed thru nests 4,7,16, & 24 and returned - no diggin
07/09/12	Mon	Lil								no new tracks, monk seal basking at water's edge at East Morning Glor
07/10/12	Tue		24-Jul		28	2	9/8	13-Sep	7	<b>60 ft North of Aki Grass (I) - beach not checked, found 7/11 -windswept but tracks still visible found #28, checked preserve beaches, found 4 false crawls &amp; two excavations - adz trail down and Keonelele 250 ft West of June 28 excavation</b>
07/11/12	Wed	Lil								no new tracks
07/12/12	Thurs	Helen								no new tracks
07/13/12	Fri	Mike								no new tracks
07/14/12	Sat	Cyrus Siu								no new tracks
07/15/12	Sun	Bill & Frances								<b>Hatch #3 - Nest #6 - small number of tracks visible, exit area marked</b>
07/16/12	Mon	Lil			A27					short basking track at Kaiehu Rock - deformed L flippe
07/17/12	Tues	Kathy								more tracks from nest #6
07/18/12	Wed	Helen								no new tracks
07/19/12	Thurs	Lil								7 more tracks from #6
07/20/12	Fri	Mike	3-Aug		29	2	9/18	27-Sep	8	<b>1 more track from #6, 2 exc at Gravel Hill - last one shallow with long shallow mound</b>
07/21/12	Sat	Lil								several more tracks from Nest #6
07/22/12	Sun	Bill & Frances								no new tracks
07/23/12	Mon	Lil								no new tracks
07/24/12	Tue	Kathy								no new tracks
07/25/12	Wed	Helen								no new tracks
07/26/12	Thu	Lil	9-Aug		30	2	9/24			<b>30 ft NW of Dead Naupaka</b>
										long track up to dune 60ft West of First Path (D)
07/27/12	Fri	Mike	10-Aug		31	1	9/25			<b>40 ft S of Dead Naupaka in edge of dune</b>
										<b>32-1 28 ft N of Dead Naupaka, 32-2 10 ft N of Dead Naupaka, 32-3 30 ft NW of Dead Naupaka</b>
										<b>overlapping #30. 32-4 53 ft SW of Dead Naupaka</b>
										<b>dug nest 3 &amp; 6 #3-90 empty shells, 1 unhatched, #6 - 74 empty, 4 unhatched, 2 live</b>
07/28/12	Sat	Phyllis								no new tracks
07/29/12	Sun	Bill & Frances								no new tracks
07/30/12	Mon	Helen								<b>Hatch #4 - Nest #12 no other activity</b>
07/31/12	Tue	Kathy								may have been more tracks - hard to tell
08/01/12	Wed	Lil								<b>7 new tracks out of #6 - 7th came out as I was watching!</b>
08/02/12	Thu	Lil								<b>2 tracks from #12</b>
08/03/12	Fri	Mike								<b>2 new tracks from #12</b>
08/04/12	Sat	Diane			A29					Basking track at River
					A30					false crawl on shore at White Cliff
08/05/12	Sun	Bill & Frances			33	3	10/4	7-Oct	9	<b>very long track, 3 exc at base of dune E of Swale 1, last one 50 ft E - very long mound</b>
08/06/12	Mon	Lil								no new tracks
08/07/12	Tue	Kathy								no new tracks
08/08/12	Wed	Lil			A31					basking track at kaiehu rock
08/09/12	Thu	Lil			A32					basking track at kaiehu rock
08/10/12	Fri	Mike								no new tracks
08/11/12	Sat	Bill & Frances								no new tracks
08/12/12	Sun	Diane								no new tracks
08/13/12	Mon	Helen								no new tracks
08/14/12	Tue	Kathy								<b>Hatch #5 - Nest #23 10 - 12 tracks</b>
08/15/12	Wed	Lil			A33					<b>8-10 tracks from #23, 1 dead at surface, basking track at Kaiehu rock - deformed L flipper</b>
08/16/12	Thu	Lil			A34					<b>15 - 20 tracks from #23, basking track at Kaiehu rock - deformed L flipper</b>
08/17/12	Fri	Mike								more tracks from nest #23
08/18/12	Sat	Diane								more tracks from nest #23
08/19/12	Sun	Bill & Frances								no new tracks
08/20/12	Mon	Lil			A35					tracked along the cliffside at the west end of the beach thru #4
08/21/12	Tue	Kathy			34	3	10/20			<b>very long track, 3 exc top of dune 60 ft SW of Dicks Path (G) - still digging on way out very long track, 2 exc top of dune at Gravel Hill - exit track had multiple shallow digs, 1 more track from #23</b>
08/22/12	Wed	Lil			35	2	10/21			up to dune at D, many shallow digging attempts
08/23/12	Thu	Lil								no new tracks
08/24/12	Fri	Mike			A36					<b>top of dune 12 ft West of Swale 1 in morning glory</b>
08/25/12	Sat	Diane								no new tracks
08/26/12	Sun	Bill & Frances								no new tracks
08/27/12	Mon	Lil								possible hatch #6 Nest 24 - no tracks - rain may have erased, but a possible exit area
08/28/12	Tue	Kathy								checked Kalani nest 628 - no tracks, large exit area indentation
08/29/12	Wed	Lil								no new tracks
08/30/12	Thu	Lil, Bill, Frances, Joe & family, Phyllis & nephew, Mike & Joan								<b>#6 hatch - Nest 24 lots of tracks from exit seen on monday dug nest #12 - 99 empty shells, 3 spoiled egg &amp; 2 dead</b>

08/31/12	Fri	Mike	dug nest #23 - 81 empty shells, 5 unhatched/spoiled, 10 dead & 6 live
09/01/12	Sat	Diane	7 more tracks from #23
09/02/12	Sun	Bill & Frances	no new tracks
09/03/12	Mon	Lil, Bill, Frances, Joe & family, Helen, Diane & Russell	2 new tracks from 24
09/04/12	Tue	Kathy	no new tracks
09/05/12	Wed	Phyllis	dug hatch #6 - nest 24 - 97 empty, 21 undeveloped, 1 dead -dug Kalnai 628
09/06/12	Thu	Joe	no new tracks
09/07/12	Fri	Mike	no new tracks
09/08/12	Sat	Diane	no new tracks
09/09/12	Sun	Bill & Frances	no new tracks
09/10/12	Mon	Helen	no new tracks
09/11/12	Tue	Kathy	no new tracks
09/12/12	Wed	Mike	no new tracks
09/13/12	Thu	Diane	hatch #7 - nest 28
09/14/12	Fri	Mike	6 tracks from nest 28
09/15/12	Sat	Diane	no new tracks
09/16/12	Sun	Bill & Frances	no new tracks
09/17/12	Mon	Helen	no new tracks
09/18/12	Tue	Kathy	no new tracks
09/19/12	Wed	Mike	no new tracks
09/20/12	Thu	Bill & Frances	no new tracks
09/21/12	Fri	Lil	no new tracks
09/22/12	Sat	Diane	no new tracks, found hatch at Arch site from unmarked nest approx exc date July 24
09/23/12	Sun	Lil, Bill, Frances, Diane, Margaret, Butch & family, & Ricki Cooke	dug #29 - 96 empty shells, 5 unhatched, 3 dead & 2 live
09/24/12	Mon	Lil	no new tracks, found dead hatchling on beach west of kalani point, checked hatch found
09/25/12	Tue	Kathy	Saturday at arch site
09/26/12	Wed	Margaret	no new tracks
09/27/12	Thu	Lil	no new tracks
09/28/12	Fri	Mike	Hatch #8 - nest 29
09/29/12	Sat	Diane	no new tracks
09/30/12	Sun	Bill & Frances	no new tracks
10/01/12	Mon	Helen	no new tracks
10/02/12	Tue	Kathy	no new tracks
10/03/12	Wed	Margaret	no new tracks
10/04/12	Thu	Lil, Bill & Fr, Diane, Helen, Margaret, Joe & Joe jnr, Hubkas, Algiams, Julie's grand daughter, & Reese	no new tracks, dug #29 - 91 empty, 1 undeveloped dug Kalani 8/22 hatch - 67 empty, 27 undeveloped
10/05/12	Fri	Mike	no new tracks
10/06/12	Sat	Diane	no new tracks
10/07/12	Sun	Bill & Frances	Hatch #9 - nest 33
10/08/12	Mon	Lil	no new tracks, checked Preserve for hatches
10/09/12	Tue	Kathy	no new tracks
10/10/12	Wed	Margaret	no new tracks
10/11/12	Thu	Helen	no new tracks
10/12/12	Fri	Mike	no new tracks
10/13/12	Sat	Diane	no new tracks
10/14/12	Sun	Bill & Frances, Helen, Margaret & Lil	no new tracks, dug #33 - 75 empty, 2 undeveloped & 1 live Margaret checked Preserve beaches for hatches
10/15/12	Mon	Lil	no new tracks, checked Preserve for hatches found 816 hatch exit area, no tracks
10/16/12	Tue	Kathy	no new tracks
10/17/12	Wed	Margaret	no new tracks
10/18/12	Thu	Helen	no new tracks
10/19/12	Fri	Mike	no new tracks
10/20/12	Sat	Lil	no new tracks
10/21/12	Sun	Bill & Frances	no new tracks
10/22/12	Mon	Lil	no new tracks
10/23/12	Tue	Kathy	no new tracks
10/24/12	Wed	Margaret	no new tracks
10/25/12	Thu	Helen	no new tracks
10/26/12	Fri	Mike	no new tracks
10/27/12	Sat	Lil	no new tracks
10/28/12	Sun	Bill & Frances	no new tracks
10/29/12	Mon	Lil	#36 Hatched - Hatch #10, checked Kalani - no new tracks
10/30/12	Tue	Kathy	didn't go - rain
10/31/12	Wed	Margaret	no new tracks, checked kalani - no new tracks
11/01/12	Thu	Lil	no new tracks, checked Kalani - no new tracks
11/02/12	Fri	Lil	
11/03/12	Sat		
11/04/12	Sun		
11/05/12	Mon	Lil, Bill & Fr, Helen, Margaret, Georgie & Marilyn	dug #36 - 73 empty, 1 dead, 2 undeveloped, 1 live, Kalani - dug 816 - 80 empty, 1 undeveloped, 831 Hatched
11/06/12	Tue		
11/07/12	Wed		
11/08/12	Thu		
11/09/12	Fri		
11/10/12	Sat		
11/11/12	Sun		
11/12/12	Mon		
11/13/12	Tue		
11/14/12	Wed		
11/15/12	Thu		
11/16/12	Fri		
11/17/12	Sat		
11/18/12	Sun		
			dug kalani 831-



2012 Nesting Green Sea Turtle Survey Kawa'aloa Bay, Molokai, HI.

All Trips In -

Activity Date	Excavation ID #	Map ID	Basking tracks	Map ID	False Crawls	Map ID	Map ID	Landmarks
							East to West	
3/23			A1	S			A	Pavillion
4/17	1	B	A2	S			B	East End
4/17	2	D/E					C	Pavillion entrance
4/24			A3	S			D	First Path Down
4/26	3	B			A4	B/C	E	Last Path Down
4/28			A5	S			F	Dead Naupaka
4/30			A6	S			G	Dick's Path Down
5/1			A7	S			H	Morning Glory East
5/4	4	S	A8	S			I	Aki Grass
5/10			A9	S			J	Morning Glory West
5/11			A10	S			K	Cement Block
5/14	5	B			A11	C/D	L	Gravel Hill
5/15	6	C					M	Fence Post
5/27			A13	S	A12	C	N	River
5/28			A14	S			O	Swale 1
5/29	7	S					P	Swale 2
5/30	8	D					Q	White Cliff
5/30	9	E/F					R	Turtle Industry
6/1	10	Q			A15	S	S	Kaiehu Rock
6/2	11	E/F			A16	C		
6/2								
6/3	12	B						
6/15	13	B						
6/15	14	R						
6/16	15	G/H						
6/17	16	S						
6/18					A17	S		
6/20	17	E			A18	B		
6/20	18	F			A19	C		
6/20	19	N/O	A21	S	A20	Q		
6/21	20	C			A22	B		
6/21	21	D/E						
6/21	22	L						
6/22	23	B			A23	C/D		

6/22					A24	O
6/24	24	S				
7/3	25	S				
7/4	26	E				
7/5	27	O				
7/8					A25	O
7/8					A26	S
7/10	28	I				
7/16			A27	S		
7/20	29	L				
7/26	30	F			A28	D
7/27	31	F				
7/27	32	F				
8/4			A29	N	A30	Q
8/5	33	O				
8/8			A31	S		
8/9			A32	S		
8/15			A33	S		
8/16			A34	S		
8/20					A35	S
8/21	34	G/H				
8/22	35	L				
8/23					A36	D
8/24	36	O				

Date	Trip #	Map Location	# of Pits	Est Hatch (60 days)	Hatch Date	Days Incubated	Hatch #	Dig Date	Dig Count	spoiled/ undeveloped	Dead	Live	Successful Hatches
4/16/12	1	B	2	10-Jun	?	14-Jun	1	6/20	85	1			84
4/16/12	2	D/E	1	10-Jun	?								
4/26/12	3	B	1	25-Jun		28-Jun	2	7/27	91	1			90
5/2/12	4	S	2	1-Jul									
5/14/12	5	B	1	13-Jul									
5/15/12	6	C	1	14-Jul		15-Jul	3	7/27	78	4		2	74
5/29/12	7	S	2	28-Jul									
5/30/12	8	D	1	29-Jul									
5/30/12	9	E	2	29-Jul									
6/1/12	10	Q	1	31-Jul									
6/2/12	11	E	2	1-Aug									
6/3/12	12	B	1	2-Aug		30-Jul	4	8/29	102	3	2		97
6/15/12	13	B	2	14-Aug									
6/15/12	14	R	2	14-Aug									
6/16/12	15	G/H	2	15-Aug									
6/17/12	16	S	1	16-Aug									
6/20/12	17	E	1	16-Aug									
6/20/12	18	F	1	19-Aug									
6/20/12	19	N/O	2	19-Aug									
6/21/12	20	C	3	20-Aug									
6/21/12	21	D/E	2	20-Aug									
6/21/12	22	L	2	20-Aug									
6/22/12	23	B	1	21-Aug		14-Aug	5	8/29	86	5	10+1	6	71
6/24/12	24	S	1	22-Aug		27-Aug	6	9/3	97	21	1		75
7/3/12	25	S	3	1-Sep									
7/4/12	26	E	4	2-Sep									
7/5/12	27	O	2	2-Sep									
7/10/12	28	I	2	8-Sep		13-Sep	7	9/23	101	5	3	2	93
7/20/12	29	L	2	18-Sep		27-Sep	8	10/4	91	1			90
7/26/12	30	F	2	24-Sep									
7/27/12	31	F	1	25-Sep									
7/27/12	32	F	4	25-Sep									
8/5/12	33	O	3	4-Oct		7-Oct	9	10/14	77	2		1	75
8/21/12	34	G/H	3	20-Oct									
8/22/12	35	L	2	21-Oct									
8/24/12	36	O	1	23-Oct		29-Oct	10	11/5	75	2	1	1	72
									883	45	18	12	821

2012 nesting trips - Kawa'aloa						
hatched	hatch due date	exc date	hatch #	nesting trip		
6/14	6/14	4/15	1	1	2 exc , 1 shallow 20 ft W of B, deeper one - 40 ft east of B in edge of dune - shallow excavation was nest!	
	6/1, 6/14	4/15 ?		2	100 ft East of Last Path (E) in edge of dune cutting into trail	
6/28	6/25	4/26	2	3	7 ft NW of B	
	7/1	5/2		4	base of cliff edge at base of path down from rock shelter - west end of beach	
	7/13	5/14		5	10 ft NW of B overlapping nest 3	
7/15	7/14	5/15	3	6	30 ft East of C in edge of dune	
	7/28	5/29		7	10 ft South of Kaiehu Rock	
	7/29	5/30		8	60 ft West of First Path (D) in edge of dune	
	7/29	5/30		9	45 ft West of Last path (E) in edge of dune	
	7/31	6/1		10	60 ft West of White Cliff (Q) at base of dune	
	8/1	6/2		11	30 ft West of Last Path (E) in edge of dune	
7/29	8/2	6/3	4	12	10 ft East of B in edge of Kiawe thicket	
	8/14	6/15		13	2 exc 20 ft North of B	
	8/14	6/15		14	2 exc 100 ft North of Turtle Ind ( R)	
	8/15	6/16		15	2 exc Between Dick's Path (G) & East Morning Glory in dune (H)	
	8/16	6/17		16	40 ft SE of Kaiehu rock (S), 30 ft N of the edge of dune	
	8/19	6/20		17	20 ft SW of Last Path (E) in edge of dune - overtop 9-1	
	8/19	6/20		18	40 ft S of Dead Naupaka (F), in edge of dune	
	8/19	6/20		19	in base of dune 100 ft E of 1st swale (O)	
	8/20	6/21		20	directly below marker C in base of dune	
	8/20	6/21		21	2 exc between First & Last Paths in base of dune - 140 ft East of E, 16 ft East of nest #2	
	8/20	6/21		22	2 exc top of dune 35 and 40 ft South East of Gravel Hill marker	
8/14	8/21	6/22	5	23	1 shallow exc, 15 ft E of B - beside nest #12	
8/27	8/22	6/24	6	24	45 ft SE of Kaiehu Rock, beside nest #16	
	9/1	7/3		25	in #4 at base of cliff at West End of beach	
	9/2	7/4		26	4 exc, all at Last Path Down (E) 3 at the base of the trail, on the S side of the marker and 1 to the North of marker E	
	9/3	7/5		27	40 ft S of Swale 1 (O) at base of dune, very long mound - marked end of mound with 2 short sticks	
9/13	9/8	7/10	7	28	60 ft North of Aki Grass (I)	
9/27	9/18	7/20	8	29	11 ft SW of Gravel Hill marker (L) near top of hill on North side	
	9/24	7/26		30	30 ft NW of Dead Naupaka (F) - overlapped by #32 used same stake	
	9/25	7/27		31	40 ft South of Dead Naupaka (F) in base of dune	
	9/25	7/27		32	4 exc, not sure which was last - all marked 28 ft N of F, 10ft NW of F, 30 ft NW of F, 53 ft SW of F	
10/7	10/4	8/5	9	33	base of dune 50 ft E of Swale 1 (O)	
	10/20	8/21		34	top of dune 60 ft SW of Dick's Path (G)	
	10/21	8/22		35	top of Gravel Hill (L)	
	10/23	8/24		36	top of dune 12 ft West of Swale 1 (O)	

			Due Date	Nest #	
			9/1	25	3 excavations, last one in #4 at base of cliff at Kaiehu Rock (S)
Mike	553 - 4405		9/2	26	4 excavations, all at Last Path Down (E) all marked, uncertain which was last dug
Diane Pike	567 - 6595		9/3	27	2 excavations, S of Swale 1 (O) at base of dune,
Helen Coelho	567 - 6468		9/8	28	2 excavations, 60 ft North of Aki Grass (I)
Kathy	553 - 5458		9/18	29	2 excavations, 20 ft NW of Gravel Hill marker (L) at base of hill
Phyllis	553 - 4489		9/24	30	2 excavations, 30 ft NW of Dead Naupaka (F)
Joe			9/25	31	1 excavation, 40 ft South of Dead Naupaka (F) in base of edge of dune
			9/25	32	4 excavations, not sure which was last - all marked 28 ft N of F, 10ft NW of F, 30 ft NW of F, 53 ft SW of
<u>date</u>	<u>day</u>	<u>monitor</u>	<u>hatch #</u>	<u>nest #</u>	<u>Notes -</u>
9/5	Wed	Phyllis			
9/6	Thu	Joe			
9/7	Fri	Mike			
9/8	Sat	Diane			
9/9	Sun	Bill & Frances			
9/10	Mon	Helen			
9/11	Tue	Kathy			
9/12	Wed	Mike			
9/13	Thu	Diane			
9/14	Fri	Mike			
9/15	Sat	Diane			
9/16	Sun	Bill & Frances			
9/17	Mon	Helen ?			
9/18	Tue	Kathy			
9/19	Wed	Mike			
9/20	Thu	Phyllis			
9/21	Fri	Lil			

**Preserve Beaches East & West of Kalani Point**

<u>Date</u>	<u>Trip #</u>	<u>Map</u> <u>Location</u>	<u># of Pits</u>	<u>Est Hatch</u> <u>(60 days)</u>	<u>Hatch Date</u>	<u>Days</u> <u>Incubated</u>	<u>Hatch #</u>	<u>Dig Date</u>	<u>Dig Count</u>	<u>spoiled/</u> <u>undeveloped</u>	<u>Dead</u>	<u>Live</u>	<u>Successful</u> <u>Hatches</u>
6/13/12		West K		12-Aug									
6/16/12		West K		15-Aug									
6/28/12	628	West K	1	27-Aug	28-Aug	61	1	3-Sep	90	10	2	1	78
7/9/12	709	East K	1	7-Sep									
7/11/12	710	West K	1	8-Sep									
		East K			22-Sep		2	4-Oct	94	27			67
		West K			24-Sep		3				1		
8/16/12	816	West K	4	15-Oct	15-Oct	60	4	5-Nov	81	1			80
8/27/12	827	East K	3	26-Oct									
8/31/12	831	West K	3	30-Oct	5-Nov	66	5	15-Nov	72	2			70
									337	40	3	1	295

**Notes**

unable to record exact location of excavations reported June 13 & 16

Hatch 2 from unrecorded nest

Hatch 3 from unrecorded nest, found dead hatchling beside crab hole. Many crab & hatchling tracks, unable to find exit area of nest

2012 Prese	monitor	false	Trip #	excs	Est Hatch	Hatch Date	Hatch #	Incubation	dig date	dig count	undeveloped	dead	live	successful hatches
13-Jun Mac Poepoe		<b>false</b>												
16-Jun Debs Maple		<b>crawls</b>												
<b>28-Jun Lil &amp; Helen</b>			<b>628</b>	<b>1</b>	<b>27-Aug</b>	<b>28-Aug</b>	<b>1</b>	<b>61</b>	<b>3-Sep</b>	<b>90</b>	<b>10</b>	<b>2</b>	<b>1</b>	<b>78</b>
8-Jul Wailana	2													
9-Jul Wailana			709	1	7-Sep									
11-Jul Lil			710	1	8-Sep									
			<b>724 ?</b>			<b>22-Sep</b>	<b>2</b>		<b>4-Oct</b>	<b>94</b>	<b>27</b>			<b>67</b>
						<b>24-Sep</b>	<b>3</b>					<b>1</b>		
<b>16-Aug Ed</b>			<b>816</b>	<b>4</b>	<b>15-Oct</b>	<b>15-Oct</b>	<b>4</b>	<b>60</b>	<b>5-Nov</b>	<b>81</b>	<b>1</b>			<b>80</b>
27-Aug Lil			827	4	26-Oct									
<b>31-Aug Lil / Ed</b>			<b>831</b>	<b>2</b>	<b>30-Oct</b>	<b>5-Nov</b>	<b>5</b>	<b>66</b>	<b>15-Nov</b>	<b>72</b>	<b>2</b>			<b>70</b>
										<b>337</b>	<b>40</b>	<b>3</b>	<b>1</b>	<b>295</b>

## Notes

excavations at west end of Preserve - Keonelele - not marked

TNC hike reported fresh excavations at beach below arch site - not marked

**fresh exc, long mound staked. Aug 27 no sign of hatch, Aug 29 no tracks - rain, but distinct exit area**

west of kalani Point - still visible 7/11

below arch site - marked

200 ft west of 628 - beach to west of Kalani Point

**unknown exc date, Diane found hatch at base of dune approx 10 ft South of 827 marker**

**unknown exc date, Lil found dead hatchling and several tracks near nest 628 west of Kalani pt unable to find exit**

**long mound - marked exc & mound - 45 ft East of 628/ found exit area for hatch -no tracks, nest had been checked day before for hatch**

windblown - maybe several days old - two trips could only ID one last exc - marked

**found 9/3 windblown - maybe several days old -Ed saw it 8/31 - looked fresh then**



May 7/12	Lil	no seal sighted, fresh tracks at far east end of beach
May 10/13	Lil	no seal sighted, fresh tracks at far east end of beach
July 09/12	Lil	seal basking close to water's edge - Morning Glory East
July 15/12	Bill & Fi	seal basking close to water's edge - Morning Glory East

**2013**

**Keys**

**Russell** 553-5236 ext 6589

Mon	Bill Feeter	553-9857	yes
Tues	Kathy Tachibana		yes
Wed	Helen Coelho		yes
Thurs	Lil Macmillan		
Friday	Mike Grinnell	553-4405	
Saturday	Diane Pike	567-6595	yes
Sunday	Lil Macmillan	553-9857	yes

**Backup**

Phyliss Murakami-Siu  
Joe Kitagawa  
Margaret Marcom  
Camie Kimbal

2013 Turtle Monitoring	monitor	est rtn	Track width	Turtle #	# pits	Est Hatch	Hatch Date	Hatch #	Incubation	Notes	
4/9	Tues	Lil								B = basking, FC = false crawl no activity, refreshed all markers	
4/13	Sat	Lil								no activity	
4/17	Wed	Lil								no activity	
4/20	Sat	Lil								no activity	
4/22	Mon	Margaret		B1						Kaiehu Rock below high tide line	
4/25	Thurs	Margaret									
4/27	Sat	Diane		B2						between Swale 1 & White Cliff	
4/29	Mon	Margaret		B3						Turtle Industry	
5/2	Thurs	Margaret		B4							
5/4	Sat	Diane		B5							
5/8	Wed	Helen								no new activity	
5/9	Thu	Margaret								no new activity	
5/10	Fri	Mike								no new activity	
5/11	Sat	Diane								rain - no go	
5/12	Sun										
5/13	Mon	Bill & Frances								too wet	
5/14	Tue										
5/15	Wed	Helen		B6						Turtle Industry	
5/16	Thu	Margaret	5/30		1	1	7/15			shallow, close to water	
5/17	Fri	Mike	5/31		2	1	7/16			N of Aki Grass, close to water	
					3	1	7/16			N of Aki Grass, close to water	
5/18	Sat	Margaret	6/1		4	2	7/17			N of Dead Naupaka, still digging on way out	
				A1						N or Gravel Hill	
5/19	Sun		6/2		5	1	7/18	7/26	1	68	NE of East Morning Glory - beach not checked 19th, found 20th
5/20	Mon	Bill & Frances									no new activity
5/21	Tue										
5/22	Wed	Helen									no new activity
5/23	Thu	Phyllis									no new activity
5/24	Fri	Mike									no new activity
5/25	Sat										
5/26	Sun	Kathy									no new activity
5/27	Mon	Bill & Frances									no new activity
5/28	Tue	Kathy									no new activity
5/29	Wed	Helen									no new activity
5/30	Thu	Phyllis									no new activity
5/31	Fri	Mike									no new activity
6/1	Sat										
6/2	Sun	Phyllis									no new activity
6/3	Mon	Bill & Frances	6/17		6	1	8/2				50 ft NE of Morning Glory East
			6/17		7	1	8/2				60 ft NE of Morning Glory East - 7 ft west of #6
6/4	Tue	Kathy		B7							Kaiehu Rock
6/5	Wed	Helen	6/19		8	1	8/4				30 ft E of Cement Block
				A2							long track N of Gravel Hill
6/6	Thu	Lil	6/20		9	2	8/5	8/12	2	67	40 ft NW of East Morning Glory
6/7	Fri	Mike		B8							Kaiehu Rock
6/7	Fri	Mike		B9							Kaiehu Rock
6/8	Sat	Diane									no new activity
6/9	Sun	Lil		B10							Kaiehu Rock
6/10	Mon	Bill & Frances		B11							Kaiehu Rock - deformed L hind flipper
6/11	Tue	Kathy		B12							no new activity
				B13							Kaiehu Rock
				B14							Kaiehu Rock
6/12	Wed	Lil & Camie Kimbal									no new activity
6/13	Thu	Helen									no new activity
6/14	Fri	Mike		B15							Kaiehu Rock
6/15	Sat	Diane									no new activity
6/16	Sun	Lil		B16							Kaiehu Rock
				B17							Kaiehu Rock
6/17	Mon	Bill & Frances									no new activity
6/18	Tue	Kathy									no new activity
6/19	Wed	Helen		B18							Kaiehu Rock
6/20	Thu	Lil									no new activity
6/21	Fri	Mike	7/5		10	3	8/20				36 ft west of Dead Naupaka still looking on way out
6/22	Sat	Lil	7/6		11	4	8/21				100 ft N of Aki Grass - very shallow dig at turn around
				A3							60 ft N of fence post - still looking on way out
6/23	Sun	Lil	7/7		12	4	8/22				100 ft N of dune between E Morning Glory & Aki Grass - very shallow dig at turn around
6/24	Mon	Bill & Frances	7/8		13	3	8/23	26-Aug	3	63	30 ft S of Cement Block - still looking on way out
				B 19							between Aki Grass & W Morning gl 30 ft N of dune
6/25	Tue	Lil									Turtle Industry
6/26	Wed	Helen									no new activity
6/27	Thu										no new activity
6/28	Fri	Mike									no new activity
6/29	Sat	Diane		B20							Kaiehu Rock
				B21							Kaiehu Rock
6/30	Sun	Lil									no new activity
7/1	Mon	Bill & Frances									
7/2	Tue	Kathy									Kaiehu Rock
7/3	Wed	Helen									no new activity
7/4	Thu	Lil		B23/24							Kaiehu Rock
7/5	Fri	Mike									no new activity
7/6	Sat	Diane									no new activity
7/7	Sun	Lil & Camie									no new activity
7/8	Mon	Bill & Frances		B25 A5							Basking tr at Kaiehu, false crawl N of River



9/28	Sat	Diane	
9/29	Sun	<b>Lil, Camie, Diane, Bill, Frances, Margaret &amp; Kat</b>	<b>dug #19 - shallow nest, 84 empty shells, 4 undeveloped (1 broken &amp; not saved), 1 dead - decomposed - partial body</b>
9/30	Mon		
10/1	Tue		
10/2	Wed		
10/3	Thu		
10/4	Fri		
10/5	Sat		
10/6	Sun	Lil	
10/7	Mon	Helen	
10/8	Tue	Margaret	
10/9	Wed	<b>Bill &amp; Frances</b>	<b>Hatch #6 - Trip #20 windblown tracks, unable to find exit</b>
10/10	Thu	Lil	2 more tracks out - located exit
10/11	Fri		
10/12	Sat	Diane	1 track
10/13	Sun		
10/14	Mon		
10/15	Tue	Margaret	no new tracks
10/16	Wed		
10/17	Thu	<b>Lil, Bill, Margaret &amp; Kat &amp; Marilyn</b>	<b>dig #20 - Hatch #6 - 93 empty shells, 3 undeveloped &amp; 2 live - 1 very vigorous, 1 had a problem with front flipper</b>
10/18	Fri		
10/19	Sat		
10/20	Sun		
10/21	Mon	Lil	no new tracks
10/22	Tue	Margaret	no new tracks
10/23	Wed	Bill & Frances	#21 hatched - hatch #7
10/24	Thu	Lil	several more tracks out
10/25	Fri	Mike	no new tracks
10/26	Sat		
10/27	Sun		
10/28	Mon		
10/29	Tue		
10/30	Wed	<b>Lil, Camie, Diane, Margaret, Marilyn &amp; Kat</b>	<b>dig #21 Hatch #7 - 93 empty shells, 4 undeveloped, 4 dead</b>

2013 Nesting Green Sea Turtle Survey Kawa'aloa Bay, Molokai, HI.

All Trips In -

Activity Date	Excavation ID #	Map ID	Basking tracks	Map ID	False Crawls	Map ID	Map ID	Landmarks
4/22			1	S				
4/27			2	P/Q			A	Pavillion
4/29			3				B	East End
5/2			4	P			C	Pavillion entrance
5/4			5	S			D	First Path Down
5/15			6	R				
5/16	1	H					E	Last Path Down
5/17	2	L					F	Dead Naupaka
5/17	3	L					G	Dick's Path Down
5/18	4	F			1	L	H	Morning Glory East
5/19	5	H					I	Aki Grass
6/3	6	H					J	Morning Glory West
6/3	7	H					K	Cement Block
6/4			7	S			L	Gravel Hill
6/5	8	K			2	L	M	Fence Post
6/6	9	H					N	River
6/7			8	S			O	Swale 1
6/7			9	S			P	Swale 2
6/9			10	S			Q	White Cliff
6/9			11	S			R	Turtle Industry
6/11			12	S			S	Kaiehu Rock
6/11			13	S				
6/11			14	S				
6/14			15	S				
6/16			16	S				
6/16			17	S				
6/19			18	S				
6/21	10	F/G			3	I		
6/22	11	M			4	H/I		
6/23	12	L						
6/24	13	I/J	19	R				
6/29			20	S				
6/29			21	S				
7/2			22	S				
7/4			23	S				

7/4			24	S		
7/8			25	S	5	N
7/9	14	H	26	S		
7/10	15	K			6	O/P
7/10	16	K/M				
7/11	17	H/I				
7/12			27/28	S		
7/15			29	S		
7/20			30	S		
7/20			31	S		
7/25			32	S		
7/25			33	S		
7/26	18	K			7	I
7/27	19	M/N			8	M/N
8/5			34	S		
8/8			35	S		
8/11	20	F				
8/17			36	S		
8/26	21	K			9	K/M







Kathy	553 - 5458	Tuesday		
Helen Coelho	567 - 6468	Wednesday		
Margaret		Thursday	till May 16	
Phyllis	553 - 4489	Thursday	May 23 & 30	
Mike	553 - 4405	Friday		
Diane Pike	567- 6595	Saturday		
<b>date</b>	<b>day</b>	<b>monitor</b>	<b>nest #</b>	<b>notes - # of pits, location of nests, false crawls &amp; basking tracks</b>
4/29	Mon	Margaret		
4/30	Tue	Kathy		
5/1	Wed	Helen		
5/2	Thu	Margaret		
5/3	Fri	Mike		
5/4	Sat	Diane		
5/5	Sun			
5/6	Mon	Bill & Frances		
5/7	Tue	Kathy		
5/8	Wed	Helen		
5/9	Thu	Margaret		
5/10	Fri	Mike		
5/11	Sat	Diane		
5/12	Sun			
5/13	Mon	Bill & Frances		
5/14	Tue	Kathy		
5/15	Wed	Helen		
5/16	Thu	Margaret		
5/17	Fri	Mike		
5/18	Sat	Diane		
5/19	Sun			
5/20	Mon	Bill & Frances		
5/21	Tue	Kathy		

**Preserve Beaches East & West of Kalani Point**

<b>Date</b>	<b>Trip #</b>	<b>Map Location</b>	<b># of Pits</b>	<b>Est Hatch (60 days)</b>	<b>Hatch Date</b>	<b>Days Incubated</b>	<b>Hatch #</b>	<b><u>Dig Date</u></b>	<b><u>Dig Count</u></b>	<b><u>spoiled/ undeveloped</u></b>	<b><u>Dead</u></b>	<b><u>Live</u></b>	<b><u>Successful Hatches</u></b>
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2012 Prese	monitor	false	Trip #	excs	Est Hatch	Hatch Date	Hatch #	Incubation	dig date	dig count	undeveloped	dead	live	successful hatches
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12-Jun checked beaches - no sign of activity

**Notes**

**2014**

**Keys**

**Russell** 553-5236 ext 6589

Mon	Helen Coelho	553-9857	yes
Tues	Lil Macmillan		yes
Wed	Camie Kimbal		yes
Thurs	Lil Macmillan		
Friday	Mike Grinnell	553-4405	
Saturday	Diane Pike	567-6595	yes
Sunday	Bill & Frances Feeter	553-9857	yes

**Backup**

Kathy Tachibana	yes
Phyliss Murakami-Siu	
Margaret Marcom	
Kat Damron	

2014 Turtle Monitoring		monitor	est rtn	Track width	Turtle #	# pits	Est Hatch	Hatch Date	Hatch #	Incubation	Notes
B = basking, FC = false crawl											
4/17					A1						Kaiehu Rock
4/20	Sun	Bill & Frances			1	2	6/20				between M & N - shallow top of sand berm
					2	2	6/20	28-Jun	1	68	between M & N - at edge of sand berm
4/21	Mon	Margaret									no new tracks - basking track at kalani Point
4/22	Tue	Lil									no new tracks
4/23	Wed	Camie									no new tracks
4/24	Thu	Margaret									no new tracks
4/25	Fri	Mike			A2						turtle came out of water a few feet and turned back - at 1
4/26	Sat	Diane			A3						large male basking at Kaiehu rock - distinctive scar in shell - :
4/27	Sun	Bill & Frances									no new tracks
4/28	Mon	Helen									no new tracks - turtle basking at kalani pt - Brian sent pictures
4/29	Tue	Lil									beach not checked - rair
4/30	Wed	Camie			A4						basking track S nothing new at Kawa'aloa walked to kalani - found eggs on surface, lots of crab activity - see pictures - contacted Russell & George - Russell & Kief investigated - turtle had been butchered, old tires used as table
5/1	Thu	Margaret									no new tracks
5/2	Fri	Mike									no new tracks
5/3	Sat	Diane			A5						basking turtle west end - had scar in shell same as 4/26
5/4	Sun	Bill & Frances									no new tracks
5/5	Mon	Lil & Kat			A6						1 short basking track at R
5/6	Tue	Diane			3	2	7/5	8-Jul	2	63	40 ft E of H in base of dune
5/7	Wed	Camie			A7-10	4	7/6				55 ft South of S, 4 basking tracks between S & R
5/8	Thu	Margaret									no new tracks - checked to Kalani - 1 aborted track
5/9	Fri	Mike			A11						1 basking track at S
5/10	Sat	Margaret									no new tracks
5/11	Sun	Bill & Frances			A12						1short loop N /M
5/12	Mon	Helen			A13						1short loop N / M
5/13	Tue	Margaret									no new tracks
5/14	Wed	Camie			A14						basking track Q/R
5/15	Thu	Margaret			5	2					25 ft North of S - WASHED OUT - rain
5/16	Fri	Mike									didn't go - two flat tires on road down
5/17	Sat	Kathy									no new tracks
5/18	Sun	Bill & Frances			6	1					North of A - very close to water - WASHED OUT - tides
5/19	Mon	Helen									no new tracks
5/20	Tue	Kathy									no new tracks
5/21	Wed	Camie			A15						looping track at S
5/22	Thu	Margaret			7	2	7/21				70 ft ESE of F - checked Kalani - new exc 5/22
					8	1					30 ft North of S - WASHED OUT - rain
5/23	Fri	Mike			A16						white Cliff
5/24	Sat	Diane									rain
5/25	Sun	Bill & Frances									between P&C
5/26	Mon	Helen			A17						65 ft NW of D - WASHED OUT - tides
5/27	Tue	Kathy			10	1					15 ft West of M - hard ground, looks shallow
					11	1	7/26	28-Jul	4	62	30 ft East of B at edge of klawe
5/28	Wed	Diane			9	2	7/27				32 ft East of West Morning gl
5/29	Thu	Margaret			12	1	7/28	27-Jul	3	59	no new tracks
5/30	Fri	Mike									no new tracks
5/31	Sat	Diane									no new tracks
6/1	Sun	Bill & Frances			13	2	7/31	3-Aug	5	63	90 ft N or Swale 2 (P)
					14	2	7/31				75 ft East of S - wet from surf - Julio
6/2	Mon	Helen									no new tracks
6/3	Tue	Kathy									no new tracks
6/4	Wed	Kat			15	3	8/3				16 ft NE of eastern side of S wet from surf - checked Kalani, fresh exc E of Preserve Path down
					A18						Kaiehu Rock
6/5	Thu	Margaret			16	2	8/4				in bank 30 ft West of C
6/6	Fri	Mike									no new tracks
6/7	Sat	Kathy									no new tracks
6/8	Sun	Kat			17	1	8/7	9-Aug	6	62	64 ft North of West Morning Glory (J)
6/9	Mon	Kathy			18	3	8/8				between D&E, approx 150 ft East of E
6/10	Tue	Helen			19	2	8/9	10-Aug	7	61	5 ft South of marker P - Swale 2
6/11	Wed	Diane									no new tracks
6/12	Thu	Lil			20	4	8/11				25 ft West of Gravel Hill marker L
6/13	Fri	Mike			21	2	8/12				60 ft N of Swale 2 (P) waves washed up to it
6/14	Sat	Bradford			22	4	8/13	8/15	8	62	between Cement Block & fence post
6/15	Sun	Kat									no new tracks - checked to Kalani
					23	1	8/15				125 ft NW of fence post low on beach sand - approx 30 ft E of #1&2 - 2 shallow digs on the way out - WASHED OUT - surf
6/16	Mon	Helen									80 ft N of (P) - wet from surf - checked Kalani - new excavation at Preserve path down -1 day old
6/17	Tue	Lil			24	3	8/16				long track no digging on Kalani - day old
6/18	Wed	Camie									no new tracks - checked to Kalani
6/19	Thu	Lil			25	3	8/17				110 ft North of Swale 2 (P) - wet from surf
6/20	Fri	Mike			26	3	8/19				North of Gravel Hill
6/21	Sat	Kath & Bradford									no new tracks
6/22	Sun	Kat			27	5	8/21				100 ft NE of Fence Post (M) - wet from surf
6/23	Mon	Helen			28	2	8/22	25-Aug	9	63	between Dick's Path & East Morning Glory - 14ft North of dune base - long mound
6/23					29	3	8/22	26-Aug	10	64	92 ft NE of Swale 1
6/23					30	3	8/22				base of Kaiehu rock -SE corner - very moist sand -wet from surf
6/24	Tue	Lil									no new tracks
6/25	Wed	Camie									no new tracks
6/26	Thu	Lil									rained out
6/27	Fri	Mike									no new tracks
6/28	Sat	Bradford			A19						#2 Hatched - Hatch #1, basking track at S

6/29	Sun	Bill & Frances		31	1	8/28	29-Aug	11	61	NE of Fence Post in edge of dune
6/30	Mon	Camie								2 more tracks from #2, no nesting activity
7/1	Tue	Lil	A20							basking track at S, checked Kalani - 2 new trips at arch path down staked 1 - looks 1 day old, W
7/2	Wed	Helen		32	2	8/31				Kalani, 3 new trips, staked 2 - both a few days old, 1 with very shall dig not marked - fresh
7/3	Thurs	Lil								18 ft NE of Kalehu Rock - WASHED OUT - surf, no new tracks from #2
7/4	Fri	Mike		33	1	9/3				no new tracks, water in bottom of #32, checked Kalani - 2 fresh false crawls at W
				34	4	9/3				Kalani, with exc but digging on way out
				35	1	9/3				75 ft West of B - WASHED OUT - surf
7/5	Sat	Diane		36	1	9/3	9/2	12	59	60 ft N of Fence post
7/5	Sat	Lil, Diane, Helen, Mike, Bill & Frances, & guests								10 ft N of S - WASHED OUT - surf
7/6	Sun	Bill & Frances	A21							overtop #18 - between D&E in side of dune
7/7	Mon	Helen		37	4	9/5	9/2	13	57	dug #2 nest - 107 empty, 2 dead & 2 live - all 4 near bottom of nest
										between P & Q
										30 ft S of Cement Block
										Hatch #2 - nest 3 - exit area only, no tracks visible, shallow last exc between P & Q
7/8	Tue	Lil & Helen		38	6	9/6				near the water - washed out - surf
7/9	Wed	Camie		39	5	9/7				2 more tracks from #3, 80 ft N of R - last exc very shallow - wet from surf
7/10	Thurs	Lil								no new tracks
										no new hatch tracks, exc 30 ft west of Cement Block plus 4 very shallow diggings,
7/11	Fri	Mike		40	1	9/9				last one staked but looked shallow
7/12	Sat	Diane		41	5	9/10				East of Kalehu Rock, still digging on way out - wet from surf
7/13	Sun	Bill & Frances		42	1	9/11				30 ft NNE of Last Path Down - E
			A22							First Path down up to top of dune and back
			A23							North of Fence Post
7/14	Mon	Helen		43	5	9/12				between Dick's path G and East Morning glory H in top of dune by Kiewae 60 ft SE of H
7/15	Tue	Lil		44	5	9/13	9/9	14	56	in base of dune overlapping #12 - 40 ft E of Gravel Hill - L
										dug #3 Hatch #2 - 100 empty shells, 10 dead, 7 undeveloped, 3 live (one still in shell) dead w/
										near surface, live at bottom, sand was quite moist - no tracks visible from initial hatch presume a
7/16	Wed	Lil, Helen, Bill, Frances, Diane, Camie								heavy rain shower had washed them out.
										checked Kalani - 2 aborted tracks at East K, new excavation btw 522 & 604 West K
7/17	Thurs	Lil		45	4	9/15				12 ft West of C in base of dune at the bottom of the Pavilion path down partially washed out - surf
7/18	Fri	Mike	A24							basking track at S
7/19	Sat	Diane								no new tracks
7/20	Sun									not checked - rain
7/21	Mon	Lil								no new tracks, checked Kalani - 522 due - 2 aborted tracks at East Kalani arch trail
7/22	Tues	Helen		46	2	9/19	9/17	15	58	32 ft SE of Cement Block
				47	4	9/19				35 ft North of S - shallow & very close to water - washed out - surf
7/23	Wed	Camie								no new tracks
7/24	Thu	Lil								no new tracks, checked Kalani - 522 due - no new track
7/25	Fri	Mike								no new tracks
7/26	Sat	Bradford								no new tracks
7/27	Sun	Bill & Frances								Hatch #3 - nest 12 - marked 2 possible exit areas - no clear exit
7/28	Mon	Helen								Hatch #4 - nest 11
										between I & J 25 ft from base of dune, Kalani fresh exc E dated 728, 2 very fresh aborted West
7/29	Tue	Lil		48	3	9/27	9/27	16	60	Kalani, 726 exc Bill found 50ft SE of 708
7/30	Wed	Camie								no new tracks
										50 ft W of C at base of sand bank - waves lapping the mound - Washed out - surf Checked
7/31	Thu	Lil		49	1	9/29				Kalani - 2 fresh false crawls E & W
8/1	Fri	Mike								no new tracks
8/2	Sat	Kathy & Bradford								no new tracks
8/3	Sun	Bill & Frances								very windy, no sign of hatch tracks or exit, found 1 dead hatching on shoreline between O &
8/4	Mon	Helen								no new tracks
8/5	Tue	Lil								found very weathered tracks from #13 - assuming the hatch was 8/
										no new tracks, #49 washed out, dug #11 - 53 empty, 19 undeveloped - saved 18 - 1 was broken
8/6	Wed	Camie, Ron, Lil & Bill								open
8/7	Thu	Lil								raining - beach not checked
8/8	Fri									beach not checked - tropical storm Iselt
8/9	Sat									beach not checked - tropical storm Iselt
8/10	Sun	Bill & Frances		50	3	10/9				30 ft SE of D on top of dune
				51	1	10/9	10/7	17	58	Between H & I 45ft North of base of dune
8/11	Mon	Helen								no new tracks
										no new tracks, high surf washed out 23, 32, 33, 35, 38, 45, 47, 49, check Kalani - Hatch #1 W Kalani
8/12	Tue	Lil								7114
8/13	Wed	Kathy & Bradford								no new tracks
8/14	Thu	Lil		52	3	10/13	10/14	18	61	80 ft North of River (N) washed over by high surf Oct 9, checked Kalani - Hatch 2 - W 701
8/15	Fri	Mike								Hatch # 8 - nest 22
8/16	Sat	Diane								no new tracks
										no new tracks, dig #13 35 empty, 65 undeveloped, #17 - 105 empty, 5 dead, 2 undeveloped, #19
8/17	Sun	Bill, Frances, Diane, Ron & Lil								65 empty, 21 undeveloped
8/18	Mon	Bradford & Kathy								no new tracks
8/19	Tue	Lil								no new tracks - checked Kalani - 1 new exc W Kalani - a few days old
8/20	Wed	Ron								no new tracks
8/21	Thu	Lil								no new tracks - check Kalani
8/22	Fri	Mike		53	2	10/21				60 ft ESE of Cement Block - washed over by high surf Oct 9
8/22	Fri	Bill, Doug Mac, Helen & Lil								dug 701 & 701-2 West Kalani - 59 empty, 4 undevel / 89 empty, 2 undevel, 2 live
8/23	Sat	Diane		54	1	10/22				45 ft North of Dicks Path - G
8/24	Sun	Bill & Frances		55	1	10/23				63 ft South of Cement Block
8/25	Mon	Helen								Hatch # 9 - nest 28
8/26	Tue	Lil								Hatch #10 - nest 29
8/27	Wed	Camie, Ron, Bill, Frances, Diane, Mike & Lil								2 more tracks hatch 10, dug #22 - 74 empty, 6 undeveloped, 1 dead
8/28	Thu	Lil								1 new track from Hatch 9/ checked Kalani - new exc E Kalani, East 701 hatched
8/29	Fri	Mike								Hatch #11 - nest 31
8/30	Sat	Diane								no new tracks
8/31	Sun	Bill & Frances								1 new track from Hatch 11
9/1	Mon	Helen								no new tracks
										Hatch 12 - nest 36, Hatch 13 - nest 37- only 2 tracks out?? - seemed to be exit depression but on!
9/2	Tue	Lil								2 visible tracks/checked Kalani - false crawl W Kalani



9/3	Wed	Camie, Ron, Bill, Frances, Diane, & Lil	many more tracks from hatch 13, dig 28, 29 & 31 - none were wet from surf, but the sand was very moist in all three nests #28 - 68 empty shells, 21 undeveloped eggs -1 tiny, 1dead, 1 live - vigorous #29 - 94 empty shells, 59 dead - quite decomposed, saved only the most intact - together about 1 foot from surface, 1 undeveloped, 1 live - bottom of nest-very sluggish #31 - 83 empty shells, 5 undeveloped more tracks from nest 37 no new tracks no new tracks 1 track from #37 no new tracks Hatch #14 - Nest 44/ checked Kalani - E Kalani - hatch #4, W Kalani - Hatch #5 - both unrecorde nests dug Ekalani 701 - hatch #3 - 78 empty, 4 undeveloped dug #36 - Hatch #12 - 60 empty, 20 undeveloped - 1 broke - yellow yolk & white, saved 19 dug #37 - Hatch #13 - 98 empty, 1 live - bottom of nest, 15 dead approx 1 ft down - very moist sand exposed & dry and ants ate out the head no new tracks no new tracks no new tracks dug #44 - 67 empty, 3 undeveloped & 1 dead dug #12 - 60 empty, 4 undeveloped no new tracks no new tracks Hatch #15 - Nest 46 dug E Kalani unrecorded nest - hatch #4 - 59 empty dug W Kalani unrecorded nest - hatch #5 - 81 empty, 35 undeveloped, 3 dead dug W Kalani -716 - hatch #6 - 64 empty, 3 undeveloped no new tracks no new tracks no new tracks beach not checked beach not checked no new tracks. checked Kalani - hatch #7 E Kalani 728-1, #8 E Kalani 728-2 & #9 -726 dug #46 - 99 empty, 2 undeveloped, 4 dead, 1 live /no new tracks no new tracks. checked Kalani - no new tracks no new tracks Hatch #16 - #48 dug Kalani - E 728-1 63 empty, 2 dead, 1 undeveloped E 728-2 - 82 empty, 6 undeveloped, - kept 5 - 1 broken W 726 - 57 empty, 8 undeveloped, 3 dead beach not checked - next hatch due Oct 9 beach not checked - next hatch due Oct 9 beach not checked - next hatch due Oct 9 beach not checked - next hatch due Oct 9 beach not checked - next hatch due Oct 9 dug #48 - 56 empty shells, 21 undeveloped no new tracks / checked Kalani - no new tracks no new tracks hatch #17 - #51 no new tracks no new tracks - HIGH SURF washed over #52 & #5: beach not checked - rain beach not checked dug #51 - 61 empty shells, 18 undeveloped eggs beach not checked heavy rains previous afternoon, found 1 very faint track & very small exit from #5, checked Kalani no tracks, found exit area for 814
9/4	Thu	Lil	
9/5	Fri	Mike	
9/6	Sat	Diane	
9/7	Sun	Bill & Frances	
9/8	Mon	Helen	
9/9	Tue	Lil	
9/10	Wed	Camie, Ron, Diane & Lil	
9/11	Thu	Lil	
9/12	Fri	Mike	
9/13	Sat	Diane	
9/14	Sun	Lil & Diane plus guest paddlers	
9/15	Mon	Helen	
9/16	Tue	Lil	
9/17	Wed	Camie, Ron, Diane & Lil	
9/18	Thu	Lil	
9/19	Fri	Mike	
9/20	Sat	Diane	
9/21	Sun		
9/22	Mon		
9/23	Tue	Lil	
9/24	Wed	Diane, 2 guests, Phyllis, Margaret & Lil	
9/25	Thu	Lil	
9/26	Fri	Mike	
9/27	Sat	Diane	
9/28	Sun	Diane, Helen, Kathy & 2 guests, Lil, Margaret	
9/29	Mon		
9/30	Tue		
10/1	Wed		
10/2	Thu		
10/3	Fri		
10/4	Sat	Lil, Diane, Mike, Margaret & 1 guest	
10/5	Sun	Margaret	
10/6	Mon	Lil	
10/7	Tue	Helen	
10/8	Wed	Camie	
10/9	Thu	Lil	
10/10	Fri	Mike	
10/11	Sat		
10/12	Sun	Bill, Frances, Diane, Margaret & Lil	
10/13	Mon		
10/14	Tue	Lil	
10/15	Wed	Camie	more tracks from nest 52 - some very erratic looping tracks, some appeared to have very short strides beach not checked no new tracks, Kalani dug 812 - 71 empty, 6 undeveloped, #814 - 82 empty, 2 undeveloped beach not checked - rain from Ant beach not checked - rain from Ant Hatch #19 - - #55 - very faint exit area - rain & windswept - no tracks visible no new tracks Hatch #20 - #54 no new tracks / checked Kalani - no new tracks no new tracks no new tracks/ checked Kalani -828 hatched - Hatch #12
10/16	Thu		
10/17	Fri	Lil, Diane & Margaret	
10/18	Sat		
10/19	Sun		
10/20	Mon	Helen	
10/21	Tue	Lil	
10/22	Wed	Camie	
10/23	Thu	Lil	
10/24	Fri	Margaret	
10/25	Sat	Lil	
10/26	Sun		
10/27	Mon	Lil, Diane & Margaret, Helen, Nadine, Phyllis, Bill & Frances	dug #54 - 52 empty shells, 33 undeveloped, 1 tiny dug #55 - 81 empty shells, 4 undeveloped  Kalani - dig 828 - 60 empty shells, 4 undeveloped, 1 live -near surface caught in roots - ver vigorous
10/30	Thursday	Lil, Margaret, Diane, Nadine, Phyllis	
11/20	Thursday	Lil, George & Linda Balazs	visit Kawa'aloa & Kalani nesting sites

2014 Nesting Green Sea Turtle Survey Kawa'aloa Bay, Molokai, HI.

All Trips In -

Activity Date	Excavation ID #	Map ID	Basking tracks	Map ID	False Crawls	Map ID	Map ID	Landmarks East to West
4/17			1	S			A Pavillion	
4/20	1	N					B East End	
4/20	2	N					C Pavillion entrance	
4/25					1	N	D First Path Down	
4/26			2	S			E Last Path Down	
4/30			3	S			F Dead Naupaka	
5/3			4	S			G Dick's Path Down	
5/5			5	R			H Morning Glory East	
5/6	3	G/H					I Aki Grass	
5/7	4	S	6	Q/R			J Morning Glory West	
5/7			7	R			K Cement Block	
5/7			8	R/S			L Gravel Hill	
5/7			9	S			M Fence Post	
5/9			10	S			N River	
5/11					2	N/M	O Swale 1	
5/12					3	N/M	P Swale 2	
5/14			11	Q/R			Q White Cliff	
5/15	5	S					R Turtle Industry	
5/18	6	B					S Kaiehu Rock	
5/21					4	S		
5/22	7	E/F						
5/22	8	S						
5/23			12	Q				
5/26					5	P/O		
5/27	10	D						
5/27	11	M						
5/28	9	B						
5/29	12	L						
6/1	13	P						
6/1	14	S						
6/4	15	S			6	S		
6/5	16	C						
6/8	17	J						

6/9	18	D/E		
6/10	19	P		
6/12	20	L		
6/13	21	P		
6/14	22	I/J		
6/16	23	M/N		
6/17	24	P		
6/19	25	R		
6/20	26	K/M		
6/22	27	K/M		
6/23	28	G/H		
6/23	29	N/O		
6/23	30	S		
6/28			13	S
6/29	31	M		
7/1			14	S
7/2	32	S		
7/4	33	B/C		
7/4	34	M		
7/4	35	S		
7/5	36	D/E		
7/6			7	P/Q
7/7	37	K		
7/8	38	O/P		
7/9	39	R		
7/11	40	K		
7/12	41	R/S		
7/13	42	E		
7/13			8	D
7/13			9	M





2014 nesting trips - Kawa'aloa					
hatched	hatch	exc	hatch	nesting	
	due date	date	#	trip	
	6/20	4/20		1	NE of River (N) above the edge of sand berm
<b>6/28</b>	<b>6/20</b>	<b>4/20</b>	<b>1</b>	<b>2</b>	<b>between Fence Post (M) &amp; River (N) - 100 ft NE of River - approx 30 ft W of #23</b>
<b>7/8</b>	<b>7/5</b>	<b>5/6</b>	<b>2</b>	<b>3</b>	<b>35 ft W of East Morning Glory (H) in the base of the dune</b>
	7/6	5/7		4	base of dune, 55 ft South of Kaiehu Rock (S)
	-	5/15		5	washed out - river
	-	5/22		6	washed out - surf
	7/21	5/22		7	in edge of dune - 50 ft West of Last Path Down (E)
	-	5/27		8	washed out - river
	7/26	5/27		9	30 ft East of (B)
	-	5/28		10	washed out - surf
<b>7/28</b>	<b>7/27</b>	<b>5/29</b>	<b>4</b>	<b>11</b>	<b>15 ft West of Fence Post (M)</b>
<b>7/27</b>	<b>7/28</b>	<b>6/1</b>	<b>3</b>	<b>12</b>	<b>base of dune, 32 ft East of Gravel Hill (L)</b>
<b>8/3</b>	<b>7/31</b>	<b>6/1</b>	<b>5</b>	<b>13</b>	<b>65 ft N of Swale 2 - P</b>
	7/31	6/4		14	wet - Julio surf - 75 ft East of Kaiehu Rock (S)
	8/3	6/4		15	wet - Julio surf - 16 ft NE of Kaiehu Rock (S)
	8/4	6/5		16	30 FT West of Paviliona Entrance (C )
<b>8/10</b>	<b>8/7</b>	<b>6/8</b>	<b>6</b>	<b>17</b>	<b>64 ft North of West Morning Glory (J)</b>
	8/8	6/9		18	in edge of dune - 150 ft East of Last Path Down (E)
<b>8/10</b>	<b>8/9</b>	<b>6/10</b>	<b>7</b>	<b>19</b>	<b>in edge of dune - 5 ft South of Swale 2 (P)</b>
	8/11	6/12		20	base of dune - 25 ft West of Gravel Hill (L)
	8/12	6/13		21	70 ft North of Swale 2 (P)
<b>8/15</b>	<b>8/13</b>	<b>6/14</b>	<b>8</b>	<b>22</b>	<b>46 ft North of West Morning Glory (J)</b>
	-	6/16		23	washed out - Julio surf
	8/16	6/17		24	wet- Julio surf - 80 ft North of Turtle Industry ( R)
	8/17	6/19		25	wet - Julio surf -110 ft North of Turtle Industry ( R)
	8/19	6/20		26	100ft NE of Fence Post (M)
	8/21	6/22		27	wet - Julio surf - 100 ft NE of Fence Post (M) - beside #26
<b>8/25</b>	<b>8/22</b>	<b>6/23</b>	<b>9</b>	<b>28</b>	<b>between Dick's Path (G) &amp; East Morning Glory (H) - 14 ft North of dune base</b>
<b>8/26</b>	<b>8/22</b>	<b>6/23</b>	<b>10</b>	<b>29</b>	<b>92 ft NE of Swale 1 (O)</b>
	8/22	6/23		30	wet- Julio surf - base of Kaiehu Rock - SE corner
<b>8/29</b>	<b>8/28</b>	<b>6/29</b>	<b>11</b>	<b>31</b>	<b>50 ft NE of Fence Post in edge of dune</b>
	-	7/2		32	washed out- Julio surf
	-	7/4		33	washed out- Julio surf

	9/2	7/4		34	60 ft N of Fence post
	-	7/4		35	<i>washed out- Julio surf</i>
<b>9/2</b>	<b>9/3</b>	<b>7/5</b>	<b>12</b>	<b>36</b>	<b>over top #18 - between D&amp;E in side of dune</b>
<b>9/2</b>	<b>9/5</b>	<b>7/7</b>	<b>13</b>	<b>37</b>	<b>30 ft S of Cement Block (K)</b>
	-	7/8		38	<i>washed out - Julio surf</i>
	9/7	7/9		39	<i>wet - Julio surf - 80 ft North of Turtle Industry ( R)</i>
	9/9	7/11		40	30 ft West of Cement Block (K)
	9/10	7/12		41	<i>wet - Julio surf - 20 ft East of Kaiehu rock (S)</i>
	9/11	7/13		42	30 NNE of Last Path Down (E)
	9/12	7/14		43	60 ft SE of East Morning Glory (H)
<b>9/9</b>	9/13	7/15	<b>14</b>	44	40 ft East of Gravel Hill (L) - overlapping #12
	9/15	7/17		45	<i>partially washed out- Julio surf - 12 ft W of C</i>
<b>9/17</b>	<b>9/19</b>	<b>7/22</b>	<b>15</b>	<b>46</b>	<b>32 ft SE of Cement Block (K)</b>
	-	7/22		47	<i>washed out - Julio surf</i>
<b>9/27</b>	<b>9/27</b>	<b>7/29</b>	<b>16</b>	<b>48</b>	<b>25 ft North of base of dune, between Aki Grass (I) &amp; West Morning Glory (J)</b>
	-	7/31		49	<i>washed out - Julio surf</i>
	10/9	8/10		50	top of bank 30 ft SE of D
<b>10/7</b>	<b>10/9</b>	<b>8/10</b>	<b>17</b>	<b>51</b>	<b>between E Morning glory (H) and Aki Grass (I) 45 ft N of base of dune</b>
<b>10/14</b>	<b>10/13</b>	<b>8/14</b>	<b>18</b>	<b>52</b>	<b>80 ft N or River (N)</b>
	10/21	8/22		<b>53</b>	60 ft ESE of Cement Block (K) - flooded - high surf
<b>10/22</b>	<b>10/22</b>	<b>8/23</b>	<b>20</b>	<b>54</b>	<b>45 ft North of Dicks Path - G</b>
<b>10/20</b>	<b>10/23</b>	<b>8/24</b>	<b>19</b>	<b>55</b>	<b>63 ft South of Cement Block</b>

Camie	553 - 3530			Lil away - May 7 - June 11
Diane	567 - 6595			Frances May 6 - June - 5
Helen	567 - 6468			Diane June 6 - June 11
Kat	(208) 661- 6338			
Kathy	553 - 5458			
Margaret	553 - 5680	4/20/2014	#1	2 excavations - 80 ft NE of Marker N (River) - above the sand berm
Mike	553 - 4405	4/20/2014	#2	2 excavations - last one 95 ft NE of Marker N - in the edge of the sand berm
<u>date</u>	<u>day</u>	<u>monitor</u>	<u>nest #</u>	<u>notes - # of pits, location of nests, false crawls &amp; basking tracks</u>
5/5	Mon	Lil & Kat		1 short basking track at R
5/6	Tue	Diane	3	2 exc last one in base of dune 25 ft West of H - East Morning Glory
5/7	Wed	Camie		
5/8	Thu	Margaret		
5/9	Fri	Mike		
5/10	Sat	Margaret		
5/11	Sun	Bill & Frances		
5/12	Mon	Helen		
5/13	Tue	Margaret		
5/14	Wed	Camie		
5/15	Thu	Margaret		
5/16	Fri	Mike		
5/17	Sat	Kathy		
5/18	Sun	Bill & Frances		
5/19	Mon	Helen		
5/20	Tue	Kathy		
5/21	Wed	Camie		
5/22	Thu	Margaret		
5/23	Fri	Mike		
5/24	Sat	Diane		
5/25	Sun	Bill & Frances		
5/26	Mon	Helen		
5/27	Tue	Kathy		
5/28	Wed	Diane		
5/29	Thu	Margaret		
5/30	Fri	Mike		
5/31	Sat	Diane		
6/1	Sun	Bill & Frances		
6/2	Mon	Helen		
6/3	Tue	Kathy		
6/4	Wed	Kat		
6/5	Thu	Margaret		
6/6	Fri	Mike		
6/7	Sat	Diane		
6/8	Sun	Kat		
6/9	Mon	Helen		
6/10	Tue	Kathy		
6/11	Wed	Diane		
6/12	Thu	Lil		



**Preserve Beaches East & West of Kalani Point**

<u>Date found</u>	<u>Trip #</u>	<u>Map Location</u>	<u># of Pits</u>	<u>Est Hatch (60 days)</u>	<u>Hatch found</u>	<u>Hatch #</u>	<u>Dig Date</u>	<u>Dig Count</u>	<u>spoiled/undeveloped</u>	<u>Dead</u>	<u>Live</u>	<u>Successful Hatches</u>
5/1/14	501			29-Jun								
5/22/14	522	West K	1	21-Jul								
6/4/14	604	East K	1	3-Aug								
6/4/14	604 -2	West K	1	8/1 ?								
6/17/14	617	East K	2	15-Aug								
7/1/14	630	East K	4									
<b>7/1/14</b>	<b>701</b>	<b>East K</b>	<b>1</b>	<b>29-Aug</b>	<b>28-Aug</b>	<b>3</b>	<b>10-Sep</b>	<b>82</b>	<b>4</b>			<b>78</b>
<b>7/1/14</b>	<b>701</b>	<b>West K</b>	<b>4</b>	<b>28-Aug</b>	<b>12-Aug</b>	<b>1</b>	<b>22-Aug</b>	<b>63</b>	<b>4</b>			<b>59</b>
<b>7/1/14</b>	<b>701- 2</b>	<b>West K</b>	<b>1</b>	<b>28-Aug</b>	<b>14-Aug</b>	<b>2</b>	<b>22-Aug</b>	<b>91</b>	<b>2</b>		<b>2</b>	<b>89</b>
7/8/14	708	West K	4?	2-Sep								
<b>unrecorded nest</b>		<b>East K</b>			<b>9-Sep</b>	<b>4</b>	<b>17-Sep</b>	<b>59</b>				<b>59</b>
<b>unrecorded nest</b>		<b>West K</b>			<b>9-Sep</b>	<b>5</b>	<b>17-Sep</b>	<b>116</b>	<b>35</b>	<b>3</b>		<b>78</b>
<b>7/16/14</b>	<b>716</b>	<b>West K</b>	<b>1</b>	<b>14-Sep</b>	<b>11-Sep</b>	<b>6</b>	<b>17-Sep</b>	<b>67</b>	<b>3</b>	<b>1</b>		<b>64</b>
<b>7/26/14</b>	<b>726</b>	<b>West K</b>	<b>1</b>	<b>24-Sep</b>	<b>23-Sep</b>	<b>7</b>	<b>28-Sep</b>	<b>64</b>	<b>1</b>	<b>2</b>		<b>61</b>
<b>7/29/14</b>	<b>728 - 1</b>	<b>East K</b>	<b>1</b>	<b>27-Sep</b>	<b>23-Sep</b>	<b>8</b>	<b>28-Sep</b>	<b>88</b>	<b>6</b>			<b>82</b>
<b>7/29/14</b>	<b>728 -2</b>	<b>East K</b>	<b>2</b>	<b>27-Sep</b>	<b>23-Sep</b>	<b>9</b>	<b>28-Sep</b>	<b>65</b>	<b>8</b>	<b>3</b>		<b>54</b>
<b>8/12/14</b>	<b>812</b>	<b>East K</b>	<b>2</b>	<b>11-Oct</b>	<b>9-Oct</b>	<b>10</b>	<b>17-Oct</b>	<b>77</b>	<b>6</b>			<b>71</b>
<b>8/14/14</b>	<b>814</b>	<b>East K</b>	<b>1</b>	<b>13-Oct</b>	<b>14-Oct</b>	<b>11</b>	<b>17-Oct</b>	<b>84</b>	<b>2</b>			<b>82</b>
8/19/14	819	West K	3	18-Oct								
<b>8/28/14</b>	<b>828</b>	<b>East K</b>	<b>1</b>	<b>27-Oct</b>	<b>25-Oct</b>	<b>12</b>	<b>30-Oct</b>	<b>64</b>	<b>4</b>		<b>1</b>	<b>60</b>
								<b>920</b>	<b>75</b>	<b>9</b>	<b>3</b>	<b>837</b>

- 7/1 2 long aborted tracks at very west end of West Kalani - fresh
- 7/3 2 long aborted tracks at very west end of West Kalani - fresh - both had exc but digging on way out
- 7/16 East Kalani - 2 aborted tracks
- 7/21 East Kalani - 2 aborted tracks
  
- 7/29 West Kalani - 2 long aborted tracks - very fresh
- 7/31 West Kalani - 1 long aborted tracks - very fresh
- 7/31 East Kalani - 1 long aborted track - some digging - West of the arch trail -day old??

**2015**

**Keys**

**Russell** 553-5236 ext 6589

<b>Mon</b>	Helen Coelho	553-9857
Tues	Lil Macmillan	
<b>Wed</b>	Camie Kimbal	
Thurs	Lil Macmillan	
<b>Friday</b>	Mike Grinnell	553-4405
<b>Saturday</b>	Diane Pike	567-6595
<b>Sunday</b>	Bill & Frances Feeter	553-9857

**Backup**

Kathy Tachibana

**Phyliss Murakami-Siu**

Margaret Marcom

**Nadine Powell**

**SueAnn Allison**

2015 Turtle Monitor	monitor	est rtn	Turtle #	# pits	Est Hatch	Hatch Date	Hatch #	Incubation	Notes
5/4	Mon	Lil & SueAnn							no tracks
5/8	Fri	Helen							no tracks
5/11	Mon	Helen	5/25	1	4	10-Jul			<b>N of R also found false crawls on Mike's beach</b>
5/14	Thurs	Lil & SueAnn	5/28	2	3	11-Jul	16-Jul	1	65
5/16	Sat	Lil & SueAnn							no new tracks
5/19	Tues	Lil							no new tracks
5/22	Fri	Helen							no new tracks
5/23	Sat	Diane							rained out
5/24	Sun	Bill & Frances	A1						basking track at S
5/25	Mon	Helen							no new tracks
5/26	Tue								
5/27	Wed	Lil	A2						basking track at S
5/28	Thu	Nadine	6/11	3	1	7/27	28-Jul	2	61
				4	3	7/27			35 ft SE of C 15 ft NE of D
5/29	Fri	Lil & SueAnn	6/12	A3 A4					found 3 & 4 - 1 day old, long false crawl between Q & R false crawl up to dune between D & E
5/30	Sat	Diane	6/13	5	1	7/29	3-Aug	3	65
5/31	Sun	Bill & Frances							no new tracks
6/1	Mon	Helen							no new tracks
6/2	Tue								
6/3	Wed	Lil & Nadine							no new tracks
6/4	Thu								
6/5	Fri	Lil & SueAnn							no new tracks
6/6	Sat	Diane							no new tracks
6/7	Sun	Bill & Frances							gate locks damaged - unable to get in
6/8	Mon	Helen	A5 A6 A7						basking tracks at S basking tracks at S basking tracks at S
6/9	Tue	Lil							no new tracks
6/10	Wed	Camie & Ron							no new tracks
6/11	Thu	Lil & SueAnn							no new tracks - found dead sheerwater at S
6/12	Fri	Mike							no new tracks
6/13	Sat	Diane	6/27	6	1	12-Aug	16-Aug	4	64
6/14	Sun	Bill & Frances	A8 A9						60 ft NE of M basking track at S basking track at S
6/15	Mon	Helen							no new tracks
6/16	Tue	Lil							no new tracks
6/17	Wed	Camie & Ron							no new tracks
6/18	Thu	SueAnn							no new tracks
6/19	Fri	Mike							no new tracks
6/20	Sat	Nadine							no new tracks
6/21	Sun	Bill & Frances							no new tracks
6/22	Mon	Helen							no new tracks
6/23	Tue								
6/24	Wed	Camie & Ron							no new tracks
6/25	Thu	SueAnn							no new tracks
6/26	Fri	Mike							no new tracks
6/27	Sat	Diane	7/11	A10					long false crawl at N - many very shallow digs
6/28	Sun	Bill & Frances	A11						basking track at S
6/29	Mon	Helen							no new tracks
6/30	Tue								
7/1	Wed	Lil							no new tracks
7/2	Thu	SueAnn							no new tracks/ Kalani E - 2 fresh nesting trips
7/3	Fri	Mike							no new tracks
7/4	Sat	Diane & Nadine							no new tracks
7/5	Sun	Bill & Frances	7/19	7	1				between D & E in side of dune basking track at S
7/6	Mon	Helen	7/20	8	2				last exc shallow in base of dune beside #7
7/7	Tue	Lil	7/21	9	2				last exc shallow in base of dune at C/W kalani 2 trips in one fresh beside flat rocks - both dated 7/11
7/8	Wed	Camie & Ron							no new tracks
7/9	Thu	SueAnn	A13						basking track at S
7/10	Fri	Lil							no new tracks
7/11	Sat	Diane							rained out
7/12	Sun	Bill & Frances	7/26	A14					long false crawl between E & H
7/13	Mon	Helen	A15						basking track at S
7/14	Tue	Lil	A16 A17 A18						basking track at S basking track at S basking track at S
7/15	Wed	Camie & Ron	A19 A20 A21						basking track at S basking track at S basking track at S
7/16	Thu	SueAnn							#2 hatched - Hatch #1
7/17	Fri	Mike							no new tracks
7/18	Sat	Nadine							no new tracks
7/19	Sun	Bill & Frances							no new tracks
7/20	Mon	Helen							no new tracks
7/21	Tue								
7/22	Wed	Lil, Nadine, Bill, Frances, He	A22						dug #2 - 76 empty, 1 live, basking track at S
7/23	Thu	SueAnn							no new tracks
7/24	Fri	Mike	A23 A24 A25						basking track at S basking track at S basking track at S
7/25	Sat	Nadine	A26						basking track at S

7/26	Sun	Bill & Frances	A27		
7/27	Mon	Helen	8/10	A28	
7/28	Tue	Nadine			basking track at S
7/29	Wed	Camie & Ron			long false crawl between F & H
7/30	Thu	Lil			<b>#3 hatched - Hatch #2</b>
7/31	Fri	Mike	A29		no new tracks
8/1	Sat				no new tracks
8/2	Sun	Bill & Frances			basking track at S
8/3	Mon	Helen			rain
8/4	Tue	Lil			no new tracks
8/5	Wed	Camie & Ron			<b>#5 Hatched - Hatch #3</b>
8/6	Thu	Lil			no new tracks
8/7	Fri	Mike			a few tracks from #5?...rained on not sure
8/8	Sat	Nadine			4-5 tracks out from #5
8/9	Sun	Bill & Frances			approx 12 tracks out from #5
8/10	Mon	Helen			no new tracks
8/11	Tue	Lil, Bill, Frances, Camie, Ron, Nadine, & Lisa Foster			no new tracks
8/12	Wed	Camie & Ron			5-6 tracks out from #5
8/13	Thu	Lil	A30		<b>dug #5 - 75 empty shells, 1 undeveloped - broken, 3 dead, 23 live</b>
8/14	Fri	Mike			no new tracks
8/15	Sat	Nadine			1 basking track - S/ <a href="#">checked Kalani</a>
8/16	Sun	Bill & Frances			no new tracks
8/17	Mon	Lil			<b>#6 hatched - Hatch #4</b>
8/18	Tue				1 new track from #5/ <a href="#">checked Kalani</a>
8/19	Wed	Camie & Ron			
8/20	Thu				no new tracks
8/21	Fri	Lil, Bill, Frances, Camie, Ron, Nadine, & Mike			<b>dug #6 - 64 empty, 4 undeveloped &amp; 1 live</b>
8/22	Sat	Nadine	A31/A32		2 basking tracks at S/ <a href="#">checked Kalani</a>
8/23	Sun				
8/24	Mon				
8/25	Tue				
8/26	Wed				
8/27	Thu				
8/28	Fri				
8/29	Sat	Nadine	A/33,34,35		3 basking tracks - S
8/30	Sun	Bill & Frances			no new tracks
8/31	Mon	Helen			no new tracks
9/1	Tue	Lil			no new tracks/ <a href="#">checked kalani</a>
9/2	Wed	Camie & Ron			no new tracks
9/3	Thu	Lil			monk seal - Kawa'aloa, juvenile tropic bird - Kalani
9/4	Fri	Mike			no new tracks
9/5	Sat	Diane & Nadine			no new tracks
9/6	Sun	Nadine			no new tracks/ <a href="#">Hatch #1 East Kalani 71415</a>
9/7	Mon	Helen			no new tracks
9/8	Tues	Lil			no new tracks
9/9	Wed	Camie & Ron			no new tracks
9/10	Thurs	Lil			no new tracks / Hatch #2 East Kalani 7215 - only 1 track
9/11	Fri				<b>rain</b>
9/12	Sat				<b>rain</b>
9/13	Sun	Nadine			no new tracks
9/14	Mon	Helen			no new tracks
9/15	Tue				<b>rain</b>
9/16	Wed				
9/17	Thu	Lil, Bill, Camie & Ron			<b>no new tracks / dug E 7215 &amp; E71415 Kalani hatches #1 &amp; 2</b>
9/18	Fri				
9/19	Sat	Diane & Nadine			no new tracks/ checked Kalani - no new tracks
9/20	Sun				
9/21	Mon				
9/22	Tue	Lil			no new tracks / <a href="#">checked Kalani</a> - no new tracks
9/23	Wed				
9/24	Thu				
9/25	Fri				
9/26	Sat				
9/27	Sun				
9/28	Mon	Helen			
9/29	Tue	Lil			<b>found windblown exit - no tracks - Kalani E 7301E</b>
9/30	Wed				
10/1	Thu				
10/2	Fri				
10/3	Sat				
10/4	Sun				
10/5	Mon	Lil, Margaret & Nadine			<b>dug E73015 - kalani hatch #3 - 75 empty, 1 unhatched/ found hatch #4 E8111E</b>
10/6	Tue				
10/7	Wed				
10/8	Thu				
10/9	Fri	Margaret			no new tracks at Kalani
10/10	Sat				
10/11	Sun				
10/12	Mon				
10/13	Tue	Lil, Margaret, Ron & Camie, Diane			<b>dug E81115 Kalani hatch #4 - 75 empty, 3 undeveloped</b>

2014 Nesting Green Sea Turtle Survey Kawa'aloa Bay, Molokai, HI.

All Trips In -

Activity Date	Excavation ID #	Map ID	Basking tracks	Map ID	False Crawls	Map ID	Map ID	Landmarks
5/11	1	R					A	Pavillion
5/12	2	C					B	East End
5/24			1	S			C	Pavillion entrance
5/27			2	S			D	First Path Down
5/28	3	C					E	Last Path Down
5/28	4	D					F	Dead Naupaka
5/29					3	Q/R	G	Dick's Path Down
5/29					4	D/E	H	Morning Glory East
5/30	5	H					I	Aki Grass
6/8			5	S			J	Morning Glory West
6/8			6	S			K	Cement Block
6/8			7	S			L	Gravel Hill
6/13	6	M					M	Fence Post
6/14			8	S			N	River
6/14			9	S			O	Swale 1
6/27					10	N	P	Swale 2
6/28			11	S			Q	White Cliff
7/5	7	D/E					R	Turtle Industry
7/5			12	S			S	Kaiehu Rock
7/6	8	D/E						
7/7	9	C						
7/9			13	S				
7/12					14	E/H		
7/13			15	S				
7/14			16	S				
7/14			17	S				
7/14			18	S				
7/15			19	S				
7/15			20	S				
7/15			21	S				
7/22			22	S				
7/24			23	S				
7/24			24	S				
7/24			25	S				

7/25	26	S		
7/26	27	S		
7/27			28	F/H
7/31	29	S		
8/13	30	S		
8/22	31	S		
8/22	32	S		
8/29	33	S		
8/29	34	S		
8/29	35	S		







**Preserve Beaches East & West of Kalani Point**

<u>Date found</u>	<u>Trip #</u>	<u>Map Location</u>	<u># of Pits</u>	<u>Est Hatch (60 days)</u>	<u>Hatch found</u>	<u>Hatch #</u>	<u>Dig Date</u>	<u>Dig Count</u>	<u>spoiled/undeveloped</u>	<u>Dead</u>	<u>Live</u>	<u>Successful Hatches</u>
7/2/15	7215	Ekalani	2	8/31	10-Sep	2	9/17	73	1	1		71
7/2/15	7215-2	Ekalani	1	8/29 ?								
7/7/15	7715	Wkalani	1	8/26 ?								
7/7/15	7715	Wkalani	1									
<b>7/14/15</b>	<b>71415</b>	<b>Ekalani</b>	<b>2</b>	<b>9/4 ?</b>	<b>6-Sep</b>	<b>1</b>	<b>17-Sep</b>	<b>71</b>	<b>3</b>			<b>68</b>
7/14/15	71415	Wkalani	2	9/9 ?								
7/30/05	73015	Ekalani	2	9/28	29-Sep	3	5-Oct	76	1			75
<b>8/11/15</b>	<b>81115</b>	<b>Ekalani</b>	<b>3</b>	<b>10/10</b>	<b>5-Oct</b>	<b>4</b>	<b>13-Oct</b>	<b>78</b>	<b>3</b>			<b>75</b>
								<b>298</b>	<b>8</b>	<b>1</b>		<b>289</b>

8/11/2015 1 seal sleeping at water's edge C/D - Lil -pictures sent to Diane

**2016**

**Keys**

**Russell** 553-5236 ext 6589

<b>Mon</b>	Helen Coelho	553-9857
Tues	Lil Macmillan	
<b>Wed</b>	Camie Kimbal	
Thurs	Lil Macmillan	
<b>Friday</b>	Mike Grinnell	553-4405
<b>Saturday</b>	Diane Pike	567-6595
<b>Sunday</b>	Bill & Frances Feeter	553-9857

**Backup**

Kathy Tachibana

**Phyliss Murakami-Siu**

Margaret Marcom

**Nadine Powell**

**SueAnn Allison**



8/9	Camie										
8/10	Lil										no new tracks
8/11	Nadine										no new tracks
8/12	Elaine										no new tracks
8/13	Bill & Frances	B44,45,46	S								
8/14	Helen	B47,48,49	S								
8/15											
8/16											
8/17											
8/18		FC3,	13 N/O, R/S	2	10/17						long false crawl & #13 found 8/19, looked 1 day old, lots of crab tracks
8/19	Lil		14 O	3	10/18	10/16	4	58			very fresh tracks - 40 ft North of swale1 O) in the edge of the grass on the beach sand
8/20	Nadine										
8/21											rained out
8/22	Helen										no new tracks
8/23											
8/24											
8/25											
8/26	Lil, Helen, Nadine & Greg Kahn										dug #8, Hatch #1 - 93 empty shells, 4 undeveloped
8/27											
8/28											
8/29											
8/30											
8/31											
9/1	Lil	B50,51,52	S								2 of the basking tracks were from Darby
9/2	Nadine										no new tracks
9/3											
9/4	Bill & Frances										high tides/surf from Lester, washed over 9 & 13
9/5	Helen										no new tracks
9/6	Lil										no new tracks/ walked to end of Preserve beaches
9/7	Camie & Ron										no new tracks
9/8	Lil										no new tracks
9/9											rain
9/10	Nadine										no new tracks - campers & fishermen - tournament
9/11	Bill & Frances										no new tracks - campers & fishermen - tournament ATV tracks up and down beach - reported to Russell
9/12	Helen										no new tracks
9/13											rain
9/14	Camie & Ron										turned back - rain
9/15	Lil										turned back - rain
9/16											rain
9/17	Diane & Nadine	B53	S								Hatch #2 - trip #10 - lots of tracks, 1 stuck in roots, basking turtle & basking monk seal
9/18											
9/19											
9/20											
9/21											
9/22	Lil										2 faint tracks from #10 - been rained on
9/23											
9/24	Lil, Nadine, Diane, Helen, Bill, Frances, Elaine, Margaret, Russel & Sonja										dig #10 - 94 empty shells, 2 dead, 9 live - very tangled in grass roots, unable to exit on their own. Mac reported finding a dead turtle near Kalani. Took pictures, shell measured 19 7/8 inches and took
9/25											
9/26											
9/27											
9/28	Camie & Ron										no new tracks
9/29	Lil										no new tracks
9/30	Nadine	B54	S								
10/1	Diane	B55	S								
10/2	Bill & Frances										no new tracks
10/3	Helen	B56	S								
10/4	Lil										no new tracks
10/5	Camie & Ron										Hatch #3 - trip #12 - monk seal at S
10/6	Lil										no new tracks
10/7	Nadine										no new tracks
10/8	Margaret										no new tracks - monk seal sleeping at S - F24
10/9											
10/10											
10/11	Lil, Nadine, Diane, Helen, Bill, Frances, Elaine, Margaret, Ron & Camie										Dig #12 - 74 empty shells, 6 undeveloped & 2 live
10/12											
10/13	Lil										no new tracks
10/14											
10/15											
10/16	Bill & Frances	B57	S								
10/17											
10/18											
10/19											
10/20											
10/21											
10/22											
10/23	George Balazs, Mac Poepoe, Precious Rawlins, Lil, Nadine, Diane, Helen, Bill, Frances, Elaine & Gary Brumr										dug #14 - 91 empty shells, 3 undeveloped, 4 dead & 1 live monk seal F24 found dead at east end of Kawa'aloa Beach

: 2 small tissue samples

2016 Nesting Green Sea Turtle Survey Kawa'aloa Bay, Molokai, HI.

All Trips In -

Activity Date	Excavation ID #	Map ID	Basking tracks	Map ID	False Crawls	Map ID	Map ID	Landmarks
4/22			1	S			A	Pavillion
4/22			2	S			B	East End
5/3			3,4	S			C	Pavillion entrance
5/11			5,6,7,8	S			D	First Path Down
5/17			9	S			E	Last Path Down
5/21			10	S			F	Dead Naupaka
6/2			11,12	S			G	Dick's Path Down
6/3	1	S					H	Morning Glory East
6/4	2	C/D	13	S			I	Aki Grass
6/6	3	E	14				J	Morning Glory West
6/6	4	S					K	Cement Block
6/9	5	B/C					L	Gravel Hill
6/10	6		15	S			M	Fence Post
6/11	7	S					N	River
6/16			16,17	S			O	Swale 1
6/18			18	S			P	Swale 2
<b>6/25</b>	<b>8</b>	<b>S</b>					<b>Q</b>	<b>White Cliff</b>
6/26			19	S			R	Turtle Industry
7/3			20,21,22	S			S	Kaiehu Rock
7/5			23,24	S				
7/7			25	S				
7/8					1	S		
<b>7/10</b>	<b>9</b>	<b>S</b>						
7/12			26,27	S				
7/14			28,29,30,31	S				
7/21			32	S				
<b>7/22</b>	<b>10</b>	<b>P</b>	33,34,35,36	S				
7/23			37	S				
7/30			38,39	S				
8/1			40,41	S				
8/4	11	E/F	42	S	2	S		
<b>8/5</b>	<b>12</b>	<b>O/P</b>	43	S				
8/14			44,45,46	S				
8/15			47,48,49	S				

8/18	13	R/S			3	N/O
<b>8/19</b>	<b>14</b>	<b>O</b>				
9/1			50,51,52	S		
9/17			53	S		
9/30			54	S		
10/1			55	S		
10/3			56	S		
10/16			57	S		







Preserve Beaches East & West of Kalani Point - 2016

Date found	Trip #	Map Location	# of Pits	Est Hatch (60 days)	Hatch found	Hatch #	<u>Dig Date</u>	<u>Dig Count</u>	<u>spoiled/undeveloped</u>	<u>Dead</u>	<u>Live</u>	<u>Successful Hatches</u>
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**2017**

**Keys**

**Russell** 553-5236 ext 6589

<b>Mon</b>	Helen Coelho	553-9857
Tues	Lil Macmillan	
<b>Wed</b>	Camie Kimbal	
Thurs	Lil Macmillan	
<b>Friday</b>	Mike Grinnell	553-4405
<b>Saturday</b>	Diane Pike	567-6595
<b>Sunday</b>	Bill & Frances Feeter	553-9857

**Backup**

Kathy Tachibana

**Phyliss Murakami-Siu**

Margaret Marcom

**Nadine Powell**

**SueAnn Allison**

2017 Turtle Monitoring	est rtn	Turtle #	Map	# pits	Est Hatch	Hatch Date	Hatch #	Incubation	Notes
									<b>B = basking, FC = false crawl</b>
<b>3/27/2017</b>									Diane relayed report from vistoris that found turtle tracks & excavations 3/19 at Mo'omomi
3/28	Lil								walked Kawa'aloa - no tracks visible
4/5	Margaret	B1	S						walked Kalani - found 1 or 2 day old excavations past Kalani point in the base of the dune
		FC1	M						
4/6	Lil, Margaret & Nadine								TNC office signed waivers, Nadine & Lil were issued keys - Lil loaned key to Margaret
4/7	Lil, Margaret & Christi	B 2,3,4,5	S						All markers refreshed, one basking track from "Darby" - deformed L hind flipper
									walked Kalani - visitor reported excavations West of 4/5 discovery
									no new tracks
4/10	Diane								
4/12	Margaret	B6	S						
4/14	Margaret	B7,8,9	S						
4/16	Nadine								no new tracks, walked to Kalani - seal H28 basking at west end of furthest beach
4/18	Bill, Frances, Christi, Kathy & David Raab, Lil & Diane								TNC office - waivers signed, keys issued to Feeters & Diane
4/18	Margaret	2-May	1 S	3	17-Jun				24 paces East of marker S
		B10,11							monk seal tracks at S, monk seal sleeping North of M
4/20	Diane								no new tracks/ rain - unable to check Kalani
4/22	Margaret	B12							no nesting track - Kawa'aloa/checked Kalani - 3 new nesting trips approx 1-2 days old
4/23	Lil	B13,14,15,16,11S							1 basking track was Darby/ checked Kalani - no new tr
4/26	Camie & Ron								no new tracks
4/27	Diane	B 18, 19	S						
4/28	Nadine								rain - turned back
4/29	Margaret								no new tracks
4/30									rain
5/1									road too wet
5/2	Lil, David & Kathy Raab								no new tracks
5/3	Camie & Ron								no new tracks
5/4	Diane								no new tracks - checked to Kalani
5/5	Nadine								no new tracks on Kawa'aloa - found 1 fresh exc at Kalani
5/6	Elaine	B20	S						
5/8	Bill & Christi	B21, 22	S						
5/9	Lil								no new tracks - checked Kalani - no new tracks
5/10	Camie & Ron	B23	S						
5/12	Margaret	B24	S						
5/13	Nadine	B25,26,27,28	S						
5/14	Bill & Christi	B29,30,31,	S						seal H62
5/15	Margaret								no new tracks - 2 seals
5/16	Lil, Diane, Kathy, David, Camie, Ron, Margaret, Mac, Russell, Wai, James & La?								no new tracks, beach cleanup
5/17	Camie & Ron	B32,33,34,35	S						checked Kalani - no tracks, seal H75
5/18	Diane	FC2	S						checked Kalani - no tracks
5/19	Nadine	FC3	S						checked Kalani - 3 long false crawls
5/20	Lil								no new tracks, checked Kalani - 2 fresh FC at Arch beach, 2 nesting trips at kalani west
5/21	Bill & Christi	B36,37	S						
5/22	Helen		2 M	1	7/21	7/22	1	61	50 ft North of marker M
5/23	Lil, Kathy & David	B38,39	S						seal at M, checked Kalani - 2 new nesting trips East & West Kalani
5/24	Camie & Ron	B40,41,42,43	S						
5/25									
5/26	Nadine	B44	S						
5/27	Elaine								no new tracks
5/28	Bill & Christi	B45	S						
5/29	Helen								no new tracks
5/30	Lil	B46,47	S						checked Kalani - no new tracks - flagged 0405 - due to hatch 6/2
5/31	Camie & Ron								no new tracks - checked Kalani
6/1	Lil	B48,49,50,51	S						checked Kalani - no new tracks
6/2	Elaine								no new tr
6/3	Nadine								no new tr at Kawa'aloa/ 1 new nesting trip at W Kalani beside Heliotrope Tree west end of Trash beach/ basking turtle - pics
6/4	Lil, Bill & Christi	B52,53,54	S						new nesting trip at E Kalani - root cast hill
6/5	Helen								no new tracks
6/6	Lil, Kathie & David								no new tr at Kawa'aloa, 1 new nesting E Kalani arch site trail, 1 new nesting trip very West end of beach to East of salt flats. 0405 hatched - West Kalani hatch #1
6/7	Camie & Ron								no new tr at Kawa'aloa
6/8									
6/9	Nadine								no new tr
6/10	Elaine	B55							1 long basking track from Darby - picture, replaced #2 center stake
6/11	Lil, Elaine & Gary, Diane,	B56,57,58	S						dug West Kalani 422 - 95 empty shells, 1 dead, 1 unhatched
6/12	Helen								no new tr
6/13	Lil	B59,60,61	S						no new tr at Kalani
6/14	Camie & Ron	B62	S						
6/15	Diane	B63	S						Basking turtle at S
6/16	Nadine								Basking turtle at S
6/17	Elaine								no new tracks
6/18	Christi, Bill & Lil								basking turtle at S - no tracks, 2 long false crawls at E Kalani
6/18	Lil & Doug								compared pictures of Basking Turtle to Diane's - same turtle, looked to be wedged in by driftwood & rocks. Returned to beach, moved wood and it was able to turn around and go back into the water. Had an old? I
6/19	Helen								no new tracks
6/20	Lil, Kathie & David	B64,65	S	1	8/19	19-Aug	2	60	no new tracks at Kalani
		3 IJ							100 ft East of Cement Block
6/21	Ron								no new tracks at Kawa'aloa, new trip at E Kalani South of 5/23 - close to the water
6/22	Diane								no new tr Kalani or Kawa'aloa
6/23									Nadine sick - beaches not checked
6/24	Elaine								no new tr
6/25	Bill & Chrisit								no new tr at Kawa'aloa, Kalani Hatch #2 - W April 22 nest

6/26	Helen									no new tr
6/27	Lil, Kathie & David	B66,67,68	S							refreshed all Kawa'aloa markers, E Kalani 6/21 washed by high tides,
6/28	Camie & Ron									no new tracks - Kawa'aloa only
6/29										rain beaches not checked
6/30	Nadine									no new tr at Kawa'aloa, Kalani Hatch #2 - W Kalani 15 beside to East of W13
7/1	Elaine									no new tr at Kawa'aloa, Kalani - W Kalani 16 - not fresh - max 4 days old - Nadine missed it - windblown
7/2	Bill & Christ	B69	O/P							basking track
7/3	Helen		4 I/J	1	9/1	1-Sep	3		60	10 ft East of #3
7/4	Lil, Kathie & David									E Kalani #7 1 exc, between K&L East of E5/23 & 6/21, W Kalani #17 2exc at A North of Heliotrope
7/5	Camie & Ron									E Kalani #8 1 exc beside/in 6/04
7/6	Diane									no new tracks
7/7	Nadine									no new tracks
7/8	Elaine									no new tracks
7/9	Christit & Bill									no new tracks
7/10	Helen									no new tracks
7/11	Kathie & David									no new tracks
7/12	Camie & Ron									no new tracks
7/13	Diane									no new tracks, seal H74
7/14	Nadine	B70	S							no new tracks, seal H75
7/15	Elaine									no new tracks
7/16	Christit & Bill									W Kalani - saw turtle crawl up from water, 2 seals H75 & H62
7/17										beach not checked
7/18	David		5 H	1	9/16	11-Sep	4		55	E Kalani #9 between L&K 3exc all marked, W Kalani #9 hatched
7/19	Camie & Ron	FC3	J/K							
7/20	Christit & Bill	B71	S							Wkalani #18, 2 exc, at A - N of Heliotrope,
7/21	Nadine	B72,73	S							
7/22	Elaine									no new tracks
7/23	Christit & Bill	B74	S							#2 Kawa'aloa hatched
7/24	Helen									no new tracks
7/25	David & Kathie									no new tracks
7/26	Camie & Ron									no new tracks
7/27	Christit & Bill	B75,76	S							H74 at E Kalani, W Kalani #10 at C hatched - no exit found
7/28	Christit & Nadine									no new tracks
7/29	Elaine									no new tracks
7/30	Christit & Bill	B77,78	S							no new tracks
7/31										beach not checked
8/1	Nadine									E Kalani # 10 base of arch trail down - may be 1 day old
8/2	Camie & Ron		6 J / K	1	10/1	9/28	5		57	15 yds NW of J, E Kalani #4 6/6 hatched
8/3	Lil & Christi									E Kalani # 5 6/6 at I hatched, W Kalani #19 at A, dug overtop #18
8/4	Lil, Christi, David & Kathie									dug Kawa'aloa #2 75 empty, 4 live - all at bottom, sand very moist, dug W Kalani #9 - 55 empty, 1 dead
8/5	Lil									no new tracks
8/6	Christit & Bill	B79	S							
8/7	Helen									no new tracks
8/8										beach not checked
8/9	Camie, Ron, Bill, Christi, Mac & Lil									dug E4 & E5 - E4 51 empty, 2 undeveloped, 1 dead, E5- 65 empty, 3 undeveloped
8/10										beach not checked
8/11	Nadine									no new tracks
8/12	Lil	B80	S							basking track - Darby, Hatch #5 for Wkalani #12 6/16 faint tracks and exit
8/13	Bill & Christi									no new tracks
8/14	Helen									no new tracks
8/15	Christi		7 J	2	10/14	10/14	6		60	Ekalani #11- edge of dune to east of #10
8/16	Camie & Ron									no new tracks
8/17	Diane									no new tracks
8/18	Nadine									no new tracks
8/19	Lil	B81	S							found 1 faint track from Kawa'aloa #3, no exit visible basking track at S - Darby, . EK #12 - 1 exc, L/N, W14 6/20 hatched - faint tracks & exit/ Nadine's Friday pictures show same
8/20	Lil, Camie, Ron, Diane, Nadine, Christi, Bill & Mac									Kawa'aloa #3 - 1 track out, exit marked. dug Wkalani #10 & 12, unable to find #10 nest - loose sloping sand at base of dune, no exit found at hatch time, W12 95 empty, 2 undeveloped
8/21										beach not checked
8/22	Lil	B 82								4 more tracks from Kawa'a #3, basking track at S - Darby, no new tracks at Kalani
8/23	Camie & Ron									no new tracks
8/24										Diane couldn't go - H74 found dead at East Mo'omomi
8/25	Nadine									no new tracks
8/26										
8/27	Bill & Christi									no new tracks
8/28										
8/29	Lil									no new tracks at Kawa'aloa. W17 7/4 at Kalani hatched - fresh tracks/clear exit
8/30	Camie & Ron									no new tracks- Kawa'aloa or Kalani
8/31	Diane									no new tracks checked Kawa'aloa only
9/1	Lil, Camie, Ron, Christi, Elaine & Mac									dug Kawa'aloa #3 - 58 empty, 9 undeveloped - 1 damaged, kept 8/ Kawa'aloa #4 hatched
9/2	Nadine									no new tracks / possible new tracks out of Kalani W17
9/3	Christi									no new tracks/ possible new track out Kalani W17
9/4										
9/5	Lil									no new tracks
9/6	Lil, Camie, guests Crystal Egusa & Desi Puihi, Elaine & Gary, & Mac									dug Kawa'aloa #4 - 66 empties & 1 undeveloped/ Camie checked Kalani -
9/7										
9/8	Nadine									no new tracks
9/9	Elaine									no new tracks
9/10	Lil									no new tracks
9/11										
9/12	Lil									Kawa'aloa #5 hatched - #4 - looked to be 1 day old, exit marked/ flagged EK9 & Wk18
9/13	Ron									no new tracks from Kawa'aloa #5/ Kalani W#18 hatched exit marked
9/14	Diane									no new tracks from Kawa'aloa #5/ Kalani W#18 two new tracks out

9/15	Nadine	no new tracks
9/16	Elaine	no new tracks
9/17	Christi	no new tracks
9/18		beach not checked
<b>9/19</b>	<b>Lil, Diane, Christi &amp; Mac</b>	<b>dig Kawa'aloa #5 - 70 empty shells, 4 undeveloped</b>
9/20	Ron	no new tr
9/21		beach not checked
9/22	Nadine	no new tr
9/23	Elaine	no new tr
9/24	Christi	no new tr
9/25		beach not checked
9/26	Lil	no new tr
9/27		beach not checked
<b>9/28</b>	<b>Diane</b>	<b>beach cleanup - Diane, Nadine, Lil, Patricia &amp; Noa, Wailana, James &amp; Ali Kawa'aloa #6 hatched</b>
9/29	Nadine	no new tr
9/30	Elaine	no new tr
10/1	Christi	no new tr
10/2		
10/3	Lil	no new tr
10/4		beach not checked
10/5	Diane	no new tr
10/6		rain, beach not checked
<b>10/7</b>	<b>Elaine, Gary, Lil, Diane, Christi, Patricia, Ali &amp; Raven</b>	<b>no new tr, dug Kawa'aloa #6 - 69 empty shells, 3 undeveloped</b>
10/8	Christi	no new tr
10/9		
10/10	Lil	no new tr
10/11		beach not checked
10/12	Diane	no new tr
10/13	Nadine	no new tr
<b>10/14</b>	<b>Elaine</b>	<b>Kawa'aloa #7 hatched</b>
10/15	Christi	no new tr
10/16		
10/17	Lil	no new tracks
<b>10/18</b>	<b>Camie &amp; Ron, Lil, Diane, Elaine &amp; Mac</b>	<b>dig Kalani west #14, 17 &amp; 18 - #14 - 65 empty, 3 undeveloped, #17 - 58 empty, 7 undeveloped, #18 - 61 empty, 1 undeveloped</b>
10/19	Diane	no new tr
10/20	Nadine	no new tr
10/21	Elaine	no new tr
10/22	Christi	no new tr
10/23		rain
10/24		rain
10/25		<b>rain</b>
10/26		
10/27		
10/28	Elaine, Gary, Lil, Diane, Bill, Frances, Margaret, & Ron	<b>dig Kawa'aloa #7 - 66 empty shells, 8 undeveloped</b>

njury to its tail, most of it appeared to be missing.



2017 Nesting Green Sea Turtle Survey Kawa'aloa Bay, Molokai, HI.

All Trips In -

Activity Date	Excavation ID #	Map ID	Basking tracks	Map ID	False Crawls	Map ID
4/5			B1	S	FC1	M
4/7			B 2,3,4,5	S		
4/12			B6	S		
4/14			B7,8,9	S		
<b>4/18</b>	<b>1</b>	<b>S</b>	B10,11	S		
4/22			B12	S		
4/23			B13,14,15,16,17	S		
4/27			B 18, 19	S		
5/6			B20	S		
5/8			B21, 22	S		
5/10			B23	S		
5/12			B24	S		
5/13			B25,26,27,28	S		
5/14			B29,30,31,	S		
5/17			B32,33,34,35	S		
5/18					FC2	S
5/21			B36,37	S		
<b>5/22</b>	<b>2</b>	<b>M</b>				
5/23			B38,39	S		
5/24			B40,41,42,43	S		
5/26			B44	S		
5/28			B45	S		
5/30			B46,47	S		
6/1			B48,49,50,51	S		
6/4			B52,53,54	S		
6/10			B55	S		
6/11			B56,57,58	S		
6/13			B59,60,61	S		
6/14			B62	S		
6/15			B63	S		
6/20			B64,65	S		
<b>6/20</b>	<b>3</b>	<b>I/J</b>				
6/27			B66,67,68	S		
7/2			B69	O/P		
<b>7/3</b>	<b>4</b>	<b>I/J</b>				
7/14			B70	S		
7/18	<b>5</b>	<b>H</b>				
7/19			B71	S		
7/20			B72,73	S		
7/23			B74	S		
7/26			B75,76	S		
7/30			B77,78	S		
8/2	<b>6</b>	<b>J / K</b>				
8/6			B79	S		
8/12			B80	S		
<b>8/15</b>	<b>7</b>	<b>J</b>				
8/19			B81	S		
8/22			B82	S		

**Map ID Landmarks**

**East to West**

- A Pavillion
- B East End
- C Pavillion entrance
- D First Path Down
- E Last Path Down
- F Dead Naupaka
- G Dick's Path Down
- H Morning Glory East
- I Aki Grass
- J Morning Glory West
- K Cement Block
- L Gravel Hill
- M Fence Post
- N River
- O Swale 1
- P Swale 2
- Q White Cliff
- R Turtle Industry
- S Kaiehu Rock





