

# **Ikkatsu Survey Report**

Survey of Washington Coast, Summer 2012

**Ken Campbell  
Jason Goldstein  
Steve Weileman  
10/12/2012**





October 12, 2012 - The Ikkatsu Project, using sea kayaks to survey the remote beaches of the Olympic Peninsula, covered over 100 miles of coastline during this summer's expedition. Along the way, nine Standing Stock surveys were performed on a wide sampling of beaches, along with 4 separate small beach cleanings (Inspection and Collection operations.)

Significant items found included flotsam that can be directly attributed to the March 11, 2011 tsunami as well as general beach debris, much of it plastic. Included in the tsunami debris was the wreckage of a Japanese house found on Cape B Beach and a soccer ball from the Otsuchi Soccer Club in Otsuchi, Japan, one of the communities hardest-hit by the tsunami. Other items that appear to be related to the tsunami include a large number of floats consistent with those used in Japanese coastal aquaculture operations and styrofoam chunks that show signs of being building insulation, most likely from buildings that were destroyed in the tragedy and swept out to sea.

Initial results of the surveys performed indicate that the debris, both tsunami-related and otherwise, seems to be more heavily distributed along beaches near the northern sections of our route. The heaviest concentrations of plastic were found at beaches just south of Portage Head, in the southern portion of the Makah reservation, just outside the northern boundary of Olympic National Park. Other beaches that featured large amounts of marine debris included Warmhouse Beach (on the Strait of Juan de Fuca), the beaches just south of Cape Alava and the area near the Norwegian Memorial (both of which are in the park.) On the locations along the southern section of our route, the most significant concentrations of debris were found in pocket beaches north of Third Beach and in the immediate area around Cedar Creek.

There were no beaches that we encountered that could be called "clean." Every beach had debris in varying amounts. Although some beaches were more heavily impacted than others, each of them would have required significant time and effort to be rendered truly clean.

On one of the small pocket beaches just south of Cape Flattery where we performed an "Inspect and Collect," the pace of debris arrival was illustrated in a powerful way. We worked our way up from the waterline, picking up each piece of debris we came across as we moved up the beach. The beach was about 40 feet wide and approximately 35 feet deep and we collected four large trash bags of debris, along with several large plastic and styrofoam buoys. We placed the collected items above the high tide line and marked the location for future pickup. As we returned to the kayaks, there along the waterline were a half-dozen medium-to-large chunks of foam that had come ashore in the 45 minutes that we had taken to do our cleaning. The problem is significant and the pace of newly-arriving debris is staggering.

Much of the marine debris that we encountered has become heavily intertwined with natural materials. Plastic pieces and polypropylene netting is tangled in

sections of seaweed and driftwood and separating the items that don't belong from the ones that do would be a difficult task. Along the sections of beach grass at the high tide line, plastic debris (much of it bottles and fishing floats), is half-buried in the sand and virtually invisible. Any cleanup operations would be slow and would require a significant number of workers.

Based on our findings, we would expect the tsunami debris to have a greater impact on beaches along the northern section of our route. The beaches between Cape Flattery and Hobuck Beach, as well as the areas around Portage Head and the small beaches just south of Shi Shi will likely see more incoming flotsam than those farther to the south. There will undoubtedly be exceptions and there are some southern beaches that are prone to deposition but most of the collector beaches we encountered were farther north.

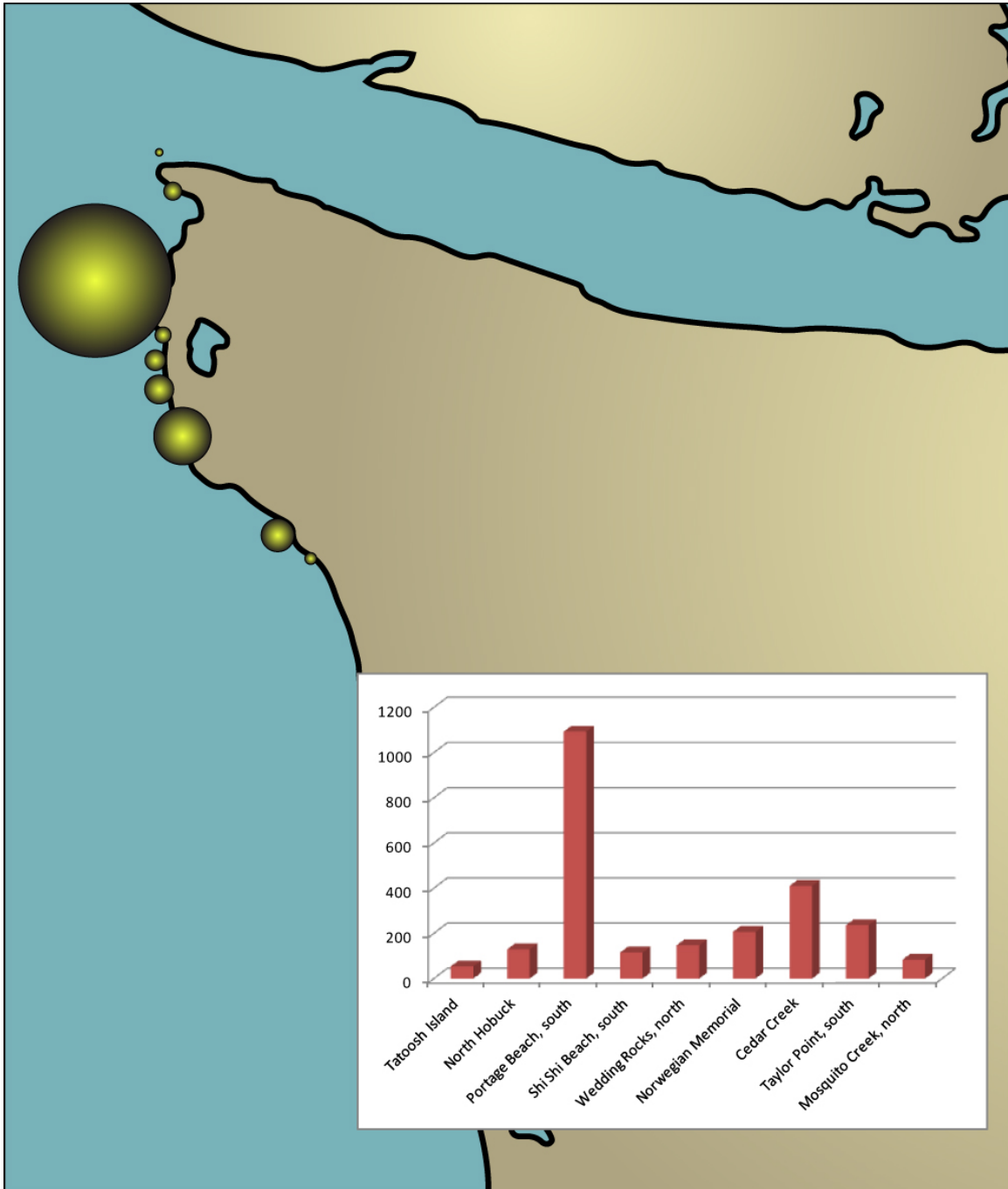


Figure 1: Density Totals of Survey





MARINE DEBRIS TALLY SHEET – IKKATSU PROJECT  
Olympic Coast Remote Beach Survey – Summer 2012

GENERAL SURVEY INFORMATION	
Surveyor/Data Collector Name:	Ken Campbell
Phone Number:	253-691-7941
Email:	ken@azimuthexpeditions.com
Date (mm/dd/yyyy):	6/11/2012
Start Time:	10:30 AM
End Time:	11:05 AM

SHORELINE LOCATION INFORMATION		
Shoreline/Beach Name:	Tatoosh Island	
County and State:	Clallam, WA	
GPS Coordinates at Start:	Lat: 48.39304	Long: 124.73594
GPS Coordinates at End:	Lat: 48.39297	Long: 124.73629
Width of Shoreline (meters):	30.48	

OTHER INFORMATION	
Date of last survey of this area:	unknown
Storm activity within the last week:	none
Current Weather:	30% Cloud over, Sunny, 5 knots wind

Number of Participants:	3
Photos Taken:	no

PLASTICS	
Plastic fragments (hard)	1
Plastic fragments (foamed)	5
Plastic fragments (film)	
Food wrappers	1
Beverage bottles	
Other jugs or containers	
Bottles or container caps	
Cigar tips	
Cigarettes/Filters	
Disposable cigarette lighters	
6-pack rings	
Bags	
Plastic rope/small net pieces	
Buoys and floats	
Fishing lures and line	
Cups (including foamed)	
Plastic utensils	
Straws	
Balloons	
Personal care products	
Plastic toys	
Other (not listed above; specify)	
METAL	
Aluminum/tin cans	
Aerosol cans	
Metal fragments	
Other (not listed above; specify)	

GLASS	
Beverage bottles	
Jars	
Glass fragments	
Other (not listed above; specify)	
RUBBER	
Flip-flops/slippers	
Gloves	
Tires	
Rubber fragments	
Other (not listed above; specify)	
PROCESSED LUMBER	
Cardboard cartons	
Paper and cardboard	
Paper bags	
Lumber and building material	2
Other (not listed above; specify)	
CLOTH/FABRIC	
Clothing and shoes	
Gloves (non-rubber)	
Towels/rags	
Rope/net pieces (non-nylon)	
Fabric pieces	
Other (not listed above; specify)	
OTHER NOTABLE ITEMS	

LARGE DEBRIS ITEMS (>1 foot or 0.3 meters)				
Item type (vessel, net, etc)	Status (sunken, stranded, buried)	Approx. width (m)	Approx. length (m)	Description/photo id #





MARINE DEBRIS TALLY SHEET – IKKATSU PROJECT  
Olympic Coast Remote Beach Survey – Summer 2012

GENERAL SURVEY INFORMATION	
Surveyor/Data Collector Name:	Jason Goldstein
Phone Number:	360-888-2389
Email:	jason.adventureguides@comcast.net
Date (mm/dd/yyyy):	6/11/2012
Start Time:	10:30 AM
End Time:	11:05 AM

SHORELINE LOCATION INFORMATION		
Shoreline/Beach Name:	Tatoosh Island	
County and State:	Clallam, WA	
GPS Coordinates at Start:	Lat: 48.39300	Long: 124.73595
GPS Coordinates at End:	Lat: 48.39293	Long: 124.73624
Width of Shoreline (meters):	27.43	

OTHER INFORMATION	
Date of last survey of this area:	unknown
Storm activity within the last week:	none
Current Weather:	30% Cloud over, Sunny, 5 knots wind

Number of Participants:	3
Photos Taken:	yes

PLASTICS	
Plastic fragments (hard)	2
Plastic fragments (foamed)	6
Plastic fragments (film)	
Food wrappers	
Beverage bottles	1
Other jugs or containers	
Bottles or container caps	
Cigar tips	
Cigarettes/Filters	
Disposable cigarette lighters	
6-pack rings	
Bags	
Plastic rope/small net pieces	
Buoys and floats	
Fishing lures and line	
Cups (including foamed)	
Plastic utensils	
Straws	
Balloons	
Personal care products	
Plastic toys	
Other (not listed above; specify)	
METAL	
Aluminum/tin cans	
Aerosol cans	
Metal fragments	
Other (not listed above; specify)	

GLASS	
Beverage bottles	
Jars	
Glass fragments	
Other (not listed above; specify)	
RUBBER	
Flip-flops/slippers	
Gloves	
Tires	
Rubber fragments	
Other (not listed above; specify)	
PROCESSED LUMBER	
Cardboard cartons	
Paper and cardboard	
Paper bags	
Lumber and building material	1
Other (not listed above; specify)	
CLOTH/FABRIC	
Clothing and shoes	
Gloves (non-rubber)	
Towels/rags	
Rope/net pieces (non-nylon)	
Fabric pieces	
Other (not listed above; specify)	cloth material; photo #101-0614
OTHER NOTABLE ITEMS	

LARGE DEBRIS ITEMS (>1 foot or 0.3 meters)				
Item type (vessel, net, etc)	Status (sunken, stranded, buried)	Approx. width (m)	Approx. length (m)	Description/photo id #



MARINE DEBRIS TALLY SHEET – IKKATSU PROJECT  
Olympic Coast Remote Beach Survey – Summer 2012

GENERAL SURVEY INFORMATION	
Surveyor/Data Collector Name:	Ken Campbell
Phone Number:	253-691-7941
Email:	ken@azimuthexpeditions.com
Date (mm/dd/yyyy):	6/11/2012
Start Time:	1:15 PM
End Time:	1:40 PM

SHORELINE LOCATION INFORMATION		
Shoreline/Beach Name:	Tatoosh Island	
County and State:	Clallam, WA	
GPS Coordinates at Start:	Lat: 48.39332	Long: 124.73603
GPS Coordinates at End:	Lat: 48.3932	Long: 124.73637
Width of Shoreline (meters):	31.70	

OTHER INFORMATION	
Date of last survey of this area:	unknown
Storm activity within the last week:	none
Current Weather:	30% Cloud over, Sunny, 5 knots wind

Number of Participants:	3
Photos Taken:	yes

PLASTICS	
Plastic fragments (hard)	
Plastic fragments (foamed)	2
Plastic fragments (film)	
Food wrappers	
Beverage bottles	
Other jugs or containers	
Bottles or container caps	
Cigar tips	
Cigarettes/Filters	
Disposable cigarette lighters	1
6-pack rings	
Bags	
Plastic rope/small net pieces	
Buoys and floats	
Fishing lures and line	
Cups (including foamed)	
Plastic utensils	
Straws	
Balloons	
Personal care products	
Plastic toys	
Other (not listed above; specify)	
METAL	
Aluminum/tin cans	
Aerosol cans	
Metal fragments	
Other (not listed above; specify)	

GLASS	
Beverage bottles	
Jars	
Glass fragments	2
Other (not listed above; specify)	
RUBBER	
Flip-flops/slippers	
Gloves	
Tires	
Rubber fragments	
Other (not listed above; specify)	
PROCESSED LUMBER	
Cardboard cartons	
Paper and cardboard	
Paper bags	
Lumber and building material	3
Other (not listed above; specify)	
CLOTH/FABRIC	
Clothing and shoes	
Gloves (non-rubber)	
Towels/rags	
Rope/net pieces (non-nylon)	
Fabric pieces	
Other (not listed above; specify)	
OTHER NOTABLE ITEMS	
Lighter w/ asian writing; photo# 101-0665,101-06666; ?28660/59?	

LARGE DEBRIS ITEMS (>1 foot or 0.3 meters)				
Item type (vessel, net, etc)	Status (sunken, stranded, buried)	Approx. width (m)	Approx. length (m)	Description/photo id #



MARINE DEBRIS TALLY SHEET – IKKATSU PROJECT  
Olympic Coast Remote Beach Survey – Summer 2012

GENERAL SURVEY INFORMATION	
Surveyor/Data Collector Name:	Steve Weileman
Phone Number:	253-254-5007
Email:	steve@xexplore.com
Date (mm/dd/yyyy):	6/11/2012
Start Time:	1:15 PM
End Time:	1:35 PM

SHORELINE LOCATION INFORMATION		
Shoreline/Beach Name:	Tatoosh Island	
County and State:	Clallam, WA	
GPS Coordinates at Start:	Lat: 48.39288	Long: 124.73576
GPS Coordinates at End:	Lat: 48.39268	Long: 134.73621
Width of Shoreline (meters):	40.84	

OTHER INFORMATION	
Date of last survey of this area:	unknown
Storm activity within the last week:	none
Current Weather:	30% Cloud over, Sunny, 5 knots wind

Number of Participants:	3
Photos Taken:	yes

PLASTICS	
Plastic fragments (hard)	4
Plastic fragments (foamed)	6
Plastic fragments (film)	1
Food wrappers	
Beverage bottles	5
Other jugs or containers	
Bottles or container caps	2
Cigar tips	
Cigarettes/Filters	
Disposable cigarette lighters	1
6-pack rings	
Bags	
Plastic rope/small net pieces	1
Buoys and floats	
Fishing lures and line	2
Cups (including foamed)	
Plastic utensils	
Straws	
Balloons	
Personal care products	
Plastic toys	1
Other (not listed above; specify)	fireworks cap; 1
METAL	
Aluminum/tin cans	
Aerosol cans	
Metal fragments	1
Other (not listed above; specify)	

GLASS	
Beverage bottles	
Jars	
Glass fragments	
Other (not listed above; specify)	
RUBBER	
Flip-flops/slippers	1
Gloves	
Tires	
Rubber fragments	2
Other (not listed above; specify)	
PROCESSED LUMBER	
Cardboard cartons	
Paper and cardboard	
Paper bags	
Lumber and building material	
Other (not listed above; specify)	
CLOTH/FABRIC	
Clothing and shoes	type 6 buoy; photo #103-5660
Gloves (non-rubber)	
Towels/rags	
Rope/net pieces (non-nylon)	
Fabric pieces	
Other (not listed above; specify)	
OTHER NOTABLE ITEMS	

LARGE DEBRIS ITEMS (>1 foot or 0.3 meters)				
Item type (vessel, net, etc)	Status (sunken, stranded, buried)	Approx. width (m)	Approx. length (m)	Description/photo id #
cable, steel	partial buried	0.03	6.71	103-5658
Oil container		0.15	0.25	103-5659



MARINE DEBRIS TALLY SHEET – IKKATSU PROJECT  
Olympic Coast Remote Beach Survey – Summer 2012

GENERAL SURVEY INFORMATION	
Surveyor/Data Collector Name:	Ken Campbell
Phone Number:	253-691-7941
Email:	ken@azimuthexpeditions.com
Date (mm/dd/yyyy):	6/12/2012
Start Time:	3:25 PM
End Time:	3:41 PM

SHORELINE LOCATION INFORMATION		
Shoreline/Beach Name:	North Hobuck	
County and State:	Clallam, WA	
GPS Coordinates at Start:	Lat: 48.35934	Long: 124.70767
GPS Coordinates at End:	Lat: 48.35947	Long: 124.70707
Width of Shoreline (meters):	59.74	

OTHER INFORMATION	
Date of last survey of this area:	unknown
Storm activity within the last week:	none
Current Weather:	100% Cloud cover, mist/fog, 5 knots wind

Number of Participants:	3
Photos Taken:	yes

PLASTICS	
Plastic fragments (hard)	2
Plastic fragments (foamed)	8
Plastic fragments (film)	1
Food wrappers	
Beverage bottles	1
Other jugs or containers	
Bottles or container caps	
Cigar tips	
Cigarettes/Filters	
Disposable cigarette lighters	
6-pack rings	
Bags	
Plastic rope/small net pieces	
Buoys and floats	
Fishing lures and line	
Cups (including foamed)	
Plastic utensils	
Straws	
Balloons	
Personal care products	
Plastic toys	
Other (not listed above; specify)	
METAL	
Aluminum/tin cans	
Aerosol cans	
Metal fragments	
Other (not listed above; specify)	

GLASS	
Beverage bottles	1
Jars	
Glass fragments	
Other (not listed above; specify)	
RUBBER	
Flip-flops/slippers	
Gloves	
Tires	
Rubber fragments	
Other (not listed above; specify)	
PROCESSED LUMBER	
Cardboard cartons	
Paper and cardboard	
Paper bags	
Lumber and building material	
Other (not listed above; specify)	
CLOTH/FABRIC	
Clothing and shoes	
Gloves (non-rubber)	
Towels/rags	
Rope/net pieces (non-nylon)	
Fabric pieces	
Other (not listed above; specify)	
OTHER NOTABLE ITEMS	

LARGE DEBRIS ITEMS (>1 foot or 0.3 meters)				
Item type (vessel, net, etc)	Status (sunken, stranded, buried)	Approx. width (m)	Approx. length (m)	Description/photo id #





MARINE DEBRIS TALLY SHEET – IKKATSU PROJECT  
Olympic Coast Remote Beach Survey – Summer 2012

GENERAL SURVEY INFORMATION	
Surveyor/Data Collector Name:	Jason Goldstein
Phone Number:	360-888-2389
Email:	jason.adventureguides@comcast.net
Date (mm/dd/yyyy):	6/12/2012
Start Time:	3:40 PM
End Time:	3:52 PM

SHORELINE LOCATION INFORMATION		
Shoreline/Beach Name:	North Hobuck	
County and State:	Clallam, WA	
GPS Coordinates at Start:	Lat: 48.35921	Long: 124.7076
GPS Coordinates at End:	Lat: 48.3594	Long: 124.70703
Width of Shoreline (meters):	55.78	

OTHER INFORMATION	
Date of last survey of this area:	unknown
Storm activity within the last week:	none
Current Weather:	100% Cloud cover, mist/fog, 5 knots wind

Number of Participants:	3
Photos Taken:	no

PLASTICS	
Plastic fragments (hard)	2
Plastic fragments (foamed)	24
Plastic fragments (film)	
Food wrappers	1
Beverage bottles	2
Other jugs or containers	1
Bottles or container caps	1
Cigar tips	
Cigarettes/Filters	
Disposable cigarette lighters	
6-pack rings	
Bags	
Plastic rope/small net pieces	
Buoys and floats	1
Fishing lures and line	
Cups (including foamed)	
Plastic utensils	
Straws	
Balloons	
Personal care products	
Plastic toys	
Other (not listed above; specify)	
METAL	
Aluminum/tin cans	
Aerosol cans	
Metal fragments	
Other (not listed above; specify)	

GLASS	
Beverage bottles	
Jars	
Glass fragments	
Other (not listed above; specify)	
RUBBER	
Flip-flops/slippers	
Gloves	
Tires	
Rubber fragments	
Other (not listed above; specify)	
PROCESSED LUMBER	
Cardboard cartons	
Paper and cardboard	
Paper bags	
Lumber and building material	2
Other (not listed above; specify)	
CLOTH/FABRIC	
Clothing and shoes	
Gloves (non-rubber)	
Towels/rags	
Rope/net pieces (non-nylon)	
Fabric pieces	
Other (not listed above; specify)	
OTHER NOTABLE ITEMS	

LARGE DEBRIS ITEMS (>1 foot or 0.3 meters)				
Item type (vessel, net, etc)	Status (sunken, stranded, buried)	Approx. width (m)	Approx. length (m)	Description/photo id #



MARINE DEBRIS TALLY SHEET – IKKATSU PROJECT  
Olympic Coast Remote Beach Survey – Summer 2012

GENERAL SURVEY INFORMATION	
Surveyor/Data Collector Name:	Ken Campbell
Phone Number:	253-691-7941
Email:	ken@azimuthexpeditions.com
Date (mm/dd/yyyy):	6/12/2012
Start Time:	3:50 PM
End Time:	4:15 PM

SHORELINE LOCATION INFORMATION		
Shoreline/Beach Name:	North Hobuck	
County and State:	Clallam, WA	
GPS Coordinates at Start:	Lat: 48.35888	Long: 124.70747
GPS Coordinates at End:	Lat: 48.35906	Long: 124.70660
Width of Shoreline (meters):	83.21	

OTHER INFORMATION	
Date of last survey of this area:	unknown
Storm activity within the last week:	none
Current Weather:	100% Cloud cover, mist/fog, 5 knots wind

Number of Participants:	3
Photos Taken:	no

PLASTICS	
Plastic fragments (hard)	2
Plastic fragments (foamed)	44
Plastic fragments (film)	
Food wrappers	
Beverage bottles	9
Other jugs or containers	1
Bottles or container caps	
Cigar tips	
Cigarettes/Filters	
Disposable cigarette lighters	
6-pack rings	
Bags	
Plastic rope/small net pieces	5
Buoys and floats	5
Fishing lures and line	
Cups (including foamed)	
Plastic utensils	
Straws	
Balloons	1
Personal care products	
Plastic toys	
Other (not listed above; specify)	Foam insole; 1
METAL	
Aluminum/tin cans	
Aerosol cans	
Metal fragments	
Other (not listed above; specify)	

GLASS	
Beverage bottles	
Jars	
Glass fragments	
Other (not listed above; specify)	
RUBBER	
Flip-flops/slippers	
Gloves	
Tires	
Rubber fragments	
Other (not listed above; specify)	
PROCESSED LUMBER	
Cardboard cartons	
Paper and cardboard	
Paper bags	
Lumber and building material	2
Other (not listed above; specify)	
CLOTH/FABRIC	
Clothing and shoes	
Gloves (non-rubber)	
Towels/rags	
Rope/net pieces (non-nylon)	
Fabric pieces	
Other (not listed above; specify)	
OTHER NOTABLE ITEMS	

LARGE DEBRIS ITEMS (>1 foot or 0.3 meters)				
Item type (vessel, net, etc)	Status (sunken, stranded, buried)	Approx. width (m)	Approx. length (m)	Description/photo id #



MARINE DEBRIS TALLY SHEET – IKKATSU PROJECT  
Olympic Coast Remote Beach Survey – Summer 2012

GENERAL SURVEY INFORMATION	
Surveyor/Data Collector Name:	Steve Weileman
Phone Number:	253-254-5007
Email:	steve@xexplore.com
Date (mm/dd/yyyy):	6/12/2012
Start Time:	4:25 PM
End Time:	4:52 PM

SHORELINE LOCATION INFORMATION		
Shoreline/Beach Name:	North Hobuck	
County and State:	Clallam, WA	
GPS Coordinates at Start:	Lat: 48.35867	Long: 124.70705
GPS Coordinates at End:	Lat: 48.35871	Long: 124.70632
Width of Shoreline (meters):	69.49	

OTHER INFORMATION	
Date of last survey of this area:	unknown
Storm activity within the last week:	none
Current Weather:	100% Cloud cover, mist/fog, 5 knots wind

Number of Participants:	3
Photos Taken:	no

PLASTICS	
Plastic fragments (hard)	6
Plastic fragments (foamed)	4
Plastic fragments (film)	
Food wrappers	
Beverage bottles	
Other jugs or containers	
Bottles or container caps	1
Cigar tips	
Cigarettes/Filters	
Disposable cigarette lighters	
6-pack rings	
Bags	
Plastic rope/small net pieces	
Buoys and floats	
Fishing lures and line	2
Cups (including foamed)	
Plastic utensils	
Straws	
Balloons	
Personal care products	
Plastic toys	
Other (not listed above; specify)	
METAL	
Aluminum/tin cans	
Aerosol cans	
Metal fragments	
Other (not listed above; specify)	

GLASS	
Beverage bottles	
Jars	
Glass fragments	
Other (not listed above; specify)	
RUBBER	
Flip-flops/slippers	
Gloves	
Tires	
Rubber fragments	
Other (not listed above; specify)	
PROCESSED LUMBER	
Cardboard cartons	
Paper and cardboard	
Paper bags	
Lumber and building material	
Other (not listed above; specify)	
CLOTH/FABRIC	
Clothing and shoes	
Gloves (non-rubber)	
Towels/rags	
Rope/net pieces (non-nylon)	
Fabric pieces	
Other (not listed above; specify)	
OTHER NOTABLE ITEMS	

LARGE DEBRIS ITEMS (>1 foot or 0.3 meters)				
Item type (vessel, net, etc)	Status (sunken, stranded, buried)	Approx. width (m)	Approx. length (m)	Description/photo id #



MARINE DEBRIS TALLY SHEET – IKKATSU PROJECT  
Olympic Coast Remote Beach Survey – Summer 2012

GENERAL SURVEY INFORMATION	
Surveyor/Data Collector Name:	Jason Goldstein
Phone Number:	360-888-2389
Email:	jason.adventureguides@comcast.net
Date (mm/dd/yyyy):	7/3/2012
Start Time:	9:45 AM
End Time:	10:15 AM

SHORELINE LOCATION INFORMATION		
Shoreline/Beach Name:	Portage Beach, south	
County and State:	Clallam, WA	
GPS Coordinates at Start:	Lat: 48.28455	Long: 124.68307
GPS Coordinates at End:	Lat: 48.28459	Long: 124.68268
Width of Shoreline (meters):	41.15	

OTHER INFORMATION	
Date of last survey of this area:	unknown
Storm activity within the last week:	none
Current Weather:	90% Cloud cover, 5-10 knots wind

Number of Participants:	3
Photos Taken:	yes

<b>PLASTICS</b>	
Plastic fragments (hard)	4
Plastic fragments (foamed)	790
Plastic fragments (film)	
Food wrappers	
Beverage bottles	13
Other jugs or containers	2
Bottles or container caps	
Cigar tips	
Cigarettes/Filters	
Disposable cigarette lighters	1
6-pack rings	
Bags	
Plastic rope/small net pieces	
Buoys and floats	35
Fishing lures and line	
Cups (including foamed)	
Plastic utensils	
Straws	
Balloons	
Personal care products	
Plastic toys	
Other (not listed above; specify)	
<b>METAL</b>	
Aluminum/tin cans	
Aerosol cans	
Metal fragments	
Other (not listed above; specify)	
<b>GLASS</b>	
Beverage bottles	

Jars	
Glass fragments	
Other (not listed above; specify)	
<b>RUBBER</b>	
Flip-flops/slippers	6
Gloves	
Tires	
Rubber fragments	1
Other (not listed above; specify)	
<b>PROCESSED LUMBER</b>	
Cardboard cartons	
Paper and cardboard	
Paper bags	
Lumber and building material	6
Other (not listed above; specify)	
<b>CLOTH/FABRIC</b>	
Clothing and shoes	
Gloves (non-rubber)	
Towels/rags	
Rope/net pieces (non-nylon)	1
Fabric pieces	
Other (not listed above; specify)	
<b>OTHER NOTABLE ITEMS</b>	
See photos: jp_img_0818.jpg,jp_img_0819.jpg,jp_img_0820.jpg	

<b>LARGE DEBRIS ITEMS (&gt;1 foot or 0.3 meters)</b>				
Item type (vessel, net, etc)	Status (sunken, stranded, buried)	Approx. width (m)	Approx. length (m)	Description/photo id #





MARINE DEBRIS TALLY SHEET – IKKATSU PROJECT  
Olympic Coast Remote Beach Survey – Summer 2012

GENERAL SURVEY INFORMATION	
Surveyor/Data Collector Name:	Steve Weileman
Phone Number:	253-254-5007
Email:	steve@xexplore.com
Date (mm/dd/yyyy):	7/3/2012
Start Time:	10:37 AM
End Time:	10:57 AM

SHORELINE LOCATION INFORMATION		
Shoreline/Beach Name:	Portage Beach, south	
County and State:	Clallam, WA	
GPS Coordinates at Start:	Lat: 48.28464	Long: 124.68334
GPS Coordinates at End:	Lat: 48.28487	Long: 124.68331
Width of Shoreline (meters):	10.67	

OTHER INFORMATION	
Date of last survey of this area:	unknown
Storm activity within the last week:	none
Current Weather:	90% Cloud cover, 5-10 knots wind

Number of Participants:	3
Photos Taken:	yes

PLASTICS	
Plastic fragments (hard)	
Plastic fragments (foamed)	95
Plastic fragments (film)	
Food wrappers	
Beverage bottles	3
Other jugs or containers	1
Bottles or container caps	
Cigar tips	
Cigarettes/Filters	
Disposable cigarette lighters	
6-pack rings	
Bags	
Plastic rope/small net pieces	2
Buoys and floats	
Fishing lures and line	
Cups (including foamed)	
Plastic utensils	
Straws	
Balloons	
Personal care products	
Plastic toys	
Other (not listed above; specify)	
METAL	
Aluminum/tin cans	
Aerosol cans	
Metal fragments	
Other (not listed above; specify)	

GLASS	
Beverage bottles	
Jars	
Glass fragments	
Other (not listed above; specify)	
RUBBER	
Flip-flops/slippers	
Gloves	
Tires	
Rubber fragments	
Other (not listed above; specify)	
PROCESSED LUMBER	
Cardboard cartons	
Paper and cardboard	
Paper bags	
Lumber and building material	
Other (not listed above; specify)	
CLOTH/FABRIC	
Clothing and shoes	
Gloves (non-rubber)	
Towels/rags	
Rope/net pieces (non-nylon)	
Fabric pieces	
Other (not listed above; specify)	
OTHER NOTABLE ITEMS	
Type 6 buoys; 7 jp_img_0823.jpg	

LARGE DEBRIS ITEMS (>1 foot or 0.3 meters)				
Item type (vessel, net, etc)	Status (sunken, stranded, buried)	Approx. width (m)	Approx. length (m)	Description/photo id #



GENERAL SURVEY INFORMATION	
Surveyor/Data Collector Name:	Ken Campbell
Phone Number:	253-691-7941
Email:	ken@azimuthexpeditions.com
Date (mm/dd/yyyy):	7/3/2012
Start Time:	11:00 AM
End Time:	12:00 PM

SHORELINE LOCATION INFORMATION		
Shoreline/Beach Name:	Portage Beach, south	
County and State:	Clallam, WA	
GPS Coordinates at Start:	Lat: 48.28478	Long: 124.68314
GPS Coordinates at End:	Lat: 48.28479	Long: 124.68281
Width of Shoreline (meters):	32.92	

OTHER INFORMATION	
Date of last survey of this area:	unknown
Storm activity within the last week:	none
Current Weather:	90% Cloud cover, 5-10 knots wind

Number of Participants:	3
Photos Taken:	yes

PLASTICS	
Plastic fragments (hard)	
Plastic fragments (foamed)	110
Plastic fragments (film)	
Food wrappers	
Beverage bottles	11
Other jugs or containers	1
Bottles or container caps	
Cigar tips	
Cigarettes/Filters	
Disposable cigarette lighters	
6-pack rings	
Bags	
Plastic rope/small net pieces	
Buoys and floats	7
Fishing lures and line	
Cups (including foamed)	
Plastic utensils	
Straws	
Balloons	
Personal care products	
Plastic toys	
Other (not listed above; specify)	
METAL	
Aluminum/tin cans	
Aerosol cans	
Metal fragments	
Other (not listed above; specify)	

GLASS	
Beverage bottles	
Jars	
Glass fragments	
Other (not listed above; specify)	
RUBBER	
Flip-flops/slippers	1
Gloves	
Tires	
Rubber fragments	
Other (not listed above; specify)	
PROCESSED LUMBER	
Cardboard cartons	
Paper and cardboard	
Paper bags	
Lumber and building material	3
Other (not listed above; specify)	
CLOTH/FABRIC	
Clothing and shoes	
Gloves (non-rubber)	
Towels/rags	
Rope/net pieces (non-nylon)	
Fabric pieces	
Other (not listed above; specify)	
OTHER NOTABLE ITEMS	
lumber marked w/ Japanese stamp	

LARGE DEBRIS ITEMS (>1 foot or 0.3 meters)				
Item type (vessel, net, etc)	Status (sunken, stranded, buried)	Approx. width (m)	Approx. length (m)	Description/photo id #



MARINE DEBRIS TALLY SHEET – IKKATSU PROJECT  
Olympic Coast Remote Beach Survey – Summer 2012

GENERAL SURVEY INFORMATION	
Surveyor/Data Collector Name:	Ken Campbell
Phone Number:	253-691-7941
Email:	ken@azimuthexpeditions.com
Date (mm/dd/yyyy):	7/5/2012
Start Time:	10:40 AM
End Time:	11:00 AM

SHORELINE LOCATION INFORMATION		
Shoreline/Beach Name:	Shi Shi Beach, south	
County and State:	Clallam, WA	
GPS Coordinates at Start:	Lat: 48.24779	Long: 124.69756
GPS Coordinates at End:	Lat: 48.24748	Long: 124.69737
Width of Shoreline (meters):	45.72	

OTHER INFORMATION	
Date of last survey of this area:	unknown
Storm activity within the last week:	4 days prior, gale warnings
Current Weather:	0% Cloud cover, 5 knots wind

Number of Participants:	3
Photos Taken:	no

PLASTICS	
Plastic fragments (hard)	7
Plastic fragments (foamed)	15
Plastic fragments (film)	1
Food wrappers	4
Beverage bottles	
Other jugs or containers	
Bottles or container caps	
Cigar tips	
Cigarettes/Filters	
Disposable cigarette lighters	
6-pack rings	
Bags	
Plastic rope/small net pieces	2
Buoys and floats	
Fishing lures and line	1
Cups (including foamed)	1
Plastic utensils	
Straws	
Balloons	
Personal care products	
Plastic toys	
Other (not listed above; specify)	
METAL	
Aluminum/tin cans	
Aerosol cans	
Metal fragments	
Other (not listed above; specify)	

GLASS	
Beverage bottles	
Jars	
Glass fragments	
Other (not listed above; specify)	
RUBBER	
Flip-flops/slippers	
Gloves	
Tires	
Rubber fragments	
Other (not listed above; specify)	
PROCESSED LUMBER	
Cardboard cartons	
Paper and cardboard	
Paper bags	
Lumber and building material	
Other (not listed above; specify)	
CLOTH/FABRIC	
Clothing and shoes	
Gloves (non-rubber)	
Towels/rags	
Rope/net pieces (non-nylon)	
Fabric pieces	
Other (not listed above; specify)	
OTHER NOTABLE ITEMS	

LARGE DEBRIS ITEMS (>1 foot or 0.3 meters)				
Item type (vessel, net, etc)	Status (sunken, stranded, buried)	Approx. width (m)	Approx. length (m)	Description/photo id #



MARINE DEBRIS TALLY SHEET – IKKATSU PROJECT  
Olympic Coast Remote Beach Survey – Summer 2012

GENERAL SURVEY INFORMATION	
Surveyor/Data Collector Name:	Jason Goldstein
Phone Number:	360-888-2389
Email:	jason.adventureguides@comcast.net
Date (mm/dd/yyyy):	7/5/2012
Start Time:	10:45 AM
End Time:	11:00 AM

SHORELINE LOCATION INFORMATION		
Shoreline/Beach Name:	Shi Shi Beach, south	
County and State:	Clallam, WA	
GPS Coordinates at Start:	Lat: 48.24792	Long: 124.69716
GPS Coordinates at End:	Lat: 48.24760	Long: 124.69700
Width of Shoreline (meters):	37.80	

OTHER INFORMATION	
Date of last survey of this area:	unknown
Storm activity within the last week:	3 days prior, gale warnings
Current Weather:	0% Cloud cover, 5 knots wind

Number of Participants:	3
Photos Taken:	no

PLASTICS	
Plastic fragments (hard)	20
Plastic fragments (foamed)	10
Plastic fragments (film)	
Food wrappers	
Beverage bottles	1
Other jugs or containers	
Bottles or container caps	2
Cigar tips	
Cigarettes/Filters	
Disposable cigarette lighters	
6-pack rings	
Bags	
Plastic rope/small net pieces	
Buoys and floats	
Fishing lures and line	
Cups (including foamed)	
Plastic utensils	
Straws	
Balloons	
Personal care products	
Plastic toys	
Other (not listed above; specify)	
METAL	
Aluminum/tin cans	
Aerosol cans	
Metal fragments	
Other (not listed above; specify)	

GLASS	
Beverage bottles	
Jars	
Glass fragments	
Other (not listed above; specify)	
RUBBER	
Flip-flops/slippers	
Gloves	
Tires	
Rubber fragments	
Other (not listed above; specify)	
PROCESSED LUMBER	
Cardboard cartons	
Paper and cardboard	
Paper bags	
Lumber and building material	
Other (not listed above; specify)	
CLOTH/FABRIC	
Clothing and shoes	
Gloves (non-rubber)	
Towels/rags	
Rope/net pieces (non-nylon)	
Fabric pieces	
Other (not listed above; specify)	
OTHER NOTABLE ITEMS	

LARGE DEBRIS ITEMS (>1 foot or 0.3 meters)				
Item type (vessel, net, etc)	Status (sunken, stranded, buried)	Approx. width (m)	Approx. length (m)	Description/photo id #





MARINE DEBRIS TALLY SHEET – IKKATSU PROJECT  
Olympic Coast Remote Beach Survey – Summer 2012

GENERAL SURVEY INFORMATION	
Surveyor/Data Collector Name:	Steve Weileman
Phone Number:	253-254-5007
Email:	steve@xexplore.com
Date (mm/dd/yyyy):	7/5/2012
Start Time:	11:09 AM
End Time:	11:17 AM

SHORELINE LOCATION INFORMATION		
Shoreline/Beach Name:	Shi Shi Beach, south	
County and State:	Clallam, WA	
GPS Coordinates at Start:	Lat: 48.24773	Long: 124.69772
GPS Coordinates at End:	Lat: 48.24741	Long: 124.69753
Width of Shoreline (meters):	50.60	

OTHER INFORMATION	
Date of last survey of this area:	unknown
Storm activity within the last week:	3 days prior, gale warnings
Current Weather:	0% Cloud cover, 5 knots wind

Number of Participants:	3
Photos Taken:	no

PLASTICS	
Plastic fragments (hard)	3
Plastic fragments (foamed)	2
Plastic fragments (film)	
Food wrappers	
Beverage bottles	1
Other jugs or containers	
Bottles or container caps	2
Cigar tips	
Cigarettes/Filters	
Disposable cigarette lighters	1
6-pack rings	
Bags	
Plastic rope/small net pieces	1
Buoys and floats	1
Fishing lures and line	1
Cups (including foamed)	
Plastic utensils	
Straws	
Balloons	
Personal care products	
Plastic toys	
Other (not listed above; specify)	Shotgun wad; 1
METAL	
Aluminum/tin cans	
Aerosol cans	
Metal fragments	
Other (not listed above; specify)	

GLASS	
Beverage bottles	
Jars	
Glass fragments	
Other (not listed above; specify)	
RUBBER	
Flip-flops/slippers	
Gloves	
Tires	
Rubber fragments	
Other (not listed above; specify)	
PROCESSED LUMBER	
Cardboard cartons	
Paper and cardboard	
Paper bags	
Lumber and building material	
Other (not listed above; specify)	
CLOTH/FABRIC	
Clothing and shoes	
Gloves (non-rubber)	
Towels/rags	
Rope/net pieces (non-nylon)	
Fabric pieces	
Other (not listed above; specify)	
OTHER NOTABLE ITEMS	

LARGE DEBRIS ITEMS (>1 foot or 0.3 meters)				
Item type (vessel, net, etc)	Status (sunken, stranded, buried)	Approx. width (m)	Approx. length (m)	Description/photo id #



MARINE DEBRIS TALLY SHEET – IKKATSU PROJECT  
Olympic Coast Remote Beach Survey – Summer 2012

GENERAL SURVEY INFORMATION	
Surveyor/Data Collector Name:	Jason Goldstein
Phone Number:	360-888-2389
Email:	jason.adventureguides@comcast.net
Date (mm/dd/yyyy):	7/5/2012
Start Time:	11:23 AM
End Time:	11:40 AM

SHORELINE LOCATION INFORMATION		
Shoreline/Beach Name:	Shi Shi Beach, south	
County and State:	Clallam, WA	
GPS Coordinates at Start:	Lat: 48.24771	Long: 124.69788
GPS Coordinates at End:	Lat: 48.24739	Long: 124.69769
Width of Shoreline (meters):	43.89	

OTHER INFORMATION	
Date of last survey of this area:	unknown
Storm activity within the last week:	3 days prior, gale warnings
Current Weather:	0% Cloud cover, 5 knots wind

Number of Participants:	3
Photos Taken:	no

PLASTICS	
Plastic fragments (hard)	3
Plastic fragments (foamed)	30
Plastic fragments (film)	
Food wrappers	
Beverage bottles	1
Other jugs or containers	
Bottles or container caps	4
Cigar tips	
Cigarettes/Filters	
Disposable cigarette lighters	
6-pack rings	
Bags	
Plastic rope/small net pieces	1
Buoys and floats	
Fishing lures and line	
Cups (including foamed)	
Plastic utensils	
Straws	
Balloons	
Personal care products	
Plastic toys	
Other (not listed above; specify)	
METAL	
Aluminum/tin cans	
Aerosol cans	
Metal fragments	
Other (not listed above; specify)	

GLASS	
Beverage bottles	
Jars	
Glass fragments	
Other (not listed above; specify)	
RUBBER	
Flip-flops/slippers	
Gloves	
Tires	
Rubber fragments	
Other (not listed above; specify)	
PROCESSED LUMBER	
Cardboard cartons	
Paper and cardboard	
Paper bags	
Lumber and building material	
Other (not listed above; specify)	
CLOTH/FABRIC	
Clothing and shoes	
Gloves (non-rubber)	
Towels/rags	
Rope/net pieces (non-nylon)	
Fabric pieces	
Other (not listed above; specify)	
OTHER NOTABLE ITEMS	

LARGE DEBRIS ITEMS (>1 foot or 0.3 meters)				
Item type (vessel, net, etc)	Status (sunken, stranded, buried)	Approx. width (m)	Approx. length (m)	Description/photo id #



MARINE DEBRIS TALLY SHEET – IKKATSU PROJECT  
Olympic Coast Remote Beach Survey – Summer 2012

GENERAL SURVEY INFORMATION	
Surveyor/Data Collector Name:	Ken Campbell
Phone Number:	253-691-7941
Email:	ken@azimuthexpeditions.com
Date (mm/dd/yyyy):	7/6/2012
Start Time:	1:55 AM
End Time:	2:20 PM

SHORELINE LOCATION INFORMATION		
Shoreline/Beach Name:	Wedding Rocks, north	
County and State:	Clallam, WA	
GPS Coordinates at Start:	Lat: 48.15298	Long: 124.72162
GPS Coordinates at End:	Lat: 48.15303	Long: 124.72146
Width of Shoreline (meters):	12.80	

OTHER INFORMATION	
Date of last survey of this area:	unknown
Storm activity within the last week:	3 days prior, gale warnings
Current Weather:	10% Cloud cover, 10-15 knots wind

Number of Participants:	3
Photos Taken:	no

PLASTICS	
Plastic fragments (hard)	9
Plastic fragments (foamed)	32
Plastic fragments (film)	
Food wrappers	
Beverage bottles	1
Other jugs or containers	1
Bottles or container caps	
Cigar tips	
Cigarettes/Filters	
Disposable cigarette lighters	
6-pack rings	
Bags	
Plastic rope/small net pieces	
Buoys and floats	2
Fishing lures and line	
Cups (including foamed)	
Plastic utensils	
Straws	1
Balloons	
Personal care products	
Plastic toys	
Other (not listed above; specify)	
METAL	
Aluminum/tin cans	
Aerosol cans	
Metal fragments	
Other (not listed above; specify)	

GLASS	
Beverage bottles	
Jars	
Glass fragments	
Other (not listed above; specify)	
RUBBER	
Flip-flops/slippers	
Gloves	
Tires	
Rubber fragments	
Other (not listed above; specify)	
PROCESSED LUMBER	
Cardboard cartons	
Paper and cardboard	
Paper bags	
Lumber and building material	8
Other (not listed above; specify)	
CLOTH/FABRIC	
Clothing and shoes	
Gloves (non-rubber)	
Towels/rags	
Rope/net pieces (non-nylon)	
Fabric pieces	
Other (not listed above; specify)	
OTHER NOTABLE ITEMS	

LARGE DEBRIS ITEMS (>1 foot or 0.3 meters)				
Item type (vessel, net, etc)	Status (sunken, stranded, buried)	Approx. width (m)	Approx. length (m)	Description/photo id #



GENERAL SURVEY INFORMATION	
Surveyor/Data Collector Name:	Jason Goldstein
Phone Number:	360-888-2389
Email:	jason.adventureguides@comcast.net
Date (mm/dd/yyyy):	7/6/2012
Start Time:	1:25 PM
End Time:	1:40 PM

SHORELINE LOCATION INFORMATION		
Shoreline/Beach Name:	Wedding Rocks, north	
County and State:	Clallam, WA	
GPS Coordinates at Start:	Lat: 48.15251	Long: 124.72133
GPS Coordinates at End:	Lat: 48.15256	Long: 124.72109
Width of Shoreline (meters):	18.29	

OTHER INFORMATION	
Date of last survey of this area:	unknown
Storm activity within the last week:	3 days prior, gale warnings
Current Weather:	10% Cloud cover, 10-15 knots wind

Number of Participants:	3
Photos Taken:	yes

<b>PLASTICS</b>	
Plastic fragments (hard)	2
Plastic fragments (foamed)	35
Plastic fragments (film)	
Food wrappers	
Beverage bottles	1
Other jugs or containers	1
Bottles or container caps	1
Cigar tips	
Cigarettes/Filters	
Disposable cigarette lighters	
6-pack rings	
Bags	
Plastic rope/small net pieces	1
Buoys and floats	1
Fishing lures and line	1
Cups (including foamed)	
Plastic utensils	
Straws	
Balloons	
Personal care products	
Plastic toys	
Other (not listed above; specify)	
<b>METAL</b>	
Aluminum/tin cans	
Aerosol cans	
Metal fragments	
Other (not listed above; specify)	
<b>GLASS</b>	
Beverage bottles	
Jars	

Glass fragments	
Other (not listed above; specify)	
<b>RUBBER</b>	
Flip-flops/slippers	
Gloves	
Tires	
Rubber fragments	
Other (not listed above; specify)	
<b>PROCESSED LUMBER</b>	
Cardboard cartons	
Paper and cardboard	
Paper bags	
Lumber and building material	1
Other (not listed above; specify)	
<b>CLOTH/FABRIC</b>	
Clothing and shoes	
Gloves (non-rubber)	
Towels/rags	
Rope/net pieces (non-nylon)	
Fabric pieces	
Other (not listed above; specify)	
<b>OTHER NOTABLE ITEMS</b>	
Type 6 bouys; 2 ; jp_img_1005.jpg,jp_img_1006.jpg	

<b>LARGE DEBRIS ITEMS (&gt;1 foot or 0.3 meters)</b>				
Item type (vessel, net, etc)	Status (sunken, stranded, buried)	Approx. width (m)	Approx. length (m)	Description/photo id #





GENERAL SURVEY INFORMATION	
Surveyor/Data Collector Name:	Steve Weileman
Phone Number:	253-254-5007
Email:	steve@xexplore.com
Date (mm/dd/yyyy):	7/6/2012
Start Time:	1:34 PM
End Time:	1:43 PM

SHORELINE LOCATION INFORMATION		
Shoreline/Beach Name:	Wedding Rocks, north	
County and State:	Clallam, WA	
GPS Coordinates at Start:	Lat: 48.15267	Long: 124.72128
GPS Coordinates at End:	Lat: 48.15272	Long: 124.72128
Width of Shoreline (meters):	13.72	

OTHER INFORMATION	
Date of last survey of this area:	unknown
Storm activity within the last week:	3 days prior, gale warnings
Current Weather:	10% Cloud cover, 10-15 knots wind

Number of Participants:	3
Photos Taken:	no

PLASTICS	
Plastic fragments (hard)	7
Plastic fragments (foamed)	23
Plastic fragments (film)	1
Food wrappers	
Beverage bottles	6
Other jugs or containers	
Bottles or container caps	
Cigar tips	
Cigarettes/Filters	
Disposable cigarette lighters	
6-pack rings	
Bags	
Plastic rope/small net pieces	
Buoys and floats	
Fishing lures and line	
Cups (including foamed)	
Plastic utensils	
Straws	
Balloons	
Personal care products	
Plastic toys	
Other (not listed above; specify)	
METAL	
Aluminum/tin cans	
Aerosol cans	
Metal fragments	
Other (not listed above; specify)	

GLASS	
Beverage bottles	
Jars	
Glass fragments	
Other (not listed above; specify)	
RUBBER	
Flip-flops/slippers	
Gloves	
Tires	
Rubber fragments	
Other (not listed above; specify)	
PROCESSED LUMBER	
Cardboard cartons	
Paper and cardboard	
Paper bags	
Lumber and building material	
Other (not listed above; specify)	
CLOTH/FABRIC	
Clothing and shoes	
Gloves (non-rubber)	
Towels/rags	
Rope/net pieces (non-nylon)	
Fabric pieces	
Other (not listed above; specify)	
OTHER NOTABLE ITEMS	
Large block of insulation; 1	
Spray bottle; 1; kc_p7060329.jpg	

LARGE DEBRIS ITEMS (>1 foot or 0.3 meters)				
Item type (vessel, net, etc)	Status (sunken, stranded, buried)	Approx. width (m)	Approx. length (m)	Description/photo id #



MARINE DEBRIS TALLY SHEET – IKKATSU PROJECT  
Olympic Coast Remote Beach Survey – Summer 2012

GENERAL SURVEY INFORMATION	
Surveyor/Data Collector Name:	Steve Weileman
Phone Number:	253-254-5007
Email:	steve@xexplore.com
Date (mm/dd/yyyy):	7/6/2012
Start Time:	2:08 PM
End Time:	2:12 PM

SHORELINE LOCATION INFORMATION		
Shoreline/Beach Name:	Wedding Rocks, north	
County and State:	Clallam, WA	
GPS Coordinates at Start:	Lat: 48.15317	Long: 124.72179
GPS Coordinates at End:	Lat: 48.15320	Long: 124.76161
Width of Shoreline (meters):	13.72	

OTHER INFORMATION	
Date of last survey of this area:	unknown
Storm activity within the last week:	3 days prior, gale warnings
Current Weather:	10% Cloud cover, 10-15 knots wind

Number of Participants:	3
Photos Taken:	no

PLASTICS	
Plastic fragments (hard)	3
Plastic fragments (foamed)	6
Plastic fragments (film)	
Food wrappers	
Beverage bottles	1
Other jugs or containers	
Bottles or container caps	1
Cigar tips	
Cigarettes/Filters	
Disposable cigarette lighters	
6-pack rings	
Bags	
Plastic rope/small net pieces	1
Buoys and floats	
Fishing lures and line	
Cups (including foamed)	
Plastic utensils	
Straws	
Balloons	
Personal care products	
Plastic toys	
Other (not listed above; specify)	
METAL	
Aluminum/tin cans	
Aerosol cans	
Metal fragments	
Other (not listed above; specify)	

GLASS	
Beverage bottles	
Jars	
Glass fragments	
Other (not listed above; specify)	
RUBBER	
Flip-flops/slippers	
Gloves	
Tires	
Rubber fragments	
Other (not listed above; specify)	
PROCESSED LUMBER	
Cardboard cartons	
Paper and cardboard	
Paper bags	
Lumber and building material	
Other (not listed above; specify)	
CLOTH/FABRIC	
Clothing and shoes	
Gloves (non-rubber)	
Towels/rags	
Rope/net pieces (non-nylon)	
Fabric pieces	
Other (not listed above; specify)	
OTHER NOTABLE ITEMS	

LARGE DEBRIS ITEMS (>1 foot or 0.3 meters)				
Item type (vessel, net, etc)	Status (sunken, stranded, buried)	Approx. width (m)	Approx. length (m)	Description/photo id #



MARINE DEBRIS TALLY SHEET – IKKATSU PROJECT  
Olympic Coast Remote Beach Survey – Summer 2012

GENERAL SURVEY INFORMATION	
Surveyor/Data Collector Name:	Jason Goldstein
Phone Number:	360-888-2389
Email:	jason.adventureguides@comcast.net
Date (mm/dd/yyyy):	7/8/2012
Start Time:	11:14 AM
End Time:	11:25 AM

SHORELINE LOCATION INFORMATION		
Shoreline/Beach Name:	Norwegian Memorial	
County and State:	Clallam, WA	
GPS Coordinates at Start:	Lat: 48.03644	Long: 124.68224
GPS Coordinates at End:	Lat: 48.03646	Long: 124.68178
Width of Shoreline (meters):	43.89	

OTHER INFORMATION	
Date of last survey of this area:	unknown
Storm activity within the last week:	5 days prior, gale warnings
Current Weather:	100% cloud cover, 5-10 knots wind

Number of Participants:	3
Photos Taken:	no

PLASTICS	
Plastic fragments (hard)	15
Plastic fragments (foamed)	73
Plastic fragments (film)	
Food wrappers	
Beverage bottles	9
Other jugs or containers	1
Bottles or container caps	
Cigar tips	
Cigarettes/Filters	
Disposable cigarette lighters	
6-pack rings	
Bags	
Plastic rope/small net pieces	
Buoys and floats	1
Fishing lures and line	1
Cups (including foamed)	
Plastic utensils	
Straws	
Balloons	
Personal care products	
Plastic toys	
Other (not listed above; specify)	
METAL	
Aluminum/tin cans	
Aerosol cans	
Metal fragments	
Other (not listed above; specify)	

GLASS	
Beverage bottles	
Jars	
Glass fragments	1
Other (not listed above; specify)	
RUBBER	
Flip-flops/slippers	
Gloves	
Tires	
Rubber fragments	
Other (not listed above; specify)	
PROCESSED LUMBER	
Cardboard cartons	
Paper and cardboard	
Paper bags	
Lumber and building material	
Other (not listed above; specify)	
CLOTH/FABRIC	
Clothing and shoes	
Gloves (non-rubber)	
Towels/rags	
Rope/net pieces (non-nylon)	3
Fabric pieces	1
Other (not listed above; specify)	
OTHER NOTABLE ITEMS	
Type 6 bouy; 1	

LARGE DEBRIS ITEMS (>1 foot or 0.3 meters)				
Item type (vessel, net, etc)	Status (sunken, stranded, buried)	Approx. width (m)	Approx. length (m)	Description/photo id #



MARINE DEBRIS TALLY SHEET – IKKATSU PROJECT  
Olympic Coast Remote Beach Survey – Summer 2012

GENERAL SURVEY INFORMATION	
Surveyor/Data Collector Name:	Ken Campbell
Phone Number:	253-691-7941
Email:	ken@azimuthexpeditions.com
Date (mm/dd/yyyy):	7/8/2012
Start Time:	11:30 AM
End Time:	11:40 AM

SHORELINE LOCATION INFORMATION		
Shoreline/Beach Name:	Norwegian Memorial	
County and State:	Clallam, WA	
GPS Coordinates at Start:	Lat: 48.03638	Long: 124.68220
GPS Coordinates at End:	Lat: 48.03640	Long: 124.68165
Width of Shoreline (meters):	42.06	

OTHER INFORMATION	
Date of last survey of this area:	unknown
Storm activity within the last week:	5 days prior, gale warnings
Current Weather:	100% cloud cover, 5-10 knots wind

Number of Participants:	3
Photos Taken:	no

PLASTICS	
Plastic fragments (hard)	5
Plastic fragments (foamed)	18
Plastic fragments (film)	
Food wrappers	
Beverage bottles	4
Other jugs or containers	2
Bottles or container caps	
Cigar tips	
Cigarettes/Filters	
Disposable cigarette lighters	
6-pack rings	
Bags	
Plastic rope/small net pieces	1
Buoys and floats	
Fishing lures and line	
Cups (including foamed)	
Plastic utensils	
Straws	
Balloons	
Personal care products	
Plastic toys	
Other (not listed above; specify)	PVC pipe 10"; 1  log boom w/ metal ring; 1
METAL	
Aluminum/tin cans	
Aerosol cans	
Metal fragments	

Other (not listed above; specify)	
GLASS	
Beverage bottles	
Jars	
Glass fragments	1
Other (not listed above; specify)	
RUBBER	
Flip-flops/slippers	
Gloves	
Tires	
Rubber fragments	
Other (not listed above; specify)	
PROCESSED LUMBER	
Cardboard cartons	
Paper and cardboard	
Paper bags	
Lumber and building material	
Other (not listed above; specify)	
CLOTH/FABRIC	
Clothing and shoes	
Gloves (non-rubber)	
Towels/rags	
Rope/net pieces (non-nylon)	3
Fabric pieces	1
Other (not listed above; specify)	
OTHER NOTABLE ITEMS	
Type 6 bouy; 1	

LARGE DEBRIS ITEMS (>1 foot or 0.3 meters)				
Item type (vessel, net, etc)	Status (sunken, stranded, buried)	Approx. width (m)	Approx. length (m)	Description/photo id #





MARINE DEBRIS TALLY SHEET – IKKATSU PROJECT  
Olympic Coast Remote Beach Survey – Summer 2012

GENERAL SURVEY INFORMATION	
Surveyor/Data Collector Name:	Steve Weileman
Phone Number:	253-254-5007
Email:	steve@xexplore.com
Date (mm/dd/yyyy):	7/8/2012
Start Time:	11:41 AM
End Time:	11:49 AM

SHORELINE LOCATION INFORMATION		
Shoreline/Beach Name:	Norwegian Memorial	
County and State:	Clallam, WA	
GPS Coordinates at Start:	Lat: 48.03632	Long: 124.68219
GPS Coordinates at End:	Lat: 48.03667	Long: 124.68167
Width of Shoreline (meters):	42.06	

OTHER INFORMATION	
Date of last survey of this area:	unknown
Storm activity within the last week:	5 days prior, gale warnings
Current Weather:	100% cloud cover, 5-10 knots wind

Number of Participants:	3
Photos Taken:	no

PLASTICS	
Plastic fragments (hard)	4
Plastic fragments (foamed)	20
Plastic fragments (film)	
Food wrappers	
Beverage bottles	6
Other jugs or containers	
Bottles or container caps	
Cigar tips	
Cigarettes/Filters	
Disposable cigarette lighters	
6-pack rings	
Bags	
Plastic rope/small net pieces	1
Buoys and floats	1
Fishing lures and line	
Cups (including foamed)	
Plastic utensils	
Straws	
Balloons	
Personal care products	
Plastic toys	
Other (not listed above; specify)	
METAL	
Aluminum/tin cans	
Aerosol cans	
Metal fragments	
Other (not listed above; specify)	

GLASS	
Beverage bottles	1
Jars	1
Glass fragments	
Other (not listed above; specify)	
RUBBER	
Flip-flops/slippers	
Gloves	
Tires	
Rubber fragments	
Other (not listed above; specify)	
PROCESSED LUMBER	
Cardboard cartons	
Paper and cardboard	
Paper bags	
Lumber and building material	
Other (not listed above; specify)	
CLOTH/FABRIC	
Clothing and shoes	
Gloves (non-rubber)	
Towels/rags	
Rope/net pieces (non-nylon)	
Fabric pieces	
Other (not listed above; specify)	
OTHER NOTABLE ITEMS	

LARGE DEBRIS ITEMS (>1 foot or 0.3 meters)				
Item type (vessel, net, etc)	Status (sunken, stranded, buried)	Approx. width (m)	Approx. length (m)	Description/photo id #



MARINE DEBRIS TALLY SHEET – IKKATSU PROJECT  
Olympic Coast Remote Beach Survey – Summer 2012

GENERAL SURVEY INFORMATION	
Surveyor/Data Collector Name:	Ken Campbell
Phone Number:	253-691-7941
Email:	ken@azimuthexpeditions.com
Date (mm/dd/yyyy):	7/8/2012
Start Time:	11:54 AM
End Time:	12:12 PM

SHORELINE LOCATION INFORMATION		
Shoreline/Beach Name:	Norwegian Memorial	
County and State:	Clallam, WA	
GPS Coordinates at Start:	Lat: 48.03599	Long: 124.68220
GPS Coordinates at End:	Lat: 48.03601	Long: 124.68164
Width of Shoreline (meters):	47.55	

OTHER INFORMATION	
Date of last survey of this area:	unknown
Storm activity within the last week:	5 days prior, gale warnings
Current Weather:	100% cloud cover, 5-10 knots wind

Number of Participants:	3
Photos Taken:	no

PLASTICS	
Plastic fragments (hard)	17
Plastic fragments (foamed)	14
Plastic fragments (film)	1
Food wrappers	
Beverage bottles	2
Other jugs or containers	
Bottles or container caps	
Cigar tips	
Cigarettes/Filters	
Disposable cigarette lighters	
6-pack rings	
Bags	
Plastic rope/small net pieces	
Buoys and floats	
Fishing lures and line	
Cups (including foamed)	
Plastic utensils	
Straws	
Balloons	
Personal care products	
Plastic toys	
Other (not listed above; specify)	
METAL	
Aluminum/tin cans	
Aerosol cans	
Metal fragments	
Other (not listed above; specify)	

GLASS	
Beverage bottles	
Jars	
Glass fragments	
Other (not listed above; specify)	
RUBBER	
Flip-flops/slippers	
Gloves	
Tires	
Rubber fragments	1
Other (not listed above; specify)	
PROCESSED LUMBER	
Cardboard cartons	
Paper and cardboard	
Paper bags	
Lumber and building material	2
Other (not listed above; specify)	
CLOTH/FABRIC	
Clothing and shoes	
Gloves (non-rubber)	
Towels/rags	
Rope/net pieces (non-nylon)	
Fabric pieces	1
Other (not listed above; specify)	
OTHER NOTABLE ITEMS	

LARGE DEBRIS ITEMS (>1 foot or 0.3 meters)				
Item type (vessel, net, etc)	Status (sunken, stranded, buried)	Approx. width (m)	Approx. length (m)	Description/photo id #



MARINE DEBRIS TALLY SHEET – IKKATSU PROJECT  
Olympic Coast Remote Beach Survey – Summer 2012

GENERAL SURVEY INFORMATION	
Surveyor/Data Collector Name:	Jason Goldstein
Phone Number:	360-888-2389
Email:	jason.adventureguides@comcast.net
Date (mm/dd/yyyy):	7/8/2012
Start Time:	5:30 PM
End Time:	5:42 PM

SHORELINE LOCATION INFORMATION		
Shoreline/Beach Name:	Cedar Creek	
County and State:	Clallam, WA	
GPS Coordinates at Start:	Lat: 48.02038	Long: 124.68220
GPS Coordinates at End:	Lat: 48.02064	Long: 124.68174
Width of Shoreline (meters):	55.78	

OTHER INFORMATION	
Date of last survey of this area:	unknown
Storm activity within the last week:	5 days prior, gale warnings
Current Weather:	100% cloud cover, 5-10 knots wind

Number of Participants:	3
Photos Taken:	no

PLASTICS	
Plastic fragments (hard)	8
Plastic fragments (foamed)	20
Plastic fragments (film)	
Food wrappers	
Beverage bottles	8
Other jugs or containers	3
Bottles or container caps	2
Cigar tips	
Cigarettes/Filters	
Disposable cigarette lighters	
6-pack rings	
Bags	
Plastic rope/small net pieces	2
Buoys and floats	1
Fishing lures and line	
Cups (including foamed)	
Plastic utensils	
Straws	
Balloons	
Personal care products	
Plastic toys	
Other (not listed above; specify)	Plastic handle; 1
METAL	
Aluminum/tin cans	
Aerosol cans	
Metal fragments	
Other (not listed above; specify)	

GLASS	
Beverage bottles	
Jars	
Glass fragments	
Other (not listed above; specify)	
RUBBER	
Flip-flops/slippers	
Gloves	
Tires	
Rubber fragments	1
Other (not listed above; specify)	
PROCESSED LUMBER	
Cardboard cartons	
Paper and cardboard	
Paper bags	
Lumber and building material	2
Other (not listed above; specify)	
CLOTH/FABRIC	
Clothing and shoes	
Gloves (non-rubber)	
Towels/rags	
Rope/net pieces (non-nylon)	
Fabric pieces	
Other (not listed above; specify)	
OTHER NOTABLE ITEMS	

LARGE DEBRIS ITEMS (>1 foot or 0.3 meters)				
Item type (vessel, net, etc)	Status (sunken, stranded, buried)	Approx. width (m)	Approx. length (m)	Description/photo id #



MARINE DEBRIS TALLY SHEET – IKKATSU PROJECT  
Olympic Coast Remote Beach Survey – Summer 2012

GENERAL SURVEY INFORMATION	
Surveyor/Data Collector Name:	Ken Campbell
Phone Number:	253-691-7941
Email:	ken@azimuthexpeditions.com
Date (mm/dd/yyyy):	7/8/2012
Start Time:	5:43 PM
End Time:	6:03 PM

SHORELINE LOCATION INFORMATION		
Shoreline/Beach Name:	Cedar Creek	
County and State:	Clallam, WA	
GPS Coordinates at Start:	Lat: 48.02011	Long: 124.68195
GPS Coordinates at End:	Lat: 48.02033	Long: 124.68150
Width of Shoreline (meters):	44.81	

OTHER INFORMATION	
Date of last survey of this area:	unknown
Storm activity within the last week:	5 days prior, gale warnings
Current Weather:	100% cloud cover, 5-10 knots wind

Number of Participants:	3
Photos Taken:	no

PLASTICS	
Plastic fragments (hard)	27
Plastic fragments (foamed)	88
Plastic fragments (film)	
Food wrappers	
Beverage bottles	1
Other jugs or containers	
Bottles or container caps	
Cigar tips	
Cigarettes/Filters	
Disposable cigarette lighters	
6-pack rings	
Bags	
Plastic rope/small net pieces	3
Buoys and floats	1
Fishing lures and line	1
Cups (including foamed)	1
Plastic utensils	
Straws	
Balloons	
Personal care products	1
Plastic toys	
Other (not listed above; specify)	Fireworks; 1
METAL	
Aluminum/tin cans	
Aerosol cans	
Metal fragments	
Other (not listed above; specify)	

GLASS	
Beverage bottles	1
Jars	
Glass fragments	
Other (not listed above; specify)	
RUBBER	
Flip-flops/slippers	
Gloves	
Tires	
Rubber fragments	1
Other (not listed above; specify)	Shoe sole; 1
PROCESSED LUMBER	
Cardboard cartons	
Paper and cardboard	
Paper bags	
Lumber and building material	9
Other (not listed above; specify)	
CLOTH/FABRIC	
Clothing and shoes	
Gloves (non-rubber)	
Towels/rags	
Rope/net pieces (non-nylon)	
Fabric pieces	
Other (not listed above; specify)	
OTHER NOTABLE ITEMS	

LARGE DEBRIS ITEMS (>1 foot or 0.3 meters)				
Item type (vessel, net, etc)	Status (sunken, stranded, buried)	Approx. width (m)	Approx. length (m)	Description/photo id #





MARINE DEBRIS TALLY SHEET – IKKATSU PROJECT  
Olympic Coast Remote Beach Survey – Summer 2012

GENERAL SURVEY INFORMATION	
Surveyor/Data Collector Name:	Steve Weileman
Phone Number:	253-254-5007
Email:	steve@xexplore.com
Date (mm/dd/yyyy):	7/8/2012
Start Time:	6:06 PM
End Time:	6:30 PM

SHORELINE LOCATION INFORMATION		
Shoreline/Beach Name:	Cedar Creek	
County and State:	Clallam, WA	
GPS Coordinates at Start:	Lat: 48.02004	Long: 124.68166
GPS Coordinates at End:	Lat: 48.02015	Long: 124.68143
Width of Shoreline (meters):	32.00	

OTHER INFORMATION	
Date of last survey of this area:	unknown
Storm activity within the last week:	5 days prior, gale warnings
Current Weather:	100% cloud cover, 5-10 knots wind

Number of Participants:	3
Photos Taken:	no

PLASTICS	
Plastic fragments (hard)	95
Plastic fragments (foamed)	15
Plastic fragments (film)	
Food wrappers	
Beverage bottles	6
Other jugs or containers	3
Bottles or container caps	10
Cigar tips	1
Cigarettes/Filters	
Disposable cigarette lighters	2
6-pack rings	
Bags	
Plastic rope/small net pieces	7
Buoys and floats	2
Fishing lures and line	
Cups (including foamed)	
Plastic utensils	1
Straws	
Balloons	
Personal care products	
Plastic toys	2
Other (not listed above; specify)	Shotgun wad; 8
METAL	
Aluminum/tin cans	
Aerosol cans	
Metal fragments	
Other (not listed above; specify)	coffee mug; 1

GLASS	
Beverage bottles	
Jars	
Glass fragments	
Other (not listed above; specify)	
RUBBER	
Flip-flops/slippers	
Gloves	
Tires	
Rubber fragments	1
Other (not listed above; specify)	
PROCESSED LUMBER	
Cardboard cartons	
Paper and cardboard	
Paper bags	
Lumber and building material	5
Other (not listed above; specify)	
CLOTH/FABRIC	
Clothing and shoes	
Gloves (non-rubber)	
Towels/rags	
Rope/net pieces (non-nylon)	
Fabric pieces	
Other (not listed above; specify)	
OTHER NOTABLE ITEMS	
Wire casing; 1	

LARGE DEBRIS ITEMS (>1 foot or 0.3 meters)				
Item type (vessel, net, etc)	Status (sunken, stranded, buried)	Approx. width (m)	Approx. length (m)	Description/photo id #



MARINE DEBRIS TALLY SHEET – IKKATSU PROJECT  
Olympic Coast Remote Beach Survey – Summer 2012

GENERAL SURVEY INFORMATION	
Surveyor/Data Collector Name:	Jason Goldstein
Phone Number:	360-888-2389
Email:	jason.adventureguides@comcast.net
Date (mm/dd/yyyy):	7/8/2012
Start Time:	6:37 PM
End Time:	6:59 PM

SHORELINE LOCATION INFORMATION		
Shoreline/Beach Name:	Cedar Creek	
County and State:	Clallam, WA	
GPS Coordinates at Start:	Lat: 48.01997	Long: 124.68157
GPS Coordinates at End:	Lat: 48.02009	Long: 124.68130
Width of Shoreline (meters):	30.18	

OTHER INFORMATION	
Date of last survey of this area:	unknown
Storm activity within the last week:	5 days prior, gale warnings
Current Weather:	100% cloud cover, 5-10 knots wind

Number of Participants:	3
Photos Taken:	no

PLASTICS	
Plastic fragments (hard)	19
Plastic fragments (foamed)	26
Plastic fragments (film)	
Food wrappers	1
Beverage bottles	5
Other jugs or containers	
Bottles or container caps	8
Cigar tips	
Cigarettes/Filters	
Disposable cigarette lighters	1
6-pack rings	
Bags	
Plastic rope/small net pieces	3
Buoys and floats	1
Fishing lures and line	2
Cups (including foamed)	
Plastic utensils	
Straws	
Balloons	
Personal care products	
Plastic toys	
Other (not listed above; specify)	coat hanger; 1
METAL	
Aluminum/tin cans	1
Aerosol cans	1
Metal fragments	
Other (not listed above; specify)	

GLASS	
Beverage bottles	
Jars	1
Glass fragments	
Other (not listed above; specify)	
RUBBER	
Flip-flops/slippers	1
Gloves	
Tires	
Rubber fragments	
Other (not listed above; specify)	
PROCESSED LUMBER	
Cardboard cartons	
Paper and cardboard	
Paper bags	
Lumber and building material	7
Other (not listed above; specify)	
CLOTH/FABRIC	
Clothing and shoes	
Gloves (non-rubber)	
Towels/rags	
Rope/net pieces (non-nylon)	2
Fabric pieces	
Other (not listed above; specify)	
OTHER NOTABLE ITEMS	
Shotgun wad; 3	
Plastic grate; 1	
1" tubing; 1 Pen; 1	

LARGE DEBRIS ITEMS (>1 foot or 0.3 meters)				
Item type (vessel, net, etc)	Status (sunken, stranded, buried)	Approx. width (m)	Approx. length (m)	Description/photo id #



MARINE DEBRIS TALLY SHEET – IKKATSU PROJECT  
Olympic Coast Remote Beach Survey – Summer 2012

GENERAL SURVEY INFORMATION	
Surveyor/Data Collector Name:	Ken Campbell
Phone Number:	253-691-7941
Email:	ken@azimuthexpeditions.com
Date (mm/dd/yyyy):	8/7/2012
Start Time:	9:16 AM
End Time:	9:24 AM

SHORELINE LOCATION INFORMATION		
Shoreline/Beach Name:	Taylor Point, south	
County and State:	Jefferson, WA	
GPS Coordinates at Start:	Lat: 47.86779	Long: 124.56677
GPS Coordinates at End:	Lat: 47.86800	Long: 124.56675
Width of Shoreline (meters):	24.69	

OTHER INFORMATION	
Date of last survey of this area:	unknown
Storm activity within the last week:	none
Current Weather:	100% cloud cover, calm winds

Number of Participants:	3
Photos Taken:	yes

PLASTICS	
Plastic fragments (hard)	10
Plastic fragments (foamed)	137
Plastic fragments (film)	
Food wrappers	1
Beverage bottles	4
Other jugs or containers	
Bottles or container caps	
Cigar tips	
Cigarettes/Filters	
Disposable cigarette lighters	
6-pack rings	
Bags	
Plastic rope/small net pieces	4
Buoys and floats	8
Fishing lures and line	
Cups (including foamed)	
Plastic utensils	
Straws	
Balloons	
Personal care products	
Plastic toys	
Other (not listed above; specify)	
METAL	
Aluminum/tin cans	
Aerosol cans	
Metal fragments	
Other (not listed above; specify)	

GLASS	
Beverage bottles	
Jars	
Glass fragments	
Other (not listed above; specify)	
RUBBER	
Flip-flops/slippers	1
Gloves	
Tires	
Rubber fragments	
Other (not listed above; specify)	
PROCESSED LUMBER	
Cardboard cartons	
Paper and cardboard	
Paper bags	
Lumber and building material	5
Other (not listed above; specify)	
CLOTH/FABRIC	
Clothing and shoes	2
Gloves (non-rubber)	
Towels/rags	
Rope/net pieces (non-nylon)	
Fabric pieces	
Other (not listed above; specify)	
OTHER NOTABLE ITEMS	
Lockhead Martin circuitboard; P8070081.JPG	

LARGE DEBRIS ITEMS (>1 foot or 0.3 meters)				
Item type (vessel, net, etc)	Status (sunken, stranded, buried)	Approx. width (m)	Approx. length (m)	Description/photo id #



MARINE DEBRIS TALLY SHEET – IKKATSU PROJECT  
Olympic Coast Remote Beach Survey – Summer 2012

GENERAL SURVEY INFORMATION	
Surveyor/Data Collector Name:	Steve Weileman
Phone Number:	253-254-5007
Email:	steve@xexplore.com
Date (mm/dd/yyyy):	8/7/2012
Start Time:	9:32 AM
End Time:	9:40 AM

SHORELINE LOCATION INFORMATION		
Shoreline/Beach Name:	Taylor Point, south	
County and State:	Jefferson, WA	
GPS Coordinates at Start:	Lat: 47.86775	Long: 124.56565
GPS Coordinates at End:	Lat: 47.86806	Long: 124.56555
Width of Shoreline (meters):	42.06	

OTHER INFORMATION	
Date of last survey of this area:	unknown
Storm activity within the last week:	none
Current Weather:	100% cloud cover, calm winds

Number of Participants:	3
Photos Taken:	yes

PLASTICS	
Plastic fragments (hard)	1
Plastic fragments (foamed)	30
Plastic fragments (film)	
Food wrappers	
Beverage bottles	
Other jugs or containers	
Bottles or container caps	1
Cigar tips	
Cigarettes/Filters	
Disposable cigarette lighters	
6-pack rings	
Bags	
Plastic rope/small net pieces	1
Buoys and floats	1
Fishing lures and line	
Cups (including foamed)	
Plastic utensils	
Straws	
Balloons	
Personal care products	
Plastic toys	
Other (not listed above; specify)	
METAL	
Aluminum/tin cans	
Aerosol cans	
Metal fragments	
Other (not listed above; specify)	

GLASS	
Beverage bottles	
Jars	
Glass fragments	
Other (not listed above; specify)	
RUBBER	
Flip-flops/slippers	
Gloves	
Tires	
Rubber fragments	
Other (not listed above; specify)	
PROCESSED LUMBER	
Cardboard cartons	
Paper and cardboard	
Paper bags	
Lumber and building material	
Other (not listed above; specify)	
CLOTH/FABRIC	
Clothing and shoes	
Gloves (non-rubber)	
Towels/rags	
Rope/net pieces (non-nylon)	
Fabric pieces	
Other (not listed above; specify)	
OTHER NOTABLE ITEMS	
Sealed pouch; P8070089.JPG	

LARGE DEBRIS ITEMS (>1 foot or 0.3 meters)				
Item type (vessel, net, etc)	Status (sunken, stranded, buried)	Approx. width (m)	Approx. length (m)	Description/photo id #





MARINE DEBRIS TALLY SHEET – IKKATSU PROJECT  
Olympic Coast Remote Beach Survey – Summer 2012

GENERAL SURVEY INFORMATION	
Surveyor/Data Collector Name:	Jason Goldstein
Phone Number:	360-888-2389
Email:	jason.adventureguides@comcast.net
Date (mm/dd/yyyy):	8/7/2012
Start Time:	9:45 AM
End Time:	9:49 AM

SHORELINE LOCATION INFORMATION		
Shoreline/Beach Name:	Taylor Point, south	
County and State:	Jefferson, WA	
GPS Coordinates at Start:	Lat: 47.86777	Long: 124.56615
GPS Coordinates at End:	Lat: 47.86805	Long: 124.56612
Width of Shoreline (meters):	34.75	

OTHER INFORMATION	
Date of last survey of this area:	unknown
Storm activity within the last week:	none
Current Weather:	100% cloud cover, calm winds

Number of Participants:	3
Photos Taken:	no

PLASTICS	
Plastic fragments (hard)	
Plastic fragments (foamed)	6
Plastic fragments (film)	
Food wrappers	
Beverage bottles	
Other jugs or containers	
Bottles or container caps	
Cigar tips	
Cigarettes/Filters	
Disposable cigarette lighters	
6-pack rings	
Bags	
Plastic rope/small net pieces	1
Buoys and floats	
Fishing lures and line	
Cups (including foamed)	
Plastic utensils	
Straws	
Balloons	
Personal care products	
Plastic toys	
Other (not listed above; specify)	
METAL	
Aluminum/tin cans	1
Aerosol cans	
Metal fragments	
Other (not listed above; specify)	

GLASS	
Beverage bottles	
Jars	
Glass fragments	
Other (not listed above; specify)	
RUBBER	
Flip-flops/slippers	
Gloves	
Tires	
Rubber fragments	
Other (not listed above; specify)	
PROCESSED LUMBER	
Cardboard cartons	
Paper and cardboard	
Paper bags	
Lumber and building material	
Other (not listed above; specify)	
CLOTH/FABRIC	
Clothing and shoes	
Gloves (non-rubber)	
Towels/rags	
Rope/net pieces (non-nylon)	
Fabric pieces	
Other (not listed above; specify)	
OTHER NOTABLE ITEMS	

LARGE DEBRIS ITEMS (>1 foot or 0.3 meters)				
Item type (vessel, net, etc)	Status (sunken, stranded, buried)	Approx. width (m)	Approx. length (m)	Description/photo id #



MARINE DEBRIS TALLY SHEET – IKKATSU PROJECT  
Olympic Coast Remote Beach Survey – Summer 2012

GENERAL SURVEY INFORMATION	
Surveyor/Data Collector Name:	Steve Weileman
Phone Number:	253-254-5007
Email:	steve@xexplore.com
Date (mm/dd/yyyy):	8/7/2012
Start Time:	9:51 AM
End Time:	9:58 AM

SHORELINE LOCATION INFORMATION		
Shoreline/Beach Name:	Taylor Point, south	
County and State:	Jefferson, WA	
GPS Coordinates at Start:	Lat: 47.86780	Long: 124.56632
GPS Coordinates at End:	Lat: 47.86806	Long: 124.56626
Width of Shoreline (meters):	32.92	

OTHER INFORMATION	
Date of last survey of this area:	unknown
Storm activity within the last week:	none
Current Weather:	100% cloud cover, calm winds

Number of Participants:	3
Photos Taken:	no

PLASTICS	
Plastic fragments (hard)	16
Plastic fragments (foamed)	1
Plastic fragments (film)	1
Food wrappers	1
Beverage bottles	
Other jugs or containers	1
Bottles or container caps	2
Cigar tips	
Cigarettes/Filters	
Disposable cigarette lighters	
6-pack rings	
Bags	
Plastic rope/small net pieces	
Buoys and floats	
Fishing lures and line	
Cups (including foamed)	
Plastic utensils	
Straws	
Balloons	
Personal care products	
Plastic toys	
Other (not listed above; specify)	
METAL	
Aluminum/tin cans	
Aerosol cans	
Metal fragments	
Other (not listed above; specify)	

GLASS	
Beverage bottles	
Jars	
Glass fragments	
Other (not listed above; specify)	
RUBBER	
Flip-flops/slippers	
Gloves	
Tires	
Rubber fragments	
Other (not listed above; specify)	
PROCESSED LUMBER	
Cardboard cartons	
Paper and cardboard	
Paper bags	
Lumber and building material	
Other (not listed above; specify)	
CLOTH/FABRIC	
Clothing and shoes	
Gloves (non-rubber)	
Towels/rags	
Rope/net pieces (non-nylon)	
Fabric pieces	
Other (not listed above; specify)	
OTHER NOTABLE ITEMS	

LARGE DEBRIS ITEMS (>1 foot or 0.3 meters)				
Item type (vessel, net, etc)	Status (sunken, stranded, buried)	Approx. width (m)	Approx. length (m)	Description/photo id #



GENERAL SURVEY INFORMATION	
Surveyor/Data Collector Name:	Steve Weileman
Phone Number:	253-254-5007
Email:	steve@xexplore.com
Date (mm/dd/yyyy):	8/8/2012
Start Time:	2:25 PM
End Time:	2:36 PM

SHORELINE LOCATION INFORMATION		
Shoreline/Beach Name:	Mosquito Creek, north	
County and State:	Jefferson, WA	
GPS Coordinates at Start:	Lat: 47.80021	Long: 124.48238
GPS Coordinates at End:	Lat: 47.80022	Long: 124.48205
Width of Shoreline (meters):	30.18	

OTHER INFORMATION	
Date of last survey of this area:	unknown
Storm activity within the last week:	none
Current Weather:	100% cloud cover, 10 knots wind

Number of Participants:	3
Photos Taken:	no

PLASTICS	
Plastic fragments (hard)	4
Plastic fragments (foamed)	22
Plastic fragments (film)	
Food wrappers	
Beverage bottles	1
Other jugs or containers	1
Bottles or container caps	1
Cigar tips	
Cigarettes/Filters	
Disposable cigarette lighters	
6-pack rings	
Bags	
Plastic rope/small net pieces	
Buoys and floats	
Fishing lures and line	
Cups (including foamed)	
Plastic utensils	
Straws	
Balloons	
Personal care products	
Plastic toys	
Other (not listed above; specify)	
METAL	
Aluminum/tin cans	
Aerosol cans	
Metal fragments	
Other (not listed above; specify)	

GLASS	
Beverage bottles	
Jars	
Glass fragments	
Other (not listed above; specify)	
RUBBER	
Flip-flops/slippers	
Gloves	
Tires	
Rubber fragments	
Other (not listed above; specify)	
PROCESSED LUMBER	
Cardboard cartons	
Paper and cardboard	
Paper bags	
Lumber and building material	
Other (not listed above; specify)	
CLOTH/FABRIC	
Clothing and shoes	
Gloves (non-rubber)	
Towels/rags	
Rope/net pieces (non-nylon)	
Fabric pieces	
Other (not listed above; specify)	foam block, 4'x18"
OTHER NOTABLE ITEMS	

LARGE DEBRIS ITEMS (>1 foot or 0.3 meters)				
Item type (vessel, net, etc)	Status (sunken, stranded, buried)	Approx. width (m)	Approx. length (m)	Description/photo id #



MARINE DEBRIS TALLY SHEET – IKKATSU PROJECT  
Olympic Coast Remote Beach Survey – Summer 2012

GENERAL SURVEY INFORMATION	
Surveyor/Data Collector Name:	Jason Goldstein
Phone Number:	360-888-2389
Email:	jason.adventureguides@comcast.net
Date (mm/dd/yyyy):	8/8/2012
Start Time:	2:39 PM
End Time:	2:45 PM

SHORELINE LOCATION INFORMATION		
Shoreline/Beach Name:	Mosquito Creek, north	
County and State:	Jefferson, WA	
GPS Coordinates at Start:	Lat: 47.79991	Long: 124.48231
GPS Coordinates at End:	Lat: 47.79995	Long: 124.48196
Width of Shoreline (meters):	32.92	

OTHER INFORMATION	
Date of last survey of this area:	unknown
Storm activity within the last week:	none
Current Weather:	100% cloud cover, 10 knots wind

Number of Participants:	3
Photos Taken:	no

PLASTICS	
Plastic fragments (hard)	
Plastic fragments (foamed)	11
Plastic fragments (film)	
Food wrappers	
Beverage bottles	
Other jugs or containers	
Bottles or container caps	
Cigar tips	
Cigarettes/Filters	
Disposable cigarette lighters	
6-pack rings	
Bags	
Plastic rope/small net pieces	1
Buoys and floats	1
Fishing lures and line	
Cups (including foamed)	
Plastic utensils	
Straws	
Balloons	
Personal care products	
Plastic toys	
Other (not listed above; specify)	pen
METAL	
Aluminum/tin cans	
Aerosol cans	
Metal fragments	
Other (not listed above; specify)	

GLASS	
Beverage bottles	
Jars	
Glass fragments	
Other (not listed above; specify)	
RUBBER	
Flip-flops/slippers	
Gloves	
Tires	
Rubber fragments	
Other (not listed above; specify)	
PROCESSED LUMBER	
Cardboard cartons	
Paper and cardboard	
Paper bags	
Lumber and building material	
Other (not listed above; specify)	
CLOTH/FABRIC	
Clothing and shoes	
Gloves (non-rubber)	
Towels/rags	
Rope/net pieces (non-nylon)	
Fabric pieces	
Other (not listed above; specify)	
OTHER NOTABLE ITEMS	

LARGE DEBRIS ITEMS (>1 foot or 0.3 meters)				
Item type (vessel, net, etc)	Status (sunken, stranded, buried)	Approx. width (m)	Approx. length (m)	Description/photo id #





MARINE DEBRIS TALLY SHEET – IKKATSU PROJECT  
Olympic Coast Remote Beach Survey – Summer 2012

GENERAL SURVEY INFORMATION	
Surveyor/Data Collector Name:	Ken Campbell
Phone Number:	253-691-7941
Email:	ken@azimuthexpeditions.com
Date (mm/dd/yyyy):	8/8/2012
Start Time:	2:41 PM
End Time:	2:50 PM

SHORELINE LOCATION INFORMATION		
Shoreline/Beach Name:	Mosquito Creek, north	
County and State:	Jefferson, WA	
GPS Coordinates at Start:	Lat: 47.80007	Long: 124.48232
GPS Coordinates at End:	Lat: 47.80009	Long: 124.48200
Width of Shoreline (meters):	32.00	

OTHER INFORMATION	
Date of last survey of this area:	unknown
Storm activity within the last week:	none
Current Weather:	100% cloud cover, 10 knots wind

Number of Participants:	3
Photos Taken:	no

PLASTICS	
Plastic fragments (hard)	1
Plastic fragments (foamed)	9
Plastic fragments (film)	
Food wrappers	1
Beverage bottles	
Other jugs or containers	
Bottles or container caps	
Cigar tips	
Cigarettes/Filters	
Disposable cigarette lighters	
6-pack rings	
Bags	1
Plastic rope/small net pieces	
Buoys and floats	
Fishing lures and line	
Cups (including foamed)	
Plastic utensils	
Straws	
Balloons	
Personal care products	
Plastic toys	
Other (not listed above; specify)	
METAL	
Aluminum/tin cans	
Aerosol cans	
Metal fragments	
Other (not listed above; specify)	

GLASS	
Beverage bottles	
Jars	
Glass fragments	
Other (not listed above; specify)	
RUBBER	
Flip-flops/slippers	
Gloves	
Tires	
Rubber fragments	
Other (not listed above; specify)	
PROCESSED LUMBER	
Cardboard cartons	
Paper and cardboard	
Paper bags	
Lumber and building material	
Other (not listed above; specify)	
CLOTH/FABRIC	
Clothing and shoes	
Gloves (non-rubber)	
Towels/rags	
Rope/net pieces (non-nylon)	
Fabric pieces	
Other (not listed above; specify)	
OTHER NOTABLE ITEMS	

LARGE DEBRIS ITEMS (>1 foot or 0.3 meters)				
Item type (vessel, net, etc)	Status (sunken, stranded, buried)	Approx. width (m)	Approx. length (m)	Description/photo id #



GENERAL SURVEY INFORMATION	
Surveyor/Data Collector Name:	Ken Campbell
Phone Number:	253-691-7941
Email:	ken@azimuthexpeditions.com
Date (mm/dd/yyyy):	8/8/2012
Start Time:	2:56 PM
End Time:	3:06 PM

SHORELINE LOCATION INFORMATION		
Shoreline/Beach Name:	Mosquito Creek, north	
County and State:	Jefferson, WA	
GPS Coordinates at Start:	Lat: 47.80040	Long: 124.48239
GPS Coordinates at End:	Lat: 47.80043	Long: 124.48211
Width of Shoreline (meters):	27.43	

OTHER INFORMATION	
Date of last survey of this area:	unknown
Storm activity within the last week:	none
Current Weather:	100% cloud cover, 10 knots wind

Number of Participants:	3
Photos Taken:	no

PLASTICS	
Plastic fragments (hard)	6
Plastic fragments (foamed)	17
Plastic fragments (film)	
Food wrappers	
Beverage bottles	3
Other jugs or containers	
Bottles or container caps	
Cigar tips	
Cigarettes/Filters	
Disposable cigarette lighters	
6-pack rings	
Bags	
Plastic rope/small net pieces	2
Buoys and floats	1
Fishing lures and line	
Cups (including foamed)	
Plastic utensils	
Straws	
Balloons	
Personal care products	
Plastic toys	
Other (not listed above; specify)	
METAL	
Aluminum/tin cans	
Aerosol cans	
Metal fragments	
Other (not listed above; specify)	

GLASS	
Beverage bottles	1
Jars	
Glass fragments	
Other (not listed above; specify)	
RUBBER	
Flip-flops/slippers	
Gloves	
Tires	
Rubber fragments	
Other (not listed above; specify)	
PROCESSED LUMBER	
Cardboard cartons	
Paper and cardboard	
Paper bags	
Lumber and building material	
Other (not listed above; specify)	
CLOTH/FABRIC	
Clothing and shoes	
Gloves (non-rubber)	
Towels/rags	
Rope/net pieces (non-nylon)	
Fabric pieces	
Other (not listed above; specify)	
OTHER NOTABLE ITEMS	

LARGE DEBRIS ITEMS (>1 foot or 0.3 meters)				
Item type (vessel, net, etc)	Status (sunken, stranded, buried)	Approx. width (m)	Approx. length (m)	Description/photo id #