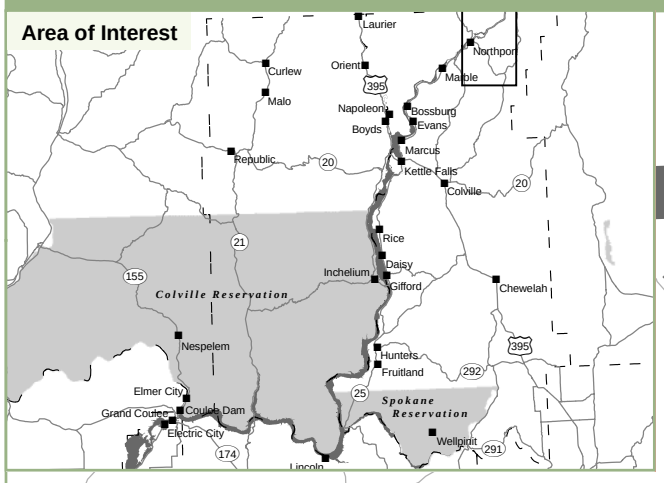
Appendix H

Detailed Sediment Sample Location Maps for the EPA 2005 Phase I Study

Appendix H.1 2005 Sediment Sample Locations and Types
River Miles 732 to 744



U.S./CANADA BORDER

744A2(X3)
744A1(X1)
744X2
743A2(X3)
743A1(X1)
742A2(X5)
742A1(X1)
742B1
742B2
742B3
741A1(X3)
741X1
740X3
740
739A1(X3)
739X1
740A1(X1)
738X1
738A1(X3)
737A1(X3)
737X1
737X2
736A1(X1)
736X3
736T1
735X3
735X1
735
734A1
734X3
735B2
735B1
733A1(X1)
733X2
733X3
732X3
732X2
732X1
732R1

Focus Area #1

Northport Reach

Upper Columbia River

Northport

West Fork
Goodeye Creek
Moris Creek
Tom Bush Creek
Matthews Creek
Quartz Creek
Big Sheep Creek
Scriver Creek
O Hare Creek
Black Canyon
Sherlock Creek
Fivemile Creek
Lime Creek
Waymire Creek
Pick Creek
Onion Creek

LEGEND

2005 Sediment Sample Locations
- Transect Samples
- Beach Subsample Composite Samples
- Tributary Samples
- Core Samples
- Transect/Bioassay/Pore Water Samples
- Bioassay/Pore Water Samples
- Reference Bioassay/Pore Water Samples
- Focus Areas
- Transect Lines

Recreation Sites
- Campground
- Boat-In Campsite
- Boat Launch
- Campground/Boat Launch
- Marina/Campground

1949 NOAA Bathymetry (ft)
- 880 - 930
- 931 - 980
- 981 - 1030
- 1031 - 1080
- 1081 - 1130
- 1131 - 1180
- 1181 - 1230
- 1231 - 1280

Other Features
- Tribal Lands
- Water Features
- Original River Channel
- Landslides
- Major Roads
- Cities

Miles
0 0.25 0.5 1 1.5 2

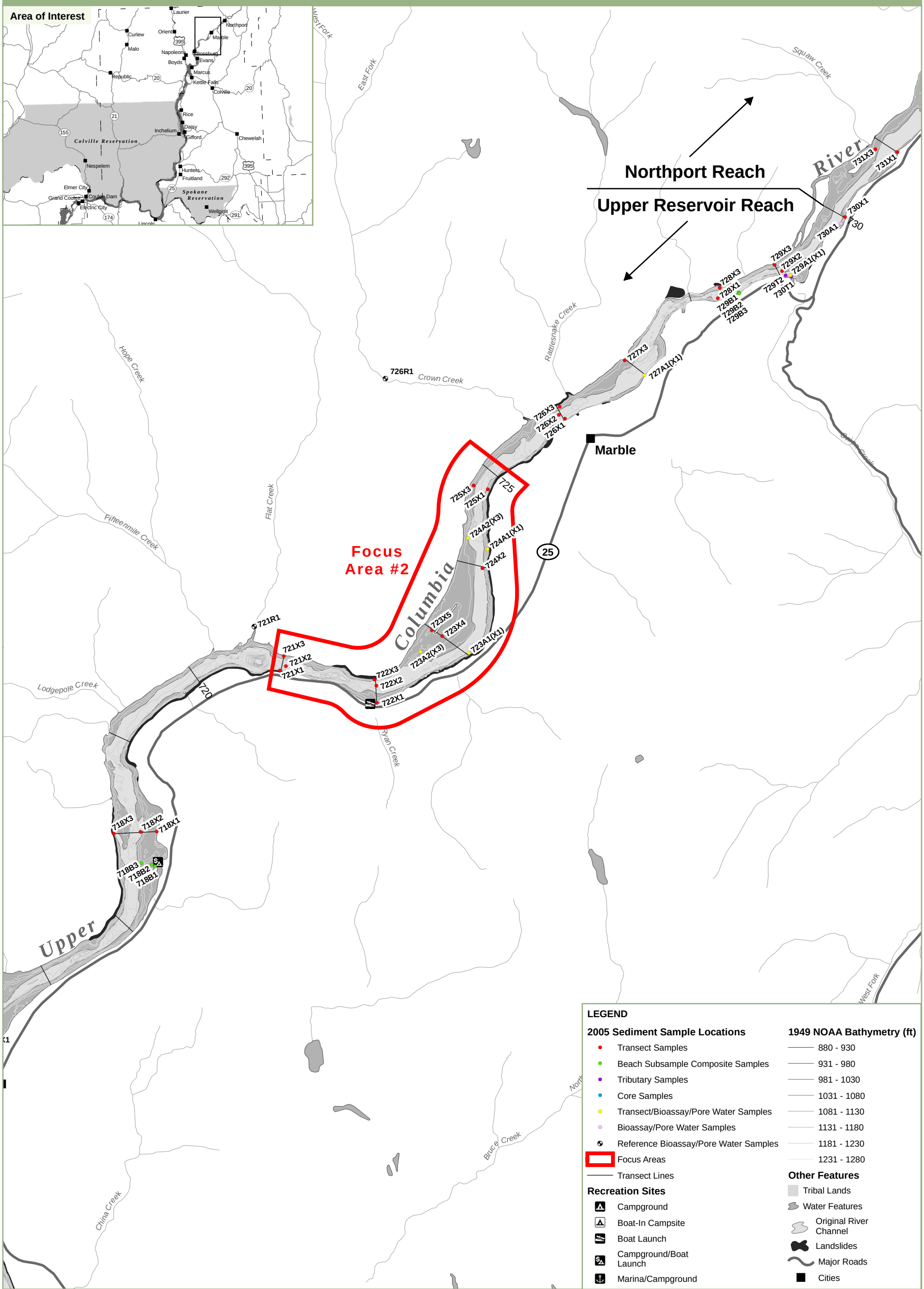
N

Map Notes

Prepared by: VBH Date: 6/18/2008

file path: Esc-server1\GIS\Projects\UCR\GIS\SRC\HHRA WorkPlan Draft 2 Rev\UCR_HHRA_WP_Draft2_AppxH1.mxd

Appendix H.2 2005 Sediment Sample Locations and Types
River Miles 716 to 731



LEGEND

2005 Sediment Sample Locations
- Transect Samples
- Beach Subsample Composite Samples
- Tributary Samples
- Core Samples
- Transect/Bioassay/Pore Water Samples
- Bioassay/Pore Water Samples
- Reference Bioassay/Pore Water Samples
- Focus Areas
- Transect Lines

Recreation Sites
- Campground
- Boat-In Campsite
- Boat Launch
- Campground/Boat Launch
- Marina/Campground

1949 NOAA Bathymetry (ft)
- 880 - 930
- 931 - 980
- 981 - 1030
- 1031 - 1080
- 1081 - 1130
- 1131 - 1180
- 1181 - 1230
- 1231 - 1280

Other Features
- Tribal Lands
- Water Features
- Original River Channel
- Landslides
- Major Roads
- Cities

Miles
0 0.25 0.5 1 1.5 2

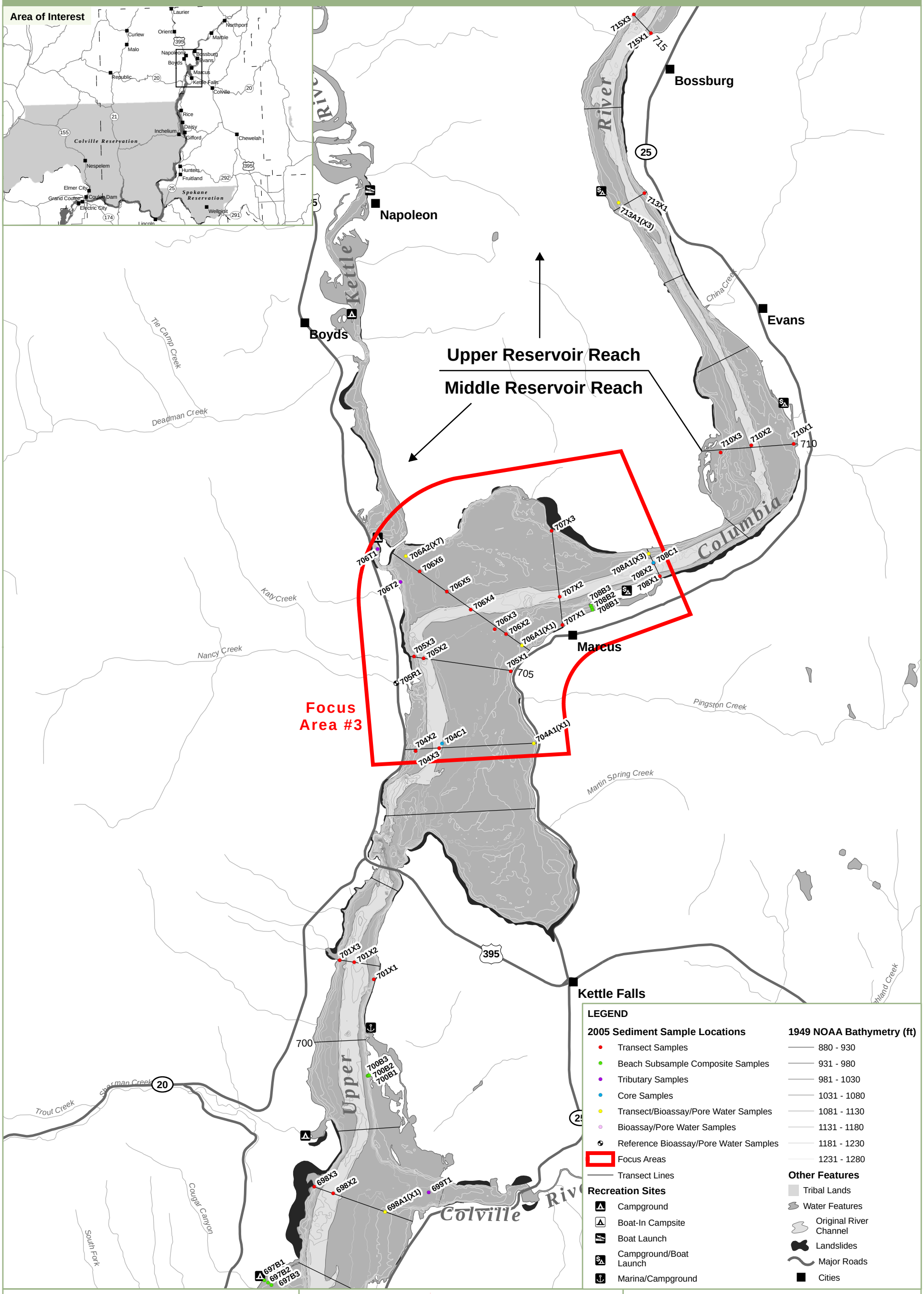
N

Map Notes

Prepared by: VBH Date: 6/18/2008

file path: Esc-server1\GIS\Projects\UCR\GIS\SRC\HHRA WorkPlan Draft 2 Rev\UCR_HHRA_WP_Draft2_AppxH2.mxd

Appendix H.3 2005 Sediment Sample Locations and Types
River Miles 697 to 715

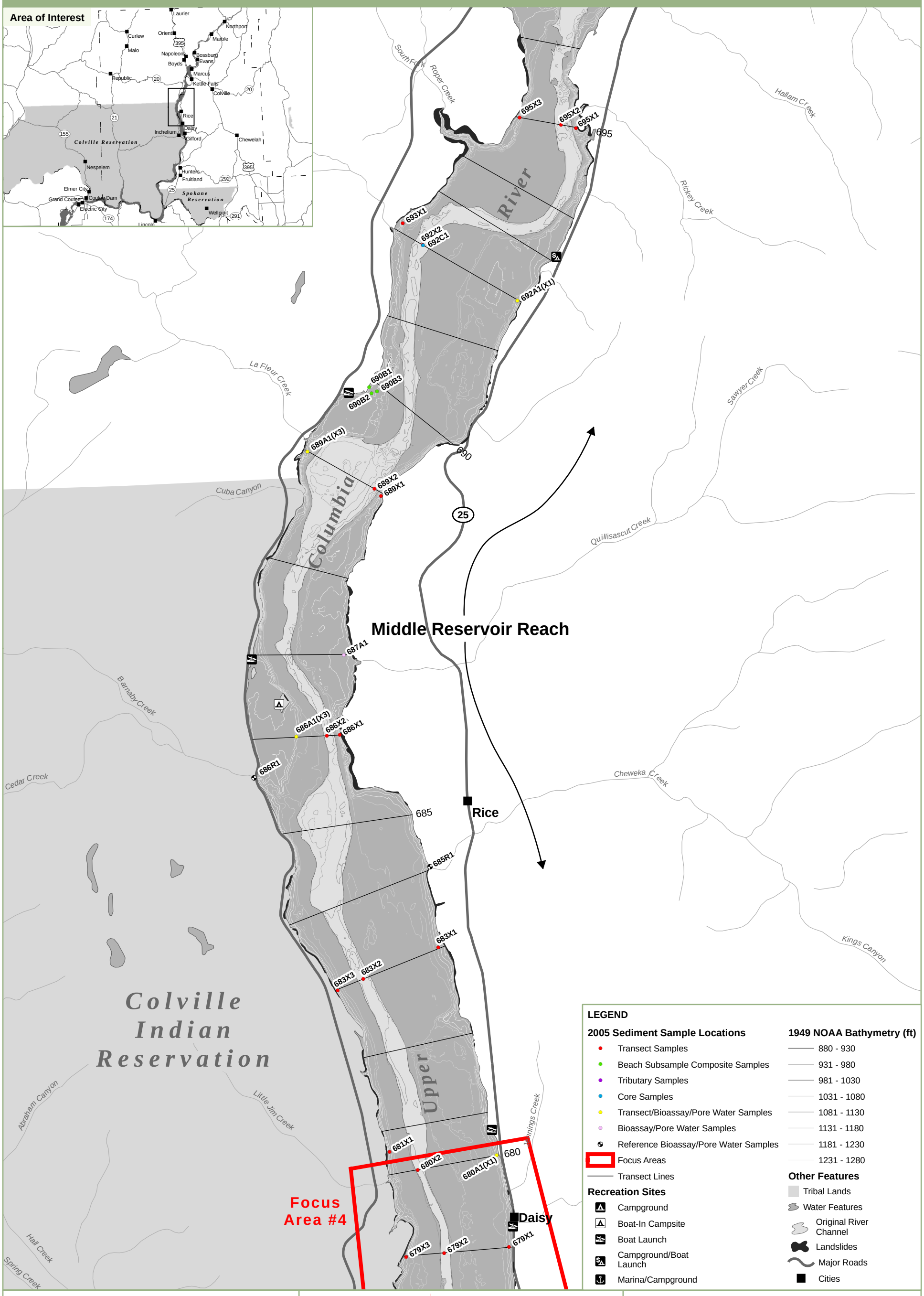


Map Notes

Prepared by: VBH Date: 6/18/2008

file path: \\Esc-server1\GIS\Projects\UCR\GIS\SRC\HHRA WorkPlan Draft 2 Rev\UCR_HHRA_WP_Draft2_AppxH3.mxd

Appendix H.4 2005 Sediment Sample Locations and Types
River Miles 679 to 696

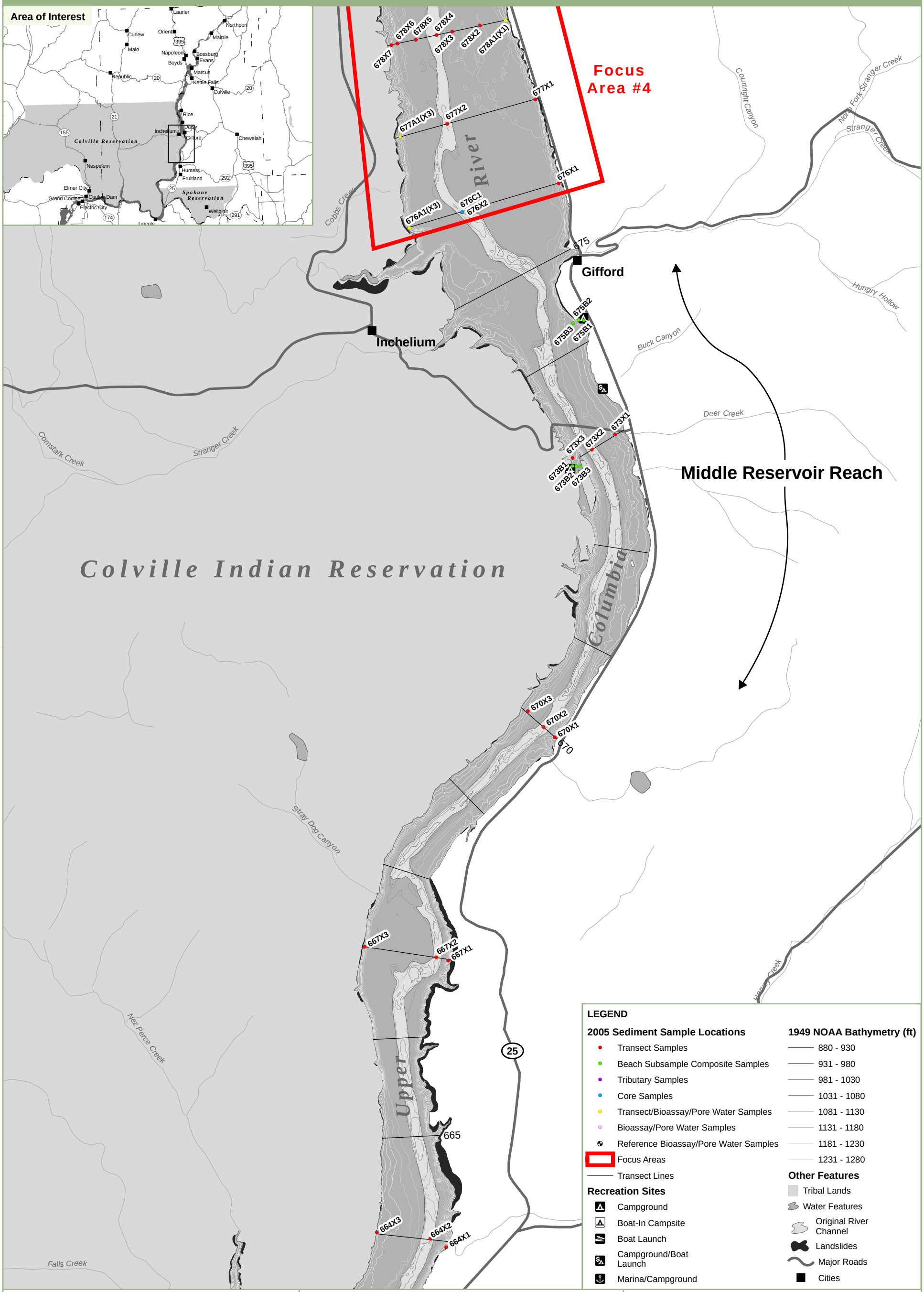


Map Notes

Prepared by: VBH Date: 6/18/2008

file path: \\Esc-server1\GIS\Projects\UCR\GIS\SRC\
HHRA WorkPlan Draft 2 Rev\UCR_HHRA_WP_Draft2_AppxH4.mxd

Appendix H.5 2005 Sediment Sample Locations and Types
River Miles 663 to 678



LEGEND

2005 Sediment Sample Locations
- Transect Samples
- Beach Subsample Composite Samples
- Tributary Samples
- Core Samples
- Transect/Bioassay/Pore Water Samples
- Bioassay/Pore Water Samples
- Reference Bioassay/Pore Water Samples
- Focus Areas
- Transect Lines

Recreation Sites
- Campground
- Boat-In Campsite
- Boat Launch
- Campground/Boat Launch
- Marina/Campground

1949 NOAA Bathymetry (ft)
- 880 - 930
- 931 - 980
- 981 - 1030
- 1031 - 1080
- 1081 - 1130
- 1131 - 1180
- 1181 - 1230
- 1231 - 1280

Other Features
- Tribal Lands
- Water Features
- Original River Channel
- Landslides
- Major Roads
- Cities

Miles
0 0.25 0.5 1 1.5 2

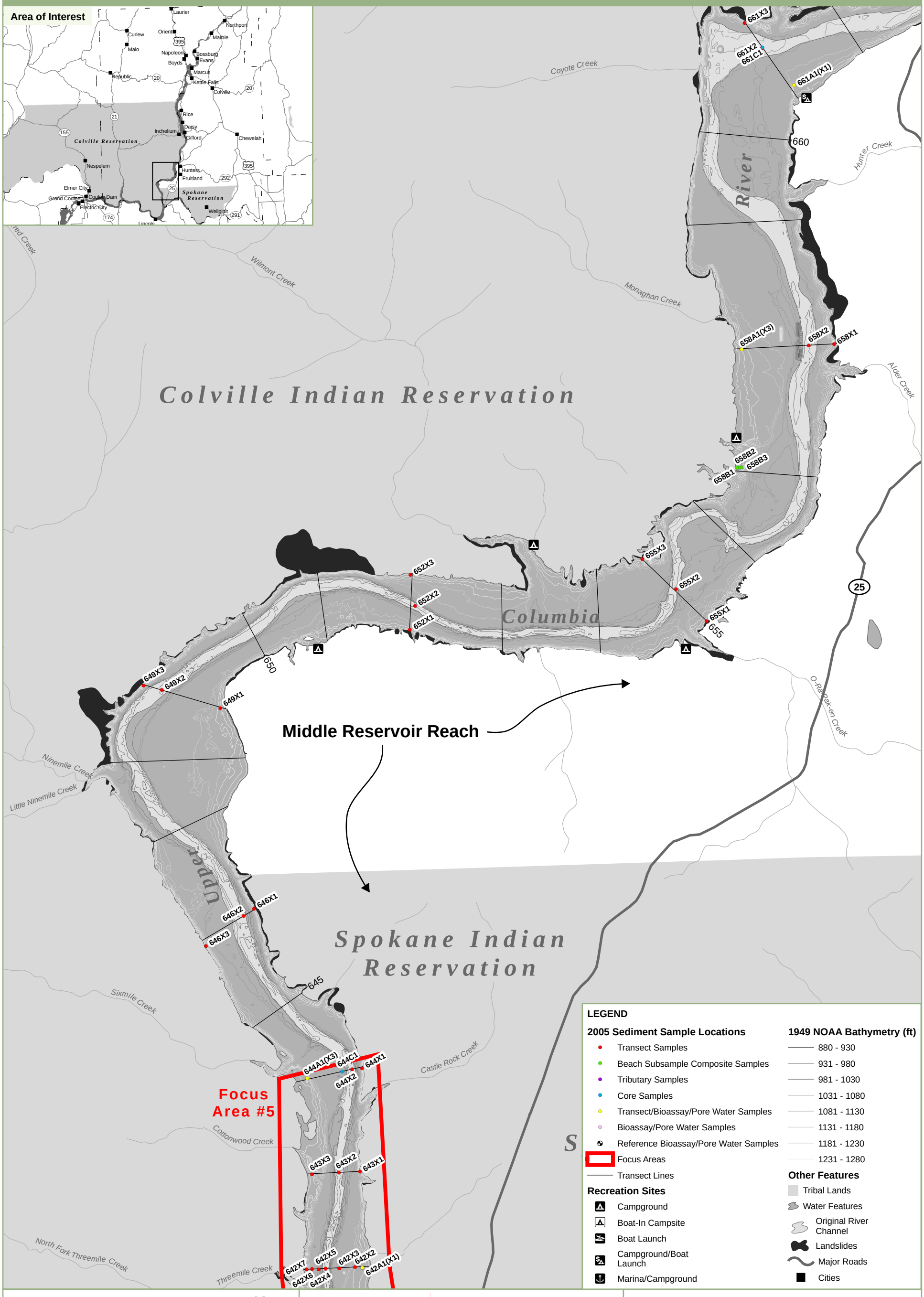
N

Map Notes

Prepared by: VBH Date: 6/18/2008

file path: Esc-server1\GIS\Projects\UCR\GIS\SRC\
HHRA WorkPlan Draft 2 Rev\UCR_HHRA_WP_Draft2_AppxH5.mxd

Appendix H.6 2005 Sediment Sample Locations and Types
River Miles 642 to 662



LEGEND

2005 Sediment Sample Locations
- Transect Samples
- Beach Subsample Composite Samples
- Tributary Samples
- Core Samples
- Transect/Bioassay/Pore Water Samples
- Bioassay/Pore Water Samples
- Reference Bioassay/Pore Water Samples
- Focus Areas
- Transect Lines

Recreation Sites
- Campground
- Boat-In Campsite
- Boat Launch
- Campground/Boat Launch
- Marina/Campground

1949 NOAA Bathymetry (ft)
- 880 - 930
- 931 - 980
- 981 - 1030
- 1031 - 1080
- 1081 - 1130
- 1131 - 1180
- 1181 - 1230
- 1231 - 1280

Other Features
- Tribal Lands
- Water Features
- Original River Channel
- Landslides
- Major Roads
- Cities

Miles
0 0.25 0.5 1 1.5 2

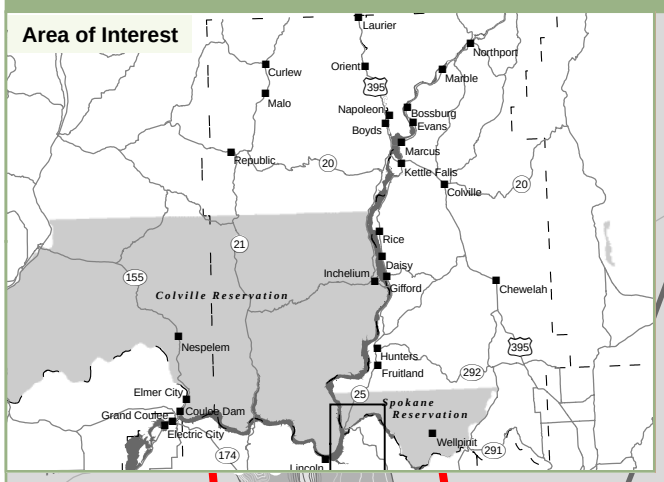
N

Map Notes

Prepared by: VBH Date: 6/18/2008

file path: Esc-server1\GIS\Projects\UCR\GIS\SRC\
HHRA WorkPlan Draft 2 Rev\UCR_HHRA_WP_Draft2_AppxH6.mxd

Appendix H.7 2005 Sediment Sample Locations and Types
River Miles 634 to 641



Spokane Indian Reservation

Colville Indian Reserv.

Upper Columbia River

Spokane River

Focus Area #5

642B3 642B2 642B1

641X3 641X2 641A1(X1)

640 640A1(X3) 640X2 640X1

639T1 639T2

637X7 637X6 637X5 637X4 637C1 637X3 637X2 637A1(X1)

634X3 634X2 634A1(X1) 635

Middle Reservoir Reach

Lower Reservoir Reach

Louie Creek
Lamb Draw
George Creek
Moonshine Canyon
Olsen Canyon
Hawk Creek
Logsdon Creek
Dodd Canyon
Trinkle Canyon
Bean Canyon
Snook Canyon
Bockemuehl Canyon
Hollies Creek
Pitney Creek
Green Canyon
Ferguson Creek
Corazada Creek
25
11

LEGEND

2005 Sediment Sample Locations
- Transect Samples
- Beach Subsample Composite Samples
- Tributary Samples
- Core Samples
- Transect/Bioassay/Pore Water Samples
- Bioassay/Pore Water Samples
- Reference Bioassay/Pore Water Samples
- Focus Areas
- Transect Lines

Recreation Sites
- Campground
- Boat-In Campsite
- Boat Launch
- Campground/Boat Launch
- Marina/Campground

1949 NOAA Bathymetry (ft)
- 880 - 930
- 931 - 980
- 981 - 1030
- 1031 - 1080
- 1081 - 1130
- 1131 - 1180
- 1181 - 1230
- 1231 - 1280

Other Features
- Tribal Lands
- Water Features
- Original River Channel
- Landslides
- Major Roads
- Cities

Miles
0 0.25 0.5 1 1.5 2

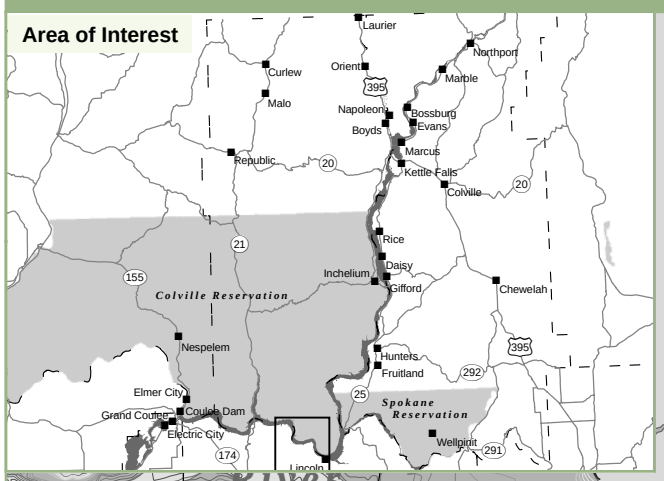
N

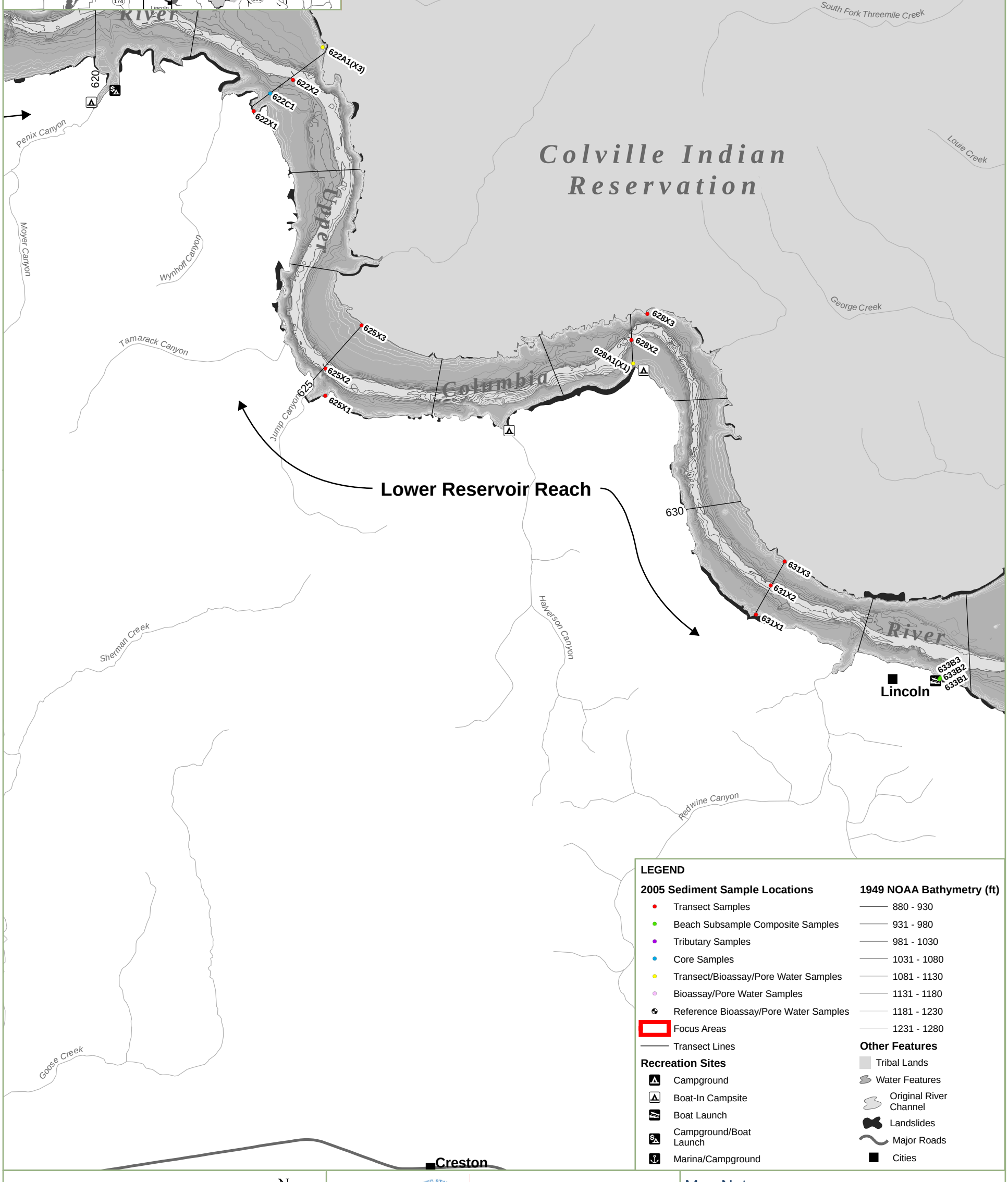
Map Notes

Prepared by: VBH Date: 6/18/2008

file path: Esc-server1\GIS\Projects\UCR\GIS\SRC\
HHRA WorkPlan Draft 2 Rev\UCR_HHRA_WP_Draft2_AppxH7.mxd

Appendix H.8 2005 Sediment Sample Locations and Types
River Miles 622 to 633





LEGEND

2005 Sediment Sample Locations
- Transect Samples
- Beach Subsample Composite Samples
- Tributary Samples
- Core Samples
- Transect/Bioassay/Pore Water Samples
- Bioassay/Pore Water Samples
- Reference Bioassay/Pore Water Samples
- Focus Areas
- Transect Lines

Recreation Sites
- Campground
- Boat-In Campsite
- Boat Launch
- Campground/Boat Launch
- Marina/Campground

1949 NOAA Bathymetry (ft)
- 880 - 930
- 931 - 980
- 981 - 1030
- 1031 - 1080
- 1081 - 1130
- 1131 - 1180
- 1181 - 1230
- 1231 - 1280

Other Features
- Tribal Lands
- Water Features
- Original River Channel
- Landslides
- Major Roads
- Cities

Miles
0 0.25 0.5 1 1.5 2

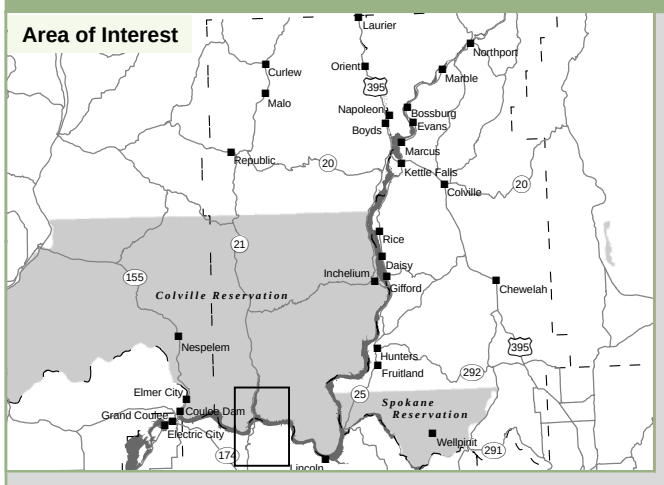
N

Map Notes

Prepared by: VBH Date: 6/18/2008

file path: Esc-server1\GIS\Projects\UCR\GIS\SRC\
HHRA WorkPlan Draft 2 Rev\UCR_HHRA_WP_Draft2_AppxH8.mxd

Appendix H.9 2005 Sediment Sample Locations and Types
River Miles 610 to 621



LEGEND

2005 Sediment Sample Locations
- Transect Samples
- Beach Subsample Composite Samples
- Tributary Samples
- Core Samples
- Transect/Bioassay/Pore Water Samples
- Bioassay/Pore Water Samples
- Reference Bioassay/Pore Water Samples
- Focus Areas
- Transect Lines

Recreation Sites
- Campground
- Boat-In Campsite
- Boat Launch
- Campground/Boat Launch
- Marina/Campground

1949 NOAA Bathymetry (ft)
- 880 - 930
- 931 - 980
- 981 - 1030
- 1031 - 1080
- 1081 - 1130
- 1131 - 1180
- 1181 - 1230
- 1231 - 1280

Other Features
- Tribal Lands
- Water Features
- Original River Channel
- Landslides
- Major Roads
- Cities

Miles
0 0.25 0.5 1 1.5 2

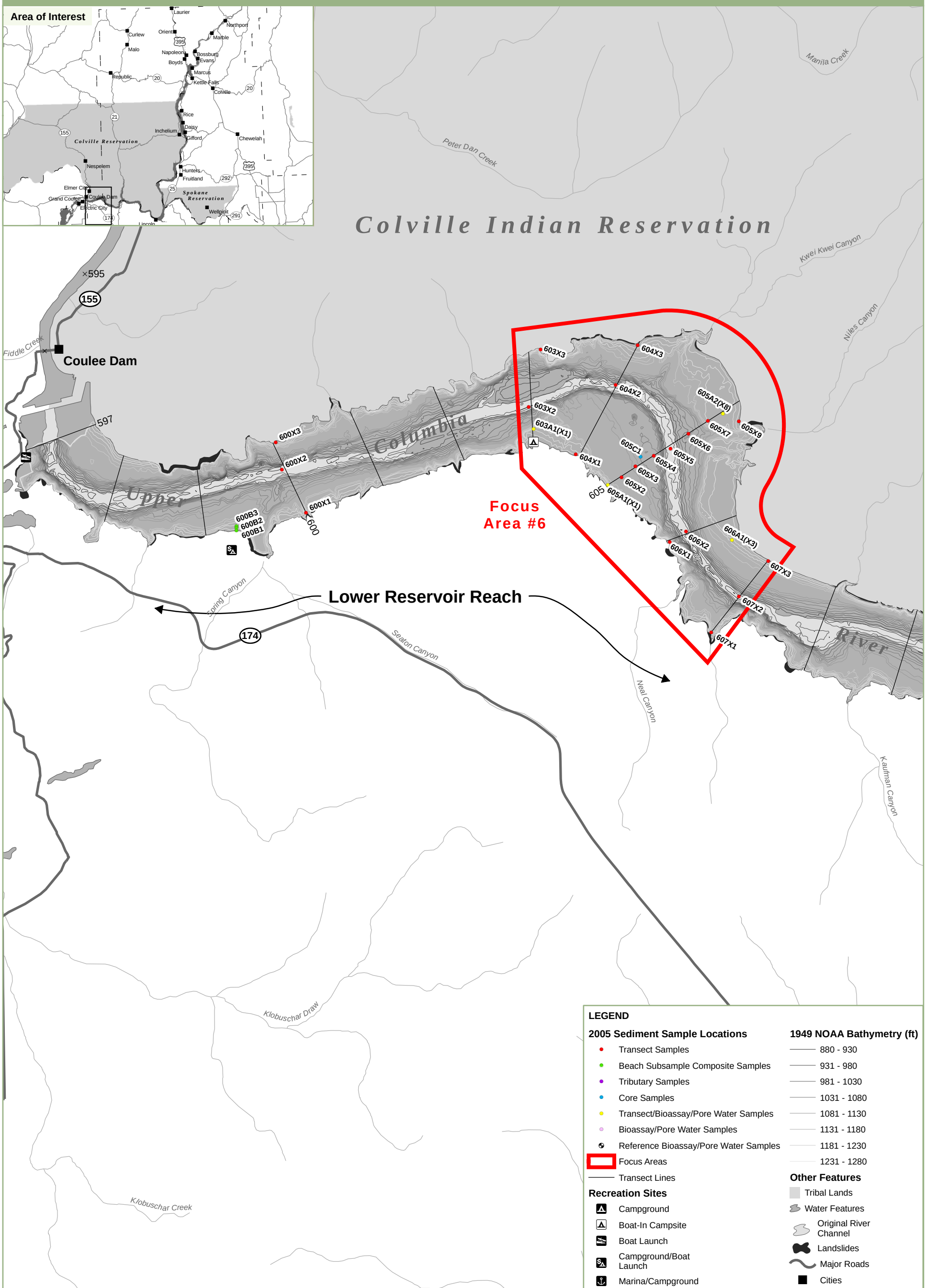
N

Map Notes

Prepared by: VBH Date: 6/18/2008

file path: Esc-server1\GIS\Projects\UCR\GIS\SRC\
HHRA WorkPlan Draft 2 Rev\UCR_HHRA_WP_Draft2_AppxH9.mxd

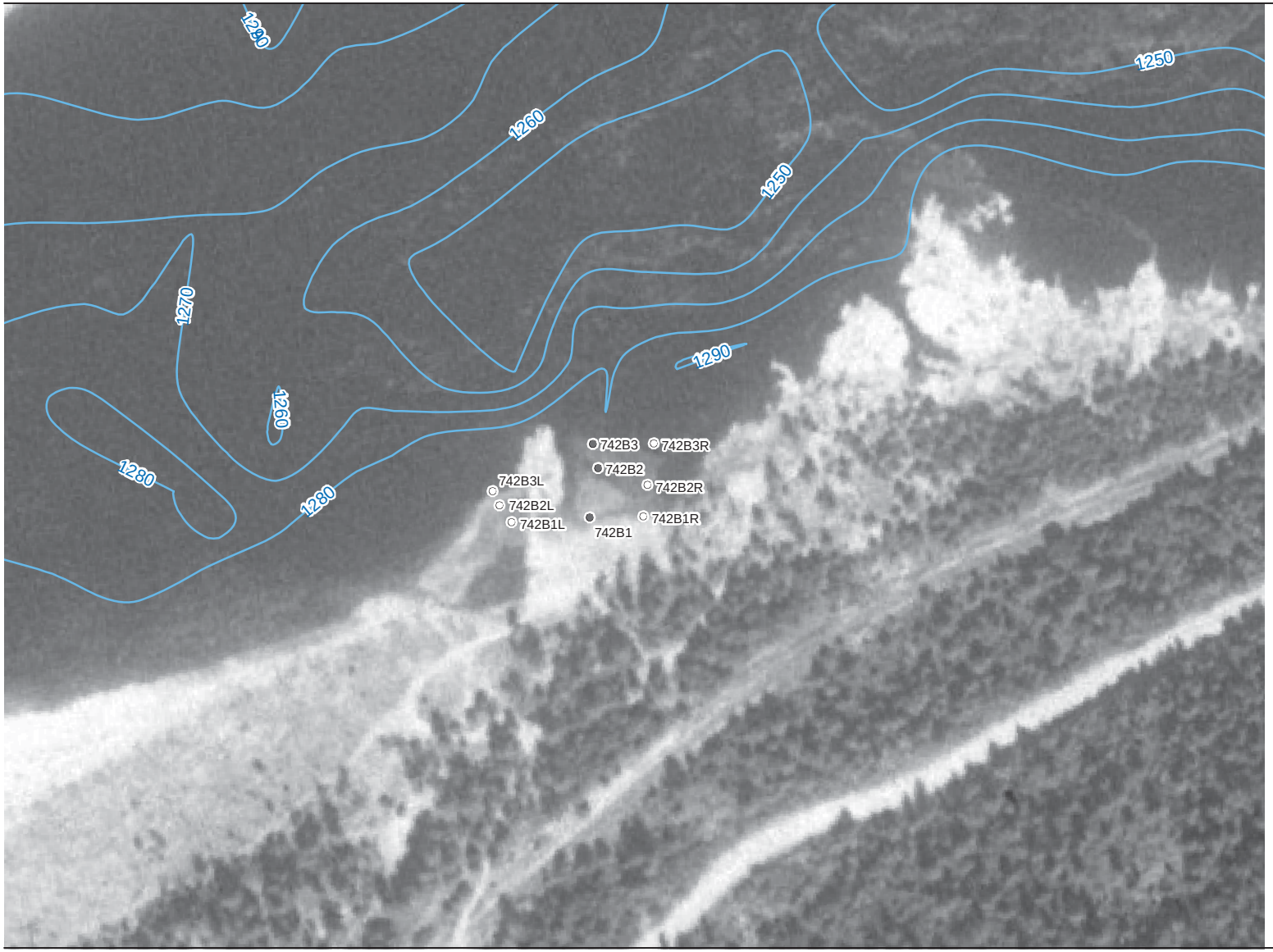
Appendix H.10 2005 Sediment Sample Locations and Types
River Miles 595 to 609



Map Notes

Prepared by: VBH Date: 6/18/2008

file path: Esc-server1\GIS\Projects\UCR\GIS\SRC\HHRA WorkPlan Draft 2 Rev\UCR_HHRA_WP_Draft2_AppxH10.mxd



2005 Beach Sediment Sample Locations

LEGEND

2005 Beach Sampling

- Beach Subsample Composites
- Beach Subsamples

1949 NOAA Bathymetry

- 10-foot Bottom Elevation Contours

Source: USEPA. 2006. Phase I Sediment Sampling Data Evaluation Upper Columbia River Site CERCLA RI/FS, Draft Final. Prepared by CH2M HILL and Ecology & Environment. August 25, 2006. U.S. Environmental Protection Agency, Region 10. Seattle, WA.

N

0 100 200

Approximate scale in feet

APPENDIX H.11

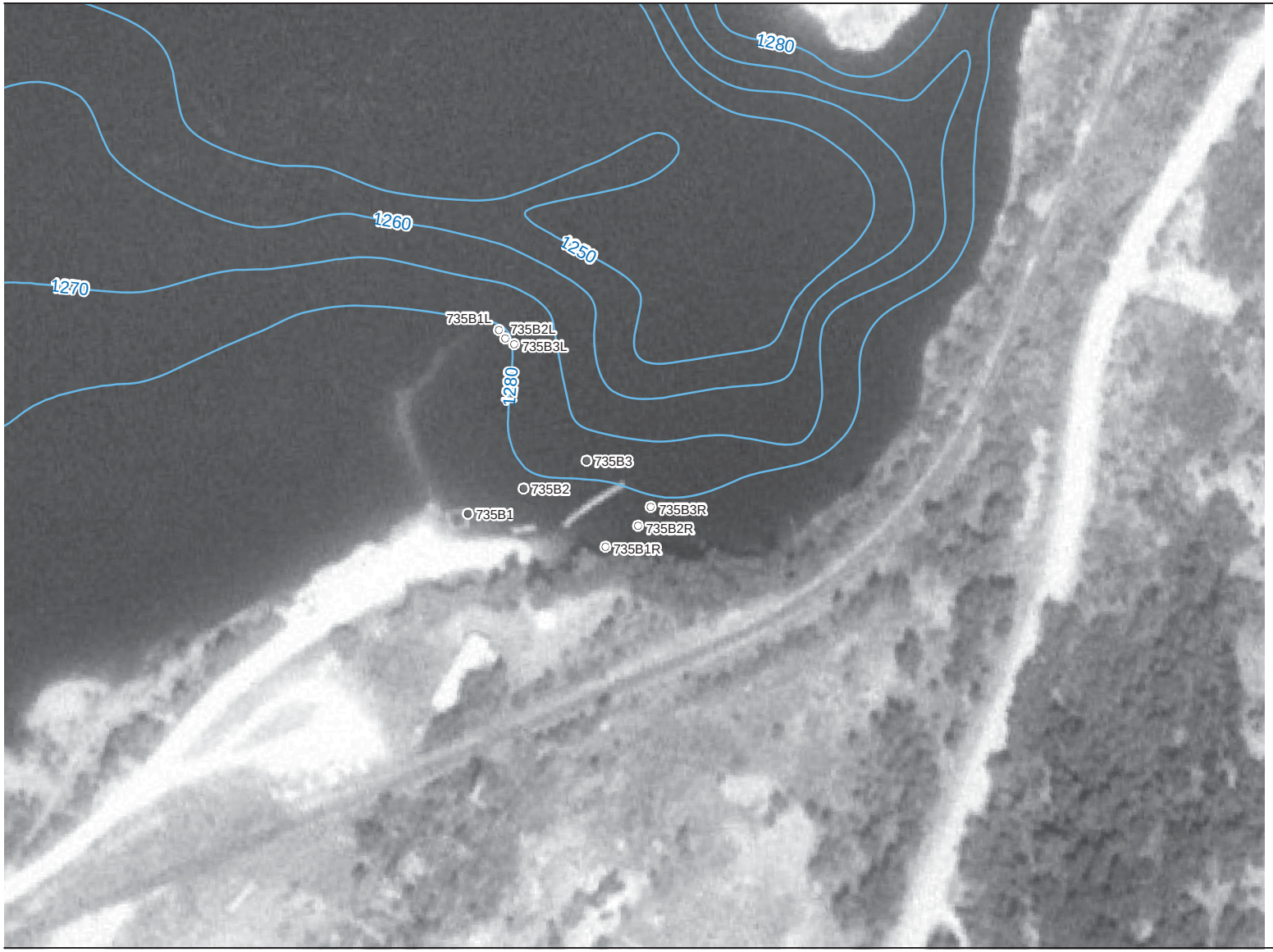
Black Sand Beach - RM 742

2005 Beach Sample Locations

Upper Columbia River RI/FS

CH2MHILL

file path: Esc-server1\gis\Projects\UCR\GIS\SRC\HHRA Work Plan Draft2 Rev



2005 Beach Sediment Sample Locations

LEGEND

2005 Beach Sampling

- Beach Subsample Composites
- Beach Subsamples

1949 NOAA Bathymetry

- 10-foot Bottom Elevation Contours

Source: USEPA. 2006. Phase I Sediment Sampling Data Evaluation Upper Columbia River Site CERCLA RI/FS, Draft Final. Prepared by CH2M HILL and Ecology & Environment. August 25, 2006. U.S. Environmental Protection Agency, Region 10. Seattle, WA.

N

0 100 200

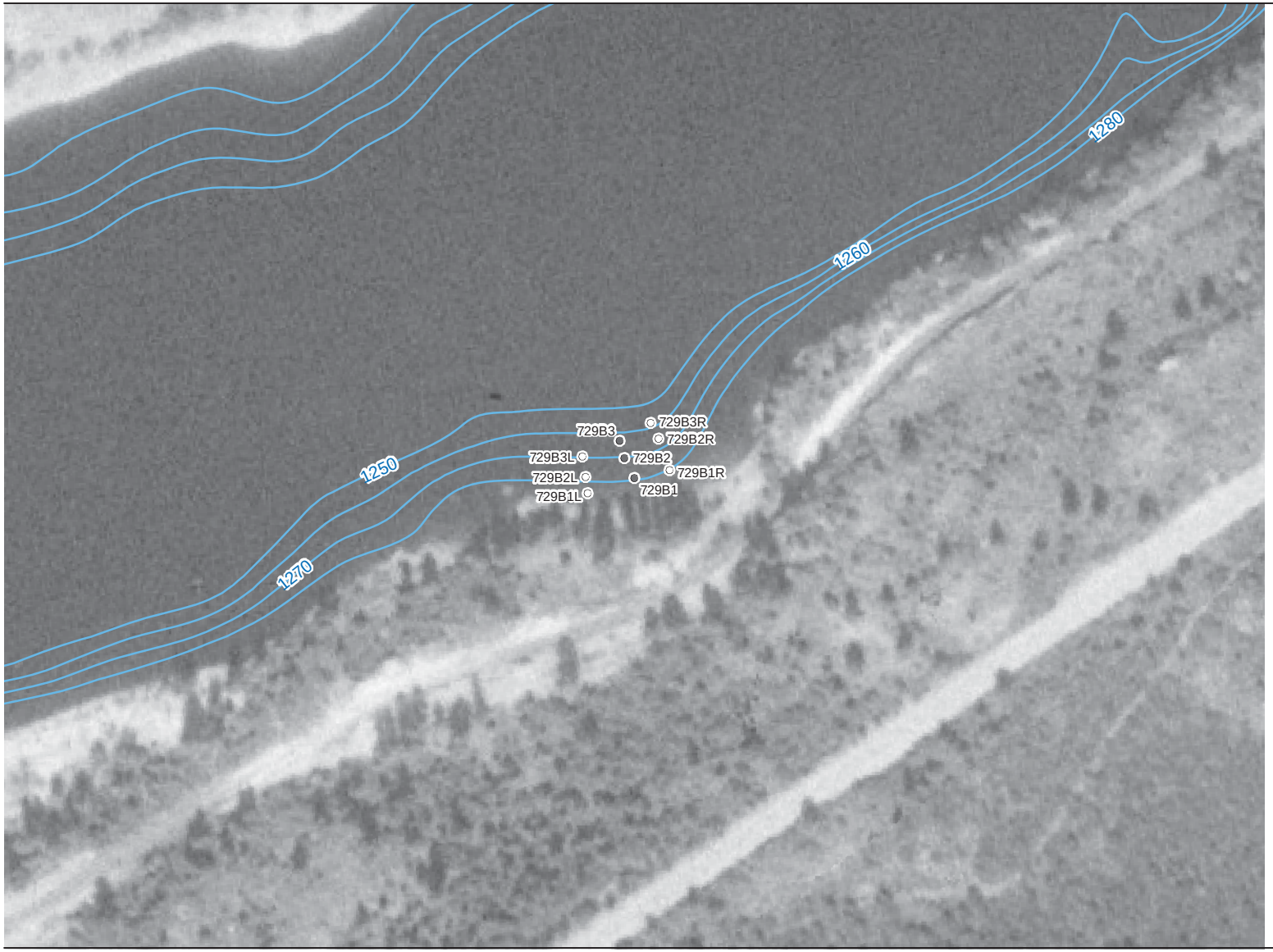
Approximate scale in feet

APPENDIX H.12

Northport City Boat Launch
2005 Beach Sample Locations
Upper Columbia River RI/FS

CH2MHILL

file path: Esc-server1\gis\Projects\UCR\GIS\SRC\HHRA Work Plan Draft2 Rev



2005 Beach Sediment Sample Locations

LEGEND

2005 Beach Sampling

- Beach Subsample Composites
- Beach Subsamples

1949 NOAA Bathymetry

- 10-foot Bottom Elevation Contours

Source: USEPA. 2006. Phase I Sediment Sampling Data Evaluation Upper Columbia River Site CERCLA RI/FS, Draft Final. Prepared by CH2M HILL and Ecology & Environment. August 25, 2006. U.S. Environmental Protection Agency, Region 10. Seattle, WA.

N

0 100 200

Approximate scale in feet

APPENDIX H.13

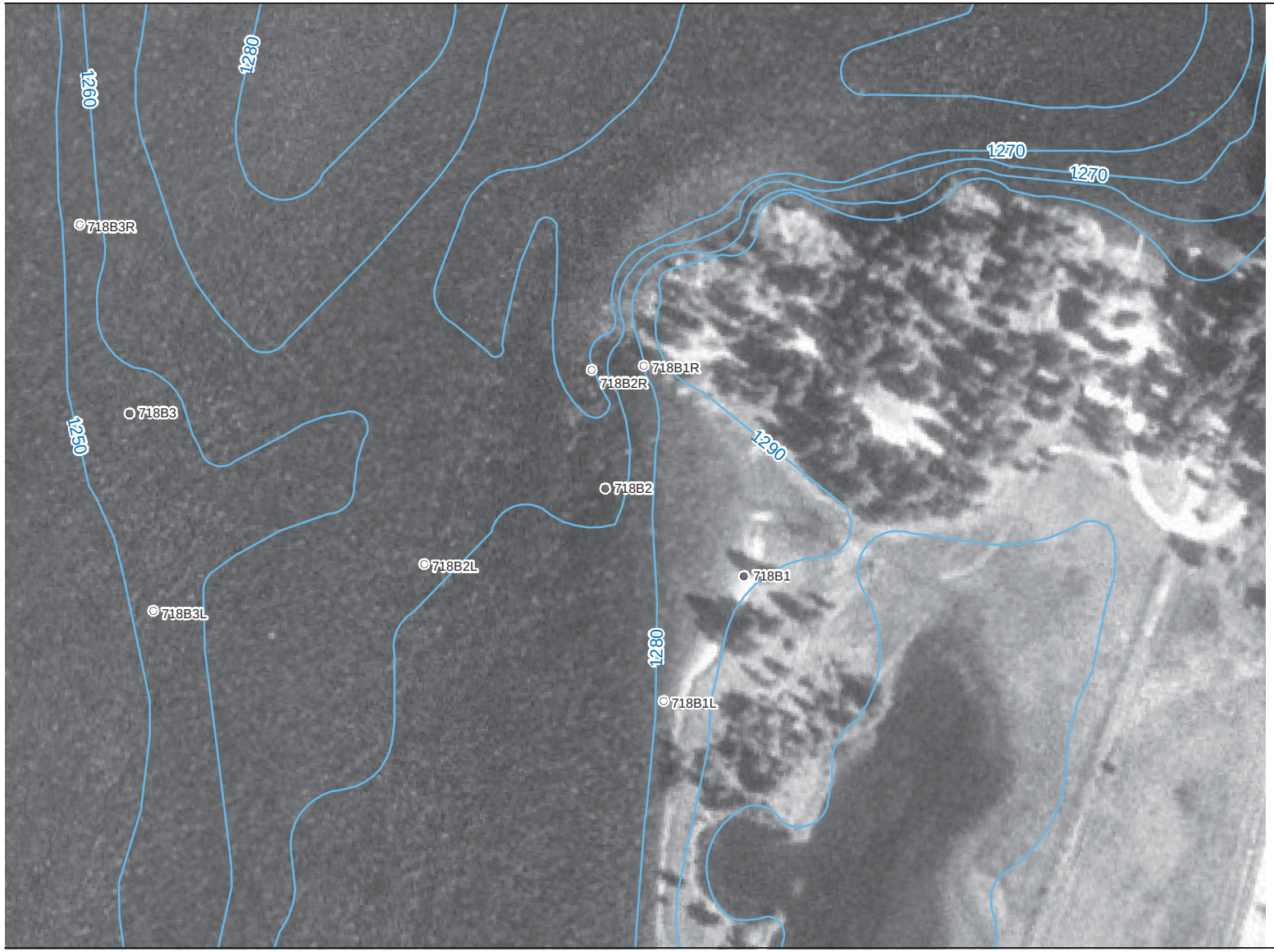
Dalles Orchard

2005 Beach Sample Locations

Upper Columbia River RI/FS

CH2MHILL

file path: Esc-server1\gis\Projects\UCR\GIS\SRC\HHRA Work Plan Draft2 Rev



2005 Beach Sediment Sample Locations

LEGEND

2005 Beach Sampling

- Beach Subsample Composites
- Beach Subsamples

1974 USBR Bathymetry

- 10-foot Bottom Elevation Contours

Source: USEPA. 2006. Phase I Sediment Sampling Data Evaluation Upper Columbia River Site CERCLA RI/FS, Draft Final. Prepared by CH2M HILL and Ecology & Environment. August 25, 2006. U.S. Environmental Protection Agency, Region 10. Seattle, WA.

N

0 100 200

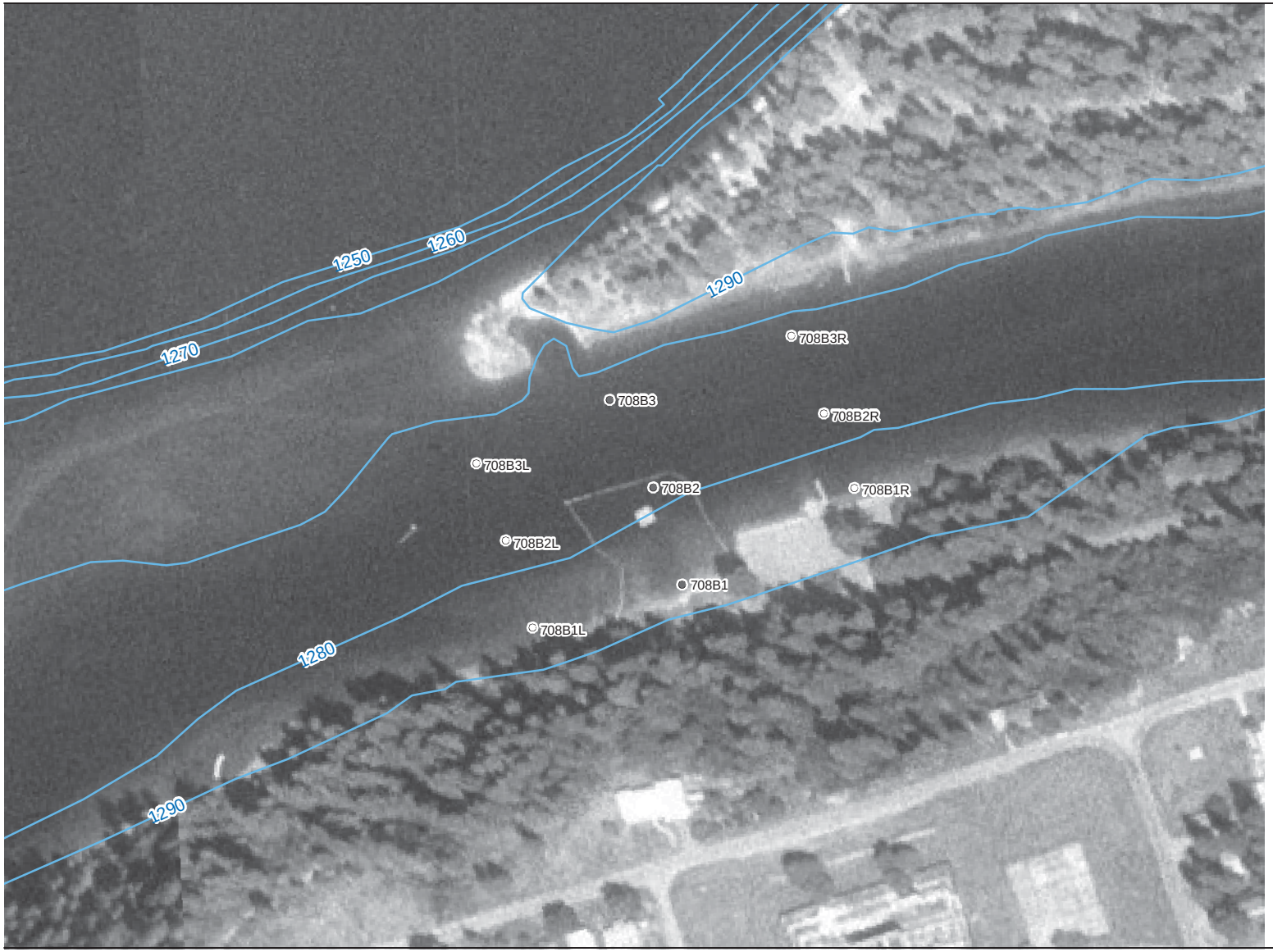
Approximate scale in feet

APPENDIX H.14

North Gorge Campground
2005 Beach Sample Locations
Upper Columbia River RI/FS

CH2MHILL

file path: Esc-server1\gis\Projects\UCR\GIS\SRC\HHRA Work Plan Draft2 Rev



2005 Beach Sediment Sample Locations

LEGEND

2005 Beach Sampling

- Beach Subsample Composites
- Beach Subsamples

1974 USBR Bathymetry

- 10-foot Bottom Elevation Contours

Source: USEPA. 2006. Phase I Sediment Sampling Data Evaluation Upper Columbia River Site CERCLA RI/FS, Draft Final. Prepared by CH2M HILL and Ecology & Environment. August 25, 2006. U.S. Environmental Protection Agency, Region 10. Seattle, WA.

N

0 100 200

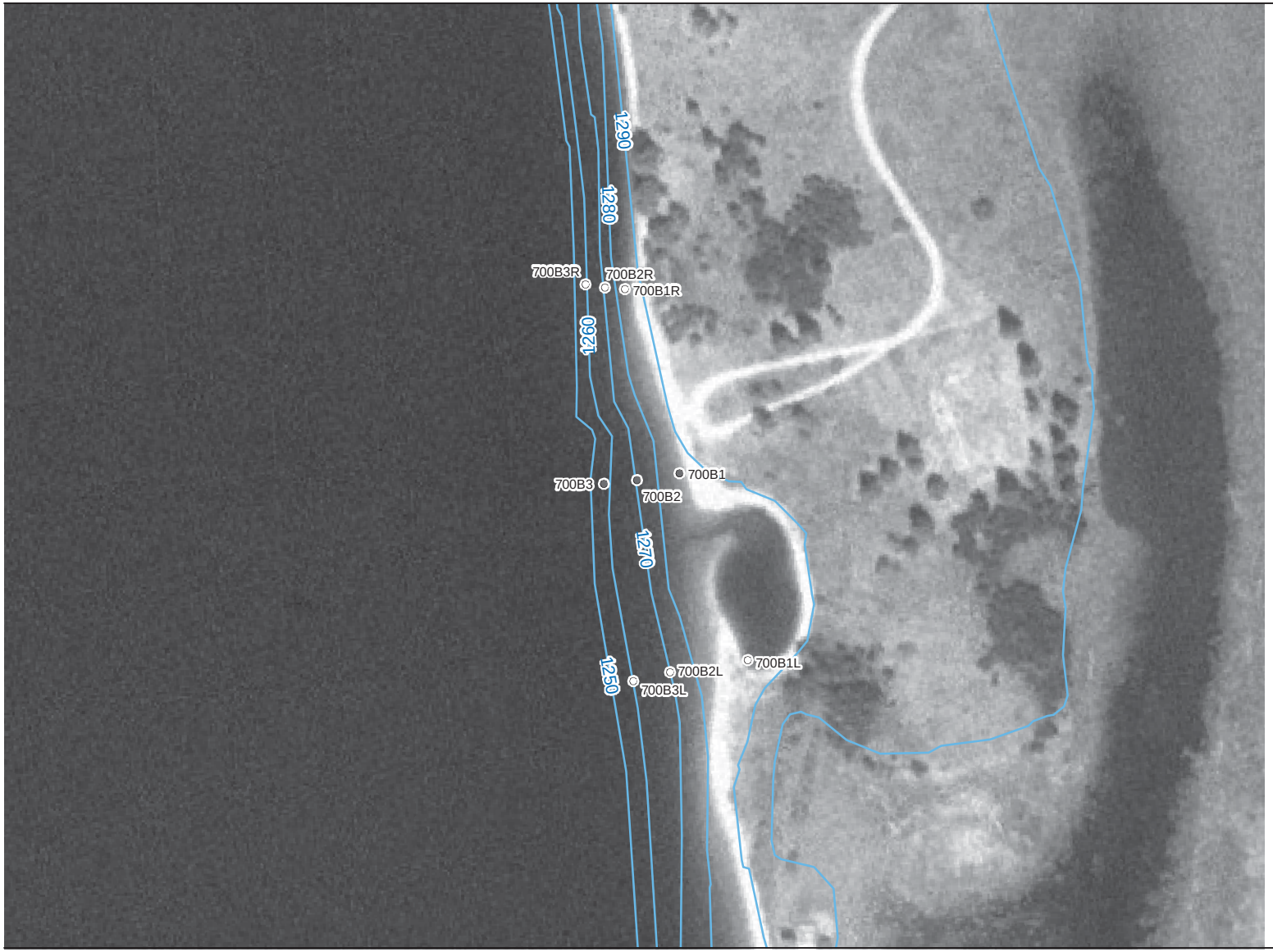
Approximate scale in feet

APPENDIX H.15

Marcus Island Campground
2005 Beach Sample Locations
Upper Columbia River RI/FS

CH2MHILL

file path: Esc-server1\gis\Projects\UCR\GIS\SRC\HHRA Work Plan Draft2 Rev



2005 Beach Sediment Sample Locations

LEGEND

2005 Beach Sampling

- Beach Subsample Composites
- Beach Subsamples

1974 USBR Bathymetry

- 10-foot Bottom Elevation Contours

Source: USEPA. 2006. Phase I Sediment Sampling Data Evaluation Upper Columbia River Site CERCLA RI/FS, Draft Final. Prepared by CH2M HILL and Ecology & Environment. August 25, 2006. U.S. Environmental Protection Agency, Region 10. Seattle, WA.

N

0 100 200

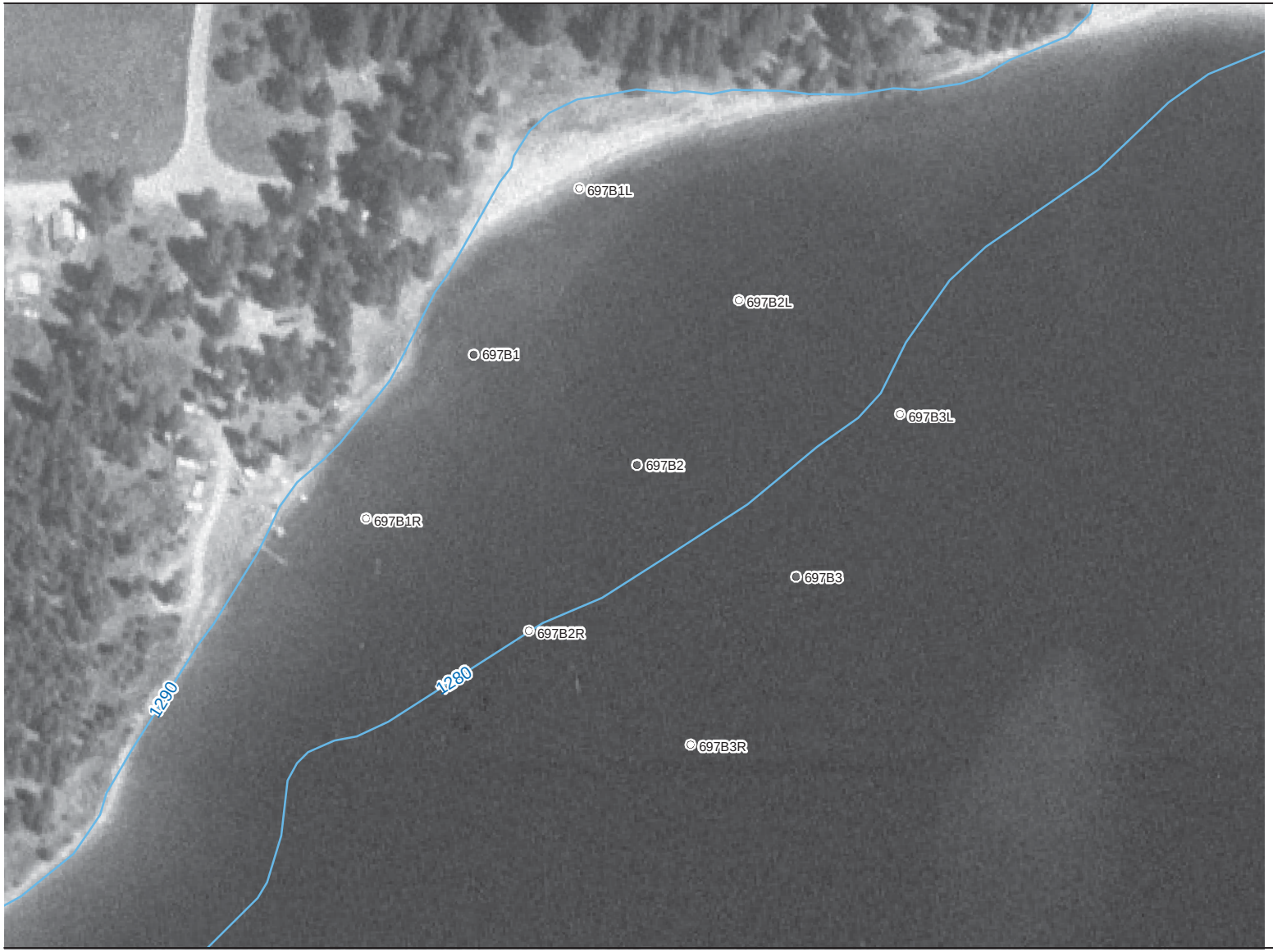
Approximate scale in feet

APPENDIX H.16

Kettle Falls Swim Beach
2005 Beach Sample Locations
Upper Columbia River RI/FS

CH2MHILL

file path: Esc-server1\gis\Projects\UCR\GIS\SRC\HHRA Work Plan Draft2 Rev



2005 Beach Sediment Sample Locations

LEGEND

2005 Beach Sampling

- Beach Subsample Composites
- Beach Subsamples

1974 USBR Bathymetry

- 10-foot Bottom Elevation Contours

Source: USEPA. 2006. Phase I Sediment Sampling Data Evaluation Upper Columbia River Site CERCLA RI/FS, Draft Final. Prepared by CH2M HILL and Ecology & Environment. August 25, 2006. U.S. Environmental Protection Agency, Region 10. Seattle, WA.

N

0 100 200

Approximate scale in feet

APPENDIX H.17

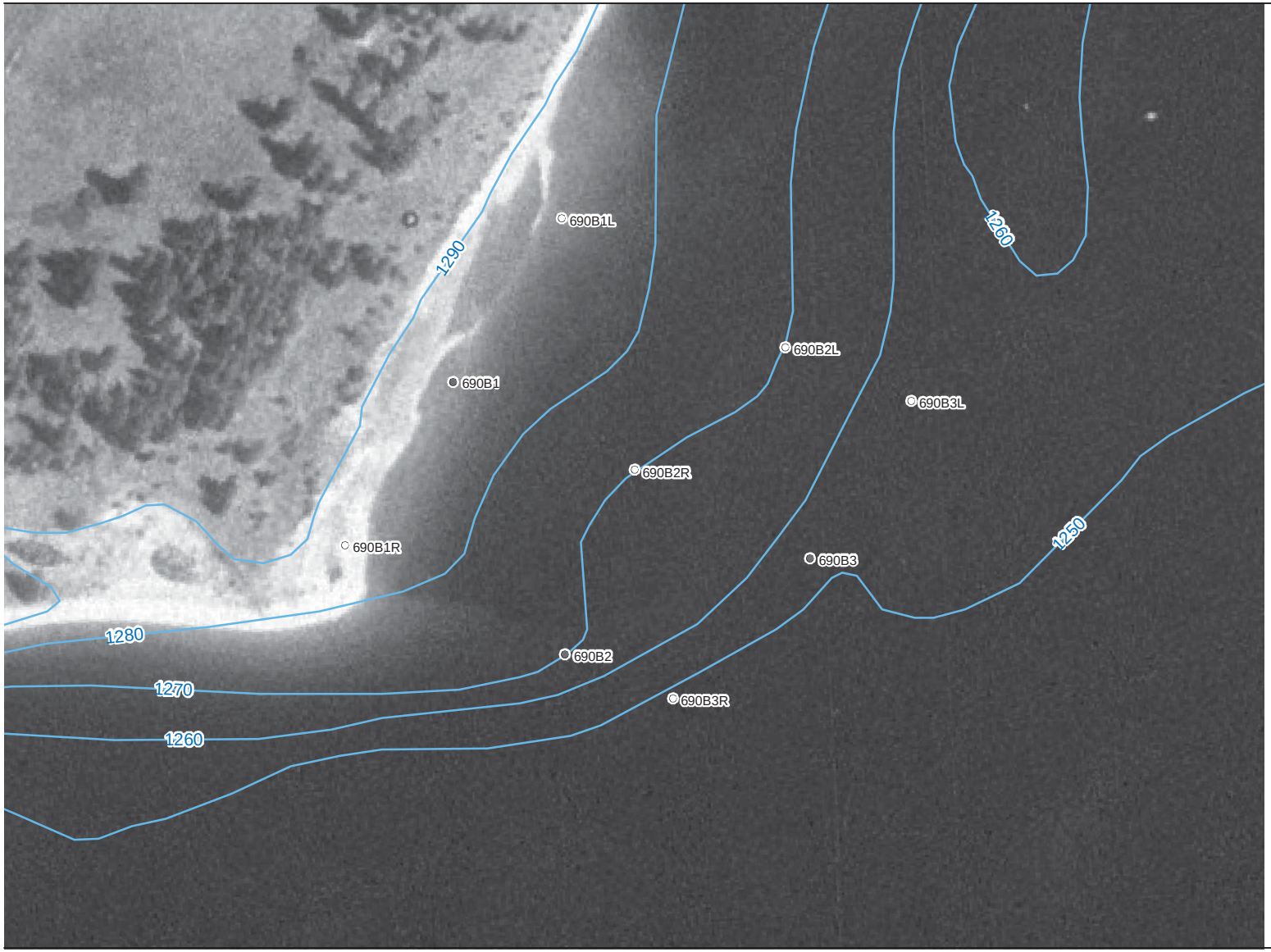
Haag Cove

2005 Beach Sample Locations

Upper Columbia River RI/FS

CH2MHILL

file path: Esc-server1\gis\Projects\UCR\GIS\SRC\HHRA Work Plan Draft2 Rev



2005 Beach Sediment Sample Locations

LEGEND

2005 Beach Sampling

- Beach Subsample Composites
- Beach Subsamples

1974 USBR Bathymetry

- 10-foot Bottom Elevation Contours

Source: USEPA. 2006. Phase I Sediment Sampling Data Evaluation Upper Columbia River Site CERCLA RI/FS, Draft Final. Prepared by CH2M HILL and Ecology & Environment. August 25, 2006. U.S. Environmental Protection Agency, Region 10. Seattle, WA.

N

0 100 200

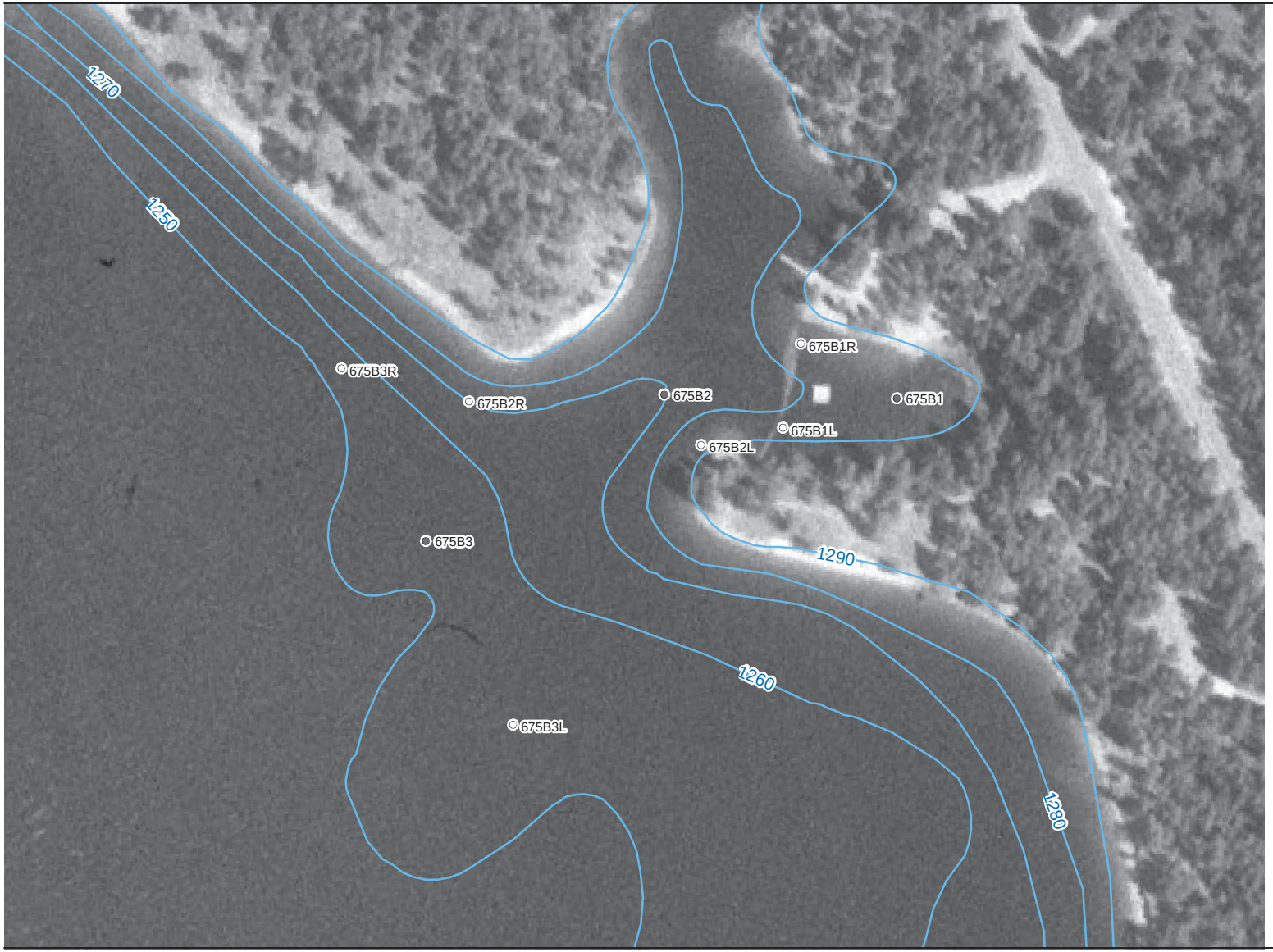
Approximate scale in feet

APPENDIX H.18

French Rocks Boat Launch
2005 Beach Sample Locations
Upper Columbia River RI/FS

CH2MHILL

file path: Esc-server1\gis\Projects\UCR\GIS\SRC\HHRA Work Plan Draft2 Rev



2005 Beach Sediment Sample Locations

LEGEND

2005 Beach Sampling

- Beach Subsample Composites
- Beach Subsamples

1974 USBR Bathymetry

- 10-foot Bottom Elevation Contours

Source: USEPA. 2006. Phase I Sediment Sampling Data Evaluation Upper Columbia River Site CERCLA RI/FS, Draft Final. Prepared by CH2M HILL and Ecology & Environment. August 25, 2006. U.S. Environmental Protection Agency, Region 10. Seattle, WA.

N

0 100 200

Approximate scale in feet

APPENDIX H.19

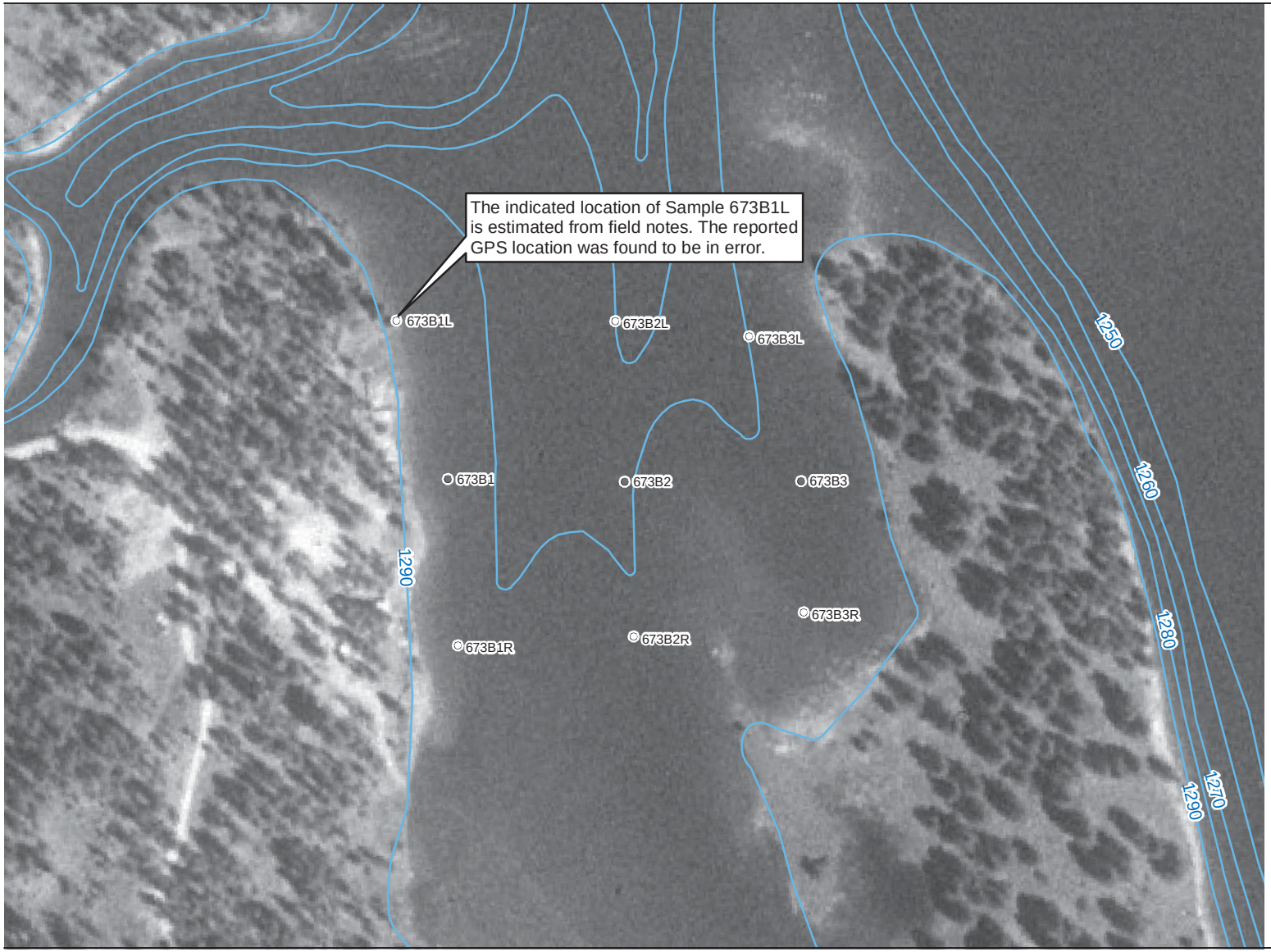
Cloverleaf Beach

2005 Beach Sample Locations

Upper Columbia River RI/FS

CH2MHILL

file path: Esc-server1\gis\Projects\UCR\GIS\SRC\HHRA Work Plan Draft2 Rev



2005 Beach Sediment Sample Locations

LEGEND

2005 Beach Sampling

- Beach Subsample Composites
- Beach Subsamples

1974 USBR Bathymetry

- 10-foot Bottom Elevation Contours

Source: USEPA. 2006. Phase I Sediment Sampling Data Evaluation Upper Columbia River Site CERCLA RI/FS, Draft Final. Prepared by CH2M HILL and Ecology & Environment. August 25, 2006. U.S. Environmental Protection Agency, Region 10. Seattle, WA.

N

0 100 200

Approximate scale in feet

APPENDIX H.20

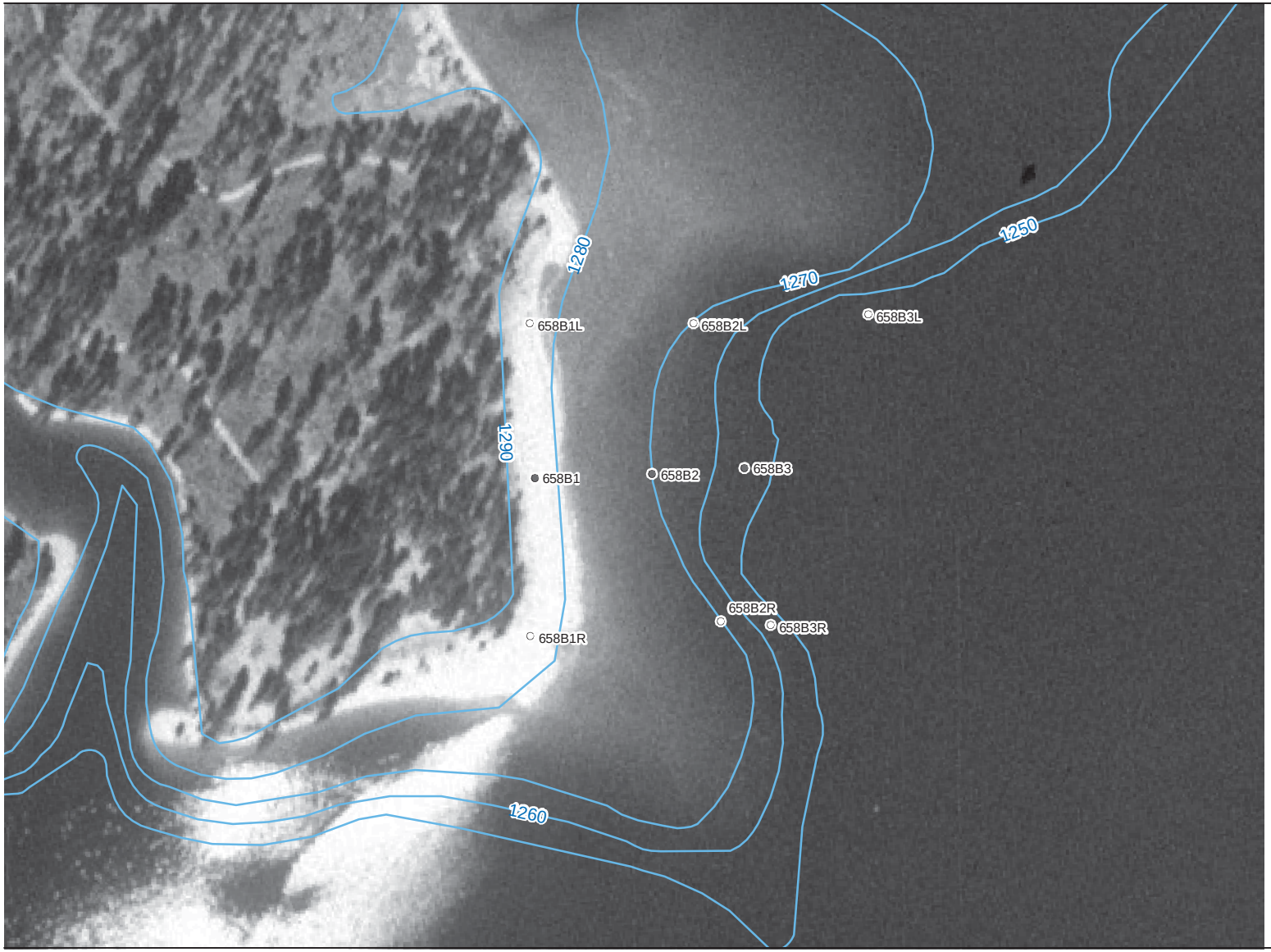
AA Campground

2005 Beach Sample Locations

Upper Columbia River RI/FS

CH2MHILL

file path: Esc-server1\gis\Projects\UCR\GIS\SRC\HHRA Work Plan Draft2 Rev



2005 Beach Sediment Sample Locations

LEGEND

2005 Beach Sampling

- Beach Subsample Composites
- Beach Subsamples

1974 USBR Bathymetry

- 10-foot Bottom Elevation Contours

Source: USEPA. 2006. Phase I Sediment Sampling Data Evaluation Upper Columbia River Site CERCLA RI/FS, Draft Final. Prepared by CH2M HILL and Ecology & Environment. August 25, 2006. U.S. Environmental Protection Agency, Region 10. Seattle, WA.

N

0 100 200

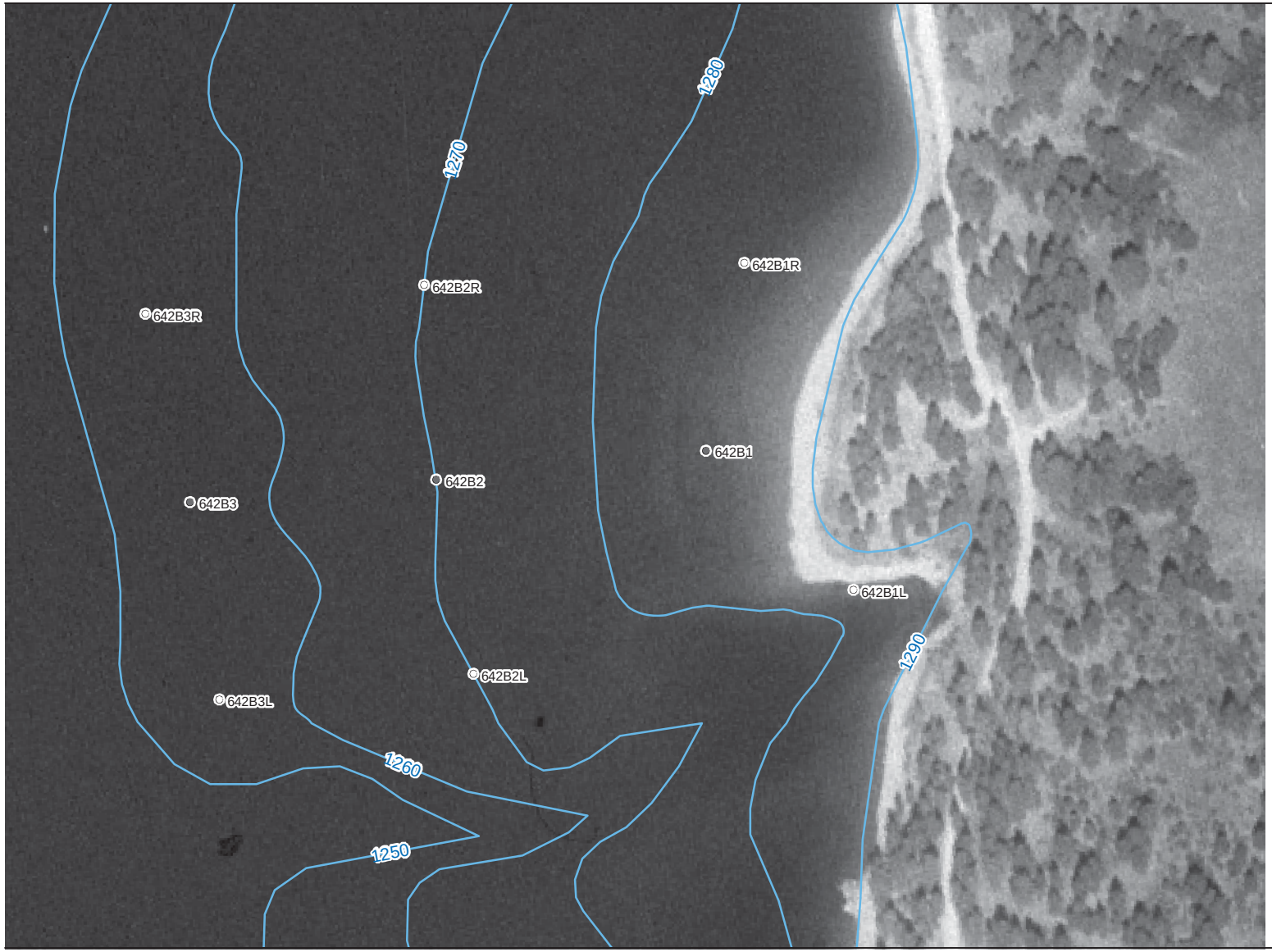
Approximate scale in feet

APPENDIX H.21

Rogers Bar Campground
2005 Beach Sample Locations
Upper Columbia River RI/FS

CH2MHILL

file path: Esc-server1\gis\Projects\UCR\GIS\SRC\HHRA Work Plan Draft2 Rev



2005 Beach Sediment Sample Locations

LEGEND

2005 Beach Sampling

- Beach Subsample Composites
- Beach Subsamples

1974 USBR Bathymetry

- 10-foot Bottom Elevation Contours

Source: USEPA. 2006. Phase I Sediment Sampling Data Evaluation Upper Columbia River Site CERCLA RI/FS, Draft Final. Prepared by CH2M HILL and Ecology & Environment. August 25, 2006. U.S. Environmental Protection Agency, Region 10. Seattle, WA.

N

0 100 200

Approximate scale in feet

APPENDIX H.22

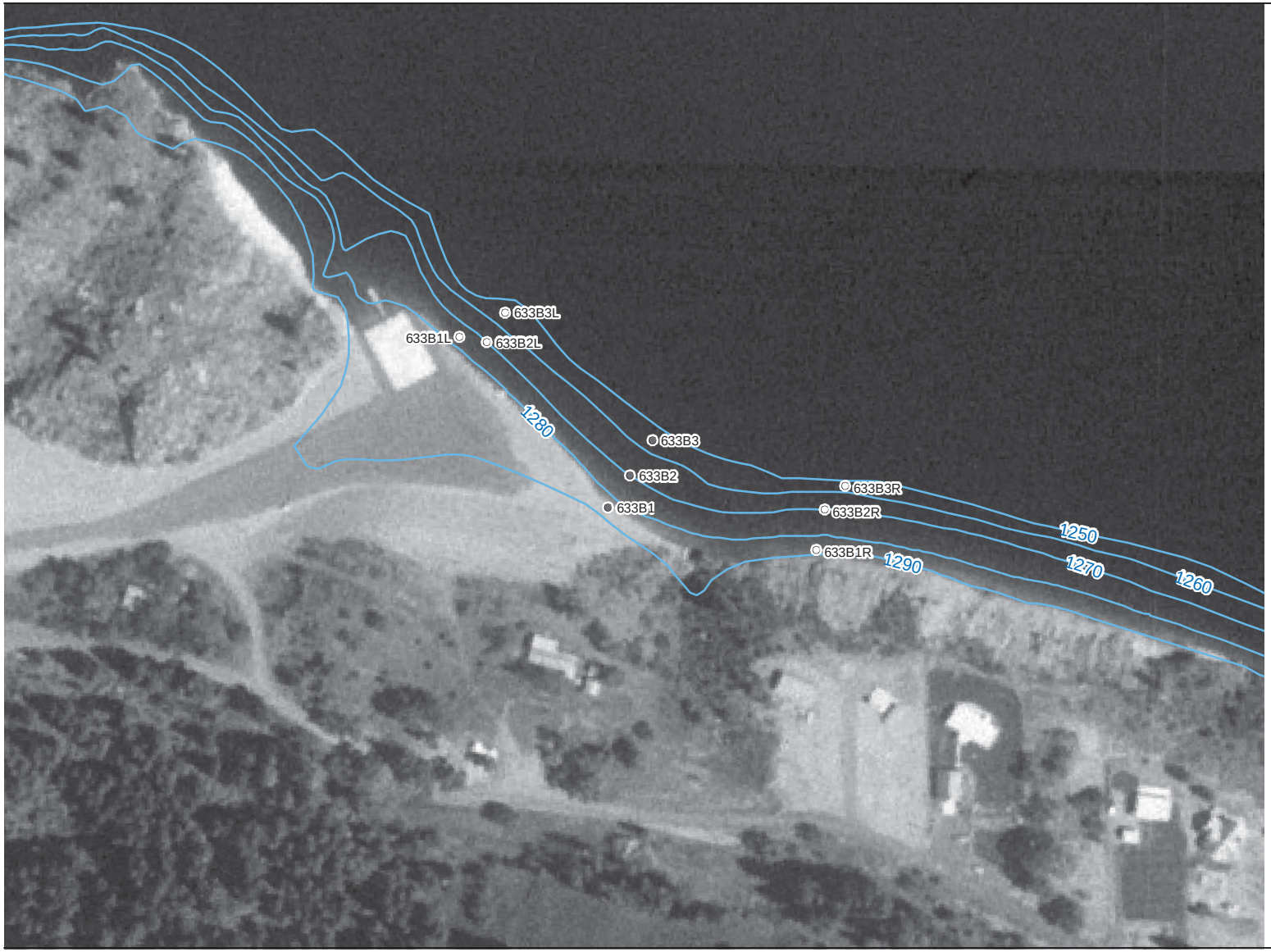
Columbia Campground

2005 Beach Sample Locations

Upper Columbia River RI/FS

CH2MHILL

file path: Esc-server1\gis\Projects\UCR\GIS\SRC\HHRA Work Plan Draft2 Rev



2005 Beach Sediment Sample Locations

LEGEND

2005 Beach Sampling

- Beach Subsample Composites
- Beach Subsamples

1974 USBR Bathymetry

- 10-foot Bottom Elevation Contours

Source: USEPA. 2006. Phase I Sediment Sampling Data Evaluation Upper Columbia River Site CERCLA RI/FS, Draft Final. Prepared by CH2M HILL and Ecology & Environment. August 25, 2006. U.S. Environmental Protection Agency, Region 10. Seattle, WA.

N

0 100 200

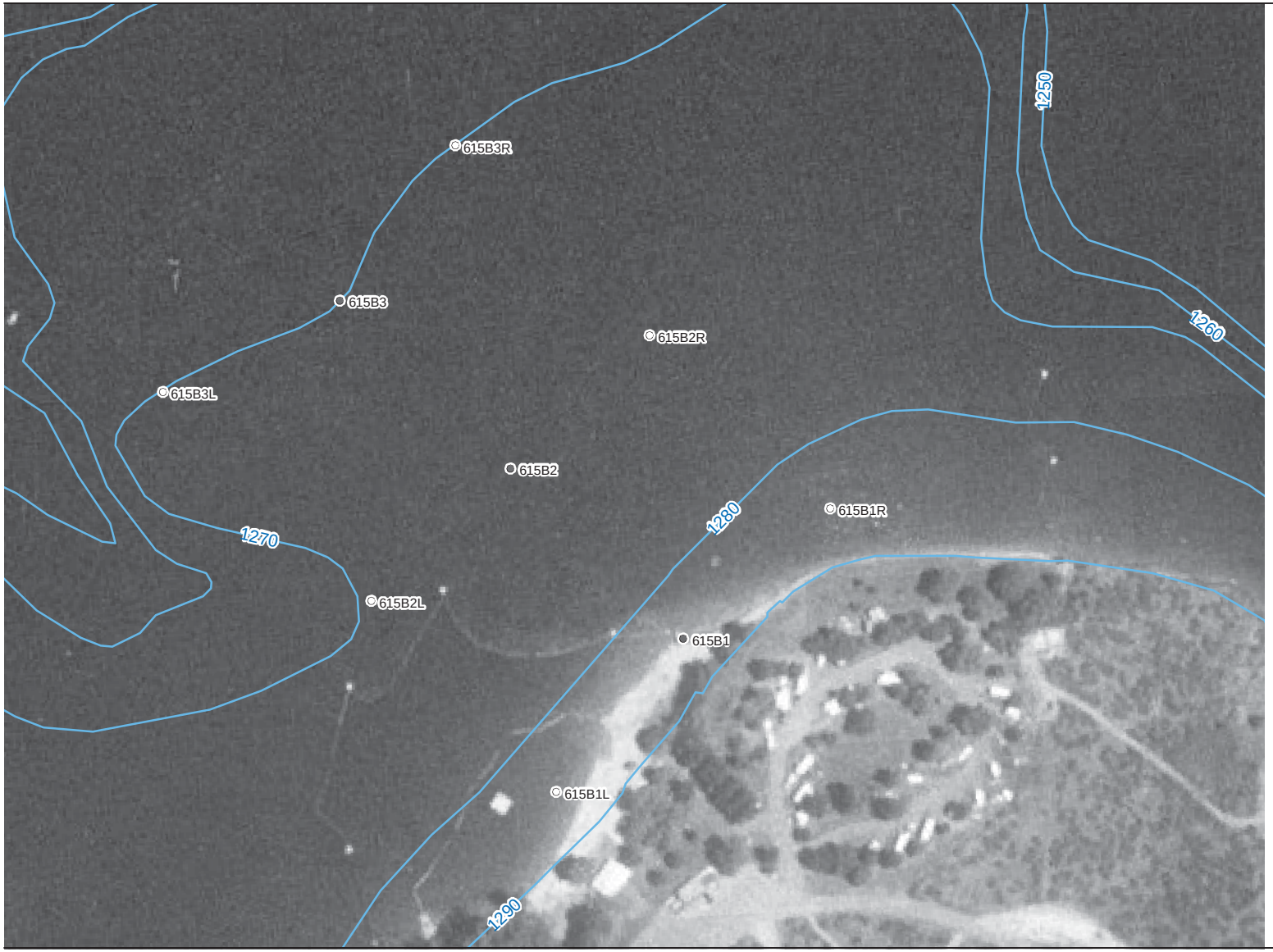
Approximate scale in feet

APPENDIX H.23

Lincoln Mill Boat Ramp
2005 Beach Sample Locations
Upper Columbia River RI/FS

CH2MHILL

file path: Esc-server1\gis\Projects\UCR\GIS\SRC\HHRA Work Plan Draft2 Rev



2005 Beach Sediment Sample Locations

LEGEND

2005 Beach Sampling

- Beach Subsample Composites
- Beach Subsamples

1974 USBR Bathymetry

- 10-foot Bottom Elevation Contours

Source: USEPA. 2006. Phase I Sediment Sampling Data Evaluation Upper Columbia River Site CERCLA RI/FS, Draft Final. Prepared by CH2M HILL and Ecology & Environment. August 25, 2006. U.S. Environmental Protection Agency, Region 10. Seattle, WA.

N

0 100 200

Approximate scale in feet

APPENDIX H.24

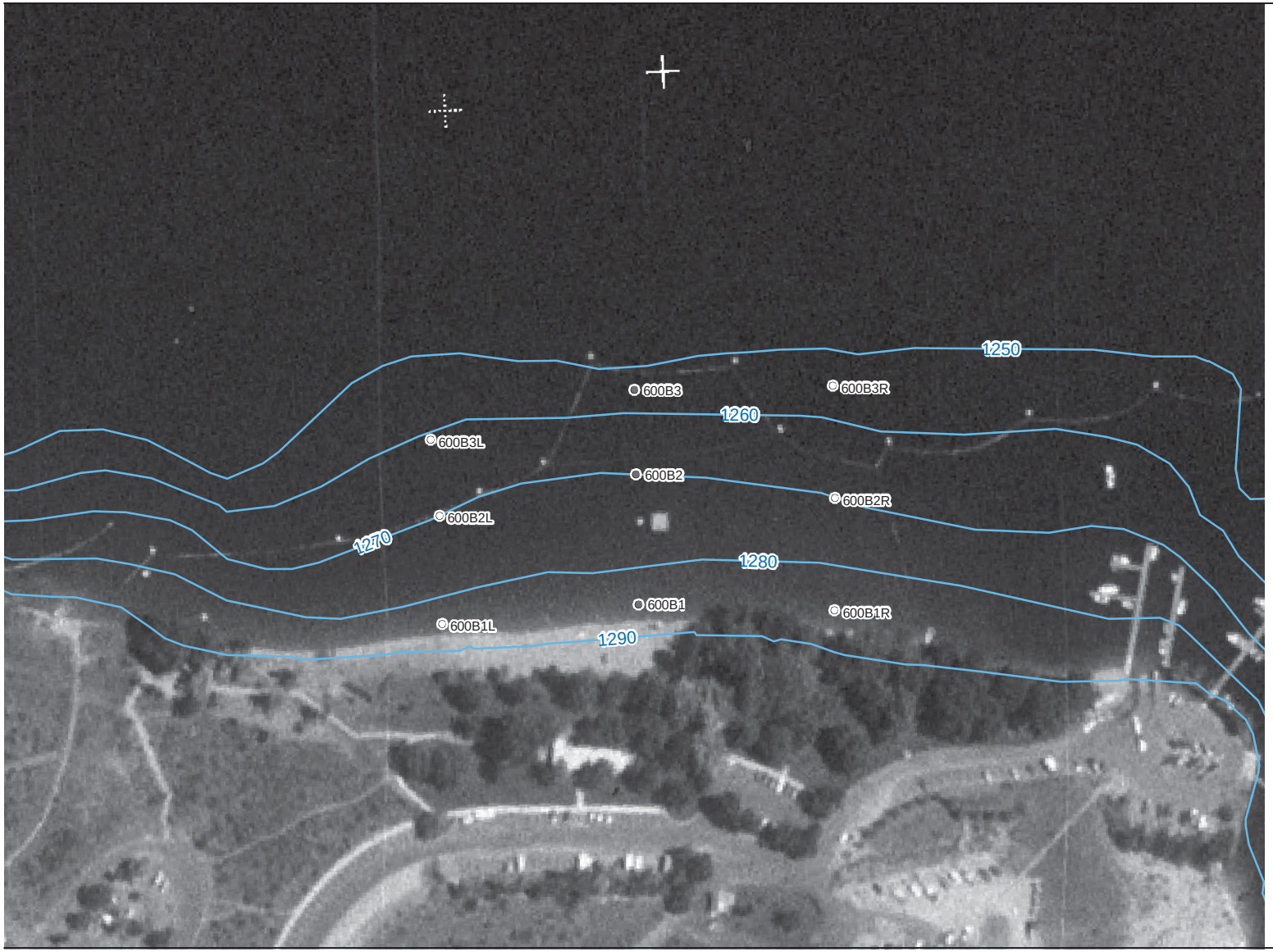
Kellers Ferry

2005 Beach Sample Locations

Upper Columbia River RI/FS

CH2MHILL

file path: Esc-server1\gis\Projects\UCR\GIS\SRC\HHRA Work Plan Draft2 Rev



2005 Beach Sediment Sample Locations

LEGEND

2005 Beach Sampling

- Beach Subsample Composites
- Beach Subsamples

1974 USBR Bathymetry

- 10-foot Bottom Elevation Contours

Source: USEPA. 2006. Phase I Sediment Sampling Data Evaluation Upper Columbia River Site CERCLA RI/FS, Draft Final. Prepared by CH2M HILL and Ecology & Environment. August 25, 2006. U.S. Environmental Protection Agency, Region 10. Seattle, WA.

N

0 100 200

Approximate scale in feet

APPENDIX H.25

Spring Canyon Campground
2005 Beach Sample Locations
Upper Columbia River RI/FS

CH2MHILL

file path: Esc-server1\gis\Projects\UCR\GIS\SRC\HHRA Work Plan Draft2 Rev

Appendix I

Elevation-Specific Risk Estimates for Sediment Exposures at Beaches

APPENDIX I. BEACH ELEVATION EVALUTION SUMMARY

Beach	River Mile	Subsist_Modern				Subsist_Traditional			
		Total HQ or Risks > LOPC?				Total HQ or Risks > LOPC?			
		Lower	Middle	Upper	Beach Mean	Lower	Middle	Upper	Beach Mean
Black Sand Beach	742	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Northport Boat Launch	735	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Dalles Orchard	729	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
North Gorge Campground	718	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Marcus Island Campground	708	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Kettle Falls Swim Beach	700	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Haag Cove	697	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
French Rocks Boat Launch	690	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cloverleaf Branch	675	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
AA Campground	673	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Rogers Bar Campground	658	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Columbia Campground	642	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Lincoln Mill Boat Ramp	633	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Keller Ferry No. 2	615	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Spring Canyon Campground	600	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Beach	River Mile	RecVis_Short-term				RecVis_Seasonal				RecVis_Year-Round			
		Total HQ or Risks > LOPC?				Total HQ or Risks > LOPC?				Total HQ or Risks > LOPC?			
		Lower	Middle	Upper	Beach Mean	Lower	Middle	Upper	Beach Mean	Lower	Middle	Upper	Beach Mean
Black Sand Beach	742	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Northport Boat Launch	735	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Dalles Orchard	729	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
North Gorge Campground	718	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Marcus Island Campground	708	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Kettle Falls Swim Beach	700	No	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Haag Cove	697	Yes	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
French Rocks Boat Launch	690	No	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cloverleaf Branch	675	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
AA Campground	673	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Rogers Bar Campground	658	No	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Columbia Campground	642	Yes	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Lincoln Mill Boat Ramp	633	No	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Keller Ferry No. 2	615	No	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Spring Canyon Campground	600	Yes	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Beach	River Mile	Worker_Non-Contact Intensive				Worker_Contact Intensive			
		Total HQ or Risks > LOPC?				Total HQ or Risks > LOPC?			
		Lower	Middle	Upper	Beach Mean	Lower	Middle	Upper	Beach Mean
Black Sand Beach	742	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Northport Boat Launch	735	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Dalles Orchard	729	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
North Gorge Campground	718	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Marcus Island Campground	708	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Kettle Falls Swim Beach	700	No	No	No	No	Yes	Yes	Yes	Yes
Haag Cove	697	Yes	No	No	No	Yes	Yes	No	Yes
French Rocks Boat Launch	690	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cloverleaf Branch	675	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
AA Campground	673	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Rogers Bar Campground	658	No	No	Yes	No	No	Yes	Yes	Yes
Columbia Campground	642	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Lincoln Mill Boat Ramp	633	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Keller Ferry No. 2	615	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Spring Canyon Campground	600	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Seasonal

Exposure Area: AA Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	8.44E-06	9.04E-07
Cancer:	7.23E-07	3.10E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	10,200	12,200	9,080	10,493	1.0E+00	--		8.6E-02	9E-02	9.2E-03	9E-03	7.4E-03		3.2E-03			1.0E-01	1E-01	1.1E-02	1E-02	8.8E-03		3.8E-03		
	Antimony	7440360	1.1	1.5	1.2	1.3	4.0E-04	--		9.3E-06	2E-02	9.9E-07	2E-03	8.0E-07		3.4E-07			1.3E-05	3E-02	1.4E-06	3E-03	1.1E-06		4.6E-07		
	Arsenic	7440382	3.6	5.3	4.1	4.3	2.4E-04	1.9E+00	(j)	3.0E-05	1E-01	3.3E-06	1E-02	2.6E-06	5E-06	1.1E-06	2E-06	7E-06	4.5E-05	2E-01	4.8E-06	2E-02	3.8E-06	7E-06	1.6E-06	3E-06	1E-05
	Barium	7440393	78	117	78	91	2.0E-01	--		6.6E-04	3E-03	7.0E-05	4E-04	5.6E-05		2.4E-05			9.9E-04	5E-03	1.1E-04	5E-04	8.5E-05		3.6E-05		
	Beryllium	7440417	0.68	0.90	0.66	0.75	2.0E-03	--		5.7E-06	3E-03	6.1E-07	3E-04	4.9E-07		2.1E-07			7.6E-06	4E-03	8.1E-07	4E-04	6.5E-07		2.8E-07		
	Cadmium	7440439	1.00	0.74	0.17	0.64	1.0E-03	--	(a)	8.4E-06	8E-03	9.0E-07	9E-04	7.2E-07		3.1E-07			6.2E-06	6E-03	6.7E-07	7E-04	5.4E-07		2.3E-07		
	Calcium	7440702	2,520	4,120	2,990	3,210	--	--		2.1E-02		2.3E-03		1.8E-03		7.8E-04			3.5E-02		3.7E-03		3.0E-03		1.3E-03		
	Chromium	7440473	18.0	24.2	14.8	19.0	1.5E+00	--	(b)	1.5E-04	1E-04	1.6E-05	1E-05	1.3E-05		5.6E-06			2.0E-04	1E-04	2.2E-05	1E-05	1.8E-05		7.5E-06		
	Cobalt	7440484	6.9	10.4	6.4	7.9	3.0E-04	--		5.8E-05	2E-01	6.2E-06	2E-02	5.0E-06		2.1E-06			8.8E-05	3E-01	9.4E-06	3E-02	7.5E-06		3.2E-06		
	Copper	7440508	15	20	12	16	4.0E-02	--		1.2E-04	3E-03	1.3E-05	3E-04	1.1E-05		4.6E-06			1.7E-04	4E-03	1.8E-05	5E-04	1.4E-05		6.2E-06		
	Iron	7439896	16,000	21,100	14,800	17,300	7.0E-01	--		1.4E-01	2E-01	1.4E-02	2E-02	1.2E-02		5.0E-03			1.8E-01	3E-01	1.9E-02	3E-02	1.5E-02		6.5E-03		
	Lead	7439921	34	20	7	20			(c)																		
	Magnesium	7439954	3,700	4,970	3,550	4,073	--	--		3.1E-02		3.3E-03		2.7E-03		1.1E-03			4.2E-02		4.5E-03		3.6E-03		1.5E-03		
	Manganese	7439965	167	383	248	266	4.7E-02	--	(d)	1.4E-03	3E-02	1.5E-04	3E-03	1.2E-04		5.2E-05			3.2E-03	7E-02	3.5E-04	7E-03	2.8E-04		1.2E-04		
	Mercury	7439976	0.053	0.031	0.010	0.031	3.0E-04	--	(i)	4.5E-07	1E-03	4.8E-08	2E-04	3.8E-08		1.6E-08			2.6E-07	9E-04	2.8E-08	9E-05	2.2E-08		9.6E-09		
	Nickel	7440020	15.5	21.1	12.8	16.5	2.0E-02	--		1.3E-04	7E-03	1.4E-05	7E-04	1.1E-05		4.8E-06			1.8E-04	9E-03	1.9E-05	1E-03	1.5E-05		6.5E-06		
	Potassium	7440097	1,220	2,020	1,160	1,467	--	--		1.0E-02		1.1E-03		8.8E-04		3.8E-04			1.7E-02		1.8E-03		1.5E-03		6.3E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.60	0.60	0.55	0.58	5.0E-03	--		5.1E-06	1E-03	5.4E-07	1E-04	4.3E-07		1.9E-07			5.1E-06	1E-03	5.4E-07	1E-04	4.3E-07		1.9E-07		
	Sodium	7440235	115	173	129	139	--	--		9.7E-04		1.0E-04		8.3E-05		3.6E-05			1.5E-03		1.6E-04		1.3E-04		5.4E-05		
	Thallium	7440280	1.50	1.55	1.45	1.50	6.5E-05	--		1.3E-05	2E-01	1.4E-06	2E-02	1.1E-06		4.6E-07			1.3E-05	2E-01	1.4E-06	2E-02	1.1E-06		4.8E-07		
	Uranium	7440611	12.0	12.3	11.4	11.9	6.0E-04	--	(e)	1.0E-04	2E-01	1.1E-05	2E-02	8.6E-06		3.7E-06			1.0E-04	2E-01	1.1E-05	2E-02	8.9E-06		3.8E-06		
	Vanadium	7440622	27.2	32.6	26.3	28.7	7.0E-03	--		2.3E-04	3E-02	2.5E-05	4E-03	2.0E-05		8.4E-06			2.8E-04	4E-02	2.9E-05	4E-03	2.4E-05		1.0E-05		
	Zinc	7440666	158	118	49	108	3.0E-01	--		1.3E-03	4E-03	1.4E-04	5E-04	1.1E-04		4.9E-05			1.0E-03	3E-03	1.1E-04	4E-04	8.5E-05		3.7E-05		
									Total		**1E+00**		**1E-01**		**5E-06**		**2E-06**	**7E-06**		**1E+00**		**1E-01**		**7E-06**		**3E-06**	**1E-05**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**			

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Seasonal

Exposure Area: AA Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	8.44E-06	9.04E-07
Cancer:	7.23E-07	3.10E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	10,200	12,200	9,080	10,493	1.0E+00	--		7.7E-02	8E-02	8.2E-03	8E-03	6.6E-03		2.8E-03			8.9E-02	9E-02	9.5E-03	9E-03	7.6E-03		3.3E-03		
	Antimony	7440360	1.1	1.5	1.2	1.3	4.0E-04	--		1.0E-05	3E-02	1.1E-06	3E-03	8.7E-07		3.7E-07			1.1E-05	3E-02	1.1E-06	3E-03	9.2E-07		3.9E-07		
	Arsenic	7440382	3.6	5.3	4.1	4.3	2.4E-04	1.9E+00	(j)	3.5E-05	1E-01	3.7E-06	2E-02	3.0E-06	6E-06	1.3E-06	2E-06	8E-06	3.7E-05	2E-01	3.9E-06	2E-02	3.1E-06	6E-06	1.3E-06	3E-06	8E-06
	Barium	7440393	78	117	78	91	2.0E-01	--		6.6E-04	3E-03	7.0E-05	4E-04	5.6E-05		2.4E-05			7.7E-04	4E-03	8.2E-05	4E-04	6.6E-05		2.8E-05		
	Beryllium	7440417	0.68	0.90	0.66	0.75	2.0E-03	--		5.6E-06	3E-03	6.0E-07	3E-04	4.8E-07		2.0E-07			6.3E-06	3E-03	6.8E-07	3E-04	5.4E-07		2.3E-07		
	Cadmium	7440439	1.00	0.74	0.17	0.64	1.0E-03	--	(a)	1.4E-06	1E-03	1.5E-07	2E-04	1.2E-07		5.3E-08			5.4E-06	5E-03	5.8E-07	6E-04	4.6E-07		2.0E-07		
	Calcium	7440702	2,520	4,120	2,990	3,210	--	--		2.5E-02		2.7E-03		2.2E-03		9.3E-04			2.7E-02		2.9E-03		2.3E-03		1.0E-03		
	Chromium	7440473	18.0	24.2	14.8	19.0	1.5E+00	--	(b)	1.2E-04	8E-05	1.3E-05	9E-06	1.1E-05		4.6E-06			1.6E-04	1E-04	1.7E-05	1E-05	1.4E-05		5.9E-06		
	Cobalt	7440484	6.9	10.4	6.4	7.9	3.0E-04	--		5.4E-05	2E-01	5.8E-06	2E-02	4.6E-06		2.0E-06			6.7E-05	2E-01	7.1E-06	2E-02	5.7E-06		2.4E-06		
	Copper	7440508	15	20	12	16	4.0E-02	--		1.0E-04	3E-03	1.1E-05	3E-04	8.8E-06		3.8E-06			1.3E-04	3E-03	1.4E-05	4E-04	1.1E-05		4.8E-06		
	Iron	7439896	16,000	21,100	14,800	17,300	7.0E-01	--		1.2E-01	2E-01	1.3E-02	2E-02	1.1E-02		4.6E-03			1.5E-01	2E-01	1.6E-02	2E-02	1.3E-02		5.4E-03		
	Lead	7439921	34	20	7	20			(c)																		
	Magnesium	7439954	3,700	4,970	3,550	4,073	--	--		3.0E-02		3.2E-03		2.6E-03		1.1E-03			3.4E-02		3.7E-03		2.9E-03		1.3E-03		
	Manganese	7439965	167	383	248	266	4.7E-02	--	(d)	2.1E-03	4E-02	2.2E-04	5E-03	1.8E-04		7.7E-05			2.2E-03	5E-02	2.4E-04	5E-03	1.9E-04		8.2E-05		
	Mercury	7439976	0.053	0.031	0.010	0.031	3.0E-04	--	(i)	8.4E-08	3E-04	9.0E-09	3E-05	7.2E-09		3.1E-09			2.6E-07	9E-04	2.8E-08	9E-05	2.3E-08		9.7E-09		
	Nickel	7440020	15.5	21.1	12.8	16.5	2.0E-02	--		1.1E-04	5E-03	1.2E-05	6E-04	9.3E-06		4.0E-06			1.4E-04	7E-03	1.5E-05	7E-04	1.2E-05		5.1E-06		
	Potassium	7440097	1,220	2,020	1,160	1,467	--	--		9.8E-03		1.0E-03		8.4E-04		3.6E-04			1.2E-02		1.3E-03		1.1E-03		4.5E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.60	0.60	0.55	0.58	5.0E-03	--		4.6E-06	9E-04	5.0E-07	1E-04	4.0E-07		1.7E-07			4.9E-06	1E-03	5.3E-07	1E-04	4.2E-07		1.8E-07		
	Sodium	7440235	115	173	129	139	--	--		1.1E-03		1.2E-04		9.3E-05		4.0E-05			1.2E-03		1.3E-04		1.0E-04		4.3E-05		
	Thallium	7440280	1.50	1.55	1.45	1.50	6.5E-05	--		1.2E-05	2E-01	1.3E-06	2E-02	1.0E-06		4.5E-07			1.3E-05	2E-01	1.4E-06	2E-02	1.1E-06		4.6E-07		
	Uranium	7440611	12.0	12.3	11.4	11.9	6.0E-04	--	(e)	9.6E-05	2E-01	1.0E-05	2E-02	8.2E-06		3.5E-06			1.0E-04	2E-01	1.1E-05	2E-02	8.6E-06		3.7E-06		
	Vanadium	7440622	27.2	32.6	26.3	28.7	7.0E-03	--		2.2E-04	3E-02	2.4E-05	3E-03	1.9E-05		8.2E-06			2.4E-04	3E-02	2.6E-05	4E-03	2.1E-05		8.9E-06		
	Zinc	7440666	158	118	49	108	3.0E-01	--		1.0E-03	3E-03	1.1E-04	4E-04	8.5E-05		3.7E-05			9.1E-04	3E-03	9.8E-05	3E-04	7.8E-05		3.4E-05		
								Total			**1E+00**		**1E-01**		**6E-06**		**2E-06**	**8E-06**		**1E+00**		**1E-01**		**6E-06**		**3E-06**	**8E-06**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:

(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Seasonal

Exposure Area: Black Sand Beach

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	8.44E-06	9.04E-07
Cancer:	7.23E-07	3.10E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	19,000	18,600	18,600	18,733	1.0E+00	--		1.6E-01	2E-01	1.7E-02	2E-02	1.4E-02		5.9E-03			1.6E-01	2E-01	1.7E-02	2E-02	1.3E-02		5.8E-03		
	Antimony	7440360	18.6	52.3	47.7	39.5	4.0E-04	--		1.6E-04	4E-01	1.7E-05	4E-02	1.3E-05		5.8E-06			4.4E-04	1E+00	4.7E-05	1E-01	3.8E-05		1.6E-05		
	Arsenic	7440382	16.1	25.2	27.3	22.9	2.4E-04	1.9E+00	(j)	1.4E-04	6E-01	1.5E-05	6E-02	1.2E-05	2E-05	5.0E-06	9E-06	3E-05	2.1E-04	9E-01	2.3E-05	9E-02	1.8E-05	3E-05	7.8E-06	1E-05	5E-05
	Barium	7440393	1,280	1,680	1,750	1,570	2.0E-01	--		1.1E-02	5E-02	1.2E-03	6E-03	9.3E-04		4.0E-04			1.4E-02	7E-02	1.5E-03	8E-03	1.2E-03		5.2E-04		
	Beryllium	7440417	1.20	1.30	1.30	1.27	2.0E-03	--		1.0E-05	5E-03	1.1E-06	5E-04	8.7E-07		3.7E-07			1.1E-05	5E-03	1.2E-06	6E-04	9.4E-07		4.0E-07		
	Cadmium	7440439	1.00	1.20	1.40	1.20	1.0E-03	--	(a)	8.4E-06	8E-03	9.0E-07	9E-04	7.2E-07		3.1E-07			1.0E-05	1E-02	1.1E-06	1E-03	8.7E-07		3.7E-07		
	Calcium	7440702	58,700	63,300	66,900	62,967	--	--		5.0E-01		5.3E-02		4.2E-02		1.8E-02			5.3E-01		5.7E-02		4.6E-02		2.0E-02		
	Chromium	7440473	101.0	123.0	128.0	117.3	1.5E+00	--	(b)	8.5E-04	6E-04	9.1E-05	6E-05	7.3E-05		3.1E-05			1.0E-03	7E-04	1.1E-04	7E-05	8.9E-05		3.8E-05		
	Cobalt	7440484	29.5	48.6	51.0	43.0	3.0E-04	--		2.5E-04	8E-01	2.7E-05	9E-02	2.1E-05		9.1E-06			4.1E-04	1E+00	4.4E-05	1E-01	3.5E-05		1.5E-05		
	Copper	7440508	1,620	2,240	2,350	2,070	4.0E-02	--		1.4E-02	3E-01	1.5E-03	4E-02	1.2E-03		5.0E-04			1.9E-02	5E-01	2.0E-03	5E-02	1.6E-03		6.9E-04		
	Iron	7439896	197,000	187,000	211,000	198,333	7.0E-01	--		1.7E+00	2E+00	1.8E-01	3E-01	1.4E-01		6.1E-02			1.6E+00	2E+00	1.7E-01	2E-01	1.4E-01		5.8E-02		
	Lead	7439921	276	231	266	258			(c)																		
	Magnesium	7439954	6,670	7,070	8,290	7,343	--	--		5.6E-02		6.0E-03		4.8E-03		2.1E-03			6.0E-02		6.4E-03		5.1E-03		2.2E-03		
	Manganese	7439965	3,080	3,680	3,680	3,480	4.7E-02	--	(d)	2.6E-02	6E-01	2.8E-03	6E-02	2.2E-03		9.5E-04			3.1E-02	7E-01	3.3E-03	7E-02	2.7E-03		1.1E-03		
	Mercury	7439976	0.028	0.030	0.650	0.236	3.0E-04	--	(i)	2.4E-07	8E-04	2.5E-08	8E-05	2.0E-08		8.7E-09			2.5E-07	8E-04	2.7E-08	9E-05	2.2E-08		9.3E-09		
	Nickel	7440020	9.3	12.1	12.4	11.3	2.0E-02	--		7.8E-05	4E-03	8.4E-06	4E-04	6.7E-06		2.9E-06			1.0E-04	5E-03	1.1E-05	5E-04	8.8E-06		3.8E-06		
	Potassium	7440097	3,500	3,610	3,750	3,620	--	--		3.0E-02		3.2E-03		2.5E-03		1.1E-03			3.0E-02		3.3E-03		2.6E-03		1.1E-03		
	Selenium	7782492	#N/A	#N/A	1.70	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.55	0.47	0.49	0.50	5.0E-03	--		4.6E-06	9E-04	5.0E-07	1E-04	4.0E-07		1.7E-07			3.9E-06	8E-04	4.2E-07	8E-05	3.4E-07		1.4E-07		
	Sodium	7440235	1,300	1,770	1,840	1,637	--	--		1.1E-02		1.2E-03		9.4E-04		4.0E-04			1.5E-02		1.6E-03		1.3E-03		5.5E-04		
	Thallium	7440280	1.35	1.15	1.20	1.23	6.5E-05	--		1.1E-05	2E-01	1.2E-06	2E-02	9.8E-07		4.2E-07			9.7E-06	1E-01	1.0E-06	2E-02	8.3E-07		3.6E-07		
	Uranium	7440611	64.8	84.3	81.6	76.9	6.0E-04	--	(e)	5.5E-04	9E-01	5.9E-05	1E-01	4.7E-05		2.0E-05			7.1E-04	1E+00	7.6E-05	1E-01	6.1E-05		2.6E-05		
	Vanadium	7440622	36.6	38.3	39.8	38.2	7.0E-03	--		3.1E-04	4E-02	3.3E-05	5E-03	2.6E-05		1.1E-05			3.2E-04	5E-02	3.5E-05	5E-03	2.8E-05		1.2E-05		
	Zinc	7440666	14,900	15,200	16,900	15,667	3.0E-01	--		1.3E-01	4E-01	1.3E-02	4E-02	1.1E-02		4.6E-03			1.3E-01	4E-01	1.4E-02	5E-02	1.1E-02		4.7E-03		
								Total			**7E+00**		**7E-01**		**2E-05**		**9E-06**	**3E-05**		**9E+00**		**9E-01**		**3E-05**		**1E-05**	**5E-05**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Seasonal

Exposure Area: Black Sand Beach

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	8.44E-06	9.04E-07
Cancer:	7.23E-07	3.10E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	19,000	18,600	18,600	18,733	1.0E+00	--		1.6E-01	2E-01	1.7E-02	2E-02	1.3E-02		5.8E-03			1.6E-01	2E-01	1.7E-02	2E-02	1.4E-02		5.8E-03		
	Antimony	7440360	18.6	52.3	47.7	39.5	4.0E-04	--		4.0E-04	1E+00	4.3E-05	1E-01	3.5E-05		1.5E-05			3.3E-04	8E-01	3.6E-05	9E-02	2.9E-05		1.2E-05		
	Arsenic	7440382	16.1	25.2	27.3	22.9	2.4E-04	1.9E+00	(j)	2.3E-04	1E+00	2.5E-05	1E-01	2.0E-05	4E-05	8.5E-06	2E-05	5E-05	1.9E-04	8E-01	2.1E-05	9E-02	1.7E-05	3E-05	7.1E-06	1E-05	4E-05
	Barium	7440393	1,280	1,680	1,750	1,570	2.0E-01	--		1.5E-02	7E-02	1.6E-03	8E-03	1.3E-03		5.4E-04			1.3E-02	7E-02	1.4E-03	7E-03	1.1E-03		4.9E-04		
	Beryllium	7440417	1.20	1.30	1.30	1.27	2.0E-03	--		1.1E-05	5E-03	1.2E-06	6E-04	9.4E-07		4.0E-07			1.1E-05	5E-03	1.1E-06	6E-04	9.2E-07		3.9E-07		
	Cadmium	7440439	1.00	1.20	1.40	1.20	1.0E-03	--	(a)	1.2E-05	1E-02	1.3E-06	1E-03	1.0E-06		4.3E-07			1.0E-05	1E-02	1.1E-06	1E-03	8.7E-07		3.7E-07		
	Calcium	7440702	58,700	63,300	66,900	62,967	--	--		5.6E-01		6.0E-02		4.8E-02		2.1E-02			5.3E-01		5.7E-02		4.6E-02		2.0E-02		
	Chromium	7440473	101.0	123.0	128.0	117.3	1.5E+00	--	(b)	1.1E-03	7E-04	1.2E-04	8E-05	9.3E-05		4.0E-05			9.9E-04	7E-04	1.1E-04	7E-05	8.5E-05		3.6E-05		
	Cobalt	7440484	29.5	48.6	51.0	43.0	3.0E-04	--		4.3E-04	1E+00	4.6E-05	2E-01	3.7E-05		1.6E-05			3.6E-04	1E+00	3.9E-05	1E-01	3.1E-05		1.3E-05		
	Copper	7440508	1,620	2,240	2,350	2,070	4.0E-02	--		2.0E-02	5E-01	2.1E-03	5E-02	1.7E-03		7.3E-04			1.7E-02	4E-01	1.9E-03	5E-02	1.5E-03		6.4E-04		
	Iron	7439896	197,000	187,000	211,000	198,333	7.0E-01	--		1.8E+00	3E+00	1.9E-01	3E-01	1.5E-01		6.5E-02			1.7E+00	2E+00	1.8E-01	3E-01	1.4E-01		6.1E-02		
	Lead	7439921	276	231	266	258			(c)																		
	Magnesium	7439954	6,670	7,070	8,290	7,343	--	--		7.0E-02		7.5E-03		6.0E-03		2.6E-03			6.2E-02		6.6E-03		5.3E-03		2.3E-03		
	Manganese	7439965	3,080	3,680	3,680	3,480	4.7E-02	--	(d)	3.1E-02	7E-01	3.3E-03	7E-02	2.7E-03		1.1E-03			2.9E-02	6E-01	3.1E-03	7E-02	2.5E-03		1.1E-03		
	Mercury	7439976	0.028	0.030	0.650	0.236	3.0E-04	--	(i)	5.5E-06	2E-02	5.9E-07	2E-03	4.7E-07		2.0E-07			2.0E-06	7E-03	2.1E-07	7E-04	1.7E-07		7.3E-08		
	Nickel	7440020	9.3	12.1	12.4	11.3	2.0E-02	--		1.0E-04	5E-03	1.1E-05	6E-04	9.0E-06		3.8E-06			9.5E-05	5E-03	1.0E-05	5E-04	8.1E-06		3.5E-06		
	Potassium	7440097	3,500	3,610	3,750	3,620	--	--		3.2E-02		3.4E-03		2.7E-03		1.2E-03			3.1E-02		3.3E-03		2.6E-03		1.1E-03		
	Selenium	7782492	#N/A	#N/A	1.70	#N/A	5.0E-03	--		1.4E-05	3E-03	1.5E-06	3E-04	1.2E-06		5.3E-07			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.55	0.47	0.49	0.50	5.0E-03	--		4.1E-06	8E-04	4.4E-07	9E-05	3.5E-07		1.5E-07			4.2E-06	8E-04	4.5E-07	9E-05	3.6E-07		1.5E-07		
	Sodium	7440235	1,300	1,770	1,840	1,637	--	--		1.6E-02		1.7E-03		1.3E-03		5.7E-04			1.4E-02		1.5E-03		1.2E-03		5.1E-04		
	Thallium	7440280	1.35	1.15	1.20	1.23	6.5E-05	--		1.0E-05	2E-01	1.1E-06	2E-02	8.7E-07		3.7E-07			1.0E-05	2E-01	1.1E-06	2E-02	8.9E-07		3.8E-07		
	Uranium	7440611	64.8	84.3	81.6	76.9	6.0E-04	--	(e)	6.9E-04	1E+00	7.4E-05	1E-01	5.9E-05		2.5E-05			6.5E-04	1E+00	7.0E-05	1E-01	5.6E-05		2.4E-05		
	Vanadium	7440622	36.6	38.3	39.8	38.2	7.0E-03	--		3.4E-04	5E-02	3.6E-05	5E-03	2.9E-05		1.2E-05			3.2E-04	5E-02	3.5E-05	5E-03	2.8E-05		1.2E-05		
	Zinc	7440666	14,900	15,200	16,900	15,667	3.0E-01	--		1.3E-01	4E-01	1.4E-02	5E-02	1.1E-02		4.7E-03			1.3E-01	4E-01	1.4E-02	5E-02	1.1E-02		4.9E-03		
								Total			**9E+00**		**1E+00**		**4E-05**		**2E-05**	**5E-05**		**8E+00**		**9E-01**		**3E-05**		**1E-05**	**4E-05**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Seasonal

Exposure Area: Cloverleaf Branch

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	8.44E-06	9.04E-07
Cancer:	7.23E-07	3.10E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	12,300	7,520	7,780	9,200	1.0E+00	--		1.0E-01	1E-01	1.1E-02	1E-02	8.9E-03		3.8E-03			6.3E-02	6E-02	6.8E-03	7E-03	5.4E-03		2.3E-03		
	Antimony	7440360	1.6	1.1	1.0	1.2	4.0E-04	--		1.4E-05	3E-02	1.4E-06	4E-03	1.2E-06		5.0E-07			9.3E-06	2E-02	9.9E-07	2E-03	8.0E-07		3.4E-07		
	Arsenic	7440382	7.0	3.6	2.3	4.3	2.4E-04	1.9E+00	(j)	5.9E-05	2E-01	6.3E-06	3E-02	5.1E-06	9E-06	2.2E-06	4E-06	1E-05	3.0E-05	1E-01	3.3E-06	1E-02	2.6E-06	5E-06	1.1E-06	2E-06	7E-06
	Barium	7440393	152	80	66	99	2.0E-01	--		1.3E-03	6E-03	1.4E-04	7E-04	1.1E-04		4.7E-05			6.8E-04	3E-03	7.3E-05	4E-04	5.8E-05		2.5E-05		
	Beryllium	7440417	0.93	0.59	0.63	0.72	2.0E-03	--		7.8E-06	4E-03	8.4E-07	4E-04	6.7E-07		2.9E-07			5.0E-06	2E-03	5.3E-07	3E-04	4.3E-07		1.8E-07		
	Cadmium	7440439	2.40	0.63	3.10	2.04	1.0E-03	--	(a)	2.0E-05	2E-02	2.2E-06	2E-03	1.7E-06		7.4E-07			5.3E-06	5E-03	5.7E-07	6E-04	4.6E-07		2.0E-07		
	Calcium	7440702	5,200	6,050	3,100	4,783	--	--		4.4E-02		4.7E-03		3.8E-03		1.6E-03			5.1E-02		5.5E-03		4.4E-03		1.9E-03		
	Chromium	7440473	28.0	17.7	19.5	21.7	1.5E+00	--	(b)	2.4E-04	2E-04	2.5E-05	2E-05	2.0E-05		8.7E-06			1.5E-04	1E-04	1.6E-05	1E-05	1.3E-05		5.5E-06		
	Cobalt	7440484	10.0	6.7	5.6	7.4	3.0E-04	--		8.4E-05	3E-01	9.0E-06	3E-02	7.2E-06		3.1E-06			5.7E-05	2E-01	6.1E-06	2E-02	4.8E-06		2.1E-06		
	Copper	7440508	29	16	15	20	4.0E-02	--		2.4E-04	6E-03	2.6E-05	6E-04	2.1E-05		8.9E-06			1.4E-04	3E-03	1.5E-05	4E-04	1.2E-05		5.0E-06		
	Iron	7439896	22,600	15,200	13,300	17,033	7.0E-01	--		1.9E-01	3E-01	2.0E-02	3E-02	1.6E-02		7.0E-03			1.3E-01	2E-01	1.4E-02	2E-02	1.1E-02		4.7E-03		
	Lead	7439921	102	16	51	56			(c)																		
	Magnesium	7439954	6,530	4,520	4,040	5,030	--	--		5.5E-02		5.9E-03		4.7E-03		2.0E-03			3.8E-02		4.1E-03		3.3E-03		1.4E-03		
	Manganese	7439965	526	194	145	288	4.7E-02	--	(d)	4.4E-03	1E-01	4.8E-04	1E-02	3.8E-04		1.6E-04			1.6E-03	4E-02	1.8E-04	4E-03	1.4E-04		6.0E-05		
	Mercury	7439976	0.210	0.030	0.062	0.101	3.0E-04	--	(i)	1.8E-06	6E-03	1.9E-07	6E-04	1.5E-07		6.5E-08			2.5E-07	8E-04	2.7E-08	9E-05	2.2E-08		9.3E-09		
	Nickel	7440020	23.8	15.9	14.0	17.9	2.0E-02	--		2.0E-04	1E-02	2.2E-05	1E-03	1.7E-05		7.4E-06			1.3E-04	7E-03	1.4E-05	7E-04	1.2E-05		4.9E-06		
	Potassium	7440097	2,190	1,210	1,200	1,533	--	--		1.8E-02		2.0E-03		1.6E-03		6.8E-04			1.0E-02		1.1E-03		8.8E-04		3.8E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.60	0.55	0.60	0.58	5.0E-03	--		5.1E-06	1E-03	5.4E-07	1E-04	4.3E-07		1.9E-07			4.6E-06	9E-04	5.0E-07	1E-04	4.0E-07		1.7E-07		
	Sodium	7440235	245	147	94	162	--	--		2.1E-03		2.2E-04		1.8E-04		7.6E-05			1.2E-03		1.3E-04		1.1E-04		4.6E-05		
	Thallium	7440280	1.55	1.35	1.55	1.48	6.5E-05	--		1.3E-05	2E-01	1.4E-06	2E-02	1.1E-06		4.8E-07			1.1E-05	2E-01	1.2E-06	2E-02	9.8E-07		4.2E-07		
	Uranium	7440611	12.3	10.7	12.2	11.7	6.0E-04	--	(e)	1.0E-04	2E-01	1.1E-05	2E-02	8.9E-06		3.8E-06			9.0E-05	2E-01	9.7E-06	2E-02	7.7E-06		3.3E-06		
	Vanadium	7440622	35.6	26.6	21.9	28.0	7.0E-03	--		3.0E-04	4E-02	3.2E-05	5E-03	2.6E-05		1.1E-05			2.2E-04	3E-02	2.4E-05	3E-03	1.9E-05		8.2E-06		
	Zinc	7440666	295	90	220	202	3.0E-01	--		2.5E-03	8E-03	2.7E-04	9E-04	2.1E-04		9.1E-05			7.6E-04	3E-03	8.2E-05	3E-04	6.5E-05		2.8E-05		
									Total		**2E+00**		**2E-01**		**9E-06**		**4E-06**	**1E-05**		**1E+00**		**1E-01**		**5E-06**		**2E-06**	**7E-06**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Seasonal

Exposure Area: Cloverleaf Branch

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	8.44E-06	9.04E-07
Cancer:	7.23E-07	3.10E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	12,300	7,520	7,780	9,200	1.0E+00	--		6.6E-02	7E-02	7.0E-03	7E-03	5.6E-03		2.4E-03			7.8E-02	8E-02	8.3E-03	8E-03	6.7E-03		2.9E-03		
	Antimony	7440360	1.6	1.1	1.0	1.2	4.0E-04	--		8.4E-06	2E-02	9.0E-07	2E-03	7.2E-07		3.1E-07			1.0E-05	3E-02	1.1E-06	3E-03	8.9E-07		3.8E-07		
	Arsenic	7440382	7.0	3.6	2.3	4.3	2.4E-04	1.9E+00	(j)	1.9E-05	8E-02	2.1E-06	9E-03	1.7E-06	3E-06	7.1E-07	1E-06	4E-06	3.6E-05	2E-01	3.9E-06	2E-02	3.1E-06	6E-06	1.3E-06	2E-06	8E-06
	Barium	7440393	152	80	66	99	2.0E-01	--		5.5E-04	3E-03	5.9E-05	3E-04	4.7E-05		2.0E-05			8.4E-04	4E-03	9.0E-05	4E-04	7.2E-05		3.1E-05		
	Beryllium	7440417	0.93	0.59	0.63	0.72	2.0E-03	--		5.3E-06	3E-03	5.7E-07	3E-04	4.6E-07		2.0E-07			6.0E-06	3E-03	6.5E-07	3E-04	5.2E-07		2.2E-07		
	Cadmium	7440439	2.40	0.63	3.10	2.04	1.0E-03	--	(a)	2.6E-05	3E-02	2.8E-06	3E-03	2.2E-06		9.6E-07			1.7E-05	2E-02	1.8E-06	2E-03	1.5E-06		6.3E-07		
	Calcium	7440702	5,200	6,050	3,100	4,783	--	--		2.6E-02		2.8E-03		2.2E-03		9.6E-04			4.0E-02		4.3E-03		3.5E-03		1.5E-03		
	Chromium	7440473	28.0	17.7	19.5	21.7	1.5E+00	--	(b)	1.6E-04	1E-04	1.8E-05	1E-05	1.4E-05		6.0E-06			1.8E-04	1E-04	2.0E-05	1E-05	1.6E-05		6.7E-06		
	Cobalt	7440484	10.0	6.7	5.6	7.4	3.0E-04	--		4.7E-05	2E-01	5.1E-06	2E-02	4.1E-06		1.7E-06			6.3E-05	2E-01	6.7E-06	2E-02	5.4E-06		2.3E-06		
	Copper	7440508	29	16	15	20	4.0E-02	--		1.2E-04	3E-03	1.3E-05	3E-04	1.1E-05		4.6E-06			1.7E-04	4E-03	1.8E-05	4E-04	1.4E-05		6.2E-06		
	Iron	7439896	22,600	15,200	13,300	17,033	7.0E-01	--		1.1E-01	2E-01	1.2E-02	2E-02	9.6E-03		4.1E-03			1.4E-01	2E-01	1.5E-02	2E-02	1.2E-02		5.3E-03		
	Lead	7439921	102	16	51	56			(c)																		
	Magnesium	7439954	6,530	4,520	4,040	5,030	--	--		3.4E-02		3.7E-03		2.9E-03		1.3E-03			4.2E-02		4.5E-03		3.6E-03		1.6E-03		
	Manganese	7439965	526	194	145	288	4.7E-02	--	(d)	1.2E-03	3E-02	1.3E-04	3E-03	1.0E-04		4.5E-05			2.4E-03	5E-02	2.6E-04	6E-03	2.1E-04		8.9E-05		
	Mercury	7439976	0.210	0.030	0.062	0.101	3.0E-04	--	(i)	5.2E-07	2E-03	5.6E-08	2E-04	4.5E-08		1.9E-08			8.5E-07	3E-03	9.1E-08	3E-04	7.3E-08		3.1E-08		
	Nickel	7440020	23.8	15.9	14.0	17.9	2.0E-02	--		1.2E-04	6E-03	1.3E-05	6E-04	1.0E-05		4.3E-06			1.5E-04	8E-03	1.6E-05	8E-04	1.3E-05		5.5E-06		
	Potassium	7440097	2,190	1,210	1,200	1,533	--	--		1.0E-02		1.1E-03		8.7E-04		3.7E-04			1.3E-02		1.4E-03		1.1E-03		4.8E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.60	0.55	0.60	0.58	5.0E-03	--		5.1E-06	1E-03	5.4E-07	1E-04	4.3E-07		1.9E-07			4.9E-06	1E-03	5.3E-07	1E-04	4.2E-07		1.8E-07		
	Sodium	7440235	245	147	94	162	--	--		7.9E-04		8.5E-05		6.8E-05		2.9E-05			1.4E-03		1.5E-04		1.2E-04		5.0E-05		
	Thallium	7440280	1.55	1.35	1.55	1.48	6.5E-05	--		1.3E-05	2E-01	1.4E-06	2E-02	1.1E-06		4.8E-07			1.3E-05	2E-01	1.3E-06	2E-02	1.1E-06		4.6E-07		
	Uranium	7440611	12.3	10.7	12.2	11.7	6.0E-04	--	(e)	1.0E-04	2E-01	1.1E-05	2E-02	8.8E-06		3.8E-06			9.9E-05	2E-01	1.1E-05	2E-02	8.5E-06		3.6E-06		
	Vanadium	7440622	35.6	26.6	21.9	28.0	7.0E-03	--		1.8E-04	3E-02	2.0E-05	3E-03	1.6E-05		6.8E-06			2.4E-04	3E-02	2.5E-05	4E-03	2.0E-05		8.7E-06		
	Zinc	7440666	295	90	220	202	3.0E-01	--		7.6E-04	3E-03	8.2E-05	3E-04	6.5E-05		2.8E-05			1.7E-03	6E-03	1.8E-04	6E-04	1.5E-04		6.3E-05		
								Total			**1E+00**		**1E-01**		**3E-06**		**1E-06**	**4E-06**		**1E+00**		**1E-01**		**6E-06**		**2E-06**	**8E-06**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Seasonal

Exposure Area: Columbia Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	8.44E-06	9.04E-07
Cancer:	7.23E-07	3.10E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	11,617	10,660	8,947	10,408	1.0E+00	--		9.8E-02	1E-01	1.1E-02	1E-02	8.4E-03		3.6E-03			9.0E-02	9E-02	9.6E-03	1E-02	7.7E-03		3.3E-03		
	Antimony	7440360	1.1	1.0	1.0	1.0	4.0E-04	--		9.5E-06	2E-02	1.0E-06	3E-03	8.1E-07		3.5E-07			8.1E-06	2E-02	8.7E-07	2E-03	6.9E-07		3.0E-07		
	Arsenic	7440382	4.7	5.4	3.8	4.6	2.4E-04	1.9E+00	(j)	4.0E-05	2E-01	4.2E-06	2E-02	3.4E-06	6E-06	1.5E-06	3E-06	9E-06	4.6E-05	2E-01	4.9E-06	2E-02	3.9E-06	7E-06	1.7E-06	3E-06	1E-05
	Barium	7440393	116	100	81	99	2.0E-01	--		9.8E-04	5E-03	1.0E-04	5E-04	8.4E-05		3.6E-05			8.4E-04	4E-03	9.0E-05	5E-04	7.2E-05		3.1E-05		
	Beryllium	7440417	0.86	0.71	0.57	0.71	2.0E-03	--		7.2E-06	4E-03	7.7E-07	4E-04	6.2E-07		2.7E-07			6.0E-06	3E-03	6.4E-07	3E-04	5.1E-07		2.2E-07		
	Cadmium	7440439	1.63	0.45	0.33	0.80	1.0E-03	--	(a)	1.4E-05	1E-02	1.5E-06	1E-03	1.2E-06		5.0E-07			3.8E-06	4E-03	4.0E-07	4E-04	3.2E-07		1.4E-07		
	Calcium	7440702	2,980	2,333	2,017	2,443	--	--		2.5E-02		2.7E-03		2.2E-03		9.2E-04			2.0E-02		2.1E-03		1.7E-03		7.2E-04		
	Chromium	7440473	16.9	14.3	12.1	14.4	1.5E+00	--	(b)	1.4E-04	1E-04	1.5E-05	1E-05	1.2E-05		5.2E-06			1.2E-04	8E-05	1.3E-05	9E-06	1.0E-05		4.4E-06		
	Cobalt	7440484	7.7	6.3	5.4	6.5	3.0E-04	--		6.5E-05	2E-01	6.9E-06	2E-02	5.5E-06		2.4E-06			5.3E-05	2E-01	5.7E-06	2E-02	4.6E-06		2.0E-06		
	Copper	7440508	19	11	9	13	4.0E-02	--		1.6E-04	4E-03	1.7E-05	4E-04	1.4E-05		5.9E-06			9.6E-05	2E-03	1.0E-05	3E-04	8.2E-06		3.5E-06		
	Iron	7439896	16,700	15,933	14,400	15,678	7.0E-01	--		1.4E-01	2E-01	1.5E-02	2E-02	1.2E-02		5.2E-03			1.3E-01	2E-01	1.4E-02	2E-02	1.2E-02		4.9E-03		
	Lead	7439921	58	18	11	29			(c)																		
	Magnesium	7439954	4,107	3,890	3,487	3,828	--	--		3.5E-02		3.7E-03		3.0E-03		1.3E-03			3.3E-02		3.5E-03		2.8E-03		1.2E-03		
	Manganese	7439965	283	190	167	214	4.7E-02	--	(d)	2.4E-03	5E-02	2.6E-04	5E-03	2.0E-04		8.8E-05			1.6E-03	3E-02	1.7E-04	4E-03	1.4E-04		5.9E-05		
	Mercury	7439976	0.136	0.029	0.017	0.061	3.0E-04	--	(i)	1.1E-06	4E-03	1.2E-07	4E-04	9.8E-08		4.2E-08			2.4E-07	8E-04	2.6E-08	9E-05	2.1E-08		8.9E-09		
	Nickel	7440020	14.6	11.8	10.2	12.2	2.0E-02	--		1.2E-04	6E-03	1.3E-05	7E-04	1.1E-05		4.5E-06			9.9E-05	5E-03	1.1E-05	5E-04	8.5E-06		3.6E-06		
	Potassium	7440097	2,210	1,840	1,413	1,821	--	--		1.9E-02		2.0E-03		1.6E-03		6.9E-04			1.6E-02		1.7E-03		1.3E-03		5.7E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.55	0.52	0.53	0.54	5.0E-03	--		4.6E-06	9E-04	5.0E-07	1E-04	4.0E-07		1.7E-07			4.4E-06	9E-04	4.7E-07	9E-05	3.8E-07		1.6E-07		
	Sodium	7440235	144	103	93	113	--	--		1.2E-03		1.3E-04		1.0E-04		4.5E-05			8.7E-04		9.3E-05		7.4E-05		3.2E-05		
	Thallium	7440280	1.37	1.32	1.33	1.34	6.5E-05	--		1.2E-05	2E-01	1.2E-06	2E-02	9.9E-07		4.2E-07			1.1E-05	2E-01	1.2E-06	2E-02	9.5E-07		4.1E-07		
	Uranium	7440611	10.2	10.5	10.6	10.4	6.0E-04	--	(e)	8.6E-05	1E-01	9.2E-06	2E-02	7.4E-06		3.2E-06			8.9E-05	1E-01	9.5E-06	2E-02	7.6E-06		3.3E-06		
	Vanadium	7440622	23.0	21.0	18.0	20.7	7.0E-03	--		1.9E-04	3E-02	2.1E-05	3E-03	1.7E-05		7.1E-06			1.8E-04	3E-02	1.9E-05	3E-03	1.5E-05		6.5E-06		
	Zinc	7440666	233	143	120	165	3.0E-01	--		2.0E-03	7E-03	2.1E-04	7E-04	1.7E-04		7.2E-05			1.2E-03	4E-03	1.3E-04	4E-04	1.0E-04		4.4E-05		
									Total		**1E+00**		**1E-01**		**6E-06**		**3E-06**	**9E-06**		**1E+00**		**1E-01**		**7E-06**		**3E-06**	**1E-05**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Seasonal

Exposure Area: Columbia Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	8.44E-06	9.04E-07
Cancer:	7.23E-07	3.10E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	11,617	10,660	8,947	10,408	1.0E+00	--		7.5E-02	8E-02	8.1E-03	8E-03	6.5E-03		2.8E-03			8.8E-02	9E-02	9.4E-03	9E-03	7.5E-03		3.2E-03		
	Antimony	7440360	1.1	1.0	1.0	1.0	4.0E-04	--		8.8E-06	2E-02	9.4E-07	2E-03	7.5E-07		3.2E-07			8.8E-06	2E-02	9.4E-07	2E-03	7.5E-07		3.2E-07		
	Arsenic	7440382	4.7	5.4	3.8	4.6	2.4E-04	1.9E+00	(j)	3.2E-05	1E-01	3.5E-06	1E-02	2.8E-06	5E-06	1.2E-06	2E-06	7E-06	3.9E-05	2E-01	4.2E-06	2E-02	3.4E-06	6E-06	1.4E-06	3E-06	9E-06
	Barium	7440393	116	100	81	99	2.0E-01	--		6.9E-04	3E-03	7.4E-05	4E-04	5.9E-05		2.5E-05			8.4E-04	4E-03	8.9E-05	4E-04	7.2E-05		3.1E-05		
	Beryllium	7440417	0.86	0.71	0.57	0.71	2.0E-03	--		4.8E-06	2E-03	5.1E-07	3E-04	4.1E-07		1.8E-07			6.0E-06	3E-03	6.4E-07	3E-04	5.1E-07		2.2E-07		
	Cadmium	7440439	1.63	0.45	0.33	0.80	1.0E-03	--	(a)	2.8E-06	3E-03	3.0E-07	3E-04	2.4E-07		1.0E-07			6.8E-06	7E-03	7.3E-07	7E-04	5.8E-07		2.5E-07		
	Calcium	7440702	2,980	2,333	2,017	2,443	--	--		1.7E-02		1.8E-03		1.5E-03		6.3E-04			2.1E-02		2.2E-03		1.8E-03		7.6E-04		
	Chromium	7440473	16.9	14.3	12.1	14.4	1.5E+00	--	(b)	1.0E-04	7E-05	1.1E-05	7E-06	8.8E-06		3.8E-06			1.2E-04	8E-05	1.3E-05	9E-06	1.0E-05		4.5E-06		
	Cobalt	7440484	7.7	6.3	5.4	6.5	3.0E-04	--		4.6E-05	2E-01	4.9E-06	2E-02	3.9E-06		1.7E-06			5.5E-05	2E-01	5.9E-06	2E-02	4.7E-06		2.0E-06		
	Copper	7440508	19	11	9	13	4.0E-02	--		7.3E-05	2E-03	7.9E-06	2E-04	6.3E-06		2.7E-06			1.1E-04	3E-03	1.2E-05	3E-04	9.4E-06		4.0E-06		
	Iron	7439896	16,700	15,933	14,400	15,678	7.0E-01	--		1.2E-01	2E-01	1.3E-02	2E-02	1.0E-02		4.5E-03			1.3E-01	2E-01	1.4E-02	2E-02	1.1E-02		4.9E-03		
	Lead	7439921	58	18	11	29			(c)																		
	Magnesium	7439954	4,107	3,890	3,487	3,828	--	--		2.9E-02		3.2E-03		2.5E-03		1.1E-03			3.2E-02		3.5E-03		2.8E-03		1.2E-03		
	Manganese	7439965	283	190	167	214	4.7E-02	--	(d)	1.4E-03	3E-02	1.5E-04	3E-03	1.2E-04		5.2E-05			1.8E-03	4E-02	1.9E-04	4E-03	1.5E-04		6.6E-05		
	Mercury	7439976	0.136	0.029	0.017	0.061	3.0E-04	--	(i)	1.4E-07	5E-04	1.5E-08	5E-05	1.2E-08		5.3E-09			5.1E-07	2E-03	5.5E-08	2E-04	4.4E-08		1.9E-08		
	Nickel	7440020	14.6	11.8	10.2	12.2	2.0E-02	--		8.6E-05	4E-03	9.3E-06	5E-04	7.4E-06		3.2E-06			1.0E-04	5E-03	1.1E-05	6E-04	8.8E-06		3.8E-06		
	Potassium	7440097	2,210	1,840	1,413	1,821	--	--		1.2E-02		1.3E-03		1.0E-03		4.4E-04			1.5E-02		1.6E-03		1.3E-03		5.6E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.55	0.52	0.53	0.54	5.0E-03	--		4.5E-06	9E-04	4.8E-07	1E-04	3.9E-07		1.7E-07			4.5E-06	9E-04	4.8E-07	1E-04	3.9E-07		1.7E-07		
	Sodium	7440235	144	103	93	113	--	--		7.9E-04		8.4E-05		6.7E-05		2.9E-05			9.6E-04		1.0E-04		8.2E-05		3.5E-05		
	Thallium	7440280	1.37	1.32	1.33	1.34	6.5E-05	--		1.1E-05	2E-01	1.2E-06	2E-02	9.6E-07		4.1E-07			1.1E-05	2E-01	1.2E-06	2E-02	9.7E-07		4.2E-07		
	Uranium	7440611	10.2	10.5	10.6	10.4	6.0E-04	--	(e)	8.9E-05	1E-01	9.6E-06	2E-02	7.7E-06		3.3E-06			8.8E-05	1E-01	9.4E-06	2E-02	7.5E-06		3.2E-06		
	Vanadium	7440622	23.0	21.0	18.0	20.7	7.0E-03	--		1.5E-04	2E-02	1.6E-05	2E-03	1.3E-05		5.6E-06			1.7E-04	2E-02	1.9E-05	3E-03	1.5E-05		6.4E-06		
	Zinc	7440666	233	143	120	165	3.0E-01	--		1.2E-03	4E-03	1.3E-04	4E-04	1.0E-04		4.4E-05			1.4E-03	5E-03	1.5E-04	5E-04	1.2E-04		5.1E-05		
									Total		**1E+00**		**1E-01**		**5E-06**		**2E-06**	**7E-06**		**1E+00**		**1E-01**		**6E-06**		**3E-06**	**9E-06**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**			

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Seasonal

Exposure Area: Dalles Orchard

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	8.44E-06	9.04E-07
Cancer:	7.23E-07	3.10E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	11,300	11,900	10,700	11,300	1.0E+00	--		9.5E-02	1E-01	1.0E-02	1E-02	8.2E-03		3.5E-03			1.0E-01	1E-01	1.1E-02	1E-02	8.6E-03		3.7E-03		
	Antimony	7440360	24.8	32.4	11.2	22.8	4.0E-04	--		2.1E-04	5E-01	2.2E-05	6E-02	1.8E-05		7.7E-06			2.7E-04	7E-01	2.9E-05	7E-02	2.3E-05		1.0E-05		
	Arsenic	7440382	18.1	22.5	13.7	18.1	2.4E-04	1.9E+00	(j)	1.5E-04	6E-01	1.6E-05	7E-02	1.3E-05	2E-05	5.6E-06	1E-05	4E-05	1.9E-04	8E-01	2.0E-05	8E-02	1.6E-05	3E-05	7.0E-06	1E-05	4E-05
	Barium	7440393	1,020	1,070	686	925	2.0E-01	--		8.6E-03	4E-02	9.2E-04	5E-03	7.4E-04		3.2E-04			9.0E-03	5E-02	9.7E-04	5E-03	7.7E-04		3.3E-04		
	Beryllium	7440417	0.84	0.88	0.77	0.83	2.0E-03	--		7.1E-06	4E-03	7.6E-07	4E-04	6.1E-07		2.6E-07			7.4E-06	4E-03	8.0E-07	4E-04	6.4E-07		2.7E-07		
	Cadmium	7440439	2.10	1.90	2.50	2.17	1.0E-03	--	(a)	1.8E-05	2E-02	1.9E-06	2E-03	1.5E-06		6.5E-07			1.6E-05	2E-02	1.7E-06	2E-03	1.4E-06		5.9E-07		
	Calcium	7440702	37,700	39,900	35,100	37,567	--	--		3.2E-01		3.4E-02		2.7E-02		1.2E-02			3.4E-01		3.6E-02		2.9E-02		1.2E-02		
	Chromium	7440473	71.9	77.6	51.3	66.9	1.5E+00	--	(b)	6.1E-04	4E-04	6.5E-05	4E-05	5.2E-05		2.2E-05			6.5E-04	4E-04	7.0E-05	5E-05	5.6E-05		2.4E-05		
	Cobalt	7440484	35.1	36.8	22.4	31.4	3.0E-04	--		3.0E-04	1E+00	3.2E-05	1E-01	2.5E-05		1.1E-05			3.1E-04	1E+00	3.3E-05	1E-01	2.7E-05		1.1E-05		
	Copper	7440508	1,300	1,380	802	1,161	4.0E-02	--		1.1E-02	3E-01	1.2E-03	3E-02	9.4E-04		4.0E-04			1.2E-02	3E-01	1.2E-03	3E-02	1.0E-03		4.3E-04		
	Iron	7439896	108,000	110,000	82,100	100,033	7.0E-01	--		9.1E-01	1E+00	9.8E-02	1E-01	7.8E-02		3.3E-02			9.3E-01	1E+00	9.9E-02	1E-01	8.0E-02		3.4E-02		
	Lead	7439921	205	190	214	203			(c)																		
	Magnesium	7439954	5,640	6,450	9,090	7,060	--	--		4.8E-02		5.1E-03		4.1E-03		1.7E-03			5.4E-02		5.8E-03		4.7E-03		2.0E-03		
	Manganese	7439965	2,110	2,200	1,660	1,990	4.7E-02	--	(d)	1.8E-02	4E-01	1.9E-03	4E-02	1.5E-03		6.5E-04			1.9E-02	4E-01	2.0E-03	4E-02	1.6E-03		6.8E-04		
	Mercury	7439976	0.034	0.044	0.073	0.050	3.0E-04	--	(i)	2.9E-07	1E-03	3.1E-08	1E-04	2.5E-08		1.1E-08			3.7E-07	1E-03	4.0E-08	1E-04	3.2E-08		1.4E-08		
	Nickel	7440020	10.4	12.1	10.4	11.0	2.0E-02	--		8.8E-05	4E-03	9.4E-06	5E-04	7.5E-06		3.2E-06			1.0E-04	5E-03	1.1E-05	5E-04	8.8E-06		3.8E-06		
	Potassium	7440097	2,270	2,300	2,030	2,200	--	--		1.9E-02		2.1E-03		1.6E-03		7.0E-04			1.9E-02		2.1E-03		1.7E-03		7.1E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.50	0.49	0.50	0.50	5.0E-03	--		4.2E-06	8E-04	4.5E-07	9E-05	3.6E-07		1.5E-07			4.1E-06	8E-04	4.4E-07	9E-05	3.5E-07		1.5E-07		
	Sodium	7440235	1,200	1,300	811	1,104	--	--		1.0E-02		1.1E-03		8.7E-04		3.7E-04			1.1E-02		1.2E-03		9.4E-04		4.0E-04		
	Thallium	7440280	0.83	1.10	1.30	1.08	6.5E-05	--		7.0E-06	1E-01	7.5E-07	1E-02	6.0E-07		2.6E-07			9.3E-06	1E-01	9.9E-07	2E-02	8.0E-07		3.4E-07		
	Uranium	7440611	10.2	9.7	10.5	10.1	6.0E-04	--	(e)	8.6E-05	1E-01	9.2E-06	2E-02	7.4E-06		3.2E-06			8.2E-05	1E-01	8.8E-06	1E-02	7.0E-06		3.0E-06		
	Vanadium	7440622	28.2	29.2	27.2	28.2	7.0E-03	--		2.4E-04	3E-02	2.5E-05	4E-03	2.0E-05		8.7E-06			2.5E-04	4E-02	2.6E-05	4E-03	2.1E-05		9.1E-06		
	Zinc	7440666	8,700	8,410	6,560	7,890	3.0E-01	--		7.3E-02	2E-01	7.9E-03	3E-02	6.3E-03		2.7E-03			7.1E-02	2E-01	7.6E-03	3E-02	6.1E-03		2.6E-03		
								Total			**5E+00**		**5E-01**		**2E-05**		**1E-05**	**4E-05**		**5E+00**		**6E-01**		**3E-05**		**1E-05**	**4E-05**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Seasonal

Exposure Area: Dalles Orchard

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	8.44E-06	9.04E-07
Cancer:	7.23E-07	3.10E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	11,300	11,900	10,700	11,300	1.0E+00	--		9.0E-02	9E-02	9.7E-03	1E-02	7.7E-03		3.3E-03			9.5E-02	1E-01	1.0E-02	1E-02	8.2E-03		3.5E-03		
	Antimony	7440360	24.8	32.4	11.2	22.8	4.0E-04	--		9.5E-05	2E-01	1.0E-05	3E-02	8.1E-06		3.5E-06			1.9E-04	5E-01	2.1E-05	5E-02	1.6E-05		7.1E-06		
	Arsenic	7440382	18.1	22.5	13.7	18.1	2.4E-04	1.9E+00	(j)	1.2E-04	5E-01	1.2E-05	5E-02	9.9E-06	2E-05	4.2E-06	8E-06	3E-05	1.5E-04	6E-01	1.6E-05	7E-02	1.3E-05	2E-05	5.6E-06	1E-05	4E-05
	Barium	7440393	1,020	1,070	686	925	2.0E-01	--		5.8E-03	3E-02	6.2E-04	3E-03	5.0E-04		2.1E-04			7.8E-03	4E-02	8.4E-04	4E-03	6.7E-04		2.9E-04		
	Beryllium	7440417	0.84	0.88	0.77	0.83	2.0E-03	--		6.5E-06	3E-03	7.0E-07	3E-04	5.6E-07		2.4E-07			7.0E-06	4E-03	7.5E-07	4E-04	6.0E-07		2.6E-07		
	Cadmium	7440439	2.10	1.90	2.50	2.17	1.0E-03	--	(a)	2.1E-05	2E-02	2.3E-06	2E-03	1.8E-06		7.7E-07			1.8E-05	2E-02	2.0E-06	2E-03	1.6E-06		6.7E-07		
	Calcium	7440702	37,700	39,900	35,100	37,567	--	--		3.0E-01		3.2E-02		2.5E-02		1.1E-02			3.2E-01		3.4E-02		2.7E-02		1.2E-02		
	Chromium	7440473	71.9	77.6	51.3	66.9	1.5E+00	--	(b)	4.3E-04	3E-04	4.6E-05	3E-05	3.7E-05		1.6E-05			5.6E-04	4E-04	6.1E-05	4E-05	4.8E-05		2.1E-05		
	Cobalt	7440484	35.1	36.8	22.4	31.4	3.0E-04	--		1.9E-04	6E-01	2.0E-05	7E-02	1.6E-05		6.9E-06			2.7E-04	9E-01	2.8E-05	9E-02	2.3E-05		9.7E-06		
	Copper	7440508	1,300	1,380	802	1,161	4.0E-02	--		6.8E-03	2E-01	7.3E-04	2E-02	5.8E-04		2.5E-04			9.8E-03	2E-01	1.0E-03	3E-02	8.4E-04		3.6E-04		
	Iron	7439896	108,000	110,000	82,100	100,033	7.0E-01	--		6.9E-01	1E+00	7.4E-02	1E-01	5.9E-02		2.5E-02			8.4E-01	1E+00	9.0E-02	1E-01	7.2E-02		3.1E-02		
	Lead	7439921	205	190	214	203			(c)																		
	Magnesium	7439954	5,640	6,450	9,090	7,060	--	--		7.7E-02		8.2E-03		6.6E-03		2.8E-03			6.0E-02		6.4E-03		5.1E-03		2.2E-03		
	Manganese	7439965	2,110	2,200	1,660	1,990	4.7E-02	--	(d)	1.4E-02	3E-01	1.5E-03	3E-02	1.2E-03		5.1E-04			1.7E-02	4E-01	1.8E-03	4E-02	1.4E-03		6.2E-04		
	Mercury	7439976	0.034	0.044	0.073	0.050	3.0E-04	--	(i)	6.2E-07	2E-03	6.6E-08	2E-04	5.3E-08		2.3E-08			4.2E-07	1E-03	4.6E-08	2E-04	3.6E-08		1.6E-08		
	Nickel	7440020	10.4	12.1	10.4	11.0	2.0E-02	--		8.8E-05	4E-03	9.4E-06	5E-04	7.5E-06		3.2E-06			9.3E-05	5E-03	9.9E-06	5E-04	7.9E-06		3.4E-06		
	Potassium	7440097	2,270	2,300	2,030	2,200	--	--		1.7E-02		1.8E-03		1.5E-03		6.3E-04			1.9E-02		2.0E-03		1.6E-03		6.8E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.50	0.49	0.50	0.50	5.0E-03	--		4.2E-06	8E-04	4.5E-07	9E-05	3.6E-07		1.5E-07			4.2E-06	8E-04	4.5E-07	9E-05	3.6E-07		1.5E-07		
	Sodium	7440235	1,200	1,300	811	1,104	--	--		6.8E-03		7.3E-04		5.9E-04		2.5E-04			9.3E-03		1.0E-03		8.0E-04		3.4E-04		
	Thallium	7440280	0.83	1.10	1.30	1.08	6.5E-05	--		1.1E-05	2E-01	1.2E-06	2E-02	9.4E-07		4.0E-07			9.1E-06	1E-01	9.7E-07	1E-02	7.8E-07		3.3E-07		
	Uranium	7440611	10.2	9.7	10.5	10.1	6.0E-04	--	(e)	8.9E-05	1E-01	9.5E-06	2E-02	7.6E-06		3.3E-06			8.6E-05	1E-01	9.2E-06	2E-02	7.3E-06		3.1E-06		
	Vanadium	7440622	28.2	29.2	27.2	28.2	7.0E-03	--		2.3E-04	3E-02	2.5E-05	4E-03	2.0E-05		8.4E-06			2.4E-04	3E-02	2.5E-05	4E-03	2.0E-05		8.7E-06		
	Zinc	7440666	8,700	8,410	6,560	7,890	3.0E-01	--		7.1E-02	2E-01	7.6E-03	3E-02	6.1E-03		2.6E-03			6.7E-02	2E-01	7.1E-03	2E-02	5.7E-03		2.4E-03		
									Total		4E+00		4E-01		2E-05		8E-06	3E-05		5E+00		5E-01		2E-05		1E-05	4E-05
										Total HQ or Risks > LOPC?:				Yes					Total HQ or Risks > LOPC?:				Yes				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Seasonal

Exposure Area: French Rocks Boat Launch

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	8.44E-06	9.04E-07
Cancer:	7.23E-07	3.10E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	6,370	6,050	6,550	6,323	1.0E+00	--		5.4E-02	5E-02	5.8E-03	6E-03	4.6E-03		2.0E-03			5.1E-02	5E-02	5.5E-03	5E-03	4.4E-03		1.9E-03		
	Antimony	7440360	1.0	1.0	0.4	0.8	4.0E-04	--		8.0E-06	2E-02	8.6E-07	2E-03	6.9E-07		2.9E-07			8.4E-06	2E-02	9.0E-07	2E-03	7.2E-07		3.1E-07		
	Arsenic	7440382	2.6	2.4	2.4	2.5	2.4E-04	1.9E+00	(j)	2.2E-05	9E-02	2.4E-06	1E-02	1.9E-06	4E-06	8.1E-07	2E-06	5E-06	2.0E-05	8E-02	2.2E-06	9E-03	1.7E-06	3E-06	7.4E-07	1E-06	5E-06
	Barium	7440393	56	58	62	59	2.0E-01	--		4.8E-04	2E-03	5.1E-05	3E-04	4.1E-05		1.7E-05			4.9E-04	2E-03	5.2E-05	3E-04	4.2E-05		1.8E-05		
	Beryllium	7440417	0.52	0.51	0.46	0.50	2.0E-03	--		4.4E-06	2E-03	4.7E-07	2E-04	3.8E-07		1.6E-07			4.3E-06	2E-03	4.6E-07	2E-04	3.7E-07		1.6E-07		
	Cadmium	7440439	0.45	0.33	0.51	0.43	1.0E-03	--	(a)	3.8E-06	4E-03	4.1E-07	4E-04	3.3E-07		1.4E-07			2.8E-06	3E-03	3.0E-07	3E-04	2.4E-07		1.0E-07		
	Calcium	7440702	3,050	2,430	4,830	3,437	--	--		2.6E-02		2.8E-03		2.2E-03		9.5E-04			2.1E-02		2.2E-03		1.8E-03		7.5E-04		
	Chromium	7440473	12.7	12.4	12.8	12.6	1.5E+00	--	(b)	1.1E-04	7E-05	1.1E-05	8E-06	9.2E-06		3.9E-06			1.0E-04	7E-05	1.1E-05	7E-06	9.0E-06		3.8E-06		
	Cobalt	7440484	4.9	4.3	4.5	4.6	3.0E-04	--		4.1E-05	1E-01	4.4E-06	1E-02	3.5E-06		1.5E-06			3.6E-05	1E-01	3.9E-06	1E-02	3.1E-06		1.3E-06		
	Copper	7440508	14	15	11	13	4.0E-02	--		1.2E-04	3E-03	1.2E-05	3E-04	1.0E-05		4.3E-06			1.2E-04	3E-03	1.3E-05	3E-04	1.0E-05		4.5E-06		
	Iron	7439896	12,000	9,960	11,000	10,987	7.0E-01	--		1.0E-01	1E-01	1.1E-02	2E-02	8.7E-03		3.7E-03			8.4E-02	1E-01	9.0E-03	1E-02	7.2E-03		3.1E-03		
	Lead	7439921	22	19	21	20			(c)																		
	Magnesium	7439954	3,980	2,770	4,590	3,780	--	--		3.4E-02		3.6E-03		2.9E-03		1.2E-03			2.3E-02		2.5E-03		2.0E-03		8.6E-04		
	Manganese	7439965	260	171	208	213	4.7E-02	--	(d)	2.2E-03	5E-02	2.4E-04	5E-03	1.9E-04		8.1E-05			1.4E-03	3E-02	1.5E-04	3E-03	1.2E-04		5.3E-05		
	Mercury	7439976	0.030	0.019	0.050	0.033	3.0E-04	--	(i)	2.5E-07	8E-04	2.7E-08	9E-05	2.2E-08		9.3E-09			1.6E-07	5E-04	1.7E-08	6E-05	1.4E-08		5.9E-09		
	Nickel	7440020	10.9	9.6	15.0	11.8	2.0E-02	--		9.2E-05	5E-03	9.9E-06	5E-04	7.9E-06		3.4E-06			8.1E-05	4E-03	8.7E-06	4E-04	6.9E-06		3.0E-06		
	Potassium	7440097	775	843	749	789	--	--		6.5E-03		7.0E-04		5.6E-04		2.4E-04			7.1E-03		7.6E-04		6.1E-04		2.6E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.55	0.50	0.45	0.50	5.0E-03	--		4.6E-06	9E-04	5.0E-07	1E-04	4.0E-07		1.7E-07			4.2E-06	8E-04	4.5E-07	9E-05	3.6E-07		1.5E-07		
	Sodium	7440235	155	131	134	140	--	--		1.3E-03		1.4E-04		1.1E-04		4.8E-05			1.1E-03		1.2E-04		9.5E-05		4.1E-05		
	Thallium	7440280	1.40	1.30	1.10	1.27	6.5E-05	--		1.2E-05	2E-01	1.3E-06	2E-02	1.0E-06		4.3E-07			1.1E-05	2E-01	1.2E-06	2E-02	9.4E-07		4.0E-07		
	Uranium	7440611	11.1	8.4	8.9	9.4	6.0E-04	--	(e)	9.3E-05	2E-01	1.0E-05	2E-02	8.0E-06		3.4E-06			7.1E-05	1E-01	7.6E-06	1E-02	6.1E-06		2.6E-06		
	Vanadium	7440622	21.7	19.6	21.9	21.1	7.0E-03	--		1.8E-04	3E-02	2.0E-05	3E-03	1.6E-05		6.7E-06			1.7E-04	2E-02	1.8E-05	3E-03	1.4E-05		6.1E-06		
	Zinc	7440666	97	67	92	85	3.0E-01	--		8.2E-04	3E-03	8.8E-05	3E-04	7.0E-05		3.0E-05			5.7E-04	2E-03	6.1E-05	2E-04	4.9E-05		2.1E-05		
									Total		**9E-01**		**9E-02**		**4E-06**		**2E-06**	**5E-06**		**8E-01**		**8E-02**		**3E-06**		**1E-06**	**5E-06**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Seasonal

Exposure Area: French Rocks Boat Launch

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	8.44E-06	9.04E-07
Cancer:	7.23E-07	3.10E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	6,370	6,050	6,550	6,323	1.0E+00	--		5.5E-02	6E-02	5.9E-03	6E-03	4.7E-03		2.0E-03			5.3E-02	5E-02	5.7E-03	6E-03	4.6E-03		2.0E-03		
	Antimony	7440360	1.0	1.0	0.4	0.8	4.0E-04	--		3.5E-06	9E-03	3.8E-07	9E-04	3.0E-07		1.3E-07			6.7E-06	2E-02	7.1E-07	2E-03	5.7E-07		2.4E-07		
	Arsenic	7440382	2.6	2.4	2.4	2.5	2.4E-04	1.9E+00	(j)	2.0E-05	8E-02	2.2E-06	9E-03	1.7E-06	3E-06	7.4E-07	1E-06	5E-06	2.1E-05	9E-02	2.2E-06	9E-03	1.8E-06	3E-06	7.6E-07	1E-06	5E-06
	Barium	7440393	56	58	62	59	2.0E-01	--		5.2E-04	3E-03	5.6E-05	3E-04	4.5E-05		1.9E-05			4.9E-04	2E-03	5.3E-05	3E-04	4.2E-05		1.8E-05		
	Beryllium	7440417	0.52	0.51	0.46	0.50	2.0E-03	--		3.9E-06	2E-03	4.2E-07	2E-04	3.3E-07		1.4E-07			4.2E-06	2E-03	4.5E-07	2E-04	3.6E-07		1.5E-07		
	Cadmium	7440439	0.45	0.33	0.51	0.43	1.0E-03	--	(a)	4.3E-06	4E-03	4.6E-07	5E-04	3.7E-07		1.6E-07			3.6E-06	4E-03	3.9E-07	4E-04	3.1E-07		1.3E-07		
	Calcium	7440702	3,050	2,430	4,830	3,437	--	--		4.1E-02		4.4E-03		3.5E-03		1.5E-03			2.9E-02		3.1E-03		2.5E-03		1.1E-03		
	Chromium	7440473	12.7	12.4	12.8	12.6	1.5E+00	--	(b)	1.1E-04	7E-05	1.2E-05	8E-06	9.3E-06		4.0E-06			1.1E-04	7E-05	1.1E-05	8E-06	9.1E-06		3.9E-06		
	Cobalt	7440484	4.9	4.3	4.5	4.6	3.0E-04	--		3.8E-05	1E-01	4.1E-06	1E-02	3.3E-06		1.4E-06			3.9E-05	1E-01	4.1E-06	1E-02	3.3E-06		1.4E-06		
	Copper	7440508	14	15	11	13	4.0E-02	--		9.2E-05	2E-03	9.9E-06	2E-04	7.9E-06		3.4E-06			1.1E-04	3E-03	1.2E-05	3E-04	9.5E-06		4.1E-06		
	Iron	7439896	12,000	9,960	11,000	10,987	7.0E-01	--		9.3E-02	1E-01	9.9E-03	1E-02	8.0E-03		3.4E-03			9.3E-02	1E-01	9.9E-03	1E-02	7.9E-03		3.4E-03		
	Lead	7439921	22	19	21	20			(c)																		
	Magnesium	7439954	3,980	2,770	4,590	3,780	--	--		3.9E-02		4.1E-03		3.3E-03		1.4E-03			3.2E-02		3.4E-03		2.7E-03		1.2E-03		
	Manganese	7439965	260	171	208	213	4.7E-02	--	(d)	1.8E-03	4E-02	1.9E-04	4E-03	1.5E-04		6.4E-05			1.8E-03	4E-02	1.9E-04	4E-03	1.5E-04		6.6E-05		
	Mercury	7439976	0.030	0.019	0.050	0.033	3.0E-04	--	(i)	4.2E-07	1E-03	4.5E-08	1E-04	3.6E-08		1.5E-08			2.8E-07	9E-04	3.0E-08	1E-04	2.4E-08		1.0E-08		
	Nickel	7440020	10.9	9.6	15.0	11.8	2.0E-02	--		1.3E-04	6E-03	1.4E-05	7E-04	1.1E-05		4.6E-06			1.0E-04	5E-03	1.1E-05	5E-04	8.6E-06		3.7E-06		
	Potassium	7440097	775	843	749	789	--	--		6.3E-03		6.8E-04		5.4E-04		2.3E-04			6.7E-03		7.1E-04		5.7E-04		2.4E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.55	0.50	0.45	0.50	5.0E-03	--		3.8E-06	8E-04	4.0E-07	8E-05	3.2E-07		1.4E-07			4.2E-06	8E-04	4.5E-07	9E-05	3.6E-07		1.5E-07		
	Sodium	7440235	155	131	134	140	--	--		1.1E-03		1.2E-04		9.7E-05		4.2E-05			1.2E-03		1.3E-04		1.0E-04		4.3E-05		
	Thallium	7440280	1.40	1.30	1.10	1.27	6.5E-05	--		9.3E-06	1E-01	9.9E-07	2E-02	8.0E-07		3.4E-07			1.1E-05	2E-01	1.1E-06	2E-02	9.2E-07		3.9E-07		
	Uranium	7440611	11.1	8.4	8.9	9.4	6.0E-04	--	(e)	7.5E-05	1E-01	8.0E-06	1E-02	6.4E-06		2.7E-06			8.0E-05	1E-01	8.5E-06	1E-02	6.8E-06		2.9E-06		
	Vanadium	7440622	21.7	19.6	21.9	21.1	7.0E-03	--		1.8E-04	3E-02	2.0E-05	3E-03	1.6E-05		6.8E-06			1.8E-04	3E-02	1.9E-05	3E-03	1.5E-05		6.5E-06		
	Zinc	7440666	97	67	92	85	3.0E-01	--		5.7E-04	2E-03	6.1E-05	2E-04	4.9E-05		2.1E-05			7.2E-04	2E-03	7.7E-05	3E-04	6.2E-05		2.6E-05		
									Total		**8E-01**		**8E-02**		**3E-06**		**1E-06**	**5E-06**		**8E-01**		**9E-02**		**3E-06**		**1E-06**	**5E-06**
										Total HQ or Risks > LOPC?:		**Yes**							**Total HQ or Risks > LOPC?:**		**Yes**						

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Seasonal

Exposure Area: Haag Cove

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	8.44E-06	9.04E-07
Cancer:	7.23E-07	3.10E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	13,000	7,660	3,000	7,887	1.0E+00	--		1.1E-01	1E-01	1.2E-02	1E-02	9.4E-03		4.0E-03			6.5E-02	6E-02	6.9E-03	7E-03	5.5E-03		2.4E-03		
	Antimony	7440360	1.8	1.8	0.3	1.3	4.0E-04	--		1.5E-05	4E-02	1.6E-06	4E-03	1.3E-06		5.6E-07			1.5E-05	4E-02	1.6E-06	4E-03	1.3E-06		5.6E-07		
	Arsenic	7440382	2.3	1.4	1.0	1.6	2.4E-04	1.9E+00	(j)	1.9E-05	8E-02	2.1E-06	9E-03	1.7E-06	3E-06	7.1E-07	1E-06	4E-06	1.2E-05	5E-02	1.3E-06	5E-03	1.0E-06	2E-06	4.3E-07	8E-07	3E-06
	Barium	7440393	232	102	30	121	2.0E-01	--		2.0E-03	1E-02	2.1E-04	1E-03	1.7E-04		7.2E-05			8.6E-04	4E-03	9.2E-05	5E-04	7.4E-05		3.2E-05		
	Beryllium	7440417	1.20	0.69	0.28	0.72	2.0E-03	--		1.0E-05	5E-03	1.1E-06	5E-04	8.7E-07		3.7E-07			5.8E-06	3E-03	6.2E-07	3E-04	5.0E-07		2.1E-07		
	Cadmium	7440439	7.80	4.40	0.32	4.17	1.0E-03	--	(a)	6.6E-05	7E-02	7.1E-06	7E-03	5.6E-06		2.4E-06			3.7E-05	4E-02	4.0E-06	4E-03	3.2E-06		1.4E-06		
	Calcium	7440702	5,670	2,550	879	3,033	--	--		4.8E-02		5.1E-03		4.1E-03		1.8E-03			2.2E-02		2.3E-03		1.8E-03		7.9E-04		
	Chromium	7440473	24.8	14.6	5.6	15.0	1.5E+00	--	(b)	2.1E-04	1E-04	2.2E-05	1E-05	1.8E-05		7.7E-06			1.2E-04	8E-05	1.3E-05	9E-06	1.1E-05		4.5E-06		
	Cobalt	7440484	8.7	5.2	2.3	5.4	3.0E-04	--		7.3E-05	2E-01	7.9E-06	3E-02	6.3E-06		2.7E-06			4.4E-05	1E-01	4.7E-06	2E-02	3.8E-06		1.6E-06		
	Copper	7440508	34	17	4	18	4.0E-02	--		2.9E-04	7E-03	3.1E-05	8E-04	2.5E-05		1.1E-05			1.4E-04	3E-03	1.5E-05	4E-04	1.2E-05		5.1E-06		
	Iron	7439896	18,100	11,800	5,180	11,693	7.0E-01	--		1.5E-01	2E-01	1.6E-02	2E-02	1.3E-02		5.6E-03			1.0E-01	1E-01	1.1E-02	2E-02	8.5E-03		3.7E-03		
	Lead	7439921	222	136	17	125			(c)																		
	Magnesium	7439954	5,220	3,210	1,390	3,273	--	--		4.4E-02		4.7E-03		3.8E-03		1.6E-03			2.7E-02		2.9E-03		2.3E-03		1.0E-03		
	Manganese	7439965	267	158	111	179	4.7E-02	--	(d)	2.3E-03	5E-02	2.4E-04	5E-03	1.9E-04		8.3E-05			1.3E-03	3E-02	1.4E-04	3E-03	1.1E-04		4.9E-05		
	Mercury	7439976	0.800	0.290	0.050	0.380	3.0E-04	--	(i)	6.8E-06	2E-02	7.2E-07	2E-03	5.8E-07		2.5E-07			2.4E-06	8E-03	2.6E-07	9E-04	2.1E-07		9.0E-08		
	Nickel	7440020	19.7	11.2	4.1	11.7	2.0E-02	--		1.7E-04	8E-03	1.8E-05	9E-04	1.4E-05		6.1E-06			9.5E-05	5E-03	1.0E-05	5E-04	8.1E-06		3.5E-06		
	Potassium	7440097	2,260	1,120	483	1,288	--	--		1.9E-02		2.0E-03		1.6E-03		7.0E-04			9.5E-03		1.0E-03		8.1E-04		3.5E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.75	0.60	0.43	0.59	5.0E-03	--		6.3E-06	1E-03	6.8E-07	1E-04	5.4E-07		2.3E-07			5.1E-06	1E-03	5.4E-07	1E-04	4.3E-07		1.9E-07		
	Sodium	7440235	242	125	60	142	--	--		2.0E-03		2.2E-04		1.8E-04		7.5E-05			1.1E-03		1.1E-04		9.0E-05		3.9E-05		
	Thallium	7440280	1.90	1.45	1.10	1.48	6.5E-05	--		1.6E-05	2E-01	1.7E-06	3E-02	1.4E-06		5.9E-07			1.2E-05	2E-01	1.3E-06	2E-02	1.0E-06		4.5E-07		
	Uranium	7440611	15.1	11.6	8.7	11.8	6.0E-04	--	(e)	1.3E-04	2E-01	1.4E-05	2E-02	1.1E-05		4.7E-06			9.7E-05	2E-01	1.0E-05	2E-02	8.4E-06		3.6E-06		
	Vanadium	7440622	29.0	19.8	9.1	19.3	7.0E-03	--		2.4E-04	3E-02	2.6E-05	4E-03	2.1E-05		9.0E-06			1.7E-04	2E-02	1.8E-05	3E-03	1.4E-05		6.1E-06		
	Zinc	7440666	700	391	54	382	3.0E-01	--		5.9E-03	2E-02	6.3E-04	2E-03	5.1E-04		2.2E-04			3.3E-03	1E-02	3.5E-04	1E-03	2.8E-04		1.2E-04		
								Total			**1E+00**		**1E-01**		**3E-06**		**1E-06**	**4E-06**		**9E-01**		**1E-01**		**2E-06**		**8E-07**	**3E-06**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Seasonal

Exposure Area: Haag Cove

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	8.44E-06	9.04E-07
Cancer:	7.23E-07	3.10E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	13,000	7,660	3,000	7,887	1.0E+00	--		2.5E-02	3E-02	2.7E-03	3E-03	2.2E-03		9.3E-04			6.7E-02	7E-02	7.1E-03	7E-03	5.7E-03		2.4E-03		
	Antimony	7440360	1.8	1.8	0.3	1.3	4.0E-04	--		2.4E-06	6E-03	2.6E-07	7E-04	2.1E-07		9.0E-08			1.1E-05	3E-02	1.2E-06	3E-03	9.4E-07		4.0E-07		
	Arsenic	7440382	2.3	1.4	1.0	1.6	2.4E-04	1.9E+00	(j)	8.4E-06	4E-02	9.0E-07	4E-03	7.2E-07	1E-06	3.1E-07	6E-07	2E-06	1.3E-05	6E-02	1.4E-06	6E-03	1.1E-06	2E-06	4.9E-07	9E-07	3E-06
	Barium	7440393	232	102	30	121	2.0E-01	--		2.5E-04	1E-03	2.7E-05	1E-04	2.2E-05		9.2E-06			1.0E-03	5E-03	1.1E-04	5E-04	8.8E-05		3.8E-05		
	Beryllium	7440417	1.20	0.69	0.28	0.72	2.0E-03	--		2.4E-06	1E-03	2.5E-07	1E-04	2.0E-07		8.7E-08			6.1E-06	3E-03	6.5E-07	3E-04	5.2E-07		2.2E-07		
	Cadmium	7440439	7.80	4.40	0.32	4.17	1.0E-03	--	(a)	2.7E-06	3E-03	2.9E-07	3E-04	2.3E-07		9.9E-08			3.5E-05	4E-02	3.8E-06	4E-03	3.0E-06		1.3E-06		
	Calcium	7440702	5,670	2,550	879	3,033	--	--		7.4E-03		7.9E-04		6.4E-04		2.7E-04			2.6E-02		2.7E-03		2.2E-03		9.4E-04		
	Chromium	7440473	24.8	14.6	5.6	15.0	1.5E+00	--	(b)	4.7E-05	3E-05	5.1E-06	3E-06	4.1E-06		1.7E-06			1.3E-04	8E-05	1.4E-05	9E-06	1.1E-05		4.6E-06		
	Cobalt	7440484	8.7	5.2	2.3	5.4	3.0E-04	--		1.9E-05	6E-02	2.1E-06	7E-03	1.7E-06		7.1E-07			4.6E-05	2E-01	4.9E-06	2E-02	3.9E-06		1.7E-06		
	Copper	7440508	34	17	4	18	4.0E-02	--		3.5E-05	9E-04	3.8E-06	9E-05	3.0E-06		1.3E-06			1.5E-04	4E-03	1.6E-05	4E-04	1.3E-05		5.7E-06		
	Iron	7439896	18,100	11,800	5,180	11,693	7.0E-01	--		4.4E-02	6E-02	4.7E-03	7E-03	3.7E-03		1.6E-03			9.9E-02	1E-01	1.1E-02	2E-02	8.5E-03		3.6E-03		
	Lead	7439921	222	136	17	125			(c)																		
	Magnesium	7439954	5,220	3,210	1,390	3,273	--	--		1.2E-02		1.3E-03		1.0E-03		4.3E-04			2.8E-02		3.0E-03		2.4E-03		1.0E-03		
	Manganese	7439965	267	158	111	179	4.7E-02	--	(d)	9.4E-04	2E-02	1.0E-04	2E-03	8.0E-05		3.4E-05			1.5E-03	3E-02	1.6E-04	3E-03	1.3E-04		5.5E-05		
	Mercury	7439976	0.800	0.290	0.050	0.380	3.0E-04	--	(i)	4.2E-07	1E-03	4.5E-08	1E-04	3.6E-08		1.5E-08			3.2E-06	1E-02	3.4E-07	1E-03	2.7E-07		1.2E-07		
	Nickel	7440020	19.7	11.2	4.1	11.7	2.0E-02	--		3.5E-05	2E-03	3.7E-06	2E-04	3.0E-06		1.3E-06			9.8E-05	5E-03	1.1E-05	5E-04	8.4E-06		3.6E-06		
	Potassium	7440097	2,260	1,120	483	1,288	--	--		4.1E-03		4.4E-04		3.5E-04		1.5E-04			1.1E-02		1.2E-03		9.3E-04		4.0E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.75	0.60	0.43	0.59	5.0E-03	--		3.6E-06	7E-04	3.9E-07	8E-05	3.1E-07		1.3E-07			5.0E-06	1E-03	5.4E-07	1E-04	4.3E-07		1.8E-07		
	Sodium	7440235	242	125	60	142	--	--		5.1E-04		5.5E-05		4.4E-05		1.9E-05			1.2E-03		1.3E-04		1.0E-04		4.4E-05		
	Thallium	7440280	1.90	1.45	1.10	1.48	6.5E-05	--		9.3E-06	1E-01	9.9E-07	2E-02	8.0E-07		3.4E-07			1.3E-05	2E-01	1.3E-06	2E-02	1.1E-06		4.6E-07		
	Uranium	7440611	15.1	11.6	8.7	11.8	6.0E-04	--	(e)	7.3E-05	1E-01	7.8E-06	1E-02	6.3E-06		2.7E-06			9.9E-05	2E-01	1.1E-05	2E-02	8.5E-06		3.6E-06		
	Vanadium	7440622	29.0	19.8	9.1	19.3	7.0E-03	--		7.7E-05	1E-02	8.2E-06	1E-03	6.6E-06		2.8E-06			1.6E-04	2E-02	1.7E-05	2E-03	1.4E-05		6.0E-06		
	Zinc	7440666	700	391	54	382	3.0E-01	--		3.3E-03	1E-02	3.5E-04	1E-03	2.8E-04		1.2E-04			3.2E-03	1E-02	3.5E-04	1E-03	2.8E-04		1.2E-04		
									Total		**5E-01**		**5E-02**		**1E-06**		**6E-07**	**2E-06**		**9E-01**		**1E-01**		**2E-06**		**9E-07**	**3E-06**
										Total HQ or Risks > LOPC?:		**Yes**							**Total HQ or Risks > LOPC?:**		**Yes**					

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Seasonal

Exposure Area: Keller Ferry No. 2

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	8.44E-06	9.04E-07
Cancer:	7.23E-07	3.10E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	8,620	8,030	6,270	7,640	1.0E+00	--		7.3E-02	7E-02	7.8E-03	8E-03	6.2E-03		2.7E-03			6.8E-02	7E-02	7.3E-03	7E-03	5.8E-03		2.5E-03		
	Antimony	7440360	#N/A	#N/A	#N/A	#N/A	4.0E-04	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Arsenic	7440382	4.7	4.9	4.0	4.5	2.4E-04	1.9E+00	(j)	4.0E-05	2E-01	4.2E-06	2E-02	3.4E-06	6E-06	1.5E-06	3E-06	9E-06	4.1E-05	2E-01	4.4E-06	2E-02	3.5E-06	7E-06	1.5E-06	3E-06	9E-06
	Barium	7440393	69	59	46	58	2.0E-01	--		5.8E-04	3E-03	6.2E-05	3E-04	5.0E-05		2.1E-05			4.9E-04	2E-03	5.3E-05	3E-04	4.2E-05		1.8E-05		
	Beryllium	7440417	0.74	0.68	0.51	0.64	2.0E-03	--		6.2E-06	3E-03	6.7E-07	3E-04	5.4E-07		2.3E-07			5.7E-06	3E-03	6.1E-07	3E-04	4.9E-07		2.1E-07		
	Cadmium	7440439	0.25	0.24	0.25	0.25	1.0E-03	--	(a)	2.1E-06	2E-03	2.3E-07	2E-04	1.8E-07		7.7E-08			2.0E-06	2E-03	2.2E-07	2E-04	1.7E-07		7.4E-08		
	Calcium	7440702	1,940	1,760	3,880	2,527	--	--		1.6E-02		1.8E-03		1.4E-03		6.0E-04			1.5E-02		1.6E-03		1.3E-03		5.5E-04		
	Chromium	7440473	12.5	11.2	9.8	11.2	1.5E+00	--	(b)	1.1E-04	7E-05	1.1E-05	8E-06	9.0E-06		3.9E-06			9.5E-05	6E-05	1.0E-05	7E-06	8.1E-06		3.5E-06		
	Cobalt	7440484	5.4	5.0	3.9	4.8	3.0E-04	--		4.6E-05	2E-01	4.9E-06	2E-02	3.9E-06		1.7E-06			4.2E-05	1E-01	4.5E-06	2E-02	3.6E-06		1.5E-06		
	Copper	7440508	9	9	7	8	4.0E-02	--		7.7E-05	2E-03	8.2E-06	2E-04	6.6E-06		2.8E-06			7.3E-05	2E-03	7.8E-06	2E-04	6.2E-06		2.7E-06		
	Iron	7439896	15,600	15,500	13,100	14,733	7.0E-01	--		1.3E-01	2E-01	1.4E-02	2E-02	1.1E-02		4.8E-03			1.3E-01	2E-01	1.4E-02	2E-02	1.1E-02		4.8E-03		
	Lead	7439921	6	6	5	6			(c)																		
	Magnesium	7439954	4,210	4,390	4,330	4,310	--	--		3.6E-02		3.8E-03		3.0E-03		1.3E-03			3.7E-02		4.0E-03		3.2E-03		1.4E-03		
	Manganese	7439965	248	230	214	231	4.7E-02	--	(d)	2.1E-03	4E-02	2.2E-04	5E-03	1.8E-04		7.7E-05			1.9E-03	4E-02	2.1E-04	4E-03	1.7E-04		7.1E-05		
	Mercury	7439976	0.055	0.055	0.055	0.055	3.0E-04	--	(i)	4.6E-07	2E-03	5.0E-08	2E-04	4.0E-08		1.7E-08			4.6E-07	2E-03	5.0E-08	2E-04	4.0E-08		1.7E-08		
	Nickel	7440020	10.1	9.4	8.5	9.3	2.0E-02	--		8.5E-05	4E-03	9.1E-06	5E-04	7.3E-06		3.1E-06			7.9E-05	4E-03	8.5E-06	4E-04	6.8E-06		2.9E-06		
	Potassium	7440097	1,640	1,410	1,080	1,377	--	--		1.4E-02		1.5E-03		1.2E-03		5.1E-04			1.2E-02		1.3E-03		1.0E-03		4.4E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.50	0.48	0.50	0.49	5.0E-03	--		4.2E-06	8E-04	4.5E-07	9E-05	3.6E-07		1.5E-07			4.1E-06	8E-04	4.3E-07	9E-05	3.5E-07		1.5E-07		
	Sodium	7440235	75	58	49	61	--	--		6.3E-04		6.8E-05		5.4E-05		2.3E-05			4.9E-04		5.2E-05		4.2E-05		1.8E-05		
	Thallium	7440280	1.25	1.20	1.25	1.23	6.5E-05	--		1.1E-05	2E-01	1.1E-06	2E-02	9.0E-07		3.9E-07			1.0E-05	2E-01	1.1E-06	2E-02	8.7E-07		3.7E-07		
	Uranium	7440611	5.4	4.6	10.1	6.7	6.0E-04	--	(e)	4.6E-05	8E-02	4.9E-06	8E-03	3.9E-06		1.7E-06			3.9E-05	6E-02	4.2E-06	7E-03	3.3E-06		1.4E-06		
	Vanadium	7440622	19.5	17.2	14.0	16.9	7.0E-03	--		1.6E-04	2E-02	1.8E-05	3E-03	1.4E-05		6.0E-06			1.5E-04	2E-02	1.6E-05	2E-03	1.2E-05		5.3E-06		
	Zinc	7440666	39	44	37	40	3.0E-01	--		3.3E-04	1E-03	3.5E-05	1E-04	2.8E-05		1.2E-05			3.7E-04	1E-03	4.0E-05	1E-04	3.2E-05		1.4E-05		
									Total		**9E-01**		**1E-01**		**6E-06**		**3E-06**	**9E-06**		**9E-01**		**9E-02**		**7E-06**		**3E-06**	**9E-06**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Seasonal

Exposure Area: Keller Ferry No. 2

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	8.44E-06	9.04E-07
Cancer:	7.23E-07	3.10E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	8,620	8,030	6,270	7,640	1.0E+00	--		5.3E-02	5E-02	5.7E-03	6E-03	4.5E-03		1.9E-03			6.4E-02	6E-02	6.9E-03	7E-03	5.5E-03		2.4E-03		
	Antimony	7440360	#N/A	#N/A	#N/A	#N/A	4.0E-04	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Arsenic	7440382	4.7	4.9	4.0	4.5	2.4E-04	1.9E+00	(j)	3.4E-05	1E-01	3.6E-06	2E-02	2.9E-06	5E-06	1.2E-06	2E-06	8E-06	3.8E-05	2E-01	4.1E-06	2E-02	3.3E-06	6E-06	1.4E-06	3E-06	9E-06
	Barium	7440393	69	59	46	58	2.0E-01	--		3.8E-04	2E-03	4.1E-05	2E-04	3.3E-05		1.4E-05			4.9E-04	2E-03	5.2E-05	3E-04	4.2E-05		1.8E-05		
	Beryllium	7440417	0.74	0.68	0.51	0.64	2.0E-03	--		4.3E-06	2E-03	4.6E-07	2E-04	3.7E-07		1.6E-07			5.4E-06	3E-03	5.8E-07	3E-04	4.7E-07		2.0E-07		
	Cadmium	7440439	0.25	0.24	0.25	0.25	1.0E-03	--	(a)	2.1E-06	2E-03	2.3E-07	2E-04	1.8E-07		7.7E-08			2.1E-06	2E-03	2.2E-07	2E-04	1.8E-07		7.6E-08		
	Calcium	7440702	1,940	1,760	3,880	2,527	--	--		3.3E-02		3.5E-03		2.8E-03		1.2E-03			2.1E-02		2.3E-03		1.8E-03		7.8E-04		
	Chromium	7440473	12.5	11.2	9.8	11.2	1.5E+00	--	(b)	8.3E-05	6E-05	8.9E-06	6E-06	7.1E-06		3.0E-06			9.4E-05	6E-05	1.0E-05	7E-06	8.1E-06		3.5E-06		
	Cobalt	7440484	5.4	5.0	3.9	4.8	3.0E-04	--		3.3E-05	1E-01	3.5E-06	1E-02	2.8E-06		1.2E-06			4.0E-05	1E-01	4.3E-06	1E-02	3.4E-06		1.5E-06		
	Copper	7440508	9	9	7	8	4.0E-02	--		5.7E-05	1E-03	6.1E-06	2E-04	4.8E-06		2.1E-06			6.9E-05	2E-03	7.4E-06	2E-04	5.9E-06		2.5E-06		
	Iron	7439896	15,600	15,500	13,100	14,733	7.0E-01	--		1.1E-01	2E-01	1.2E-02	2E-02	9.5E-03		4.1E-03			1.2E-01	2E-01	1.3E-02	2E-02	1.1E-02		4.6E-03		
	Lead	7439921	6	6	5	6			(c)																		
	Magnesium	7439954	4,210	4,390	4,330	4,310	--	--		3.7E-02		3.9E-03		3.1E-03		1.3E-03			3.6E-02		3.9E-03		3.1E-03		1.3E-03		
	Manganese	7439965	248	230	214	231	4.7E-02	--	(d)	1.8E-03	4E-02	1.9E-04	4E-03	1.5E-04		6.6E-05			1.9E-03	4E-02	2.1E-04	4E-03	1.7E-04		7.2E-05		
	Mercury	7439976	0.055	0.055	0.055	0.055	3.0E-04	--	(i)	4.6E-07	2E-03	5.0E-08	2E-04	4.0E-08		1.7E-08			4.6E-07	2E-03	5.0E-08	2E-04	4.0E-08		1.7E-08		
	Nickel	7440020	10.1	9.4	8.5	9.3	2.0E-02	--		7.2E-05	4E-03	7.7E-06	4E-04	6.1E-06		2.6E-06			7.9E-05	4E-03	8.4E-06	4E-04	6.8E-06		2.9E-06		
	Potassium	7440097	1,640	1,410	1,080	1,377	--	--		9.1E-03		9.8E-04		7.8E-04		3.3E-04			1.2E-02		1.2E-03		1.0E-03		4.3E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.50	0.48	0.50	0.49	5.0E-03	--		4.2E-06	8E-04	4.5E-07	9E-05	3.6E-07		1.5E-07			4.2E-06	8E-04	4.5E-07	9E-05	3.6E-07		1.5E-07		
	Sodium	7440235	75	58	49	61	--	--		4.2E-04		4.5E-05		3.6E-05		1.5E-05			5.1E-04		5.5E-05		4.4E-05		1.9E-05		
	Thallium	7440280	1.25	1.20	1.25	1.23	6.5E-05	--		1.1E-05	2E-01	1.1E-06	2E-02	9.0E-07		3.9E-07			1.0E-05	2E-01	1.1E-06	2E-02	8.9E-07		3.8E-07		
	Uranium	7440611	5.4	4.6	10.1	6.7	6.0E-04	--	(e)	8.5E-05	1E-01	9.1E-06	2E-02	7.3E-06		3.1E-06			5.7E-05	9E-02	6.1E-06	1E-02	4.8E-06		2.1E-06		
	Vanadium	7440622	19.5	17.2	14.0	16.9	7.0E-03	--		1.2E-04	2E-02	1.3E-05	2E-03	1.0E-05		4.3E-06			1.4E-04	2E-02	1.5E-05	2E-03	1.2E-05		5.2E-06		
	Zinc	7440666	39	44	37	40	3.0E-01	--		3.7E-04	1E-03	4.0E-05	1E-04	3.2E-05		1.4E-05			3.4E-04	1E-03	3.6E-05	1E-04	2.9E-05		1.2E-05		
									Total		**8E-01**		**9E-02**		**5E-06**		**2E-06**	**8E-06**		**9E-01**		**9E-02**		**6E-06**		**3E-06**	**9E-06**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**			

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Seasonal

Exposure Area: Kettle Falls Swim Beach

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	8.44E-06	9.04E-07
Cancer:	7.23E-07	3.10E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	10,277	5,137	4,900	6,771	1.0E+00	--		8.7E-02	9E-02	9.3E-03	9E-03	7.4E-03		3.2E-03			4.3E-02	4E-02	4.6E-03	5E-03	3.7E-03		1.6E-03		
	Antimony	7440360	0.7	1.5	1.2	1.1	4.0E-04	--		5.8E-06	1E-02	6.2E-07	2E-03	5.0E-07		2.1E-07			1.3E-05	3E-02	1.3E-06	3E-03	1.1E-06		4.6E-07		
	Arsenic	7440382	1.9	1.3	1.6	1.6	2.4E-04	1.9E+00	(j)	1.6E-05	7E-02	1.7E-06	7E-03	1.4E-06	3E-06	5.8E-07	1E-06	4E-06	1.1E-05	4E-02	1.1E-06	5E-03	9.2E-07	2E-06	3.9E-07	7E-07	2E-06
	Barium	7440393	104	40	43	62	2.0E-01	--		8.8E-04	4E-03	9.4E-05	5E-04	7.5E-05		3.2E-05			3.3E-04	2E-03	3.6E-05	2E-04	2.9E-05		1.2E-05		
	Beryllium	7440417	0.86	0.37	0.33	0.52	2.0E-03	--		7.3E-06	4E-03	7.8E-07	4E-04	6.2E-07		2.7E-07			3.1E-06	2E-03	3.3E-07	2E-04	2.7E-07		1.1E-07		
	Cadmium	7440439	0.26	0.16	0.15	0.19	1.0E-03	--	(a)	2.2E-06	2E-03	2.3E-07	2E-04	1.9E-07		8.0E-08			1.4E-06	1E-03	1.5E-07	1E-04	1.2E-07		5.1E-08		
	Calcium	7440702	8,840	2,470	2,023	4,444	--	--		7.5E-02		8.0E-03		6.4E-03		2.7E-03			2.1E-02		2.2E-03		1.8E-03		7.7E-04		
	Chromium	7440473	22.9	9.8	9.8	14.2	1.5E+00	--	(b)	1.9E-04	1E-04	2.1E-05	1E-05	1.7E-05		7.1E-06			8.2E-05	5E-05	8.8E-06	6E-06	7.1E-06		3.0E-06		
	Cobalt	7440484	8.0	3.6	3.4	5.0	3.0E-04	--		6.8E-05	2E-01	7.2E-06	2E-02	5.8E-06		2.5E-06			3.0E-05	1E-01	3.3E-06	1E-02	2.6E-06		1.1E-06		
	Copper	7440508	18	10	10	12	4.0E-02	--		1.5E-04	4E-03	1.6E-05	4E-04	1.3E-05		5.5E-06			8.0E-05	2E-03	8.6E-06	2E-04	6.9E-06		2.9E-06		
	Iron	7439896	17,433	9,647	9,530	12,203	7.0E-01	--		1.5E-01	2E-01	1.6E-02	2E-02	1.3E-02		5.4E-03			8.1E-02	1E-01	8.7E-03	1E-02	7.0E-03		3.0E-03		
	Lead	7439921	9	6	5	7			(c)																		
	Magnesium	7439954	6,343	2,883	2,887	4,038	--	--		5.4E-02		5.7E-03		4.6E-03		2.0E-03			2.4E-02		2.6E-03		2.1E-03		8.9E-04		
	Manganese	7439965	381	151	177	236	4.7E-02	--	(d)	3.2E-03	7E-02	3.4E-04	7E-03	2.8E-04		1.2E-04			1.3E-03	3E-02	1.4E-04	3E-03	1.1E-04		4.7E-05		
	Mercury	7439976	0.006	0.052	0.053	0.037	3.0E-04	--	(i)	5.0E-08	2E-04	5.3E-09	2E-05	4.3E-09		1.8E-09			4.4E-07	1E-03	4.7E-08	2E-04	3.7E-08		1.6E-08		
	Nickel	7440020	18.7	7.8	7.8	11.4	2.0E-02	--		1.6E-04	8E-03	1.7E-05	8E-04	1.4E-05		5.8E-06			6.6E-05	3E-03	7.0E-06	4E-04	5.6E-06		2.4E-06		
	Potassium	7440097	1,804	624	555	995	--	--		1.5E-02		1.6E-03		1.3E-03		5.6E-04			5.3E-03		5.6E-04		4.5E-04		1.9E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.52	0.46	0.47	0.48	5.0E-03	--		4.3E-06	9E-04	4.7E-07	9E-05	3.7E-07		1.6E-07			3.8E-06	8E-04	4.1E-07	8E-05	3.3E-07		1.4E-07		
	Sodium	7440235	262	115	97	158	--	--		2.2E-03		2.4E-04		1.9E-04		8.1E-05			9.7E-04		1.0E-04		8.3E-05		3.6E-05		
	Thallium	7440280	1.30	1.13	1.17	1.20	6.5E-05	--		1.1E-05	2E-01	1.2E-06	2E-02	9.4E-07		4.0E-07			9.6E-06	1E-01	1.0E-06	2E-02	8.2E-07		3.5E-07		
	Uranium	7440611	10.4	9.0	9.3	9.6	6.0E-04	--	(e)	8.8E-05	1E-01	9.4E-06	2E-02	7.5E-06		3.2E-06			7.6E-05	1E-01	8.1E-06	1E-02	6.5E-06		2.8E-06		
	Vanadium	7440622	33.7	20.4	20.7	24.9	7.0E-03	--		2.8E-04	4E-02	3.0E-05	4E-03	2.4E-05		1.0E-05			1.7E-04	2E-02	1.8E-05	3E-03	1.5E-05		6.3E-06		
	Zinc	7440666	55	36	34	42	3.0E-01	--		4.7E-04	2E-03	5.0E-05	2E-04	4.0E-05		1.7E-05			3.1E-04	1E-03	3.3E-05	1E-04	2.6E-05		1.1E-05		
									Total		**1E+00**		**1E-01**		**3E-06**		**1E-06**	**4E-06**		**7E-01**		**7E-02**		**2E-06**		**7E-07**	**2E-06**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**			

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Seasonal

Exposure Area: Kettle Falls Swim Beach

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	8.44E-06	9.04E-07
Cancer:	7.23E-07	3.10E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	10,277	5,137	4,900	6,771	1.0E+00	--		4.1E-02	4E-02	4.4E-03	4E-03	3.5E-03		1.5E-03			5.7E-02	6E-02	6.1E-03	6E-03	4.9E-03		2.1E-03		
	Antimony	7440360	0.7	1.5	1.2	1.1	4.0E-04	--		1.0E-05	3E-02	1.1E-06	3E-03	8.8E-07		3.8E-07			9.5E-06	2E-02	1.0E-06	3E-03	8.1E-07		3.5E-07		
	Arsenic	7440382	1.9	1.3	1.6	1.6	2.4E-04	1.9E+00	(j)	1.3E-05	6E-02	1.4E-06	6E-03	1.1E-06	2E-06	4.9E-07	9E-07	3E-06	1.3E-05	6E-02	1.4E-06	6E-03	1.1E-06	2E-06	4.9E-07	9E-07	3E-06
	Barium	7440393	104	40	43	62	2.0E-01	--		3.7E-04	2E-03	3.9E-05	2E-04	3.1E-05		1.3E-05			5.3E-04	3E-03	5.6E-05	3E-04	4.5E-05		1.9E-05		
	Beryllium	7440417	0.86	0.37	0.33	0.52	2.0E-03	--		2.8E-06	1E-03	3.0E-07	1E-04	2.4E-07		1.0E-07			4.4E-06	2E-03	4.7E-07	2E-04	3.8E-07		1.6E-07		
	Cadmium	7440439	0.26	0.16	0.15	0.19	1.0E-03	--	(a)	1.2E-06	1E-03	1.3E-07	1E-04	1.1E-07		4.5E-08			1.6E-06	2E-03	1.7E-07	2E-04	1.4E-07		5.9E-08		
	Calcium	7440702	8,840	2,470	2,023	4,444	--	--		1.7E-02		1.8E-03		1.5E-03		6.3E-04			3.8E-02		4.0E-03		3.2E-03		1.4E-03		
	Chromium	7440473	22.9	9.8	9.8	14.2	1.5E+00	--	(b)	8.3E-05	6E-05	8.9E-06	6E-06	7.1E-06		3.0E-06			1.2E-04	8E-05	1.3E-05	9E-06	1.0E-05		4.4E-06		
	Cobalt	7440484	8.0	3.6	3.4	5.0	3.0E-04	--		2.8E-05	9E-02	3.0E-06	1E-02	2.4E-06		1.0E-06			4.2E-05	1E-01	4.5E-06	2E-02	3.6E-06		1.5E-06		
	Copper	7440508	18	10	10	12	4.0E-02	--		8.6E-05	2E-03	9.2E-06	2E-04	7.3E-06		3.1E-06			1.0E-04	3E-03	1.1E-05	3E-04	9.0E-06		3.8E-06		
	Iron	7439896	17,433	9,647	9,530	12,203	7.0E-01	--		8.0E-02	1E-01	8.6E-03	1E-02	6.9E-03		3.0E-03			1.0E-01	1E-01	1.1E-02	2E-02	8.8E-03		3.8E-03		
	Lead	7439921	9	6	5	7			(c)																		
	Magnesium	7439954	6,343	2,883	2,887	4,038	--	--		2.4E-02		2.6E-03		2.1E-03		8.9E-04			3.4E-02		3.7E-03		2.9E-03		1.3E-03		
	Manganese	7439965	381	151	177	236	4.7E-02	--	(d)	1.5E-03	3E-02	1.6E-04	3E-03	1.3E-04		5.5E-05			2.0E-03	4E-02	2.1E-04	5E-03	1.7E-04		7.3E-05		
	Mercury	7439976	0.006	0.052	0.053	0.037	3.0E-04	--	(i)	4.5E-07	1E-03	4.8E-08	2E-04	3.8E-08		1.6E-08			3.1E-07	1E-03	3.3E-08	1E-04	2.7E-08		1.1E-08		
	Nickel	7440020	18.7	7.8	7.8	11.4	2.0E-02	--		6.6E-05	3E-03	7.0E-06	4E-04	5.6E-06		2.4E-06			9.6E-05	5E-03	1.0E-05	5E-04	8.3E-06		3.5E-06		
	Potassium	7440097	1,804	624	555	995	--	--		4.7E-03		5.0E-04		4.0E-04		1.7E-04			8.4E-03		9.0E-04		7.2E-04		3.1E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.52	0.46	0.47	0.48	5.0E-03	--		3.9E-06	8E-04	4.2E-07	8E-05	3.4E-07		1.4E-07			4.0E-06	8E-04	4.3E-07	9E-05	3.5E-07		1.5E-07		
	Sodium	7440235	262	115	97	158	--	--		8.2E-04		8.8E-05		7.0E-05		3.0E-05			1.3E-03		1.4E-04		1.1E-04		4.9E-05		
	Thallium	7440280	1.30	1.13	1.17	1.20	6.5E-05	--		9.8E-06	2E-01	1.1E-06	2E-02	8.4E-07		3.6E-07			1.0E-05	2E-01	1.1E-06	2E-02	8.7E-07		3.7E-07		
	Uranium	7440611	10.4	9.0	9.3	9.6	6.0E-04	--	(e)	7.9E-05	1E-01	8.4E-06	1E-02	6.8E-06		2.9E-06			8.1E-05	1E-01	8.7E-06	1E-02	6.9E-06		3.0E-06		
	Vanadium	7440622	33.7	20.4	20.7	24.9	7.0E-03	--		1.7E-04	2E-02	1.9E-05	3E-03	1.5E-05		6.4E-06			2.1E-04	3E-02	2.3E-05	3E-03	1.8E-05		7.7E-06		
	Zinc	7440666	55	36	34	42	3.0E-01	--		3.1E-04	1E-03	3.3E-05	1E-04	2.6E-05		1.1E-05			3.5E-04	1E-03	3.8E-05	1E-04	3.0E-05		1.3E-05		
									Total		**7E-01**		**7E-02**		**2E-06**		**9E-07**	**3E-06**		**8E-01**		**9E-02**		**2E-06**		**9E-07**	**3E-06**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:

(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Seasonal

Exposure Area: Lincoln Mill Boat Ramp

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	8.44E-06	9.04E-07
Cancer:	7.23E-07	3.10E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	5,070	6,900	7,160	6,377	1.0E+00	--		4.3E-02	4E-02	4.6E-03	5E-03	3.7E-03		1.6E-03			5.8E-02	6E-02	6.2E-03	6E-03	5.0E-03		2.1E-03		
	Antimony	7440360	#N/A	#N/A	#N/A	#N/A	4.0E-04	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Arsenic	7440382	5.9	6.7	5.9	6.2	2.4E-04	1.9E+00	(j)	5.0E-05	2E-01	5.3E-06	2E-02	4.3E-06	8E-06	1.8E-06	3E-06	1E-05	5.7E-05	2E-01	6.1E-06	3E-02	4.8E-06	9E-06	2.1E-06	4E-06	1E-05
	Barium	7440393	35	34	61	43	2.0E-01	--		2.9E-04	1E-03	3.2E-05	2E-04	2.5E-05		1.1E-05			2.8E-04	1E-03	3.0E-05	2E-04	2.4E-05		1.0E-05		
	Beryllium	7440417	0.32	0.43	0.47	0.41	2.0E-03	--		2.7E-06	1E-03	2.9E-07	1E-04	2.3E-07		9.9E-08			3.6E-06	2E-03	3.9E-07	2E-04	3.1E-07		1.3E-07		
	Cadmium	7440439	0.24	0.06	0.06	0.12	1.0E-03	--	(a)	2.0E-06	2E-03	2.1E-07	2E-04	1.7E-07		7.3E-08			4.9E-07	5E-04	5.2E-08	5E-05	4.2E-08		1.8E-08		
	Calcium	7440702	10,300	15,100	11,500	12,300	--	--		8.7E-02		9.3E-03		7.4E-03		3.2E-03			1.3E-01		1.4E-02		1.1E-02		4.7E-03		
	Chromium	7440473	6.2	9.1	9.6	8.3	1.5E+00	--	(b)	5.2E-05	3E-05	5.6E-06	4E-06	4.5E-06		1.9E-06			7.7E-05	5E-05	8.2E-06	5E-06	6.6E-06		2.8E-06		
	Cobalt	7440484	3.0	3.5	14.2	6.9	3.0E-04	--		2.5E-05	8E-02	2.7E-06	9E-03	2.2E-06		9.3E-07			3.0E-05	1E-01	3.2E-06	1E-02	2.5E-06		1.1E-06		
	Copper	7440508	7	10	12	10	4.0E-02	--		6.2E-05	2E-03	6.6E-06	2E-04	5.3E-06		2.3E-06			8.4E-05	2E-03	9.0E-06	2E-04	7.2E-06		3.1E-06		
	Iron	7439896	10,200	12,600	14,200	12,333	7.0E-01	--		8.6E-02	1E-01	9.2E-03	1E-02	7.4E-03		3.2E-03			1.1E-01	2E-01	1.1E-02	2E-02	9.1E-03		3.9E-03		
	Lead	7439921	4	5	6	5			(c)																		
	Magnesium	7439954	5,320	6,240	6,530	6,030	--	--		4.5E-02		4.8E-03		3.8E-03		1.6E-03			5.3E-02		5.6E-03		4.5E-03		1.9E-03		
	Manganese	7439965	217	224	334	258	4.7E-02	--	(d)	1.8E-03	4E-02	2.0E-04	4E-03	1.6E-04		6.7E-05			1.9E-03	4E-02	2.0E-04	4E-03	1.6E-04		6.9E-05		
	Mercury	7439976	0.049	0.055	0.050	0.051	3.0E-04	--	(i)	4.1E-07	1E-03	4.4E-08	1E-04	3.5E-08		1.5E-08			4.6E-07	2E-03	5.0E-08	2E-04	4.0E-08		1.7E-08		
	Nickel	7440020	6.1	7.8	8.5	7.5	2.0E-02	--		5.1E-05	3E-03	5.5E-06	3E-04	4.4E-06		1.9E-06			6.6E-05	3E-03	7.1E-06	4E-04	5.6E-06		2.4E-06		
	Potassium	7440097	1,140	1,410	1,350	1,300	--	--		9.6E-03		1.0E-03		8.2E-04		3.5E-04			1.2E-02		1.3E-03		1.0E-03		4.4E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.47	0.49	0.47	0.47	5.0E-03	--		4.0E-06	8E-04	4.2E-07	8E-05	3.4E-07		1.5E-07			4.1E-06	8E-04	4.4E-07	9E-05	3.5E-07		1.5E-07		
	Sodium	7440235	57	97	98	84	--	--		4.8E-04		5.2E-05		4.1E-05		1.8E-05			8.2E-04		8.8E-05		7.0E-05		3.0E-05		
	Thallium	7440280	1.15	1.20	1.15	1.17	6.5E-05	--		9.7E-06	1E-01	1.0E-06	2E-02	8.3E-07		3.6E-07			1.0E-05	2E-01	1.1E-06	2E-02	8.7E-07		3.7E-07		
	Uranium	7440611	6.3	6.4	6.9	6.5	6.0E-04	--	(e)	5.3E-05	9E-02	5.7E-06	9E-03	4.6E-06		2.0E-06			5.4E-05	9E-02	5.8E-06	1E-02	4.6E-06		2.0E-06		
	Vanadium	7440622	8.4	10.8	13.4	10.9	7.0E-03	--		7.1E-05	1E-02	7.6E-06	1E-03	6.1E-06		2.6E-06			9.1E-05	1E-02	9.8E-06	1E-03	7.8E-06		3.3E-06		
	Zinc	7440666	27	30	36	31	3.0E-01	--		2.2E-04	7E-04	2.4E-05	8E-05	1.9E-05		8.2E-06			2.5E-04	8E-04	2.7E-05	9E-05	2.2E-05		9.3E-06		
									Total		**8E-01**		**8E-02**		**8E-06**		**3E-06**	**1E-05**		**9E-01**		**9E-02**			**9E-06**		**4E-06**	**1E-05**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:

(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Seasonal

Exposure Area: Lincoln Mill Boat Ramp

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	8.44E-06	9.04E-07
Cancer:	7.23E-07	3.10E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	5,070	6,900	7,160	6,377	1.0E+00	--		6.0E-02	6E-02	6.5E-03	6E-03	5.2E-03		2.2E-03			5.4E-02	5E-02	5.8E-03	6E-03	4.6E-03		2.0E-03		
	Antimony	7440360	#N/A	#N/A	#N/A	#N/A	4.0E-04	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Arsenic	7440382	5.9	6.7	5.9	6.2	2.4E-04	1.9E+00	(j)	5.0E-05	2E-01	5.3E-06	2E-02	4.3E-06	8E-06	1.8E-06	3E-06	1E-05	5.2E-05	2E-01	5.6E-06	2E-02	4.5E-06	8E-06	1.9E-06	4E-06	1E-05
	Barium	7440393	35	34	61	43	2.0E-01	--		5.1E-04	3E-03	5.5E-05	3E-04	4.4E-05		1.9E-05			3.6E-04	2E-03	3.9E-05	2E-04	3.1E-05		1.3E-05		
	Beryllium	7440417	0.32	0.43	0.47	0.41	2.0E-03	--		4.0E-06	2E-03	4.2E-07	2E-04	3.4E-07		1.5E-07			3.4E-06	2E-03	3.7E-07	2E-04	2.9E-07		1.3E-07		
	Cadmium	7440439	0.24	0.06	0.06	0.12	1.0E-03	--	(a)	5.4E-07	5E-04	5.8E-08	6E-05	4.6E-08		2.0E-08			1.0E-06	1E-03	1.1E-07	1E-04	8.6E-08		3.7E-08		
	Calcium	7440702	10,300	15,100	11,500	12,300	--	--		9.7E-02		1.0E-02		8.3E-03		3.6E-03			1.0E-01		1.1E-02		8.9E-03		3.8E-03		
	Chromium	7440473	6.2	9.1	9.6	8.3	1.5E+00	--	(b)	8.1E-05	5E-05	8.7E-06	6E-06	6.9E-06		3.0E-06			7.0E-05	5E-05	7.5E-06	5E-06	6.0E-06		2.6E-06		
	Cobalt	7440484	3.0	3.5	14.2	6.9	3.0E-04	--		1.2E-04	4E-01	1.3E-05	4E-02	1.0E-05		4.4E-06			5.8E-05	2E-01	6.2E-06	2E-02	5.0E-06		2.1E-06		
	Copper	7440508	7	10	12	10	4.0E-02	--		9.7E-05	2E-03	1.0E-05	3E-04	8.3E-06		3.6E-06			8.1E-05	2E-03	8.7E-06	2E-04	6.9E-06		3.0E-06		
	Iron	7439896	10,200	12,600	14,200	12,333	7.0E-01	--		1.2E-01	2E-01	1.3E-02	2E-02	1.0E-02		4.4E-03			1.0E-01	1E-01	1.1E-02	2E-02	8.9E-03		3.8E-03		
	Lead	7439921	4	5	6	5			(c)																		
	Magnesium	7439954	5,320	6,240	6,530	6,030	--	--		5.5E-02		5.9E-03		4.7E-03		2.0E-03			5.1E-02		5.5E-03		4.4E-03		1.9E-03		
	Manganese	7439965	217	224	334	258	4.7E-02	--	(d)	2.8E-03	6E-02	3.0E-04	6E-03	2.4E-04		1.0E-04			2.2E-03	5E-02	2.3E-04	5E-03	1.9E-04		8.0E-05		
	Mercury	7439976	0.049	0.055	0.050	0.051	3.0E-04	--	(i)	4.2E-07	1E-03	4.5E-08	2E-04	3.6E-08		1.5E-08			4.3E-07	1E-03	4.6E-08	2E-04	3.7E-08		1.6E-08		
	Nickel	7440020	6.1	7.8	8.5	7.5	2.0E-02	--		7.2E-05	4E-03	7.7E-06	4E-04	6.1E-06		2.6E-06			6.3E-05	3E-03	6.8E-06	3E-04	5.4E-06		2.3E-06		
	Potassium	7440097	1,140	1,410	1,350	1,300	--	--		1.1E-02		1.2E-03		9.8E-04		4.2E-04			1.1E-02		1.2E-03		9.4E-04		4.0E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.47	0.49	0.47	0.47	5.0E-03	--		3.9E-06	8E-04	4.2E-07	8E-05	3.4E-07		1.4E-07			4.0E-06	8E-04	4.3E-07	9E-05	3.4E-07		1.5E-07		
	Sodium	7440235	57	97	98	84	--	--		8.2E-04		8.8E-05		7.1E-05		3.0E-05			7.1E-04		7.6E-05		6.1E-05		2.6E-05		
	Thallium	7440280	1.15	1.20	1.15	1.17	6.5E-05	--		9.7E-06	1E-01	1.0E-06	2E-02	8.3E-07		3.6E-07			9.8E-06	2E-01	1.1E-06	2E-02	8.4E-07		3.6E-07		
	Uranium	7440611	6.3	6.4	6.9	6.5	6.0E-04	--	(e)	5.8E-05	1E-01	6.2E-06	1E-02	5.0E-06		2.1E-06			5.5E-05	9E-02	5.9E-06	1E-02	4.7E-06		2.0E-06		
	Vanadium	7440622	8.4	10.8	13.4	10.9	7.0E-03	--		1.1E-04	2E-02	1.2E-05	2E-03	9.7E-06		4.2E-06			9.2E-05	1E-02	9.8E-06	1E-03	7.9E-06		3.4E-06		
	Zinc	7440666	27	30	36	31	3.0E-01	--		2.5E-04	8E-04	2.7E-05	9E-05	2.2E-05		9.3E-06			2.6E-04	9E-04	2.8E-05	9E-05	2.2E-05		9.5E-06		
									Total		**1E+00**		**1E-01**		**8E-06**		**3E-06**	**1E-05**		**9E-01**		**1E-01**		**8E-06**		**4E-06**	**1E-05**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:

(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Seasonal

Exposure Area: Marcus Island Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	8.44E-06	9.04E-07
Cancer:	7.23E-07	3.10E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	8,600	9,890	7,310	8,600	1.0E+00	--		7.3E-02	7E-02	7.8E-03	8E-03	6.2E-03		2.7E-03			8.3E-02	8E-02	8.9E-03	9E-03	7.2E-03		3.1E-03		
	Antimony	7440360	4.1	2.0	3.1	3.1	4.0E-04	--		3.4E-05	9E-02	3.7E-06	9E-03	2.9E-06		1.3E-06			1.7E-05	4E-02	1.8E-06	5E-03	1.4E-06		6.2E-07		
	Arsenic	7440382	6.5	8.6	3.9	6.3	2.4E-04	1.9E+00	(j)	5.5E-05	2E-01	5.9E-06	2E-02	4.7E-06	9E-06	2.0E-06	4E-06	1E-05	7.3E-05	3E-01	7.8E-06	3E-02	6.2E-06	1E-05	2.7E-06	5E-06	2E-05
	Barium	7440393	258	264	101	208	2.0E-01	--		2.2E-03	1E-02	2.3E-04	1E-03	1.9E-04		8.0E-05			2.2E-03	1E-02	2.4E-04	1E-03	1.9E-04		8.2E-05		
	Beryllium	7440417	0.48	0.56	0.36	0.47	2.0E-03	--		4.1E-06	2E-03	4.3E-07	2E-04	3.5E-07		1.5E-07			4.7E-06	2E-03	5.1E-07	3E-04	4.1E-07		1.7E-07		
	Cadmium	7440439	7.30	5.60	1.60	4.83	1.0E-03	--	(a)	6.2E-05	6E-02	6.6E-06	7E-03	5.3E-06		2.3E-06			4.7E-05	5E-02	5.1E-06	5E-03	4.1E-06		1.7E-06		
	Calcium	7440702	7,520	6,920	7,110	7,183	--	--		6.3E-02		6.8E-03		5.4E-03		2.3E-03			5.8E-02		6.3E-03		5.0E-03		2.1E-03		
	Chromium	7440473	19.7	19.9	14.0	17.9	1.5E+00	--	(b)	1.7E-04	1E-04	1.8E-05	1E-05	1.4E-05		6.1E-06			1.7E-04	1E-04	1.8E-05	1E-05	1.4E-05		6.2E-06		
	Cobalt	7440484	6.8	7.1	5.2	6.4	3.0E-04	--		5.7E-05	2E-01	6.1E-06	2E-02	4.9E-06		2.1E-06			6.0E-05	2E-01	6.4E-06	2E-02	5.1E-06		2.2E-06		
	Copper	7440508	50	58	14	41	4.0E-02	--		4.2E-04	1E-02	4.5E-05	1E-03	3.6E-05		1.6E-05			4.9E-04	1E-02	5.2E-05	1E-03	4.2E-05		1.8E-05		
	Iron	7439896	17,600	23,400	12,700	17,900	7.0E-01	--		1.5E-01	2E-01	1.6E-02	2E-02	1.3E-02		5.5E-03			2.0E-01	3E-01	2.1E-02	3E-02	1.7E-02		7.3E-03		
	Lead	7439921	297	202	52	184			(c)																		
	Magnesium	7439954	6,070	5,390	4,220	5,227	--	--		5.1E-02		5.5E-03		4.4E-03		1.9E-03			4.5E-02		4.9E-03		3.9E-03		1.7E-03		
	Manganese	7439965	214	246	170	210	4.7E-02	--	(d)	1.8E-03	4E-02	1.9E-04	4E-03	1.5E-04		6.6E-05			2.1E-03	4E-02	2.2E-04	5E-03	1.8E-04		7.6E-05		
	Mercury	7439976	0.810	0.470	0.078	0.453	3.0E-04	--	(i)	6.8E-06	2E-02	7.3E-07	2E-03	5.9E-07		2.5E-07			4.0E-06	1E-02	4.2E-07	1E-03	3.4E-07		1.5E-07		
	Nickel	7440020	16.3	16.8	12.9	15.3	2.0E-02	--		1.4E-04	7E-03	1.5E-05	7E-04	1.2E-05		5.1E-06			1.4E-04	7E-03	1.5E-05	8E-04	1.2E-05		5.2E-06		
	Potassium	7440097	1,010	1,020	1,070	1,033	--	--		8.5E-03		9.1E-04		7.3E-04		3.1E-04			8.6E-03		9.2E-04		7.4E-04		3.2E-04		
	Selenium	7782492	2.30	4.30	1.80	2.80	5.0E-03	--		1.9E-05	4E-03	2.1E-06	4E-04	1.7E-06		7.1E-07			3.6E-05	7E-03	3.9E-06	8E-04	3.1E-06		1.3E-06		
	Silver	7440224	0.70	0.65	0.50	0.62	5.0E-03	--		5.9E-06	1E-03	6.3E-07	1E-04	5.1E-07		2.2E-07			5.5E-06	1E-03	5.9E-07	1E-04	4.7E-07		2.0E-07		
	Sodium	7440235	86	134	96	105	--	--		7.3E-04		7.8E-05		6.2E-05		2.7E-05			1.1E-03		1.2E-04		9.7E-05		4.2E-05		
	Thallium	7440280	1.70	1.60	1.30	1.53	6.5E-05	--		1.4E-05	2E-01	1.5E-06	2E-02	1.2E-06		5.3E-07			1.4E-05	2E-01	1.4E-06	2E-02	1.2E-06		5.0E-07		
	Uranium	7440611	13.6	6.7	7.5	9.3	6.0E-04	--	(e)	1.1E-04	2E-01	1.2E-05	2E-02	9.8E-06		4.2E-06			5.7E-05	9E-02	6.1E-06	1E-02	4.8E-06		2.1E-06		
	Vanadium	7440622	24.4	28.5	18.6	23.8	7.0E-03	--		2.1E-04	3E-02	2.2E-05	3E-03	1.8E-05		7.6E-06			2.4E-04	3E-02	2.6E-05	4E-03	2.1E-05		8.8E-06		
	Zinc	7440666	915	620	186	574	3.0E-01	--		7.7E-03	3E-02	8.3E-04	3E-03	6.6E-04		2.8E-04			5.2E-03	2E-02	5.6E-04	2E-03	4.5E-04		1.9E-04		
								Total			**1E+00**		**2E-01**		**9E-06**		**4E-06**	**1E-05**					**1E-05**		**5E-06**	**2E-05**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Seasonal

Exposure Area: Marcus Island Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	8.44E-06	9.04E-07
Cancer:	7.23E-07	3.10E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	8,600	9,890	7,310	8,600	1.0E+00	--		6.2E-02	6E-02	6.6E-03	7E-03	5.3E-03		2.3E-03			7.3E-02	7E-02	7.8E-03	8E-03	6.2E-03		2.7E-03		
	Antimony	7440360	4.1	2.0	3.1	3.1	4.0E-04	--		2.6E-05	7E-02	2.8E-06	7E-03	2.2E-06		9.6E-07			2.6E-05	6E-02	2.8E-06	7E-03	2.2E-06		9.5E-07		
	Arsenic	7440382	6.5	8.6	3.9	6.3	2.4E-04	1.9E+00	(j)	3.3E-05	1E-01	3.5E-06	1E-02	2.8E-06	5E-06	1.2E-06	2E-06	8E-06	5.3E-05	2E-01	5.7E-06	2E-02	4.6E-06	9E-06	2.0E-06	4E-06	1E-05
	Barium	7440393	258	264	101	208	2.0E-01	--		8.5E-04	4E-03	9.1E-05	5E-04	7.3E-05		3.1E-05			1.8E-03	9E-03	1.9E-04	9E-04	1.5E-04		6.4E-05		
	Beryllium	7440417	0.48	0.56	0.36	0.47	2.0E-03	--		3.0E-06	2E-03	3.3E-07	2E-04	2.6E-07		1.1E-07			3.9E-06	2E-03	4.2E-07	2E-04	3.4E-07		1.4E-07		
	Cadmium	7440439	7.30	5.60	1.60	4.83	1.0E-03	--	(a)	1.4E-05	1E-02	1.4E-06	1E-03	1.2E-06		5.0E-07			4.1E-05	4E-02	4.4E-06	4E-03	3.5E-06		1.5E-06		
	Calcium	7440702	7,520	6,920	7,110	7,183	--	--		6.0E-02		6.4E-03		5.1E-03		2.2E-03			6.1E-02		6.5E-03		5.2E-03		2.2E-03		
	Chromium	7440473	19.7	19.9	14.0	17.9	1.5E+00	--	(b)	1.2E-04	8E-05	1.3E-05	8E-06	1.0E-05		4.3E-06			1.5E-04	1E-04	1.6E-05	1E-05	1.3E-05		5.5E-06		
	Cobalt	7440484	6.8	7.1	5.2	6.4	3.0E-04	--		4.4E-05	1E-01	4.7E-06	2E-02	3.8E-06		1.6E-06			5.4E-05	2E-01	5.8E-06	2E-02	4.6E-06		2.0E-06		
	Copper	7440508	50	58	14	41	4.0E-02	--		1.2E-04	3E-03	1.3E-05	3E-04	1.0E-05		4.4E-06			3.4E-04	9E-03	3.7E-05	9E-04	2.9E-05		1.3E-05		
	Iron	7439896	17,600	23,400	12,700	17,900	7.0E-01	--		1.1E-01	2E-01	1.1E-02	2E-02	9.2E-03		3.9E-03			1.5E-01	2E-01	1.6E-02	2E-02	1.3E-02		5.5E-03		
	Lead	7439921	297	202	52	184			(c)																		
	Magnesium	7439954	6,070	5,390	4,220	5,227	--	--		3.6E-02		3.8E-03		3.1E-03		1.3E-03			4.4E-02		4.7E-03		3.8E-03		1.6E-03		
	Manganese	7439965	214	246	170	210	4.7E-02	--	(d)	1.4E-03	3E-02	1.5E-04	3E-03	1.2E-04		5.3E-05			1.8E-03	4E-02	1.9E-04	4E-03	1.5E-04		6.5E-05		
	Mercury	7439976	0.810	0.470	0.078	0.453	3.0E-04	--	(i)	6.6E-07	2E-03	7.1E-08	2E-04	5.6E-08		2.4E-08			3.8E-06	1E-02	4.1E-07	1E-03	3.3E-07		1.4E-07		
	Nickel	7440020	16.3	16.8	12.9	15.3	2.0E-02	--		1.1E-04	5E-03	1.2E-05	6E-04	9.3E-06		4.0E-06			1.3E-04	6E-03	1.4E-05	7E-04	1.1E-05		4.8E-06		
	Potassium	7440097	1,010	1,020	1,070	1,033	--	--		9.0E-03		9.7E-04		7.7E-04		3.3E-04			8.7E-03		9.3E-04		7.5E-04		3.2E-04		
	Selenium	7782492	2.30	4.30	1.80	2.80	5.0E-03	--		1.5E-05	3E-03	1.6E-06	3E-04	1.3E-06		5.6E-07			2.4E-05	5E-03	2.5E-06	5E-04	2.0E-06		8.7E-07		
	Silver	7440224	0.70	0.65	0.50	0.62	5.0E-03	--		4.2E-06	8E-04	4.5E-07	9E-05	3.6E-07		1.5E-07			5.2E-06	1E-03	5.6E-07	1E-04	4.5E-07		1.9E-07		
	Sodium	7440235	86	134	96	105	--	--		8.1E-04		8.7E-05		6.9E-05		3.0E-05			8.9E-04		9.5E-05		7.6E-05		3.3E-05		
	Thallium	7440280	1.70	1.60	1.30	1.53	6.5E-05	--		1.1E-05	2E-01	1.2E-06	2E-02	9.4E-07		4.0E-07			1.3E-05	2E-01	1.4E-06	2E-02	1.1E-06		4.8E-07		
	Uranium	7440611	13.6	6.7	7.5	9.3	6.0E-04	--	(e)	6.3E-05	1E-01	6.8E-06	1E-02	5.4E-06		2.3E-06			7.8E-05	1E-01	8.4E-06	1E-02	6.7E-06		2.9E-06		
	Vanadium	7440622	24.4	28.5	18.6	23.8	7.0E-03	--		1.6E-04	2E-02	1.7E-05	2E-03	1.3E-05		5.8E-06			2.0E-04	3E-02	2.2E-05	3E-03	1.7E-05		7.4E-06		
	Zinc	7440666	915	620	186	574	3.0E-01	--		5.2E-03	2E-02	5.6E-04	2E-03	4.5E-04		1.9E-04			4.8E-03	2E-02	5.2E-04	2E-03	4.1E-04		1.8E-04		
									Total		**9E-01**		**1E-01**		**5E-06**		**2E-06**	**8E-06**		**1E+00**		**1E-01**		**9E-06**		**4E-06**	**1E-05**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Seasonal

Exposure Area: North Gorge Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	8.44E-06	9.04E-07
Cancer:	7.23E-07	3.10E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	7,060	7,880	4,350	6,430	1.0E+00	--		6.0E-02	6E-02	6.4E-03	6E-03	5.1E-03		2.2E-03			6.6E-02	7E-02	7.1E-03	7E-03	5.7E-03		2.4E-03		
	Antimony	7440360	6.4	3.6	0.5	3.5	4.0E-04	--		5.4E-05	1E-01	5.8E-06	1E-02	4.6E-06		2.0E-06			3.0E-05	8E-02	3.3E-06	8E-03	2.6E-06		1.1E-06		
	Arsenic	7440382	10.7	9.6	5.0	8.4	2.4E-04	1.9E+00	(j)	9.0E-05	4E-01	9.7E-06	4E-02	7.7E-06	1E-05	3.3E-06	6E-06	2E-05	8.1E-05	3E-01	8.7E-06	4E-02	6.9E-06	1E-05	3.0E-06	6E-06	2E-05
	Barium	7440393	407	315	102	275	2.0E-01	--		3.4E-03	2E-02	3.7E-04	2E-03	2.9E-04		1.3E-04			2.7E-03	1E-02	2.8E-04	1E-03	2.3E-04		9.8E-05		
	Beryllium	7440417	0.48	0.53	0.28	0.43	2.0E-03	--		4.1E-06	2E-03	4.3E-07	2E-04	3.5E-07		1.5E-07			4.5E-06	2E-03	4.8E-07	2E-04	3.8E-07		1.6E-07		
	Cadmium	7440439	4.20	4.20	1.10	3.17	1.0E-03	--	(a)	3.5E-05	4E-02	3.8E-06	4E-03	3.0E-06		1.3E-06			3.5E-05	4E-02	3.8E-06	4E-03	3.0E-06		1.3E-06		
	Calcium	7440702	24,700	15,400	6,090	15,397	--	--		2.1E-01		2.2E-02		1.8E-02		7.7E-03			1.3E-01		1.4E-02		1.1E-02		4.8E-03		
	Chromium	7440473	24.9	22.8	15.1	20.9	1.5E+00	--	(b)	2.1E-04	1E-04	2.3E-05	2E-05	1.8E-05		7.7E-06			1.9E-04	1E-04	2.1E-05	1E-05	1.6E-05		7.1E-06		
	Cobalt	7440484	9.8	8.5	4.3	7.5	3.0E-04	--		8.3E-05	3E-01	8.9E-06	3E-02	7.1E-06		3.0E-06			7.2E-05	2E-01	7.7E-06	3E-02	6.1E-06		2.6E-06		
	Copper	7440508	216	132	23	124	4.0E-02	--		1.8E-03	5E-02	2.0E-04	5E-03	1.6E-04		6.7E-05			1.1E-03	3E-02	1.2E-04	3E-03	9.5E-05		4.1E-05		
	Iron	7439896	29,500	23,500	16,000	23,000	7.0E-01	--		2.5E-01	4E-01	2.7E-02	4E-02	2.1E-02		9.1E-03			2.0E-01	3E-01	2.1E-02	3E-02	1.7E-02		7.3E-03		
	Lead	7439921	216	223	69	169			(c)																		
	Magnesium	7439954	13,900	10,200	4,140	9,413	--	--		1.2E-01		1.3E-02		1.0E-02		4.3E-03			8.6E-02		9.2E-03		7.4E-03		3.2E-03		
	Manganese	7439965	434	270	171	292	4.7E-02	--	(d)	3.7E-03	8E-02	3.9E-04	8E-03	3.1E-04		1.3E-04			2.3E-03	5E-02	2.4E-04	5E-03	2.0E-04		8.4E-05		
	Mercury	7439976	0.370	0.400	0.068	0.279	3.0E-04	--	(i)	3.1E-06	1E-02	3.3E-07	1E-03	2.7E-07		1.1E-07			3.4E-06	1E-02	3.6E-07	1E-03	2.9E-07		1.2E-07		
	Nickel	7440020	15.3	17.2	9.6	14.0	2.0E-02	--		1.3E-04	6E-03	1.4E-05	7E-04	1.1E-05		4.7E-06			1.5E-04	7E-03	1.6E-05	8E-04	1.2E-05		5.3E-06		
	Potassium	7440097	1,190	1,220	624	1,011	--	--		1.0E-02		1.1E-03		8.6E-04		3.7E-04			1.0E-02		1.1E-03		8.8E-04		3.8E-04		
	Selenium	7782492	3.00	2.70	1.10	2.27	5.0E-03	--		2.5E-05	5E-03	2.7E-06	5E-04	2.2E-06		9.3E-07			2.3E-05	5E-03	2.4E-06	5E-04	2.0E-06		8.4E-07		
	Silver	7440224	0.60	0.70	0.50	0.60	5.0E-03	--		5.1E-06	1E-03	5.4E-07	1E-04	4.3E-07		1.9E-07			5.9E-06	1E-03	6.3E-07	1E-04	5.1E-07		2.2E-07		
	Sodium	7440235	170	134	89	131	--	--		1.4E-03		1.5E-04		1.2E-04		5.3E-05			1.1E-03		1.2E-04		9.7E-05		4.2E-05		
	Thallium	7440280	1.55	1.70	1.30	1.52	6.5E-05	--		1.3E-05	2E-01	1.4E-06	2E-02	1.1E-06		4.8E-07			1.4E-05	2E-01	1.5E-06	2E-02	1.2E-06		5.3E-07		
	Uranium	7440611	14.2	11.2	5.7	10.4	6.0E-04	--	(e)	1.2E-04	2E-01	1.3E-05	2E-02	1.0E-05		4.4E-06			9.5E-05	2E-01	1.0E-05	2E-02	8.1E-06		3.5E-06		
	Vanadium	7440622	26.9	27.4	27.9	27.4	7.0E-03	--		2.3E-04	3E-02	2.4E-05	3E-03	1.9E-05		8.3E-06			2.3E-04	3E-02	2.5E-05	4E-03	2.0E-05		8.5E-06		
	Zinc	7440666	1,700	1,060	352	1,037	3.0E-01	--		1.4E-02	5E-02	1.5E-03	5E-03	1.2E-03		5.3E-04			8.9E-03	3E-02	9.6E-04	3E-03	7.7E-04		3.3E-04		
									Total		**2E+00**		**2E-01**		**1E-05**		**6E-06**	**2E-05**		**2E+00**		**2E-01**		**1E-05**		**6E-06**	**2E-05**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Seasonal

Exposure Area: North Gorge Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	8.44E-06	9.04E-07
Cancer:	7.23E-07	3.10E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	7,060	7,880	4,350	6,430	1.0E+00	--		3.7E-02	4E-02	3.9E-03	4E-03	3.1E-03		1.3E-03			5.4E-02	5E-02	5.8E-03	6E-03	4.7E-03		2.0E-03		
	Antimony	7440360	6.4	3.6	0.5	3.5	4.0E-04	--		4.0E-06	1E-02	4.2E-07	1E-03	3.4E-07		1.5E-07			2.9E-05	7E-02	3.2E-06	8E-03	2.5E-06		1.1E-06		
	Arsenic	7440382	10.7	9.6	5.0	8.4	2.4E-04	1.9E+00	(j)	4.2E-05	2E-01	4.5E-06	2E-02	3.6E-06	7E-06	1.5E-06	3E-06	1E-05	7.1E-05	3E-01	7.6E-06	3E-02	6.1E-06	1E-05	2.6E-06	5E-06	2E-05
	Barium	7440393	407	315	102	275	2.0E-01	--		8.6E-04	4E-03	9.2E-05	5E-04	7.4E-05		3.2E-05			2.3E-03	1E-02	2.5E-04	1E-03	2.0E-04		8.5E-05		
	Beryllium	7440417	0.48	0.53	0.28	0.43	2.0E-03	--		2.4E-06	1E-03	2.5E-07	1E-04	2.0E-07		8.7E-08			3.6E-06	2E-03	3.9E-07	2E-04	3.1E-07		1.3E-07		
	Cadmium	7440439	4.20	4.20	1.10	3.17	1.0E-03	--	(a)	9.3E-06	9E-03	9.9E-07	1E-03	8.0E-07		3.4E-07			2.7E-05	3E-02	2.9E-06	3E-03	2.3E-06		9.8E-07		
	Calcium	7440702	24,700	15,400	6,090	15,397	--	--		5.1E-02		5.5E-03		4.4E-03		1.9E-03			1.3E-01		1.4E-02		1.1E-02		4.8E-03		
	Chromium	7440473	24.9	22.8	15.1	20.9	1.5E+00	--	(b)	1.3E-04	8E-05	1.4E-05	9E-06	1.1E-05		4.7E-06			1.8E-04	1E-04	1.9E-05	1E-05	1.5E-05		6.5E-06		
	Cobalt	7440484	9.8	8.5	4.3	7.5	3.0E-04	--		3.6E-05	1E-01	3.9E-06	1E-02	3.1E-06		1.3E-06			6.4E-05	2E-01	6.8E-06	2E-02	5.4E-06		2.3E-06		
	Copper	7440508	216	132	23	124	4.0E-02	--		1.9E-04	5E-03	2.1E-05	5E-04	1.7E-05		7.1E-06			1.0E-03	3E-02	1.1E-04	3E-03	8.9E-05		3.8E-05		
	Iron	7439896	29,500	23,500	16,000	23,000	7.0E-01	--		1.4E-01	2E-01	1.4E-02	2E-02	1.2E-02		5.0E-03			1.9E-01	3E-01	2.1E-02	3E-02	1.7E-02		7.1E-03		
	Lead	7439921	216	223	69	169			(c)																		
	Magnesium	7439954	13,900	10,200	4,140	9,413	--	--		3.5E-02		3.7E-03		3.0E-03		1.3E-03			7.9E-02		8.5E-03		6.8E-03		2.9E-03		
	Manganese	7439965	434	270	171	292	4.7E-02	--	(d)	1.4E-03	3E-02	1.5E-04	3E-03	1.2E-04		5.3E-05			2.5E-03	5E-02	2.6E-04	6E-03	2.1E-04		9.0E-05		
	Mercury	7439976	0.370	0.400	0.068	0.279	3.0E-04	--	(i)	5.7E-07	2E-03	6.1E-08	2E-04	4.9E-08		2.1E-08			2.4E-06	8E-03	2.5E-07	8E-04	2.0E-07		8.7E-08		
	Nickel	7440020	15.3	17.2	9.6	14.0	2.0E-02	--		8.1E-05	4E-03	8.7E-06	4E-04	6.9E-06		3.0E-06			1.2E-04	6E-03	1.3E-05	6E-04	1.0E-05		4.4E-06		
	Potassium	7440097	1,190	1,220	624	1,011	--	--		5.3E-03		5.6E-04		4.5E-04		1.9E-04			8.5E-03		9.1E-04		7.3E-04		3.1E-04		
	Selenium	7782492	3.00	2.70	1.10	2.27	5.0E-03	--		9.3E-06	2E-03	9.9E-07	2E-04	8.0E-07		3.4E-07			1.9E-05	4E-03	2.0E-06	4E-04	1.6E-06		7.0E-07		
	Silver	7440224	0.60	0.70	0.50	0.60	5.0E-03	--		4.2E-06	8E-04	4.5E-07	9E-05	3.6E-07		1.5E-07			5.1E-06	1E-03	5.4E-07	1E-04	4.3E-07		1.9E-07		
	Sodium	7440235	170	134	89	131	--	--		7.5E-04		8.0E-05		6.4E-05		2.7E-05			1.1E-03		1.2E-04		9.5E-05		4.1E-05		
	Thallium	7440280	1.55	1.70	1.30	1.52	6.5E-05	--		1.1E-05	2E-01	1.2E-06	2E-02	9.4E-07		4.0E-07			1.3E-05	2E-01	1.4E-06	2E-02	1.1E-06		4.7E-07		
	Uranium	7440611	14.2	11.2	5.7	10.4	6.0E-04	--	(e)	4.8E-05	8E-02	5.2E-06	9E-03	4.1E-06		1.8E-06			8.7E-05	1E-01	9.4E-06	2E-02	7.5E-06		3.2E-06		
	Vanadium	7440622	26.9	27.4	27.9	27.4	7.0E-03	--		2.4E-04	3E-02	2.5E-05	4E-03	2.0E-05		8.6E-06			2.3E-04	3E-02	2.5E-05	4E-03	2.0E-05		8.5E-06		
	Zinc	7440666	1,700	1,060	352	1,037	3.0E-01	--		8.9E-03	3E-02	9.6E-04	3E-03	7.7E-04		3.3E-04			8.8E-03	3E-02	9.4E-04	3E-03	7.5E-04		3.2E-04		
									Total		**9E-01**		**1E-01**		**7E-06**		**3E-06**	**1E-05**		**1E+00**		**2E-01**		**1E-05**		**5E-06**	**2E-05**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**			

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:

(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Seasonal

Exposure Area: Northport Boat Launch

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	8.44E-06	9.04E-07
Cancer:	7.23E-07	3.10E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	11,923	12,493	9,843	11,420	1.0E+00	--		1.0E-01	1E-01	1.1E-02	1E-02	8.6E-03		3.7E-03			1.1E-01	1E-01	1.1E-02	1E-02	9.0E-03		3.9E-03		
	Antimony	7440360	22.9	27.2	21.5	23.9	4.0E-04	--		1.9E-04	5E-01	2.1E-05	5E-02	1.7E-05		7.1E-06			2.3E-04	6E-01	2.5E-05	6E-02	2.0E-05		8.4E-06		
	Arsenic	7440382	17.3	14.3	10.7	14.1	2.4E-04	1.9E+00	(j)	1.5E-04	6E-01	1.6E-05	7E-02	1.3E-05	2E-05	5.4E-06	1E-05	3E-05	1.2E-04	5E-01	1.3E-05	5E-02	1.0E-05	2E-05	4.4E-06	8E-06	3E-05
	Barium	7440393	1,062	1,036	848	982	2.0E-01	--		9.0E-03	4E-02	9.6E-04	5E-03	7.7E-04		3.3E-04			8.7E-03	4E-02	9.4E-04	5E-03	7.5E-04		3.2E-04		
	Beryllium	7440417	0.94	0.94	0.82	0.90	2.0E-03	--		7.9E-06	4E-03	8.5E-07	4E-04	6.8E-07		2.9E-07			7.9E-06	4E-03	8.5E-07	4E-04	6.8E-07		2.9E-07		
	Cadmium	7440439	2.99	2.39	2.25	2.54	1.0E-03	--	(a)	2.5E-05	3E-02	2.7E-06	3E-03	2.2E-06		9.3E-07			2.0E-05	2E-02	2.2E-06	2E-03	1.7E-06		7.4E-07		
	Calcium	7440702	52,267	49,967	37,967	46,733	--	--		4.4E-01		4.7E-02		3.8E-02		1.6E-02			4.2E-01		4.5E-02		3.6E-02		1.5E-02		
	Chromium	7440473	68.4	66.2	50.7	61.8	1.5E+00	--	(b)	5.8E-04	4E-04	6.2E-05	4E-05	4.9E-05		2.1E-05			5.6E-04	4E-04	6.0E-05	4E-05	4.8E-05		2.1E-05		
	Cobalt	7440484	27.4	27.5	21.5	25.5	3.0E-04	--		2.3E-04	8E-01	2.5E-05	8E-02	2.0E-05		8.5E-06			2.3E-04	8E-01	2.5E-05	8E-02	2.0E-05		8.5E-06		
	Copper	7440508	1,382	1,182	833	1,132	4.0E-02	--		1.2E-02	3E-01	1.2E-03	3E-02	1.0E-03		4.3E-04			1.0E-02	2E-01	1.1E-03	3E-02	8.5E-04		3.7E-04		
	Iron	7439896	113,367	108,233	75,267	98,956	7.0E-01	--		9.6E-01	1E+00	1.0E-01	1E-01	8.2E-02		3.5E-02			9.1E-01	1E+00	9.8E-02	1E-01	7.8E-02		3.4E-02		
	Lead	7439921	309	256	186	250			(c)																		
	Magnesium	7439954	12,000	12,357	11,447	11,934	--	--		1.0E-01		1.1E-02		8.7E-03		3.7E-03			1.0E-01		1.1E-02		8.9E-03		3.8E-03		
	Manganese	7439965	2,138	2,004	1,446	1,862	4.7E-02	--	(d)	1.8E-02	4E-01	1.9E-03	4E-02	1.5E-03		6.6E-04			1.7E-02	4E-01	1.8E-03	4E-02	1.4E-03		6.2E-04		
	Mercury	7439976	0.102	0.099	0.075	0.092	3.0E-04	--	(i)	8.6E-07	3E-03	9.3E-08	3E-04	7.4E-08		3.2E-08			8.4E-07	3E-03	9.0E-08	3E-04	7.2E-08		3.1E-08		
	Nickel	7440020	13.3	13.0	12.8	13.1	2.0E-02	--		1.1E-04	6E-03	1.2E-05	6E-04	9.6E-06		4.1E-06			1.1E-04	5E-03	1.2E-05	6E-04	9.4E-06		4.0E-06		
	Potassium	7440097	2,410	2,403	1,943	2,252	--	--		2.0E-02		2.2E-03		1.7E-03		7.5E-04			2.0E-02		2.2E-03		1.7E-03		7.4E-04		
	Selenium	7782492	1.82	1.75	1.90	1.82	5.0E-03	--		1.5E-05	3E-03	1.6E-06	3E-04	1.3E-06		5.6E-07			1.5E-05	3E-03	1.6E-06	3E-04	1.3E-06		5.4E-07		
	Silver	7440224	0.53	0.51	0.53	0.52	5.0E-03	--		4.4E-06	9E-04	4.7E-07	9E-05	3.8E-07		1.6E-07			4.3E-06	9E-04	4.6E-07	9E-05	3.7E-07		1.6E-07		
	Sodium	7440235	1,130	1,147	767	1,015	--	--		9.5E-03		1.0E-03		8.2E-04		3.5E-04			9.7E-03		1.0E-03		8.3E-04		3.6E-04		
	Thallium	7440280	1.30	1.27	1.37	1.31	6.5E-05	--		1.1E-05	2E-01	1.2E-06	2E-02	9.4E-07		4.0E-07			1.1E-05	2E-01	1.1E-06	2E-02	9.2E-07		3.9E-07		
	Uranium	7440611	10.5	10.1	10.9	10.5	6.0E-04	--	(e)	8.8E-05	1E-01	9.4E-06	2E-02	7.6E-06		3.2E-06			8.5E-05	1E-01	9.1E-06	2E-02	7.3E-06		3.1E-06		
	Vanadium	7440622	28.4	31.2	27.9	29.1	7.0E-03	--		2.4E-04	3E-02	2.6E-05	4E-03	2.1E-05		8.8E-06			2.6E-04	4E-02	2.8E-05	4E-03	2.3E-05		9.7E-06		
	Zinc	7440666	9,623	8,543	5,947	8,038	3.0E-01	--		8.1E-02	3E-01	8.7E-03	3E-02	7.0E-03		3.0E-03			7.2E-02	2E-01	7.7E-03	3E-02	6.2E-03		2.6E-03		
									Total		**5E+00**		**5E-01**		**2E-05**		**1E-05**	**3E-05**		**5E+00**		**5E-01**		**2E-05**		**8E-06**	**3E-05**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**			

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:

(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Seasonal

Exposure Area: Northport Boat Launch

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	8.44E-06	9.04E-07
Cancer:	7.23E-07	3.10E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	11,923	12,493	9,843	11,420	1.0E+00	--		8.3E-02	8E-02	8.9E-03	9E-03	7.1E-03		3.1E-03			9.6E-02	1E-01	1.0E-02	1E-02	8.3E-03		3.5E-03		
	Antimony	7440360	22.9	27.2	21.5	23.9	4.0E-04	--		1.8E-04	5E-01	1.9E-05	5E-02	1.6E-05		6.7E-06			2.0E-04	5E-01	2.2E-05	5E-02	1.7E-05		7.4E-06		
	Arsenic	7440382	17.3	14.3	10.7	14.1	2.4E-04	1.9E+00	(j)	9.0E-05	4E-01	9.6E-06	4E-02	7.7E-06	1E-05	3.3E-06	6E-06	2E-05	1.2E-04	5E-01	1.3E-05	5E-02	1.0E-05	2E-05	4.4E-06	8E-06	3E-05
	Barium	7440393	1,062	1,036	848	982	2.0E-01	--		7.2E-03	4E-02	7.7E-04	4E-03	6.1E-04		2.6E-04			8.3E-03	4E-02	8.9E-04	4E-03	7.1E-04		3.0E-04		
	Beryllium	7440417	0.94	0.94	0.82	0.90	2.0E-03	--		6.9E-06	3E-03	7.4E-07	4E-04	5.9E-07		2.5E-07			7.6E-06	4E-03	8.1E-07	4E-04	6.5E-07		2.8E-07		
	Cadmium	7440439	2.99	2.39	2.25	2.54	1.0E-03	--	(a)	1.9E-05	2E-02	2.0E-06	2E-03	1.6E-06		7.0E-07			2.1E-05	2E-02	2.3E-06	2E-03	1.8E-06		7.9E-07		
	Calcium	7440702	52,267	49,967	37,967	46,733	--	--		3.2E-01		3.4E-02		2.7E-02		1.2E-02			3.9E-01		4.2E-02		3.4E-02		1.4E-02		
	Chromium	7440473	68.4	66.2	50.7	61.8	1.5E+00	--	(b)	4.3E-04	3E-04	4.6E-05	3E-05	3.7E-05		1.6E-05			5.2E-04	3E-04	5.6E-05	4E-05	4.5E-05		1.9E-05		
	Cobalt	7440484	27.4	27.5	21.5	25.5	3.0E-04	--		1.8E-04	6E-01	1.9E-05	6E-02	1.6E-05		6.7E-06			2.1E-04	7E-01	2.3E-05	8E-02	1.8E-05		7.9E-06		
	Copper	7440508	1,382	1,182	833	1,132	4.0E-02	--		7.0E-03	2E-01	7.5E-04	2E-02	6.0E-04		2.6E-04			9.6E-03	2E-01	1.0E-03	3E-02	8.2E-04		3.5E-04		
	Iron	7439896	113,367	108,233	75,267	98,956	7.0E-01	--		6.4E-01	9E-01	6.8E-02	1E-01	5.4E-02		2.3E-02			8.4E-01	1E+00	8.9E-02	1E-01	7.2E-02		3.1E-02		
	Lead	7439921	309	256	186	250			(c)																		
	Magnesium	7439954	12,000	12,357	11,447	11,934	--	--		9.7E-02		1.0E-02		8.3E-03		3.5E-03			1.0E-01		1.1E-02		8.6E-03		3.7E-03		
	Manganese	7439965	2,138	2,004	1,446	1,862	4.7E-02	--	(d)	1.2E-02	3E-01	1.3E-03	3E-02	1.0E-03		4.5E-04			1.6E-02	3E-01	1.7E-03	4E-02	1.3E-03		5.8E-04		
	Mercury	7439976	0.102	0.099	0.075	0.092	3.0E-04	--	(i)	6.3E-07	2E-03	6.8E-08	2E-04	5.4E-08		2.3E-08			7.8E-07	3E-03	8.3E-08	3E-04	6.7E-08		2.9E-08		
	Nickel	7440020	13.3	13.0	12.8	13.1	2.0E-02	--		1.1E-04	5E-03	1.2E-05	6E-04	9.3E-06		4.0E-06			1.1E-04	6E-03	1.2E-05	6E-04	9.4E-06		4.0E-06		
	Potassium	7440097	2,410	2,403	1,943	2,252	--	--		1.6E-02		1.8E-03		1.4E-03		6.0E-04			1.9E-02		2.0E-03		1.6E-03		7.0E-04		
	Selenium	7782492	1.82	1.75	1.90	1.82	5.0E-03	--		1.6E-05	3E-03	1.7E-06	3E-04	1.4E-06		5.9E-07			1.5E-05	3E-03	1.6E-06	3E-04	1.3E-06		5.6E-07		
	Silver	7440224	0.53	0.51	0.53	0.52	5.0E-03	--		4.5E-06	9E-04	4.8E-07	1E-04	3.9E-07		1.7E-07			4.4E-06	9E-04	4.7E-07	9E-05	3.8E-07		1.6E-07		
	Sodium	7440235	1,130	1,147	767	1,015	--	--		6.5E-03		6.9E-04		5.5E-04		2.4E-04			8.6E-03		9.2E-04		7.3E-04		3.1E-04		
	Thallium	7440280	1.30	1.27	1.37	1.31	6.5E-05	--		1.2E-05	2E-01	1.2E-06	2E-02	9.9E-07		4.2E-07			1.1E-05	2E-01	1.2E-06	2E-02	9.5E-07		4.1E-07		
	Uranium	7440611	10.5	10.1	10.9	10.5	6.0E-04	--	(e)	9.2E-05	2E-01	9.8E-06	2E-02	7.9E-06		3.4E-06			8.8E-05	1E-01	9.5E-06	2E-02	7.6E-06		3.2E-06		
	Vanadium	7440622	28.4	31.2	27.9	29.1	7.0E-03	--		2.4E-04	3E-02	2.5E-05	4E-03	2.0E-05		8.6E-06			2.5E-04	4E-02	2.6E-05	4E-03	2.1E-05		9.0E-06		
	Zinc	7440666	9,623	8,543	5,947	8,038	3.0E-01	--		7.2E-02	2E-01	7.7E-03	3E-02	6.2E-03		2.6E-03			6.8E-02	2E-01	7.3E-03	2E-02	5.8E-03		2.5E-03		
									Total		4E+00		4E-01		1E-05		6E-06	2E-05		4E+00		5E-01		2E-05		8E-06	3E-05
										Total HQ or Risks > LOPC?:				Yes					Total HQ or Risks > LOPC?:				Yes				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Seasonal

Exposure Area: Rogers Bar Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	8.44E-06	9.04E-07
Cancer:	7.23E-07	3.10E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	2,760	5,810	4,810	4,460	1.0E+00	--		2.3E-02	2E-02	2.5E-03	2E-03	2.0E-03		8.6E-04			4.9E-02	5E-02	5.3E-03	5E-03	4.2E-03		1.8E-03		
	Antimony	7440360	#N/A	#N/A	#N/A	#N/A	4.0E-04	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Arsenic	7440382	0.5	1.9	2.2	1.5	2.4E-04	1.9E+00	(j)	4.1E-06	2E-02	4.4E-07	2E-03	3.5E-07	7E-07	1.5E-07	3E-07	9E-07	1.6E-05	7E-02	1.7E-06	7E-03	1.4E-06	3E-06	5.9E-07	1E-06	4E-06
	Barium	7440393	21	53	38	37	2.0E-01	--		1.7E-04	9E-04	1.9E-05	9E-05	1.5E-05		6.4E-06			4.5E-04	2E-03	4.8E-05	2E-04	3.9E-05		1.7E-05		
	Beryllium	7440417	0.21	0.44	0.37	0.34	2.0E-03	--		1.8E-06	9E-04	1.9E-07	9E-05	1.5E-07		6.5E-08			3.7E-06	2E-03	4.0E-07	2E-04	3.2E-07		1.4E-07		
	Cadmium	7440439	0.06	0.11	0.22	0.13	1.0E-03	--	(a)	4.7E-07	5E-04	5.1E-08	5E-05	4.1E-08		1.7E-08			9.3E-07	9E-04	9.9E-08	1E-04	8.0E-08		3.4E-08		
	Calcium	7440702	1,670	1,700	1,580	1,650	--	--		1.4E-02		1.5E-03		1.2E-03		5.2E-04			1.4E-02		1.5E-03		1.2E-03		5.3E-04		
	Chromium	7440473	5.7	13.2	9.6	9.5	1.5E+00	--	(b)	4.8E-05	3E-05	5.2E-06	3E-06	4.1E-06		1.8E-06			1.1E-04	7E-05	1.2E-05	8E-06	9.5E-06		4.1E-06		
	Cobalt	7440484	2.1	4.1	3.7	3.3	3.0E-04	--		1.8E-05	6E-02	1.9E-06	6E-03	1.5E-06		6.5E-07			3.5E-05	1E-01	3.7E-06	1E-02	3.0E-06		1.3E-06		
	Copper	7440508	5	9	7	7	4.0E-02	--		4.1E-05	1E-03	4.4E-06	1E-04	3.5E-06		1.5E-06			7.6E-05	2E-03	8.1E-06	2E-04	6.5E-06		2.8E-06		
	Iron	7439896	4,930	9,800	9,720	8,150	7.0E-01	--		4.2E-02	6E-02	4.5E-03	6E-03	3.6E-03		1.5E-03			8.3E-02	1E-01	8.9E-03	1E-02	7.1E-03		3.0E-03		
	Lead	7439921	3	5	5	5			(c)																		
	Magnesium	7439954	1,540	2,590	2,390	2,173	--	--		1.3E-02		1.4E-03		1.1E-03		4.8E-04			2.2E-02		2.3E-03		1.9E-03		8.0E-04		
	Manganese	7439965	95	157	134	129	4.7E-02	--	(d)	8.0E-04	2E-02	8.6E-05	2E-03	6.9E-05		3.0E-05			1.3E-03	3E-02	1.4E-04	3E-03	1.1E-04		4.9E-05		
	Mercury	7439976	0.050	0.055	0.050	0.052	3.0E-04	--	(i)	4.2E-07	1E-03	4.5E-08	2E-04	3.6E-08		1.5E-08			4.6E-07	2E-03	5.0E-08	2E-04	4.0E-08		1.7E-08		
	Nickel	7440020	5.1	10.2	9.0	8.1	2.0E-02	--		4.3E-05	2E-03	4.6E-06	2E-04	3.7E-06		1.6E-06			8.6E-05	4E-03	9.2E-06	5E-04	7.4E-06		3.2E-06		
	Potassium	7440097	317	719	519	518	--	--		2.7E-03		2.9E-04		2.3E-04		9.8E-05			6.1E-03		6.5E-04		5.2E-04		2.2E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.49	0.55	0.50	0.51	5.0E-03	--		4.1E-06	8E-04	4.4E-07	9E-05	3.5E-07		1.5E-07			4.6E-06	9E-04	5.0E-07	1E-04	4.0E-07		1.7E-07		
	Sodium	7440235	58	98	88	81	--	--		4.9E-04		5.3E-05		4.2E-05		1.8E-05			8.3E-04		8.8E-05		7.1E-05		3.0E-05		
	Thallium	7440280	1.20	1.35	1.25	1.27	6.5E-05	--		1.0E-05	2E-01	1.1E-06	2E-02	8.7E-07		3.7E-07			1.1E-05	2E-01	1.2E-06	2E-02	9.8E-07		4.2E-07		
	Uranium	7440611	9.7	9.8	10.1	9.9	6.0E-04	--	(e)	8.2E-05	1E-01	8.8E-06	1E-02	7.0E-06		3.0E-06			8.3E-05	1E-01	8.9E-06	1E-02	7.1E-06		3.0E-06		
	Vanadium	7440622	8.7	16.2	16.7	13.9	7.0E-03	--		7.3E-05	1E-02	7.9E-06	1E-03	6.3E-06		2.7E-06			1.4E-04	2E-02	1.5E-05	2E-03	1.2E-05		5.0E-06		
	Zinc	7440666	21	33	47	34	3.0E-01	--		1.8E-04	6E-04	1.9E-05	6E-05	1.5E-05		6.6E-06			2.8E-04	9E-04	3.0E-05	1E-04	2.4E-05		1.0E-05		
									Total		**5E-01**		**5E-02**		**7E-07**		**3E-07**	**9E-07**		**7E-01**		**8E-02**		**3E-06**		**1E-06**	**4E-06**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Seasonal

Exposure Area: Rogers Bar Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	8.44E-06	9.04E-07
Cancer:	7.23E-07	3.10E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	2,760	5,810	4,810	4,460	1.0E+00	--		4.1E-02	4E-02	4.3E-03	4E-03	3.5E-03		1.5E-03			3.8E-02	4E-02	4.0E-03	4E-03	3.2E-03		1.4E-03		
	Antimony	7440360	#N/A	#N/A	#N/A	#N/A	4.0E-04	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Arsenic	7440382	0.5	1.9	2.2	1.5	2.4E-04	1.9E+00	(j)	1.9E-05	8E-02	2.0E-06	8E-03	1.6E-06	3E-06	6.8E-07	1E-06	4E-06	1.3E-05	5E-02	1.4E-06	6E-03	1.1E-06	2E-06	4.7E-07	9E-07	3E-06
	Barium	7440393	21	53	38	37	2.0E-01	--		3.2E-04	2E-03	3.4E-05	2E-04	2.7E-05		1.2E-05			3.1E-04	2E-03	3.4E-05	2E-04	2.7E-05		1.2E-05		
	Beryllium	7440417	0.21	0.44	0.37	0.34	2.0E-03	--		3.1E-06	2E-03	3.3E-07	2E-04	2.7E-07		1.1E-07			2.9E-06	1E-03	3.1E-07	2E-04	2.5E-07		1.1E-07		
	Cadmium	7440439	0.06	0.11	0.22	0.13	1.0E-03	--	(a)	1.9E-06	2E-03	2.0E-07	2E-04	1.6E-07		6.8E-08			1.1E-06	1E-03	1.2E-07	1E-04	9.3E-08		4.0E-08		
	Calcium	7440702	1,670	1,700	1,580	1,650	--	--		1.3E-02		1.4E-03		1.1E-03		4.9E-04			1.4E-02		1.5E-03		1.2E-03		5.1E-04		
	Chromium	7440473	5.7	13.2	9.6	9.5	1.5E+00	--	(b)	8.1E-05	5E-05	8.7E-06	6E-06	6.9E-06		3.0E-06			8.0E-05	5E-05	8.6E-06	6E-06	6.9E-06		2.9E-06		
	Cobalt	7440484	2.1	4.1	3.7	3.3	3.0E-04	--		3.1E-05	1E-01	3.3E-06	1E-02	2.7E-06		1.1E-06			2.8E-05	9E-02	3.0E-06	1E-02	2.4E-06		1.0E-06		
	Copper	7440508	5	9	7	7	4.0E-02	--		6.2E-05	2E-03	6.7E-06	2E-04	5.4E-06		2.3E-06			6.0E-05	1E-03	6.4E-06	2E-04	5.1E-06		2.2E-06		
	Iron	7439896	4,930	9,800	9,720	8,150	7.0E-01	--		8.2E-02	1E-01	8.8E-03	1E-02	7.0E-03		3.0E-03			6.9E-02	1E-01	7.4E-03	1E-02	5.9E-03		2.5E-03		
	Lead	7439921	3	5	5	5			(c)																		
	Magnesium	7439954	1,540	2,590	2,390	2,173	--	--		2.0E-02		2.2E-03		1.7E-03		7.4E-04			1.8E-02		2.0E-03		1.6E-03		6.7E-04		
	Manganese	7439965	95	157	134	129	4.7E-02	--	(d)	1.1E-03	2E-02	1.2E-04	3E-03	9.7E-05		4.2E-05			1.1E-03	2E-02	1.2E-04	2E-03	9.3E-05		4.0E-05		
	Mercury	7439976	0.050	0.055	0.050	0.052	3.0E-04	--	(i)	4.2E-07	1E-03	4.5E-08	2E-04	3.6E-08		1.5E-08			4.4E-07	1E-03	4.7E-08	2E-04	3.7E-08		1.6E-08		
	Nickel	7440020	5.1	10.2	9.0	8.1	2.0E-02	--		7.6E-05	4E-03	8.1E-06	4E-04	6.5E-06		2.8E-06			6.8E-05	3E-03	7.3E-06	4E-04	5.9E-06		2.5E-06		
	Potassium	7440097	317	719	519	518	--	--		4.4E-03		4.7E-04		3.8E-04		1.6E-04			4.4E-03		4.7E-04		3.7E-04		1.6E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.49	0.55	0.50	0.51	5.0E-03	--		4.2E-06	8E-04	4.5E-07	9E-05	3.6E-07		1.5E-07			4.3E-06	9E-04	4.6E-07	9E-05	3.7E-07		1.6E-07		
	Sodium	7440235	58	98	88	81	--	--		7.4E-04		7.9E-05		6.3E-05		2.7E-05			6.9E-04		7.3E-05		5.9E-05		2.5E-05		
	Thallium	7440280	1.20	1.35	1.25	1.27	6.5E-05	--		1.1E-05	2E-01	1.1E-06	2E-02	9.0E-07		3.9E-07			1.1E-05	2E-01	1.1E-06	2E-02	9.2E-07		3.9E-07		
	Uranium	7440611	9.7	9.8	10.1	9.9	6.0E-04	--	(e)	8.5E-05	1E-01	9.1E-06	2E-02	7.3E-06		3.1E-06			8.3E-05	1E-01	8.9E-06	1E-02	7.1E-06		3.1E-06		
	Vanadium	7440622	8.7	16.2	16.7	13.9	7.0E-03	--		1.4E-04	2E-02	1.5E-05	2E-03	1.2E-05		5.2E-06			1.2E-04	2E-02	1.3E-05	2E-03	1.0E-05		4.3E-06		
	Zinc	7440666	21	33	47	34	3.0E-01	--		2.8E-04	9E-04	3.0E-05	1E-04	2.4E-05		1.0E-05			2.9E-04	1E-03	3.1E-05	1E-04	2.5E-05		1.1E-05		
									Total		**7E-01**		**8E-02**		**3E-06**		**1E-06**	**4E-06**		**6E-01**		**7E-02**		**2E-06**		**9E-07**	**3E-06**
										Total HQ or Risks > LOPC?:		**Yes**							**Total HQ or Risks > LOPC?:**		**Yes**					

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Seasonal

Exposure Area: Spring Canyon Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	8.44E-06	9.04E-07
Cancer:	7.23E-07	3.10E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	8,310	7,800	7,150	7,753	1.0E+00	--		7.0E-02	7E-02	7.5E-03	8E-03	6.0E-03		2.6E-03			6.6E-02	7E-02	7.1E-03	7E-03	5.6E-03		2.4E-03		
	Antimony	7440360	0.8	1.1	1.0	1.0	4.0E-04	--		6.7E-06	2E-02	7.1E-07	2E-03	5.7E-07		2.4E-07			9.3E-06	2E-02	9.9E-07	2E-03	8.0E-07		3.4E-07		
	Arsenic	7440382	10.3	7.5	8.5	8.8	2.4E-04	1.9E+00	(j)	8.7E-05	4E-01	9.3E-06	4E-02	7.4E-06	1E-05	3.2E-06	6E-06	2E-05	6.3E-05	3E-01	6.8E-06	3E-02	5.4E-06	1E-05	2.3E-06	4E-06	1E-05
	Barium	7440393	51	52	41	48	2.0E-01	--		4.3E-04	2E-03	4.6E-05	2E-04	3.7E-05		1.6E-05			4.3E-04	2E-03	4.7E-05	2E-04	3.7E-05		1.6E-05		
	Beryllium	7440417	0.64	0.60	0.53	0.59	2.0E-03	--		5.4E-06	3E-03	5.8E-07	3E-04	4.6E-07		2.0E-07			5.1E-06	3E-03	5.4E-07	3E-04	4.3E-07		1.9E-07		
	Cadmium	7440439	0.26	0.26	0.26	0.26	1.0E-03	--	(a)	2.2E-06	2E-03	2.4E-07	2E-04	1.9E-07		8.1E-08			2.2E-06	2E-03	2.3E-07	2E-04	1.8E-07		7.9E-08		
	Calcium	7440702	1,960	1,810	5,990	3,253	--	--		1.7E-02		1.8E-03		1.4E-03		6.1E-04			1.5E-02		1.6E-03		1.3E-03		5.6E-04		
	Chromium	7440473	9.6	9.7	9.0	9.4	1.5E+00	--	(b)	8.1E-05	5E-05	8.7E-06	6E-06	6.9E-06		3.0E-06			8.2E-05	5E-05	8.8E-06	6E-06	7.0E-06		3.0E-06		
	Cobalt	7440484	4.4	4.1	3.7	4.1	3.0E-04	--		3.7E-05	1E-01	4.0E-06	1E-02	3.2E-06		1.4E-06			3.5E-05	1E-01	3.7E-06	1E-02	3.0E-06		1.3E-06		
	Copper	7440508	7	6	7	6	4.0E-02	--		6.0E-05	1E-03	6.4E-06	2E-04	5.1E-06		2.2E-06			4.6E-05	1E-03	5.0E-06	1E-04	4.0E-06		1.7E-06		
	Iron	7439896	15,400	14,900	14,300	14,867	7.0E-01	--		1.3E-01	2E-01	1.4E-02	2E-02	1.1E-02		4.8E-03			1.3E-01	2E-01	1.3E-02	2E-02	1.1E-02		4.6E-03		
	Lead	7439921	7	7	6	7			(c)																		
	Magnesium	7439954	5,880	5,590	5,360	5,610	--	--		5.0E-02		5.3E-03		4.3E-03		1.8E-03			4.7E-02		5.1E-03		4.0E-03		1.7E-03		
	Manganese	7439965	227	208	226	220	4.7E-02	--	(d)	1.9E-03	4E-02	2.1E-04	4E-03	1.6E-04		7.0E-05			1.8E-03	4E-02	1.9E-04	4E-03	1.5E-04		6.4E-05		
	Mercury	7439976	0.055	0.055	0.050	0.053	3.0E-04	--	(i)	4.6E-07	2E-03	5.0E-08	2E-04	4.0E-08		1.7E-08			4.6E-07	2E-03	5.0E-08	2E-04	4.0E-08		1.7E-08		
	Nickel	7440020	8.2	7.5	7.5	7.7	2.0E-02	--		6.9E-05	3E-03	7.4E-06	4E-04	5.9E-06		2.5E-06			6.3E-05	3E-03	6.8E-06	3E-04	5.4E-06		2.3E-06		
	Potassium	7440097	1,610	1,470	1,230	1,437	--	--		1.4E-02		1.5E-03		1.2E-03		5.0E-04			1.2E-02		1.3E-03		1.1E-03		4.6E-04		
	Selenium	7782492	1.80	1.80	1.80	1.80	5.0E-03	--		1.5E-05	3E-03	1.6E-06	3E-04	1.3E-06		5.6E-07			1.5E-05	3E-03	1.6E-06	3E-04	1.3E-06		5.6E-07		
	Silver	7440224	0.50	0.50	0.50	0.50	5.0E-03	--		4.2E-06	8E-04	4.5E-07	9E-05	3.6E-07		1.5E-07			4.2E-06	8E-04	4.5E-07	9E-05	3.6E-07		1.5E-07		
	Sodium	7440235	66	54	74	64	--	--		5.5E-04		5.9E-05		4.8E-05		2.0E-05			4.5E-04		4.9E-05		3.9E-05		1.7E-05		
	Thallium	7440280	1.30	1.30	1.30	1.30	6.5E-05	--		1.1E-05	2E-01	1.2E-06	2E-02	9.4E-07		4.0E-07			1.1E-05	2E-01	1.2E-06	2E-02	9.4E-07		4.0E-07		
	Uranium	7440611	10.4	5.2	10.3	8.6	6.0E-04	--	(e)	8.8E-05	1E-01	9.4E-06	2E-02	7.5E-06		3.2E-06			4.4E-05	7E-02	4.7E-06	8E-03	3.8E-06		1.6E-06		
	Vanadium	7440622	14.8	14.0	13.9	14.2	7.0E-03	--		1.2E-04	2E-02	1.3E-05	2E-03	1.1E-05		4.6E-06			1.2E-04	2E-02	1.3E-05	2E-03	1.0E-05		4.3E-06		
	Zinc	7440666	48	55	40	47	3.0E-01	--		4.1E-04	1E-03	4.3E-05	1E-04	3.5E-05		1.5E-05			4.6E-04	2E-03	4.9E-05	2E-04	3.9E-05		1.7E-05		
									Total		**1E+00**		**1E-01**		**1E-05**		**6E-06**	**2E-05**							**4E-06**	**1E-05**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**			

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Seasonal

Exposure Area: Spring Canyon Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	8.44E-06	9.04E-07
Cancer:	7.23E-07	3.10E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	8,310	7,800	7,150	7,753	1.0E+00	--		6.0E-02	6E-02	6.5E-03	6E-03	5.2E-03		2.2E-03			6.5E-02	7E-02	7.0E-03	7E-03	5.6E-03		2.4E-03		
	Antimony	7440360	0.8	1.1	1.0	1.0	4.0E-04	--		8.4E-06	2E-02	9.0E-07	2E-03	7.2E-07		3.1E-07			8.1E-06	2E-02	8.7E-07	2E-03	7.0E-07		3.0E-07		
	Arsenic	7440382	10.3	7.5	8.5	8.8	2.4E-04	1.9E+00	(j)	7.2E-05	3E-01	7.7E-06	3E-02	6.1E-06	1E-05	2.6E-06	5E-06	2E-05	7.4E-05	3E-01	7.9E-06	3E-02	6.3E-06	1E-05	2.7E-06	5E-06	2E-05
	Barium	7440393	51	52	41	48	2.0E-01	--		3.5E-04	2E-03	3.7E-05	2E-04	3.0E-05		1.3E-05			4.0E-04	2E-03	4.3E-05	2E-04	3.5E-05		1.5E-05		
	Beryllium	7440417	0.64	0.60	0.53	0.59	2.0E-03	--		4.5E-06	2E-03	4.8E-07	2E-04	3.8E-07		1.6E-07			5.0E-06	2E-03	5.3E-07	3E-04	4.3E-07		1.8E-07		
	Cadmium	7440439	0.26	0.26	0.26	0.26	1.0E-03	--	(a)	2.2E-06	2E-03	2.4E-07	2E-04	1.9E-07		8.1E-08			2.2E-06	2E-03	2.3E-07	2E-04	1.9E-07		8.0E-08		
	Calcium	7440702	1,960	1,810	5,990	3,253	--	--		5.1E-02		5.4E-03		4.3E-03		1.9E-03			2.7E-02		2.9E-03		2.4E-03		1.0E-03		
	Chromium	7440473	9.6	9.7	9.0	9.4	1.5E+00	--	(b)	7.6E-05	5E-05	8.1E-06	5E-06	6.5E-06		2.8E-06			8.0E-05	5E-05	8.5E-06	6E-06	6.8E-06		2.9E-06		
	Cobalt	7440484	4.4	4.1	3.7	4.1	3.0E-04	--		3.1E-05	1E-01	3.3E-06	1E-02	2.7E-06		1.1E-06			3.4E-05	1E-01	3.7E-06	1E-02	2.9E-06		1.3E-06		
	Copper	7440508	7	6	7	6	4.0E-02	--		5.5E-05	1E-03	5.9E-06	1E-04	4.7E-06		2.0E-06			5.4E-05	1E-03	5.8E-06	1E-04	4.6E-06		2.0E-06		
	Iron	7439896	15,400	14,900	14,300	14,867	7.0E-01	--		1.2E-01	2E-01	1.3E-02	2E-02	1.0E-02		4.4E-03			1.3E-01	2E-01	1.3E-02	2E-02	1.1E-02		4.6E-03		
	Lead	7439921	7	7	6	7			(c)																		
	Magnesium	7439954	5,880	5,590	5,360	5,610	--	--		4.5E-02		4.8E-03		3.9E-03		1.7E-03			4.7E-02		5.1E-03		4.1E-03		1.7E-03		
	Manganese	7439965	227	208	226	220	4.7E-02	--	(d)	1.9E-03	4E-02	2.0E-04	4E-03	1.6E-04		7.0E-05			1.9E-03	4E-02	2.0E-04	4E-03	1.6E-04		6.8E-05		
	Mercury	7439976	0.055	0.055	0.050	0.053	3.0E-04	--	(i)	4.2E-07	1E-03	4.5E-08	2E-04	3.6E-08		1.5E-08			4.5E-07	2E-03	4.8E-08	2E-04	3.9E-08		1.7E-08		
	Nickel	7440020	8.2	7.5	7.5	7.7	2.0E-02	--		6.3E-05	3E-03	6.8E-06	3E-04	5.4E-06		2.3E-06			6.5E-05	3E-03	7.0E-06	3E-04	5.6E-06		2.4E-06		
	Potassium	7440097	1,610	1,470	1,230	1,437	--	--		1.0E-02		1.1E-03		8.9E-04		3.8E-04			1.2E-02		1.3E-03		1.0E-03		4.5E-04		
	Selenium	7782492	1.80	1.80	1.80	1.80	5.0E-03	--		1.5E-05	3E-03	1.6E-06	3E-04	1.3E-06		5.6E-07			1.5E-05	3E-03	1.6E-06	3E-04	1.3E-06		5.6E-07		
	Silver	7440224	0.50	0.50	0.50	0.50	5.0E-03	--		4.2E-06	8E-04	4.5E-07	9E-05	3.6E-07		1.5E-07			4.2E-06	8E-04	4.5E-07	9E-05	3.6E-07		1.5E-07		
	Sodium	7440235	66	54	74	64	--	--		6.2E-04		6.6E-05		5.3E-05		2.3E-05			5.4E-04		5.8E-05		4.7E-05		2.0E-05		
	Thallium	7440280	1.30	1.30	1.30	1.30	6.5E-05	--		1.1E-05	2E-01	1.2E-06	2E-02	9.4E-07		4.0E-07			1.1E-05	2E-01	1.2E-06	2E-02	9.4E-07		4.0E-07		
	Uranium	7440611	10.4	5.2	10.3	8.6	6.0E-04	--	(e)	8.7E-05	1E-01	9.3E-06	2E-02	7.4E-06		3.2E-06			7.3E-05	1E-01	7.8E-06	1E-02	6.2E-06		2.7E-06		
	Vanadium	7440622	14.8	14.0	13.9	14.2	7.0E-03	--		1.2E-04	2E-02	1.3E-05	2E-03	1.0E-05		4.3E-06			1.2E-04	2E-02	1.3E-05	2E-03	1.0E-05		4.4E-06		
	Zinc	7440666	48	55	40	47	3.0E-01	--		4.6E-04	2E-03	4.9E-05	2E-04	3.9E-05		1.7E-05			4.0E-04	1E-03	4.3E-05	1E-04	3.4E-05		1.5E-05		
									Total		**1E+00**		**1E-01**		**1E-05**		**5E-06**	**2E-05**		**1E+00**		**1E-01**		**1E-05**		**5E-06**	**2E-05**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Short-term

Exposure Area: AA Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	7.67E-07	8.22E-08
Cancer:	4.38E-08	4.70E-09

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	10,200	12,200	9,080	10,493	1.0E+00	--		7.8E-03	8E-03	8.4E-04	8E-04	4.5E-04		4.8E-05			9.4E-03	9E-03	1.0E-03	1E-03	5.3E-04		5.7E-05		
	Antimony	7440360	1.1	1.5	1.2	1.3	4.0E-04	--		8.4E-07	2E-03	9.0E-08	2E-04	4.8E-08		5.2E-09			1.2E-06	3E-03	1.2E-07	3E-04	6.6E-08		7.0E-09		
	Arsenic	7440382	3.6	5.3	4.1	4.3	2.4E-04	1.9E+00	(j)	2.8E-06	1E-02	3.0E-07	1E-03	1.6E-07	3E-07	1.7E-08	3E-08	3E-07	4.1E-06	2E-02	4.4E-07	2E-03	2.3E-07	4E-07	2.5E-08	5E-08	5E-07
	Barium	7440393	78	117	78	91	2.0E-01	--		6.0E-05	3E-04	6.4E-06	3E-05	3.4E-06		3.6E-07			9.0E-05	4E-04	9.6E-06	5E-05	5.1E-06		5.5E-07		
	Beryllium	7440417	0.68	0.90	0.66	0.75	2.0E-03	--		5.2E-07	3E-04	5.6E-08	3E-05	3.0E-08		3.2E-09			6.9E-07	3E-04	7.4E-08	4E-05	3.9E-08		4.2E-09		
	Cadmium	7440439	1.00	0.74	0.17	0.64	1.0E-03	--	(a)	7.7E-07	8E-04	8.2E-08	8E-05	4.4E-08		4.7E-09			5.7E-07	6E-04	6.1E-08	6E-05	3.2E-08		3.5E-09		
	Calcium	7440702	2,520	4,120	2,990	3,210	--	--		1.9E-03		2.1E-04		1.1E-04		1.2E-05			3.2E-03		3.4E-04		1.8E-04		1.9E-05		
	Chromium	7440473	18.0	24.2	14.8	19.0	1.5E+00	--	(b)	1.4E-05	9E-06	1.5E-06	1E-06	7.9E-07		8.5E-08			1.9E-05	1E-05	2.0E-06	1E-06	1.1E-06		1.1E-07		
	Cobalt	7440484	6.9	10.4	6.4	7.9	3.0E-04	--		5.3E-06	2E-02	5.7E-07	2E-03	3.0E-07		3.2E-08			8.0E-06	3E-02	8.5E-07	3E-03	4.6E-07		4.9E-08		
	Copper	7440508	15	20	12	16	4.0E-02	--		1.1E-05	3E-04	1.2E-06	3E-05	6.4E-07		6.9E-08			1.5E-05	4E-04	1.6E-06	4E-05	8.8E-07		9.4E-08		
	Iron	7439896	16,000	21,100	14,800	17,300	7.0E-01	--		1.2E-02	2E-02	1.3E-03	2E-03	7.0E-04		7.5E-05			1.6E-02	2E-02	1.7E-03	2E-03	9.2E-04		9.9E-05		
	Lead	7439921	34	20	7	20			(c)																		
	Magnesium	7439954	3,700	4,970	3,550	4,073	--	--		2.8E-03		3.0E-04		1.6E-04		1.7E-05			3.8E-03		4.1E-04		2.2E-04		2.3E-05		
	Manganese	7439965	167	383	248	266	4.7E-02	--	(d)	1.3E-04	3E-03	1.4E-05	3E-04	7.3E-06		7.8E-07			2.9E-04	6E-03	3.1E-05	7E-04	1.7E-05		1.8E-06		
	Mercury	7439976	0.053	0.031	0.010	0.031	3.0E-04	--	(i)	4.1E-08	1E-04	4.4E-09	1E-05	2.3E-09		2.5E-10			2.4E-08	8E-05	2.5E-09	8E-06	1.4E-09		1.5E-10		
	Nickel	7440020	15.5	21.1	12.8	16.5	2.0E-02	--		1.2E-05	6E-04	1.3E-06	6E-05	6.8E-07		7.3E-08			1.6E-05	8E-04	1.7E-06	9E-05	9.2E-07		9.9E-08		
	Potassium	7440097	1,220	2,020	1,160	1,467	--	--		9.4E-04		1.0E-04		5.3E-05		5.7E-06			1.5E-03		1.7E-04		8.9E-05		9.5E-06		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.60	0.60	0.55	0.58	5.0E-03	--		4.6E-07	9E-05	4.9E-08	1E-05	2.6E-08		2.8E-09			4.6E-07	9E-05	4.9E-08	1E-05	2.6E-08		2.8E-09		
	Sodium	7440235	115	173	129	139	--	--		8.8E-05		9.5E-06		5.0E-06		5.4E-07			1.3E-04		1.4E-05		7.6E-06		8.1E-07		
	Thallium	7440280	1.50	1.55	1.45	1.50	6.5E-05	--		1.2E-06	2E-02	1.2E-07	2E-03	6.6E-08		7.0E-09			1.2E-06	2E-02	1.3E-07	2E-03	6.8E-08		7.3E-09		
	Uranium	7440611	12.0	12.3	11.4	11.9	6.0E-04	--	(e)	9.2E-06	2E-02	9.8E-07	2E-03	5.2E-07		5.6E-08			9.4E-06	2E-02	1.0E-06	2E-03	5.4E-07		5.8E-08		
	Vanadium	7440622	27.2	32.6	26.3	28.7	7.0E-03	--		2.1E-05	3E-03	2.2E-06	3E-04	1.2E-06		1.3E-07			2.5E-05	4E-03	2.7E-06	4E-04	1.4E-06		1.5E-07		
	Zinc	7440666	158	118	49	108	3.0E-01	--		1.2E-04	4E-04	1.3E-05	4E-05	6.9E-06		7.4E-07			9.1E-05	3E-04	9.7E-06	3E-05	5.2E-06		5.5E-07		
									Total		**1E-01**		**1E-02**		**3E-07**		**3E-08**	**3E-07**		**1E-01**		**1E-02**		**4E-07**		**5E-08**	**5E-07**
										Total HQ or Risks > LOPC?:		**No**							**Total HQ or Risks > LOPC?:**		**Yes**					

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Short-term

Exposure Area: AA Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	7.67E-07	8.22E-08
Cancer:	4.38E-08	4.70E-09

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	10,200	12,200	9,080	10,493	1.0E+00	--		7.0E-03	7E-03	7.5E-04	7E-04	4.0E-04		4.3E-05			8.0E-03	8E-03	8.6E-04	9E-04	4.6E-04		4.9E-05		
	Antimony	7440360	1.1	1.5	1.2	1.3	4.0E-04	--		9.2E-07	2E-03	9.9E-08	2E-04	5.3E-08		5.6E-09			9.7E-07	2E-03	1.0E-07	3E-04	5.6E-08		5.9E-09		
	Arsenic	7440382	3.6	5.3	4.1	4.3	2.4E-04	1.9E+00	(j)	3.1E-06	1E-02	3.4E-07	1E-03	1.8E-07	3E-07	1.9E-08	4E-08	4E-07	3.3E-06	1E-02	3.6E-07	1E-03	1.9E-07	4E-07	2.0E-08	4E-08	4E-07
	Barium	7440393	78	117	78	91	2.0E-01	--		6.0E-05	3E-04	6.4E-06	3E-05	3.4E-06		3.7E-07			7.0E-05	3E-04	7.5E-06	4E-05	4.0E-06		4.3E-07		
	Beryllium	7440417	0.68	0.90	0.66	0.75	2.0E-03	--		5.1E-07	3E-04	5.4E-08	3E-05	2.9E-08		3.1E-09			5.7E-07	3E-04	6.1E-08	3E-05	3.3E-08		3.5E-09		
	Cadmium	7440439	1.00	0.74	0.17	0.64	1.0E-03	--	(a)	1.3E-07	1E-04	1.4E-08	1E-05	7.5E-09		8.0E-10			4.9E-07	5E-04	5.2E-08	5E-05	2.8E-08		3.0E-09		
	Calcium	7440702	2,520	4,120	2,990	3,210	--	--		2.3E-03		2.5E-04		1.3E-04		1.4E-05			2.5E-03		2.6E-04		1.4E-04		1.5E-05		
	Chromium	7440473	18.0	24.2	14.8	19.0	1.5E+00	--	(b)	1.1E-05	8E-06	1.2E-06	8E-07	6.5E-07		7.0E-08			1.5E-05	1E-05	1.6E-06	1E-06	8.3E-07		8.9E-08		
	Cobalt	7440484	6.9	10.4	6.4	7.9	3.0E-04	--		4.9E-06	2E-02	5.3E-07	2E-03	2.8E-07		3.0E-08			6.1E-06	2E-02	6.5E-07	2E-03	3.5E-07		3.7E-08		
	Copper	7440508	15	20	12	16	4.0E-02	--		9.3E-06	2E-04	9.9E-07	2E-05	5.3E-07		5.7E-08			1.2E-05	3E-04	1.3E-06	3E-05	6.8E-07		7.3E-08		
	Iron	7439896	16,000	21,100	14,800	17,300	7.0E-01	--		1.1E-02	2E-02	1.2E-03	2E-03	6.5E-04		7.0E-05			1.3E-02	2E-02	1.4E-03	2E-03	7.6E-04		8.1E-05		
	Lead	7439921	34	20	7	20			(c)																		
	Magnesium	7439954	3,700	4,970	3,550	4,073	--	--		2.7E-03		2.9E-04		1.6E-04		1.7E-05			3.1E-03		3.3E-04		1.8E-04		1.9E-05		
	Manganese	7439965	167	383	248	266	4.7E-02	--	(d)	1.9E-04	4E-03	2.0E-05	4E-04	1.1E-05		1.2E-06			2.0E-04	4E-03	2.2E-05	5E-04	1.2E-05		1.2E-06		
	Mercury	7439976	0.053	0.031	0.010	0.031	3.0E-04	--	(i)	7.7E-09	3E-05	8.2E-10	3E-06	4.4E-10		4.7E-11			2.4E-08	8E-05	2.6E-09	9E-06	1.4E-09		1.5E-10		
	Nickel	7440020	15.5	21.1	12.8	16.5	2.0E-02	--		9.8E-06	5E-04	1.1E-06	5E-05	5.6E-07		6.0E-08			1.3E-05	6E-04	1.4E-06	7E-05	7.2E-07		7.7E-08		
	Potassium	7440097	1,220	2,020	1,160	1,467	--	--		8.9E-04		9.5E-05		5.1E-05		5.4E-06			1.1E-03		1.2E-04		6.4E-05		6.9E-06		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.60	0.60	0.55	0.58	5.0E-03	--		4.2E-07	8E-05	4.5E-08	9E-06	2.4E-08		2.6E-09			4.5E-07	9E-05	4.8E-08	1E-05	2.6E-08		2.7E-09		
	Sodium	7440235	115	173	129	139	--	--		9.9E-05		1.1E-05		5.7E-06		6.1E-07			1.1E-04		1.1E-05		6.1E-06		6.5E-07		
	Thallium	7440280	1.50	1.55	1.45	1.50	6.5E-05	--		1.1E-06	2E-02	1.2E-07	2E-03	6.4E-08		6.8E-09			1.2E-06	2E-02	1.2E-07	2E-03	6.6E-08		7.0E-09		
	Uranium	7440611	12.0	12.3	11.4	11.9	6.0E-04	--	(e)	8.7E-06	1E-02	9.4E-07	2E-03	5.0E-07		5.4E-08			9.1E-06	2E-02	9.8E-07	2E-03	5.2E-07		5.6E-08		
	Vanadium	7440622	27.2	32.6	26.3	28.7	7.0E-03	--		2.0E-05	3E-03	2.2E-06	3E-04	1.2E-06		1.2E-07			2.2E-05	3E-03	2.4E-06	3E-04	1.3E-06		1.3E-07		
	Zinc	7440666	158	118	49	108	3.0E-01	--		9.1E-05	3E-04	9.7E-06	3E-05	5.2E-06		5.5E-07			8.3E-05	3E-04	8.9E-06	3E-05	4.7E-06		5.1E-07		
								Total			**1E-01**		**1E-02**		**3E-07**		**4E-08**	**4E-07**		**1E-01**		**1E-02**		**4E-07**		**4E-08**	**4E-07**
										Total HQ or Risks > LOPC?:		**No**							**Total HQ or Risks > LOPC?:**		**Yes**						

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Short-term

Exposure Area: Black Sand Beach

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	7.67E-07	8.22E-08
Cancer:	4.38E-08	4.70E-09

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	19,000	18,600	18,600	18,733	1.0E+00	--		1.5E-02	1E-02	1.6E-03	2E-03	8.3E-04		8.9E-05			1.4E-02	1E-02	1.5E-03	2E-03	8.2E-04		8.7E-05		
	Antimony	7440360	18.6	52.3	47.7	39.5	4.0E-04	--		1.4E-05	4E-02	1.5E-06	4E-03	8.2E-07		8.7E-08			4.0E-05	1E-01	4.3E-06	1E-02	2.3E-06		2.5E-07		
	Arsenic	7440382	16.1	25.2	27.3	22.9	2.4E-04	1.9E+00	(j)	1.2E-05	5E-02	1.3E-06	6E-03	7.1E-07	1E-06	7.6E-08	1E-07	1E-06	1.9E-05	8E-02	2.1E-06	9E-03	1.1E-06	2E-06	1.2E-07	2E-07	2E-06
	Barium	7440393	1,280	1,680	1,750	1,570	2.0E-01	--		9.8E-04	5E-03	1.1E-04	5E-04	5.6E-05		6.0E-06			1.3E-03	6E-03	1.4E-04	7E-04	7.4E-05		7.9E-06		
	Beryllium	7440417	1.20	1.30	1.30	1.27	2.0E-03	--		9.2E-07	5E-04	9.9E-08	5E-05	5.3E-08		5.6E-09			1.0E-06	5E-04	1.1E-07	5E-05	5.7E-08		6.1E-09		
	Cadmium	7440439	1.00	1.20	1.40	1.20	1.0E-03	--	(a)	7.7E-07	8E-04	8.2E-08	8E-05	4.4E-08		4.7E-09			9.2E-07	9E-04	9.9E-08	1E-04	5.3E-08		5.6E-09		
	Calcium	7440702	58,700	63,300	66,900	62,967	--	--		4.5E-02		4.8E-03		2.6E-03		2.8E-04			4.9E-02		5.2E-03		2.8E-03		3.0E-04		
	Chromium	7440473	101.0	123.0	128.0	117.3	1.5E+00	--	(b)	7.7E-05	5E-05	8.3E-06	6E-06	4.4E-06		4.7E-07			9.4E-05	6E-05	1.0E-05	7E-06	5.4E-06		5.8E-07		
	Cobalt	7440484	29.5	48.6	51.0	43.0	3.0E-04	--		2.3E-05	8E-02	2.4E-06	8E-03	1.3E-06		1.4E-07			3.7E-05	1E-01	4.0E-06	1E-02	2.1E-06		2.3E-07		
	Copper	7440508	1,620	2,240	2,350	2,070	4.0E-02	--		1.2E-03	3E-02	1.3E-04	3E-03	7.1E-05		7.6E-06			1.7E-03	4E-02	1.8E-04	5E-03	9.8E-05		1.1E-05		
	Iron	7439896	197,000	187,000	211,000	198,333	7.0E-01	--		1.5E-01	2E-01	1.6E-02	2E-02	8.6E-03		9.3E-04			1.4E-01	2E-01	1.5E-02	2E-02	8.2E-03		8.8E-04		
	Lead	7439921	276	231	266	258			(c)																		
	Magnesium	7439954	6,670	7,070	8,290	7,343	--	--		5.1E-03		5.5E-04		2.9E-04		3.1E-05			5.4E-03		5.8E-04		3.1E-04		3.3E-05		
	Manganese	7439965	3,080	3,680	3,680	3,480	4.7E-02	--	(d)	2.4E-03	5E-02	2.5E-04	5E-03	1.4E-04		1.4E-05			2.8E-03	6E-02	3.0E-04	6E-03	1.6E-04		1.7E-05		
	Mercury	7439976	0.028	0.030	0.650	0.236	3.0E-04	--	(i)	2.1E-08	7E-05	2.3E-09	8E-06	1.2E-09		1.3E-10			2.3E-08	8E-05	2.5E-09	8E-06	1.3E-09		1.4E-10		
	Nickel	7440020	9.3	12.1	12.4	11.3	2.0E-02	--		7.1E-06	4E-04	7.6E-07	4E-05	4.1E-07		4.4E-08			9.3E-06	5E-04	9.9E-07	5E-05	5.3E-07		5.7E-08		
	Potassium	7440097	3,500	3,610	3,750	3,620	--	--		2.7E-03		2.9E-04		1.5E-04		1.6E-05			2.8E-03		3.0E-04		1.6E-04		1.7E-05		
	Selenium	7782492	#N/A	#N/A	1.70	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.55	0.47	0.49	0.50	5.0E-03	--		4.2E-07	8E-05	4.5E-08	9E-06	2.4E-08		2.6E-09			3.6E-07	7E-05	3.8E-08	8E-06	2.0E-08		2.2E-09		
	Sodium	7440235	1,300	1,770	1,840	1,637	--	--		1.0E-03		1.1E-04		5.7E-05		6.1E-06			1.4E-03		1.5E-04		7.8E-05		8.3E-06		
	Thallium	7440280	1.35	1.15	1.20	1.23	6.5E-05	--		1.0E-06	2E-02	1.1E-07	2E-03	5.9E-08		6.3E-09			8.8E-07	1E-02	9.5E-08	1E-03	5.0E-08		5.4E-09		
	Uranium	7440611	64.8	84.3	81.6	76.9	6.0E-04	--	(e)	5.0E-05	8E-02	5.3E-06	9E-03	2.8E-06		3.0E-07			6.5E-05	1E-01	6.9E-06	1E-02	3.7E-06		4.0E-07		
	Vanadium	7440622	36.6	38.3	39.8	38.2	7.0E-03	--		2.8E-05	4E-03	3.0E-06	4E-04	1.6E-06		1.7E-07			2.9E-05	4E-03	3.1E-06	4E-04	1.7E-06		1.8E-07		
	Zinc	7440666	14,900	15,200	16,900	15,667	3.0E-01	--		1.1E-02	4E-02	1.2E-03	4E-03	6.5E-04		7.0E-05			1.2E-02	4E-02	1.2E-03	4E-03	6.7E-04		7.1E-05		
									Total		**6E-01**		**7E-02**		**1E-06**		**1E-07**	**1E-06**		**8E-01**		**9E-02**		**2E-06**		**2E-07**	**2E-06**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**			

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Short-term

Exposure Area: Black Sand Beach

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	7.67E-07	8.22E-08
Cancer:	4.38E-08	4.70E-09

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	19,000	18,600	18,600	18,733	1.0E+00	--		1.4E-02	1E-02	1.5E-03	2E-03	8.2E-04		8.7E-05			1.4E-02	1E-02	1.5E-03	2E-03	8.2E-04		8.8E-05		
	Antimony	7440360	18.6	52.3	47.7	39.5	4.0E-04	--		3.7E-05	9E-02	3.9E-06	1E-02	2.1E-06		2.2E-07			3.0E-05	8E-02	3.2E-06	8E-03	1.7E-06		1.9E-07		
	Arsenic	7440382	16.1	25.2	27.3	22.9	2.4E-04	1.9E+00	(j)	2.1E-05	9E-02	2.2E-06	9E-03	1.2E-06	2E-06	1.3E-07	2E-07	2E-06	1.8E-05	7E-02	1.9E-06	8E-03	1.0E-06	2E-06	1.1E-07	2E-07	2E-06
	Barium	7440393	1,280	1,680	1,750	1,570	2.0E-01	--		1.3E-03	7E-03	1.4E-04	7E-04	7.7E-05		8.2E-06			1.2E-03	6E-03	1.3E-04	6E-04	6.9E-05		7.4E-06		
	Beryllium	7440417	1.20	1.30	1.30	1.27	2.0E-03	--		1.0E-06	5E-04	1.1E-07	5E-05	5.7E-08		6.1E-09			9.7E-07	5E-04	1.0E-07	5E-05	5.6E-08		5.9E-09		
	Cadmium	7440439	1.00	1.20	1.40	1.20	1.0E-03	--	(a)	1.1E-06	1E-03	1.2E-07	1E-04	6.1E-08		6.6E-09			9.2E-07	9E-04	9.9E-08	1E-04	5.3E-08		5.6E-09		
	Calcium	7440702	58,700	63,300	66,900	62,967	--	--		5.1E-02		5.5E-03		2.9E-03		3.1E-04			4.8E-02		5.2E-03		2.8E-03		3.0E-04		
	Chromium	7440473	101.0	123.0	128.0	117.3	1.5E+00	--	(b)	9.8E-05	7E-05	1.1E-05	7E-06	5.6E-06		6.0E-07			9.0E-05	6E-05	9.6E-06	6E-06	5.1E-06		5.5E-07		
	Cobalt	7440484	29.5	48.6	51.0	43.0	3.0E-04	--		3.9E-05	1E-01	4.2E-06	1E-02	2.2E-06		2.4E-07			3.3E-05	1E-01	3.5E-06	1E-02	1.9E-06		2.0E-07		
	Copper	7440508	1,620	2,240	2,350	2,070	4.0E-02	--		1.8E-03	5E-02	1.9E-04	5E-03	1.0E-04		1.1E-05			1.6E-03	4E-02	1.7E-04	4E-03	9.1E-05		9.7E-06		
	Iron	7439896	197,000	187,000	211,000	198,333	7.0E-01	--		1.6E-01	2E-01	1.7E-02	2E-02	9.2E-03		9.9E-04			1.5E-01	2E-01	1.6E-02	2E-02	8.7E-03		9.3E-04		
	Lead	7439921	276	231	266	258			(c)																		
	Magnesium	7439954	6,670	7,070	8,290	7,343	--	--		6.4E-03		6.8E-04		3.6E-04		3.9E-05			5.6E-03		6.0E-04		3.2E-04		3.4E-05		
	Manganese	7439965	3,080	3,680	3,680	3,480	4.7E-02	--	(d)	2.8E-03	6E-02	3.0E-04	6E-03	1.6E-04		1.7E-05			2.7E-03	6E-02	2.9E-04	6E-03	1.5E-04		1.6E-05		
	Mercury	7439976	0.028	0.030	0.650	0.236	3.0E-04	--	(i)	5.0E-07	2E-03	5.3E-08	2E-04	2.8E-08		3.1E-09			1.8E-07	6E-04	1.9E-08	6E-05	1.0E-08		1.1E-09		
	Nickel	7440020	9.3	12.1	12.4	11.3	2.0E-02	--		9.5E-06	5E-04	1.0E-06	5E-05	5.4E-07		5.8E-08			8.6E-06	4E-04	9.3E-07	5E-05	4.9E-07		5.3E-08		
	Potassium	7440097	3,500	3,610	3,750	3,620	--	--		2.9E-03		3.1E-04		1.6E-04		1.8E-05			2.8E-03		3.0E-04		1.6E-04		1.7E-05		
	Selenium	7782492	#N/A	#N/A	1.70	#N/A	5.0E-03	--		1.3E-06	3E-04	1.4E-07	3E-05	7.5E-08		8.0E-09			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.55	0.47	0.49	0.50	5.0E-03	--		3.7E-07	7E-05	4.0E-08	8E-06	2.1E-08		2.3E-09			3.8E-07	8E-05	4.1E-08	8E-06	2.2E-08		2.3E-09		
	Sodium	7440235	1,300	1,770	1,840	1,637	--	--		1.4E-03		1.5E-04		8.1E-05		8.6E-06			1.3E-03		1.3E-04		7.2E-05		7.7E-06		
	Thallium	7440280	1.35	1.15	1.20	1.23	6.5E-05	--		9.2E-07	1E-02	9.9E-08	2E-03	5.3E-08		5.6E-09			9.5E-07	1E-02	1.0E-07	2E-03	5.4E-08		5.8E-09		
	Uranium	7440611	64.8	84.3	81.6	76.9	6.0E-04	--	(e)	6.3E-05	1E-01	6.7E-06	1E-02	3.6E-06		3.8E-07			5.9E-05	1E-01	6.3E-06	1E-02	3.4E-06		3.6E-07		
	Vanadium	7440622	36.6	38.3	39.8	38.2	7.0E-03	--		3.1E-05	4E-03	3.3E-06	5E-04	1.7E-06		1.9E-07			2.9E-05	4E-03	3.1E-06	4E-04	1.7E-06		1.8E-07		
	Zinc	7440666	14,900	15,200	16,900	15,667	3.0E-01	--		1.2E-02	4E-02	1.2E-03	4E-03	6.7E-04		7.1E-05			1.2E-02	4E-02	1.3E-03	4E-03	6.9E-04		7.4E-05		
									Total		**8E-01**		**9E-02**		**2E-06**		**2E-07**	**2E-06**		**8E-01**		**8E-02**		**2E-06**		**2E-07**	**2E-06**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**			

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Short-term

Exposure Area: Cloverleaf Branch

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	7.67E-07	8.22E-08
Cancer:	4.38E-08	4.70E-09

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	12,300	7,520	7,780	9,200	1.0E+00	--		9.4E-03	9E-03	1.0E-03	1E-03	5.4E-04		5.8E-05			5.8E-03	6E-03	6.2E-04	6E-04	3.3E-04		3.5E-05		
	Antimony	7440360	1.6	1.1	1.0	1.2	4.0E-04	--		1.2E-06	3E-03	1.3E-07	3E-04	7.0E-08		7.5E-09			8.4E-07	2E-03	9.0E-08	2E-04	4.8E-08		5.2E-09		
	Arsenic	7440382	7.0	3.6	2.3	4.3	2.4E-04	1.9E+00	(j)	5.4E-06	2E-02	5.8E-07	2E-03	3.1E-07	6E-07	3.3E-08	6E-08	6E-07	2.8E-06	1E-02	3.0E-07	1E-03	1.6E-07	3E-07	1.7E-08	3E-08	3E-07
	Barium	7440393	152	80	66	99	2.0E-01	--		1.2E-04	6E-04	1.2E-05	6E-05	6.7E-06		7.1E-07			6.2E-05	3E-04	6.6E-06	3E-05	3.5E-06		3.8E-07		
	Beryllium	7440417	0.93	0.59	0.63	0.72	2.0E-03	--		7.1E-07	4E-04	7.6E-08	4E-05	4.1E-08		4.4E-09			4.5E-07	2E-04	4.8E-08	2E-05	2.6E-08		2.8E-09		
	Cadmium	7440439	2.40	0.63	3.10	2.04	1.0E-03	--	(a)	1.8E-06	2E-03	2.0E-07	2E-04	1.1E-07		1.1E-08			4.8E-07	5E-04	5.2E-08	5E-05	2.8E-08		3.0E-09		
	Calcium	7440702	5,200	6,050	3,100	4,783	--	--		4.0E-03		4.3E-04		2.3E-04		2.4E-05			4.6E-03		5.0E-04		2.7E-04		2.8E-05		
	Chromium	7440473	28.0	17.7	19.5	21.7	1.5E+00	--	(b)	2.1E-05	1E-05	2.3E-06	2E-06	1.2E-06		1.3E-07			1.4E-05	9E-06	1.5E-06	1E-06	7.8E-07		8.3E-08		
	Cobalt	7440484	10.0	6.7	5.6	7.4	3.0E-04	--		7.7E-06	3E-02	8.2E-07	3E-03	4.4E-07		4.7E-08			5.1E-06	2E-02	5.5E-07	2E-03	2.9E-07		3.1E-08		
	Copper	7440508	29	16	15	20	4.0E-02	--		2.2E-05	6E-04	2.4E-06	6E-05	1.3E-06		1.3E-07			1.2E-05	3E-04	1.3E-06	3E-05	7.1E-07		7.6E-08		
	Iron	7439896	22,600	15,200	13,300	17,033	7.0E-01	--		1.7E-02	2E-02	1.9E-03	3E-03	9.9E-04		1.1E-04			1.2E-02	2E-02	1.2E-03	2E-03	6.7E-04		7.1E-05		
	Lead	7439921	102	16	51	56			(c)																		
	Magnesium	7439954	6,530	4,520	4,040	5,030	--	--		5.0E-03		5.4E-04		2.9E-04		3.1E-05			3.5E-03		3.7E-04		2.0E-04		2.1E-05		
	Manganese	7439965	526	194	145	288	4.7E-02	--	(d)	4.0E-04	9E-03	4.3E-05	9E-04	2.3E-05		2.5E-06			1.5E-04	3E-03	1.6E-05	3E-04	8.5E-06		9.1E-07		
	Mercury	7439976	0.210	0.030	0.062	0.101	3.0E-04	--	(i)	1.6E-07	5E-04	1.7E-08	6E-05	9.2E-09		9.9E-10			2.3E-08	8E-05	2.5E-09	8E-06	1.3E-09		1.4E-10		
	Nickel	7440020	23.8	15.9	14.0	17.9	2.0E-02	--		1.8E-05	9E-04	2.0E-06	1E-04	1.0E-06		1.1E-07			1.2E-05	6E-04	1.3E-06	7E-05	7.0E-07		7.5E-08		
	Potassium	7440097	2,190	1,210	1,200	1,533	--	--		1.7E-03		1.8E-04		9.6E-05		1.0E-05			9.3E-04		9.9E-05		5.3E-05		5.7E-06		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.60	0.55	0.60	0.58	5.0E-03	--		4.6E-07	9E-05	4.9E-08	1E-05	2.6E-08		2.8E-09			4.2E-07	8E-05	4.5E-08	9E-06	2.4E-08		2.6E-09		
	Sodium	7440235	245	147	94	162	--	--		1.9E-04		2.0E-05		1.1E-05		1.2E-06			1.1E-04		1.2E-05		6.4E-06		6.9E-07		
	Thallium	7440280	1.55	1.35	1.55	1.48	6.5E-05	--		1.2E-06	2E-02	1.3E-07	2E-03	6.8E-08		7.3E-09			1.0E-06	2E-02	1.1E-07	2E-03	5.9E-08		6.3E-09		
	Uranium	7440611	12.3	10.7	12.2	11.7	6.0E-04	--	(e)	9.4E-06	2E-02	1.0E-06	2E-03	5.4E-07		5.8E-08			8.2E-06	1E-02	8.8E-07	1E-03	4.7E-07		5.0E-08		
	Vanadium	7440622	35.6	26.6	21.9	28.0	7.0E-03	--		2.7E-05	4E-03	2.9E-06	4E-04	1.6E-06		1.7E-07			2.0E-05	3E-03	2.2E-06	3E-04	1.2E-06		1.2E-07		
	Zinc	7440666	295	90	220	202	3.0E-01	--		2.3E-04	8E-04	2.4E-05	8E-05	1.3E-05		1.4E-06			6.9E-05	2E-04	7.4E-06	2E-05	4.0E-06		4.2E-07		
								Total			**1E-01**		**1E-02**		**6E-07**		**6E-08**	**6E-07**		**9E-02**		**1E-02**		**3E-07**		**3E-08**	**3E-07**
										Total HQ or Risks > LOPC?:		**Yes**							**Total HQ or Risks > LOPC?:**		**No**						

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Short-term

Exposure Area: Cloverleaf Branch

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	7.67E-07	8.22E-08
Cancer:	4.38E-08	4.70E-09

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	12,300	7,520	7,780	9,200	1.0E+00	--		6.0E-03	6E-03	6.4E-04	6E-04	3.4E-04		3.7E-05			7.1E-03	7E-03	7.6E-04	8E-04	4.0E-04		4.3E-05		
	Antimony	7440360	1.6	1.1	1.0	1.2	4.0E-04	--		7.7E-07	2E-03	8.2E-08	2E-04	4.4E-08		4.7E-09			9.5E-07	2E-03	1.0E-07	3E-04	5.4E-08		5.8E-09		
	Arsenic	7440382	7.0	3.6	2.3	4.3	2.4E-04	1.9E+00	(j)	1.8E-06	7E-03	1.9E-07	8E-04	1.0E-07	2E-07	1.1E-08	2E-08	2E-07	3.3E-06	1E-02	3.5E-07	1E-03	1.9E-07	4E-07	2.0E-08	4E-08	4E-07
	Barium	7440393	152	80	66	99	2.0E-01	--		5.0E-05	3E-04	5.4E-06	3E-05	2.9E-06		3.1E-07			7.6E-05	4E-04	8.2E-06	4E-05	4.4E-06		4.7E-07		
	Beryllium	7440417	0.93	0.59	0.63	0.72	2.0E-03	--		4.8E-07	2E-04	5.2E-08	3E-05	2.8E-08		3.0E-09			5.5E-07	3E-04	5.9E-08	3E-05	3.1E-08		3.4E-09		
	Cadmium	7440439	2.40	0.63	3.10	2.04	1.0E-03	--	(a)	2.4E-06	2E-03	2.5E-07	3E-04	1.4E-07		1.5E-08			1.6E-06	2E-03	1.7E-07	2E-04	9.0E-08		9.6E-09		
	Calcium	7440702	5,200	6,050	3,100	4,783	--	--		2.4E-03		2.5E-04		1.4E-04		1.5E-05			3.7E-03		3.9E-04		2.1E-04		2.2E-05		
	Chromium	7440473	28.0	17.7	19.5	21.7	1.5E+00	--	(b)	1.5E-05	1E-05	1.6E-06	1E-06	8.5E-07		9.2E-08			1.7E-05	1E-05	1.8E-06	1E-06	9.5E-07		1.0E-07		
	Cobalt	7440484	10.0	6.7	5.6	7.4	3.0E-04	--		4.3E-06	1E-02	4.6E-07	2E-03	2.5E-07		2.6E-08			5.7E-06	2E-02	6.1E-07	2E-03	3.3E-07		3.5E-08		
	Copper	7440508	29	16	15	20	4.0E-02	--		1.1E-05	3E-04	1.2E-06	3E-05	6.5E-07		7.0E-08			1.5E-05	4E-04	1.6E-06	4E-05	8.7E-07		9.3E-08		
	Iron	7439896	22,600	15,200	13,300	17,033	7.0E-01	--		1.0E-02	1E-02	1.1E-03	2E-03	5.8E-04		6.2E-05			1.3E-02	2E-02	1.4E-03	2E-03	7.5E-04		8.0E-05		
	Lead	7439921	102	16	51	56			(c)																		
	Magnesium	7439954	6,530	4,520	4,040	5,030	--	--		3.1E-03		3.3E-04		1.8E-04		1.9E-05			3.9E-03		4.1E-04		2.2E-04		2.4E-05		
	Manganese	7439965	526	194	145	288	4.7E-02	--	(d)	1.1E-04	2E-03	1.2E-05	3E-04	6.4E-06		6.8E-07			2.2E-04	5E-03	2.4E-05	5E-04	1.3E-05		1.4E-06		
	Mercury	7439976	0.210	0.030	0.062	0.101	3.0E-04	--	(i)	4.8E-08	2E-04	5.1E-09	2E-05	2.7E-09		2.9E-10			7.7E-08	3E-04	8.3E-09	3E-05	4.4E-09		4.7E-10		
	Nickel	7440020	23.8	15.9	14.0	17.9	2.0E-02	--		1.1E-05	5E-04	1.2E-06	6E-05	6.1E-07		6.6E-08			1.4E-05	7E-04	1.5E-06	7E-05	7.8E-07		8.4E-08		
	Potassium	7440097	2,190	1,210	1,200	1,533	--	--		9.2E-04		9.9E-05		5.3E-05		5.6E-06			1.2E-03		1.3E-04		6.7E-05		7.2E-06		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.60	0.55	0.60	0.58	5.0E-03	--		4.6E-07	9E-05	4.9E-08	1E-05	2.6E-08		2.8E-09			4.5E-07	9E-05	4.8E-08	1E-05	2.6E-08		2.7E-09		
	Sodium	7440235	245	147	94	162	--	--		7.2E-05		7.7E-06		4.1E-06		4.4E-07			1.2E-04		1.3E-05		7.1E-06		7.6E-07		
	Thallium	7440280	1.55	1.35	1.55	1.48	6.5E-05	--		1.2E-06	2E-02	1.3E-07	2E-03	6.8E-08		7.3E-09			1.1E-06	2E-02	1.2E-07	2E-03	6.5E-08		7.0E-09		
	Uranium	7440611	12.3	10.7	12.2	11.7	6.0E-04	--	(e)	9.4E-06	2E-02	1.0E-06	2E-03	5.3E-07		5.7E-08			9.0E-06	2E-02	9.6E-07	2E-03	5.1E-07		5.5E-08		
	Vanadium	7440622	35.6	26.6	21.9	28.0	7.0E-03	--		1.7E-05	2E-03	1.8E-06	3E-04	9.6E-07		1.0E-07			2.2E-05	3E-03	2.3E-06	3E-04	1.2E-06		1.3E-07		
	Zinc	7440666	295	90	220	202	3.0E-01	--		6.9E-05	2E-04	7.4E-06	2E-05	4.0E-06		4.2E-07			1.5E-04	5E-04	1.7E-05	6E-05	8.8E-06		9.5E-07		
								Total			**9E-02**		**9E-03**		**2E-07**		**2E-08**	**2E-07**		**1E-01**		**1E-02**		**4E-07**		**4E-08**	**4E-07**
										Total HQ or Risks > LOPC?:		**No**							**Total HQ or Risks > LOPC?:**		**Yes**					

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Short-term

Exposure Area: Columbia Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	7.67E-07	8.22E-08
Cancer:	4.38E-08	4.70E-09

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	11,617	10,660	8,947	10,408	1.0E+00	--		8.9E-03	9E-03	9.5E-04	1E-03	5.1E-04		5.5E-05			8.2E-03	8E-03	8.8E-04	9E-04	4.7E-04		5.0E-05		
	Antimony	7440360	1.1	1.0	1.0	1.0	4.0E-04	--		8.6E-07	2E-03	9.3E-08	2E-04	4.9E-08		5.3E-09			7.4E-07	2E-03	7.9E-08	2E-04	4.2E-08		4.5E-09		
	Arsenic	7440382	4.7	5.4	3.8	4.6	2.4E-04	1.9E+00	(j)	3.6E-06	2E-02	3.9E-07	2E-03	2.1E-07	4E-07	2.2E-08	4E-08	4E-07	4.1E-06	2E-02	4.4E-07	2E-03	2.4E-07	4E-07	2.5E-08	5E-08	5E-07
	Barium	7440393	116	100	81	99	2.0E-01	--		8.9E-05	4E-04	9.5E-06	5E-05	5.1E-06		5.4E-07			7.6E-05	4E-04	8.2E-06	4E-05	4.4E-06		4.7E-07		
	Beryllium	7440417	0.86	0.71	0.57	0.71	2.0E-03	--		6.6E-07	3E-04	7.0E-08	4E-05	3.8E-08		4.0E-09			5.4E-07	3E-04	5.8E-08	3E-05	3.1E-08		3.3E-09		
	Cadmium	7440439	1.63	0.45	0.33	0.80	1.0E-03	--	(a)	1.2E-06	1E-03	1.3E-07	1E-04	7.1E-08		7.6E-09			3.4E-07	3E-04	3.7E-08	4E-05	2.0E-08		2.1E-09		
	Calcium	7440702	2,980	2,333	2,017	2,443	--	--		2.3E-03		2.4E-04		1.3E-04		1.4E-05			1.8E-03		1.9E-04		1.0E-04		1.1E-05		
	Chromium	7440473	16.9	14.3	12.1	14.4	1.5E+00	--	(b)	1.3E-05	9E-06	1.4E-06	9E-07	7.4E-07		8.0E-08			1.1E-05	7E-06	1.2E-06	8E-07	6.3E-07		6.7E-08		
	Cobalt	7440484	7.7	6.3	5.4	6.5	3.0E-04	--		5.9E-06	2E-02	6.3E-07	2E-03	3.4E-07		3.6E-08			4.9E-06	2E-02	5.2E-07	2E-03	2.8E-07		3.0E-08		
	Copper	7440508	19	11	9	13	4.0E-02	--		1.5E-05	4E-04	1.6E-06	4E-05	8.4E-07		9.0E-08			8.7E-06	2E-04	9.4E-07	2E-05	5.0E-07		5.4E-08		
	Iron	7439896	16,700	15,933	14,400	15,678	7.0E-01	--		1.3E-02	2E-02	1.4E-03	2E-03	7.3E-04		7.8E-05			1.2E-02	2E-02	1.3E-03	2E-03	7.0E-04		7.5E-05		
	Lead	7439921	58	18	11	29			(c)																		
	Magnesium	7439954	4,107	3,890	3,487	3,828	--	--		3.2E-03		3.4E-04		1.8E-04		1.9E-05			3.0E-03		3.2E-04		1.7E-04		1.8E-05		
	Manganese	7439965	283	190	167	214	4.7E-02	--	(d)	2.2E-04	5E-03	2.3E-05	5E-04	1.2E-05		1.3E-06			1.5E-04	3E-03	1.6E-05	3E-04	8.3E-06		8.9E-07		
	Mercury	7439976	0.136	0.029	0.017	0.061	3.0E-04	--	(i)	1.0E-07	3E-04	1.1E-08	4E-05	6.0E-09		6.4E-10			2.2E-08	7E-05	2.4E-09	8E-06	1.3E-09		1.3E-10		
	Nickel	7440020	14.6	11.8	10.2	12.2	2.0E-02	--		1.1E-05	6E-04	1.2E-06	6E-05	6.4E-07		6.8E-08			9.0E-06	5E-04	9.7E-07	5E-05	5.2E-07		5.5E-08		
	Potassium	7440097	2,210	1,840	1,413	1,821	--	--		1.7E-03		1.8E-04		9.7E-05		1.0E-05			1.4E-03		1.5E-04		8.1E-05		8.6E-06		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.55	0.52	0.53	0.54	5.0E-03	--		4.2E-07	8E-05	4.5E-08	9E-06	2.4E-08		2.6E-09			4.0E-07	8E-05	4.3E-08	9E-06	2.3E-08		2.5E-09		
	Sodium	7440235	144	103	93	113	--	--		1.1E-04		1.2E-05		6.3E-06		6.7E-07			7.9E-05		8.5E-06		4.5E-06		4.8E-07		
	Thallium	7440280	1.37	1.32	1.33	1.34	6.5E-05	--		1.0E-06	2E-02	1.1E-07	2E-03	6.0E-08		6.4E-09			1.0E-06	2E-02	1.1E-07	2E-03	5.8E-08		6.2E-09		
	Uranium	7440611	10.2	10.5	10.6	10.4	6.0E-04	--	(e)	7.8E-06	1E-02	8.4E-07	1E-03	4.5E-07		4.8E-08			8.1E-06	1E-02	8.6E-07	1E-03	4.6E-07		4.9E-08		
	Vanadium	7440622	23.0	21.0	18.0	20.7	7.0E-03	--		1.8E-05	3E-03	1.9E-06	3E-04	1.0E-06		1.1E-07			1.6E-05	2E-03	1.7E-06	2E-04	9.2E-07		9.9E-08		
	Zinc	7440666	233	143	120	165	3.0E-01	--		1.8E-04	6E-04	1.9E-05	6E-05	1.0E-05		1.1E-06			1.1E-04	4E-04	1.2E-05	4E-05	6.3E-06		6.7E-07		
									Total		**1E-01**		**1E-02**		**4E-07**		**4E-08**	**4E-07**		**1E-01**		**1E-02**		**4E-07**		**5E-08**	**5E-07**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**No**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Short-term

Exposure Area: Columbia Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	7.67E-07	8.22E-08
Cancer:	4.38E-08	4.70E-09

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	11,617	10,660	8,947	10,408	1.0E+00	--		6.9E-03	7E-03	7.4E-04	7E-04	3.9E-04		4.2E-05			8.0E-03	8E-03	8.6E-04	9E-04	4.6E-04		4.9E-05		
	Antimony	7440360	1.1	1.0	1.0	1.0	4.0E-04	--		8.0E-07	2E-03	8.6E-08	2E-04	4.6E-08		4.9E-09			8.0E-07	2E-03	8.6E-08	2E-04	4.6E-08		4.9E-09		
	Arsenic	7440382	4.7	5.4	3.8	4.6	2.4E-04	1.9E+00	(j)	2.9E-06	1E-02	3.2E-07	1E-03	1.7E-07	3E-07	1.8E-08	3E-08	3E-07	3.6E-06	1E-02	3.8E-07	2E-03	2.0E-07	4E-07	2.2E-08	4E-08	4E-07
	Barium	7440393	116	100	81	99	2.0E-01	--		6.2E-05	3E-04	6.7E-06	3E-05	3.6E-06		3.8E-07			7.6E-05	4E-04	8.1E-06	4E-05	4.3E-06		4.6E-07		
	Beryllium	7440417	0.86	0.71	0.57	0.71	2.0E-03	--		4.3E-07	2E-04	4.7E-08	2E-05	2.5E-08		2.7E-09			5.4E-07	3E-04	5.8E-08	3E-05	3.1E-08		3.3E-09		
	Cadmium	7440439	1.63	0.45	0.33	0.80	1.0E-03	--	(a)	2.6E-07	3E-04	2.7E-08	3E-05	1.5E-08		1.6E-09			6.2E-07	6E-04	6.6E-08	7E-05	3.5E-08		3.8E-09		
	Calcium	7440702	2,980	2,333	2,017	2,443	--	--		1.5E-03		1.7E-04		8.8E-05		9.5E-06			1.9E-03		2.0E-04		1.1E-04		1.1E-05		
	Chromium	7440473	16.9	14.3	12.1	14.4	1.5E+00	--	(b)	9.3E-06	6E-06	1.0E-06	7E-07	5.3E-07		5.7E-08			1.1E-05	7E-06	1.2E-06	8E-07	6.3E-07		6.8E-08		
	Cobalt	7440484	7.7	6.3	5.4	6.5	3.0E-04	--		4.2E-06	1E-02	4.5E-07	1E-03	2.4E-07		2.6E-08			5.0E-06	2E-02	5.3E-07	2E-03	2.8E-07		3.0E-08		
	Copper	7440508	19	11	9	13	4.0E-02	--		6.7E-06	2E-04	7.2E-07	2E-05	3.8E-07		4.1E-08			1.0E-05	3E-04	1.1E-06	3E-05	5.7E-07		6.1E-08		
	Iron	7439896	16,700	15,933	14,400	15,678	7.0E-01	--		1.1E-02	2E-02	1.2E-03	2E-03	6.3E-04		6.8E-05			1.2E-02	2E-02	1.3E-03	2E-03	6.9E-04		7.4E-05		
	Lead	7439921	58	18	11	29			(c)																		
	Magnesium	7439954	4,107	3,890	3,487	3,828	--	--		2.7E-03		2.9E-04		1.5E-04		1.6E-05			2.9E-03		3.1E-04		1.7E-04		1.8E-05		
	Manganese	7439965	283	190	167	214	4.7E-02	--	(d)	1.3E-04	3E-03	1.4E-05	3E-04	7.3E-06		7.8E-07			1.6E-04	4E-03	1.8E-05	4E-04	9.4E-06		1.0E-06		
	Mercury	7439976	0.136	0.029	0.017	0.061	3.0E-04	--	(i)	1.3E-08	4E-05	1.4E-09	5E-06	7.5E-10		8.0E-11			4.6E-08	2E-04	5.0E-09	2E-05	2.7E-09		2.8E-10		
	Nickel	7440020	14.6	11.8	10.2	12.2	2.0E-02	--		7.9E-06	4E-04	8.4E-07	4E-05	4.5E-07		4.8E-08			9.4E-06	5E-04	1.0E-06	5E-05	5.3E-07		5.7E-08		
	Potassium	7440097	2,210	1,840	1,413	1,821	--	--		1.1E-03		1.2E-04		6.2E-05		6.6E-06			1.4E-03		1.5E-04		8.0E-05		8.6E-06		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.55	0.52	0.53	0.54	5.0E-03	--		4.1E-07	8E-05	4.4E-08	9E-06	2.3E-08		2.5E-09			4.1E-07	8E-05	4.4E-08	9E-06	2.3E-08		2.5E-09		
	Sodium	7440235	144	103	93	113	--	--		7.1E-05		7.7E-06		4.1E-06		4.4E-07			8.7E-05		9.3E-06		5.0E-06		5.3E-07		
	Thallium	7440280	1.37	1.32	1.33	1.34	6.5E-05	--		1.0E-06	2E-02	1.1E-07	2E-03	5.8E-08		6.3E-09			1.0E-06	2E-02	1.1E-07	2E-03	5.9E-08		6.3E-09		
	Uranium	7440611	10.2	10.5	10.6	10.4	6.0E-04	--	(e)	8.1E-06	1E-02	8.7E-07	1E-03	4.6E-07		5.0E-08			8.0E-06	1E-02	8.6E-07	1E-03	4.6E-07		4.9E-08		
	Vanadium	7440622	23.0	21.0	18.0	20.7	7.0E-03	--		1.4E-05	2E-03	1.5E-06	2E-04	7.9E-07		8.4E-08			1.6E-05	2E-03	1.7E-06	2E-04	9.1E-07		9.7E-08		
	Zinc	7440666	233	143	120	165	3.0E-01	--		1.1E-04	4E-04	1.2E-05	4E-05	6.3E-06		6.7E-07			1.3E-04	4E-04	1.4E-05	5E-05	7.2E-06		7.8E-07		
									Total		**9E-02**		**9E-03**		**3E-07**		**3E-08**	**3E-07**		**1E-01**		**1E-02**		**4E-07**		**4E-08**	**4E-07**
										Total HQ or Risks > LOPC?:		**No**							**Total HQ or Risks > LOPC?:**		**No**					

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Short-term

Exposure Area: Dalles Orchard

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	7.67E-07	8.22E-08
Cancer:	4.38E-08	4.70E-09

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	11,300	11,900	10,700	11,300	1.0E+00	--		8.7E-03	9E-03	9.3E-04	9E-04	5.0E-04		5.3E-05			9.1E-03	9E-03	9.8E-04	1E-03	5.2E-04		5.6E-05		
	Antimony	7440360	24.8	32.4	11.2	22.8	4.0E-04	--		1.9E-05	5E-02	2.0E-06	5E-03	1.1E-06		1.2E-07			2.5E-05	6E-02	2.7E-06	7E-03	1.4E-06		1.5E-07		
	Arsenic	7440382	18.1	22.5	13.7	18.1	2.4E-04	1.9E+00	(j)	1.4E-05	6E-02	1.5E-06	6E-03	7.9E-07	1E-06	8.5E-08	2E-07	2E-06	1.7E-05	7E-02	1.8E-06	8E-03	9.9E-07	2E-06	1.1E-07	2E-07	2E-06
	Barium	7440393	1,020	1,070	686	925	2.0E-01	--		7.8E-04	4E-03	8.4E-05	4E-04	4.5E-05		4.8E-06			8.2E-04	4E-03	8.8E-05	4E-04	4.7E-05		5.0E-06		
	Beryllium	7440417	0.84	0.88	0.77	0.83	2.0E-03	--		6.4E-07	3E-04	6.9E-08	3E-05	3.7E-08		3.9E-09			6.8E-07	3E-04	7.2E-08	4E-05	3.9E-08		4.1E-09		
	Cadmium	7440439	2.10	1.90	2.50	2.17	1.0E-03	--	(a)	1.6E-06	2E-03	1.7E-07	2E-04	9.2E-08		9.9E-09			1.5E-06	1E-03	1.6E-07	2E-04	8.3E-08		8.9E-09		
	Calcium	7440702	37,700	39,900	35,100	37,567	--	--		2.9E-02		3.1E-03		1.7E-03		1.8E-04			3.1E-02		3.3E-03		1.7E-03		1.9E-04		
	Chromium	7440473	71.9	77.6	51.3	66.9	1.5E+00	--	(b)	5.5E-05	4E-05	5.9E-06	4E-06	3.2E-06		3.4E-07			6.0E-05	4E-05	6.4E-06	4E-06	3.4E-06		3.6E-07		
	Cobalt	7440484	35.1	36.8	22.4	31.4	3.0E-04	--		2.7E-05	9E-02	2.9E-06	1E-02	1.5E-06		1.6E-07			2.8E-05	9E-02	3.0E-06	1E-02	1.6E-06		1.7E-07		
	Copper	7440508	1,300	1,380	802	1,161	4.0E-02	--		1.0E-03	2E-02	1.1E-04	3E-03	5.7E-05		6.1E-06			1.1E-03	3E-02	1.1E-04	3E-03	6.0E-05		6.5E-06		
	Iron	7439896	108,000	110,000	82,100	100,033	7.0E-01	--		8.3E-02	1E-01	8.9E-03	1E-02	4.7E-03		5.1E-04			8.4E-02	1E-01	9.0E-03	1E-02	4.8E-03		5.2E-04		
	Lead	7439921	205	190	214	203			(c)																		
	Magnesium	7439954	5,640	6,450	9,090	7,060	--	--		4.3E-03		4.6E-04		2.5E-04		2.6E-05			4.9E-03		5.3E-04		2.8E-04		3.0E-05		
	Manganese	7439965	2,110	2,200	1,660	1,990	4.7E-02	--	(d)	1.6E-03	3E-02	1.7E-04	4E-03	9.2E-05		9.9E-06			1.7E-03	4E-02	1.8E-04	4E-03	9.6E-05		1.0E-05		
	Mercury	7439976	0.034	0.044	0.073	0.050	3.0E-04	--	(i)	2.6E-08	9E-05	2.8E-09	9E-06	1.5E-09		1.6E-10			3.4E-08	1E-04	3.6E-09	1E-05	1.9E-09		2.1E-10		
	Nickel	7440020	10.4	12.1	10.4	11.0	2.0E-02	--		8.0E-06	4E-04	8.5E-07	4E-05	4.6E-07		4.9E-08			9.3E-06	5E-04	9.9E-07	5E-05	5.3E-07		5.7E-08		
	Potassium	7440097	2,270	2,300	2,030	2,200	--	--		1.7E-03		1.9E-04		1.0E-04		1.1E-05			1.8E-03		1.9E-04		1.0E-04		1.1E-05		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.50	0.49	0.50	0.50	5.0E-03	--		3.8E-07	8E-05	4.1E-08	8E-06	2.2E-08		2.3E-09			3.7E-07	7E-05	4.0E-08	8E-06	2.1E-08		2.3E-09		
	Sodium	7440235	1,200	1,300	811	1,104	--	--		9.2E-04		9.9E-05		5.3E-05		5.6E-06			1.0E-03		1.1E-04		5.7E-05		6.1E-06		
	Thallium	7440280	0.83	1.10	1.30	1.08	6.5E-05	--		6.4E-07	1E-02	6.8E-08	1E-03	3.6E-08		3.9E-09			8.4E-07	1E-02	9.0E-08	1E-03	4.8E-08		5.2E-09		
	Uranium	7440611	10.2	9.7	10.5	10.1	6.0E-04	--	(e)	7.8E-06	1E-02	8.4E-07	1E-03	4.5E-07		4.8E-08			7.4E-06	1E-02	8.0E-07	1E-03	4.3E-07		4.6E-08		
	Vanadium	7440622	28.2	29.2	27.2	28.2	7.0E-03	--		2.2E-05	3E-03	2.3E-06	3E-04	1.2E-06		1.3E-07			2.2E-05	3E-03	2.4E-06	3E-04	1.3E-06		1.4E-07		
	Zinc	7440666	8,700	8,410	6,560	7,890	3.0E-01	--		6.7E-03	2E-02	7.2E-04	2E-03	3.8E-04		4.1E-05			6.5E-03	2E-02	6.9E-04	2E-03	3.7E-04		3.9E-05		
									Total		**4E-01**		**5E-02**		**1E-06**		**2E-07**	**2E-06**		**5E-01**		**5E-02**		**2E-06**		**2E-07**	**2E-06**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**			

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Short-term

Exposure Area: Dalles Orchard

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	7.67E-07	8.22E-08
Cancer:	4.38E-08	4.70E-09

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	11,300	11,900	10,700	11,300	1.0E+00	--		8.2E-03	8E-03	8.8E-04	9E-04	4.7E-04		5.0E-05			8.7E-03	9E-03	9.3E-04	9E-04	5.0E-04		5.3E-05		
	Antimony	7440360	24.8	32.4	11.2	22.8	4.0E-04	--		8.6E-06	2E-02	9.2E-07	2E-03	4.9E-07		5.3E-08			1.7E-05	4E-02	1.9E-06	5E-03	1.0E-06		1.1E-07		
	Arsenic	7440382	18.1	22.5	13.7	18.1	2.4E-04	1.9E+00	(j)	1.1E-05	4E-02	1.1E-06	5E-03	6.0E-07	1E-06	6.4E-08	1E-07	1E-06	1.4E-05	6E-02	1.5E-06	6E-03	7.9E-07	1E-06	8.5E-08	2E-07	2E-06
	Barium	7440393	1,020	1,070	686	925	2.0E-01	--		5.3E-04	3E-03	5.6E-05	3E-04	3.0E-05		3.2E-06			7.1E-04	4E-03	7.6E-05	4E-04	4.1E-05		4.3E-06		
	Beryllium	7440417	0.84	0.88	0.77	0.83	2.0E-03	--		5.9E-07	3E-04	6.3E-08	3E-05	3.4E-08		3.6E-09			6.4E-07	3E-04	6.8E-08	3E-05	3.6E-08		3.9E-09		
	Cadmium	7440439	2.10	1.90	2.50	2.17	1.0E-03	--	(a)	1.9E-06	2E-03	2.1E-07	2E-04	1.1E-07		1.2E-08			1.7E-06	2E-03	1.8E-07	2E-04	9.5E-08		1.0E-08		
	Calcium	7440702	37,700	39,900	35,100	37,567	--	--		2.7E-02		2.9E-03		1.5E-03		1.6E-04			2.9E-02		3.1E-03		1.6E-03		1.8E-04		
	Chromium	7440473	71.9	77.6	51.3	66.9	1.5E+00	--	(b)	3.9E-05	3E-05	4.2E-06	3E-06	2.2E-06		2.4E-07			5.1E-05	3E-05	5.5E-06	4E-06	2.9E-06		3.1E-07		
	Cobalt	7440484	35.1	36.8	22.4	31.4	3.0E-04	--		1.7E-05	6E-02	1.8E-06	6E-03	9.8E-07		1.1E-07			2.4E-05	8E-02	2.6E-06	9E-03	1.4E-06		1.5E-07		
	Copper	7440508	1,300	1,380	802	1,161	4.0E-02	--		6.2E-04	2E-02	6.6E-05	2E-03	3.5E-05		3.8E-06			8.9E-04	2E-02	9.5E-05	2E-03	5.1E-05		5.5E-06		
	Iron	7439896	108,000	110,000	82,100	100,033	7.0E-01	--		6.3E-02	9E-02	6.7E-03	1E-02	3.6E-03		3.9E-04			7.7E-02	1E-01	8.2E-03	1E-02	4.4E-03		4.7E-04		
	Lead	7439921	205	190	214	203			(c)																		
	Magnesium	7439954	5,640	6,450	9,090	7,060	--	--		7.0E-03		7.5E-04		4.0E-04		4.3E-05			5.4E-03		5.8E-04		3.1E-04		3.3E-05		
	Manganese	7439965	2,110	2,200	1,660	1,990	4.7E-02	--	(d)	1.3E-03	3E-02	1.4E-04	3E-03	7.3E-05		7.8E-06			1.5E-03	3E-02	1.6E-04	4E-03	8.7E-05		9.3E-06		
	Mercury	7439976	0.034	0.044	0.073	0.050	3.0E-04	--	(i)	5.6E-08	2E-04	6.0E-09	2E-05	3.2E-09		3.4E-10			3.9E-08	1E-04	4.1E-09	1E-05	2.2E-09		2.4E-10		
	Nickel	7440020	10.4	12.1	10.4	11.0	2.0E-02	--		8.0E-06	4E-04	8.5E-07	4E-05	4.6E-07		4.9E-08			8.4E-06	4E-04	9.0E-07	5E-05	4.8E-07		5.2E-08		
	Potassium	7440097	2,270	2,300	2,030	2,200	--	--		1.6E-03		1.7E-04		8.9E-05		9.5E-06			1.7E-03		1.8E-04		9.6E-05		1.0E-05		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.50	0.49	0.50	0.50	5.0E-03	--		3.8E-07	8E-05	4.1E-08	8E-06	2.2E-08		2.3E-09			3.8E-07	8E-05	4.1E-08	8E-06	2.2E-08		2.3E-09		
	Sodium	7440235	1,200	1,300	811	1,104	--	--		6.2E-04		6.7E-05		3.6E-05		3.8E-06			8.5E-04		9.1E-05		4.8E-05		5.2E-06		
	Thallium	7440280	0.83	1.10	1.30	1.08	6.5E-05	--		1.0E-06	2E-02	1.1E-07	2E-03	5.7E-08		6.1E-09			8.3E-07	1E-02	8.8E-08	1E-03	4.7E-08		5.1E-09		
	Uranium	7440611	10.2	9.7	10.5	10.1	6.0E-04	--	(e)	8.1E-06	1E-02	8.6E-07	1E-03	4.6E-07		4.9E-08			7.8E-06	1E-02	8.3E-07	1E-03	4.4E-07		4.8E-08		
	Vanadium	7440622	28.2	29.2	27.2	28.2	7.0E-03	--		2.1E-05	3E-03	2.2E-06	3E-04	1.2E-06		1.3E-07			2.2E-05	3E-03	2.3E-06	3E-04	1.2E-06		1.3E-07		
	Zinc	7440666	8,700	8,410	6,560	7,890	3.0E-01	--		6.5E-03	2E-02	6.9E-04	2E-03	3.7E-04		3.9E-05			6.1E-03	2E-02	6.5E-04	2E-03	3.5E-04		3.7E-05		
									Total		3E-01		3E-02		1E-06		1E-07	1E-06		4E-01		4E-02			1E-06		2E-07	2E-06
										Total HQ or Risks > LOPC?: Yes									Total HQ or Risks > LOPC?: Yes								

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Short-term

Exposure Area: French Rocks Boat Launch

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	7.67E-07	8.22E-08
Cancer:	4.38E-08	4.70E-09

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	6,370	6,050	6,550	6,323	1.0E+00	--		4.9E-03	5E-03	5.2E-04	5E-04	2.8E-04		3.0E-05			4.6E-03	5E-03	5.0E-04	5E-04	2.7E-04		2.8E-05		
	Antimony	7440360	1.0	1.0	0.4	0.8	4.0E-04	--		7.3E-07	2E-03	7.8E-08	2E-04	4.2E-08		4.5E-09			7.7E-07	2E-03	8.2E-08	2E-04	4.4E-08		4.7E-09		
	Arsenic	7440382	2.6	2.4	2.4	2.5	2.4E-04	1.9E+00	(j)	2.0E-06	8E-03	2.1E-07	9E-04	1.1E-07	2E-07	1.2E-08	2E-08	2E-07	1.8E-06	8E-03	2.0E-07	8E-04	1.1E-07	2E-07	1.1E-08	2E-08	2E-07
	Barium	7440393	56	58	62	59	2.0E-01	--		4.3E-05	2E-04	4.6E-06	2E-05	2.5E-06		2.6E-07			4.4E-05	2E-04	4.7E-06	2E-05	2.5E-06		2.7E-07		
	Beryllium	7440417	0.52	0.51	0.46	0.50	2.0E-03	--		4.0E-07	2E-04	4.3E-08	2E-05	2.3E-08		2.4E-09			3.9E-07	2E-04	4.2E-08	2E-05	2.2E-08		2.4E-09		
	Cadmium	7440439	0.45	0.33	0.51	0.43	1.0E-03	--	(a)	3.5E-07	3E-04	3.7E-08	4E-05	2.0E-08		2.1E-09			2.5E-07	3E-04	2.7E-08	3E-05	1.4E-08		1.5E-09		
	Calcium	7440702	3,050	2,430	4,830	3,437	--	--		2.3E-03		2.5E-04		1.3E-04		1.4E-05			1.9E-03		2.0E-04		1.1E-04		1.1E-05		
	Chromium	7440473	12.7	12.4	12.8	12.6	1.5E+00	--	(b)	9.7E-06	6E-06	1.0E-06	7E-07	5.6E-07		6.0E-08			9.5E-06	6E-06	1.0E-06	7E-07	5.4E-07		5.8E-08		
	Cobalt	7440484	4.9	4.3	4.5	4.6	3.0E-04	--		3.8E-06	1E-02	4.0E-07	1E-03	2.1E-07		2.3E-08			3.3E-06	1E-02	3.5E-07	1E-03	1.9E-07		2.0E-08		
	Copper	7440508	14	15	11	13	4.0E-02	--		1.1E-05	3E-04	1.1E-06	3E-05	6.0E-07		6.5E-08			1.1E-05	3E-04	1.2E-06	3E-05	6.4E-07		6.8E-08		
	Iron	7439896	12,000	9,960	11,000	10,987	7.0E-01	--		9.2E-03	1E-02	9.9E-04	1E-03	5.3E-04		5.6E-05			7.6E-03	1E-02	8.2E-04	1E-03	4.4E-04		4.7E-05		
	Lead	7439921	22	19	21	20			(c)																		
	Magnesium	7439954	3,980	2,770	4,590	3,780	--	--		3.1E-03		3.3E-04		1.7E-04		1.9E-05			2.1E-03		2.3E-04		1.2E-04		1.3E-05		
	Manganese	7439965	260	171	208	213	4.7E-02	--	(d)	2.0E-04	4E-03	2.1E-05	5E-04	1.1E-05		1.2E-06			1.3E-04	3E-03	1.4E-05	3E-04	7.5E-06		8.0E-07		
	Mercury	7439976	0.030	0.019	0.050	0.033	3.0E-04	--	(i)	2.3E-08	8E-05	2.5E-09	8E-06	1.3E-09		1.4E-10			1.5E-08	5E-05	1.6E-09	5E-06	8.3E-10		8.9E-11		
	Nickel	7440020	10.9	9.6	15.0	11.8	2.0E-02	--		8.4E-06	4E-04	9.0E-07	4E-05	4.8E-07		5.1E-08			7.4E-06	4E-04	7.9E-07	4E-05	4.2E-07		4.5E-08		
	Potassium	7440097	775	843	749	789	--	--		5.9E-04		6.4E-05		3.4E-05		3.6E-06			6.5E-04		6.9E-05		3.7E-05		4.0E-06		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.55	0.50	0.45	0.50	5.0E-03	--		4.2E-07	8E-05	4.5E-08	9E-06	2.4E-08		2.6E-09			3.8E-07	8E-05	4.1E-08	8E-06	2.2E-08		2.3E-09		
	Sodium	7440235	155	131	134	140	--	--		1.2E-04		1.3E-05		6.8E-06		7.3E-07			1.0E-04		1.1E-05		5.7E-06		6.2E-07		
	Thallium	7440280	1.40	1.30	1.10	1.27	6.5E-05	--		1.1E-06	2E-02	1.2E-07	2E-03	6.1E-08		6.6E-09			1.0E-06	2E-02	1.1E-07	2E-03	5.7E-08		6.1E-09		
	Uranium	7440611	11.1	8.4	8.9	9.4	6.0E-04	--	(e)	8.5E-06	1E-02	9.1E-07	2E-03	4.8E-07		5.2E-08			6.4E-06	1E-02	6.9E-07	1E-03	3.7E-07		3.9E-08		
	Vanadium	7440622	21.7	19.6	21.9	21.1	7.0E-03	--		1.7E-05	2E-03	1.8E-06	3E-04	9.5E-07		1.0E-07			1.5E-05	2E-03	1.6E-06	2E-04	8.6E-07		9.2E-08		
	Zinc	7440666	97	67	92	85	3.0E-01	--		7.4E-05	2E-04	8.0E-06	3E-05	4.3E-06		4.6E-07			5.2E-05	2E-04	5.5E-06	2E-05	2.9E-06		3.2E-07		
								Total			**8E-02**		**9E-03**		**2E-07**		**2E-08**	**2E-07**		**7E-02**		**7E-03**		**2E-07**		**2E-08**	**2E-07**
										Total HQ or Risks > LOPC?:		**No**							**Total HQ or Risks > LOPC?:**		**No**						

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Short-term

Exposure Area: French Rocks Boat Launch

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	7.67E-07	8.22E-08
Cancer:	4.38E-08	4.70E-09

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	6,370	6,050	6,550	6,323	1.0E+00	--		5.0E-03	5E-03	5.4E-04	5E-04	2.9E-04		3.1E-05			4.9E-03	5E-03	5.2E-04	5E-04	2.8E-04		3.0E-05		
	Antimony	7440360	1.0	1.0	0.4	0.8	4.0E-04	--		3.2E-07	8E-04	3.5E-08	9E-05	1.8E-08		2.0E-09			6.1E-07	2E-03	6.5E-08	2E-04	3.5E-08		3.7E-09		
	Arsenic	7440382	2.6	2.4	2.4	2.5	2.4E-04	1.9E+00	(j)	1.8E-06	8E-03	2.0E-07	8E-04	1.1E-07	2E-07	1.1E-08	2E-08	2E-07	1.9E-06	8E-03	2.0E-07	8E-04	1.1E-07	2E-07	1.2E-08	2E-08	2E-07
	Barium	7440393	56	58	62	59	2.0E-01	--		4.7E-05	2E-04	5.1E-06	3E-05	2.7E-06		2.9E-07			4.5E-05	2E-04	4.8E-06	2E-05	2.6E-06		2.8E-07		
	Beryllium	7440417	0.52	0.51	0.46	0.50	2.0E-03	--		3.5E-07	2E-04	3.8E-08	2E-05	2.0E-08		2.2E-09			3.8E-07	2E-04	4.1E-08	2E-05	2.2E-08		2.3E-09		
	Cadmium	7440439	0.45	0.33	0.51	0.43	1.0E-03	--	(a)	3.9E-07	4E-04	4.2E-08	4E-05	2.2E-08		2.4E-09			3.3E-07	3E-04	3.5E-08	4E-05	1.9E-08		2.0E-09		
	Calcium	7440702	3,050	2,430	4,830	3,437	--	--		3.7E-03		4.0E-04		2.1E-04		2.3E-05			2.6E-03		2.8E-04		1.5E-04		1.6E-05		
	Chromium	7440473	12.7	12.4	12.8	12.6	1.5E+00	--	(b)	9.8E-06	7E-06	1.1E-06	7E-07	5.6E-07		6.0E-08			9.7E-06	6E-06	1.0E-06	7E-07	5.5E-07		5.9E-08		
	Cobalt	7440484	4.9	4.3	4.5	4.6	3.0E-04	--		3.5E-06	1E-02	3.7E-07	1E-03	2.0E-07		2.1E-08			3.5E-06	1E-02	3.8E-07	1E-03	2.0E-07		2.1E-08		
	Copper	7440508	14	15	11	13	4.0E-02	--		8.4E-06	2E-04	9.0E-07	2E-05	4.8E-07		5.1E-08			1.0E-05	3E-04	1.1E-06	3E-05	5.7E-07		6.1E-08		
	Iron	7439896	12,000	9,960	11,000	10,987	7.0E-01	--		8.4E-03	1E-02	9.0E-04	1E-03	4.8E-04		5.2E-05			8.4E-03	1E-02	9.0E-04	1E-03	4.8E-04		5.2E-05		
	Lead	7439921	22	19	21	20			(c)																		
	Magnesium	7439954	3,980	2,770	4,590	3,780	--	--		3.5E-03		3.8E-04		2.0E-04		2.2E-05			2.9E-03		3.1E-04		1.7E-04		1.8E-05		
	Manganese	7439965	260	171	208	213	4.7E-02	--	(d)	1.6E-04	3E-03	1.7E-05	4E-04	9.1E-06		9.8E-07			1.6E-04	4E-03	1.8E-05	4E-04	9.3E-06		1.0E-06		
	Mercury	7439976	0.030	0.019	0.050	0.033	3.0E-04	--	(i)	3.8E-08	1E-04	4.1E-09	1E-05	2.2E-09		2.3E-10			2.5E-08	8E-05	2.7E-09	9E-06	1.4E-09		1.5E-10		
	Nickel	7440020	10.9	9.6	15.0	11.8	2.0E-02	--		1.2E-05	6E-04	1.2E-06	6E-05	6.6E-07		7.0E-08			9.1E-06	5E-04	9.7E-07	5E-05	5.2E-07		5.6E-08		
	Potassium	7440097	775	843	749	789	--	--		5.7E-04		6.2E-05		3.3E-05		3.5E-06			6.1E-04		6.5E-05		3.5E-05		3.7E-06		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.55	0.50	0.45	0.50	5.0E-03	--		3.4E-07	7E-05	3.7E-08	7E-06	2.0E-08		2.1E-09			3.8E-07	8E-05	4.1E-08	8E-06	2.2E-08		2.3E-09		
	Sodium	7440235	155	131	134	140	--	--		1.0E-04		1.1E-05		5.9E-06		6.3E-07			1.1E-04		1.2E-05		6.1E-06		6.6E-07		
	Thallium	7440280	1.40	1.30	1.10	1.27	6.5E-05	--		8.4E-07	1E-02	9.0E-08	1E-03	4.8E-08		5.2E-09			9.7E-07	1E-02	1.0E-07	2E-03	5.6E-08		5.9E-09		
	Uranium	7440611	11.1	8.4	8.9	9.4	6.0E-04	--	(e)	6.8E-06	1E-02	7.3E-07	1E-03	3.9E-07		4.2E-08			7.2E-06	1E-02	7.8E-07	1E-03	4.1E-07		4.4E-08		
	Vanadium	7440622	21.7	19.6	21.9	21.1	7.0E-03	--		1.7E-05	2E-03	1.8E-06	3E-04	9.6E-07		1.0E-07			1.6E-05	2E-03	1.7E-06	2E-04	9.2E-07		9.9E-08		
	Zinc	7440666	97	67	92	85	3.0E-01	--		5.2E-05	2E-04	5.5E-06	2E-05	2.9E-06		3.2E-07			6.5E-05	2E-04	7.0E-06	2E-05	3.7E-06		4.0E-07		
									Total		**7E-02**		**7E-03**		**2E-07**		**2E-08**	**2E-07**		**7E-02**		**8E-03**		**2E-07**		**2E-08**	**2E-07**
										Total HQ or Risks > LOPC?:		**No**							**Total HQ or Risks > LOPC?:**		**No**					

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Short-term

Exposure Area: Haag Cove

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	7.67E-07	8.22E-08
Cancer:	4.38E-08	4.70E-09

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	13,000	7,660	3,000	7,887	1.0E+00	--		1.0E-02	1E-02	1.1E-03	1E-03	5.7E-04		6.1E-05			5.9E-03	6E-03	6.3E-04	6E-04	3.4E-04		3.6E-05		
	Antimony	7440360	1.8	1.8	0.3	1.3	4.0E-04	--		1.4E-06	3E-03	1.5E-07	4E-04	7.9E-08		8.5E-09			1.4E-06	3E-03	1.5E-07	4E-04	7.9E-08		8.5E-09		
	Arsenic	7440382	2.3	1.4	1.0	1.6	2.4E-04	1.9E+00	(j)	1.8E-06	7E-03	1.9E-07	8E-04	1.0E-07	2E-07	1.1E-08	2E-08	2E-07	1.1E-06	4E-03	1.2E-07	5E-04	6.1E-08	1E-07	6.6E-09	1E-08	1E-07
	Barium	7440393	232	102	30	121	2.0E-01	--		1.8E-04	9E-04	1.9E-05	1E-04	1.0E-05		1.1E-06			7.8E-05	4E-04	8.4E-06	4E-05	4.5E-06		4.8E-07		
	Beryllium	7440417	1.20	0.69	0.28	0.72	2.0E-03	--		9.2E-07	5E-04	9.9E-08	5E-05	5.3E-08		5.6E-09			5.3E-07	3E-04	5.7E-08	3E-05	3.0E-08		3.2E-09		
	Cadmium	7440439	7.80	4.40	0.32	4.17	1.0E-03	--	(a)	6.0E-06	6E-03	6.4E-07	6E-04	3.4E-07		3.7E-08			3.4E-06	3E-03	3.6E-07	4E-04	1.9E-07		2.1E-08		
	Calcium	7440702	5,670	2,550	879	3,033	--	--		4.3E-03		4.7E-04		2.5E-04		2.7E-05			2.0E-03		2.1E-04		1.1E-04		1.2E-05		
	Chromium	7440473	24.8	14.6	5.6	15.0	1.5E+00	--	(b)	1.9E-05	1E-05	2.0E-06	1E-06	1.1E-06		1.2E-07			1.1E-05	7E-06	1.2E-06	8E-07	6.4E-07		6.9E-08		
	Cobalt	7440484	8.7	5.2	2.3	5.4	3.0E-04	--		6.7E-06	2E-02	7.2E-07	2E-03	3.8E-07		4.1E-08			4.0E-06	1E-02	4.3E-07	1E-03	2.3E-07		2.4E-08		
	Copper	7440508	34	17	4	18	4.0E-02	--		2.6E-05	7E-04	2.8E-06	7E-05	1.5E-06		1.6E-07			1.3E-05	3E-04	1.4E-06	3E-05	7.2E-07		7.7E-08		
	Iron	7439896	18,100	11,800	5,180	11,693	7.0E-01	--		1.4E-02	2E-02	1.5E-03	2E-03	7.9E-04		8.5E-05			9.1E-03	1E-02	9.7E-04	1E-03	5.2E-04		5.5E-05		
	Lead	7439921	222	136	17	125			(c)																		
	Magnesium	7439954	5,220	3,210	1,390	3,273	--	--		4.0E-03		4.3E-04		2.3E-04		2.5E-05			2.5E-03		2.6E-04		1.4E-04		1.5E-05		
	Manganese	7439965	267	158	111	179	4.7E-02	--	(d)	2.0E-04	4E-03	2.2E-05	5E-04	1.2E-05		1.3E-06			1.2E-04	3E-03	1.3E-05	3E-04	6.9E-06		7.4E-07		
	Mercury	7439976	0.800	0.290	0.050	0.380	3.0E-04	--	(i)	6.1E-07	2E-03	6.6E-08	2E-04	3.5E-08		3.8E-09			2.2E-07	7E-04	2.4E-08	8E-05	1.3E-08		1.4E-09		
	Nickel	7440020	19.7	11.2	4.1	11.7	2.0E-02	--		1.5E-05	8E-04	1.6E-06	8E-05	8.6E-07		9.3E-08			8.6E-06	4E-04	9.2E-07	5E-05	4.9E-07		5.3E-08		
	Potassium	7440097	2,260	1,120	483	1,288	--	--		1.7E-03		1.9E-04		9.9E-05		1.1E-05			8.6E-04		9.2E-05		4.9E-05		5.3E-06		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.75	0.60	0.43	0.59	5.0E-03	--		5.8E-07	1E-04	6.2E-08	1E-05	3.3E-08		3.5E-09			4.6E-07	9E-05	4.9E-08	1E-05	2.6E-08		2.8E-09		
	Sodium	7440235	242	125	60	142	--	--		1.9E-04		2.0E-05		1.1E-05		1.1E-06			9.6E-05		1.0E-05		5.5E-06		5.9E-07		
	Thallium	7440280	1.90	1.45	1.10	1.48	6.5E-05	--		1.5E-06	2E-02	1.6E-07	2E-03	8.3E-08		8.9E-09			1.1E-06	2E-02	1.2E-07	2E-03	6.4E-08		6.8E-09		
	Uranium	7440611	15.1	11.6	8.7	11.8	6.0E-04	--	(e)	1.2E-05	2E-02	1.2E-06	2E-03	6.6E-07		7.1E-08			8.9E-06	1E-02	9.5E-07	2E-03	5.1E-07		5.4E-08		
	Vanadium	7440622	29.0	19.8	9.1	19.3	7.0E-03	--		2.2E-05	3E-03	2.4E-06	3E-04	1.3E-06		1.4E-07			1.5E-05	2E-03	1.6E-06	2E-04	8.7E-07		9.3E-08		
	Zinc	7440666	700	391	54	382	3.0E-01	--		5.4E-04	2E-03	5.8E-05	2E-04	3.1E-05		3.3E-06			3.0E-04	1E-03	3.2E-05	1E-04	1.7E-05		1.8E-06		
									Total		**1E-01**		**1E-02**		**2E-07**		**2E-08**	**2E-07**		**8E-02**		**9E-03**		**1E-07**		**1E-08**	**1E-07**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**No**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Short-term

Exposure Area: Haag Cove

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	7.67E-07	8.22E-08
Cancer:	4.38E-08	4.70E-09

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	13,000	7,660	3,000	7,887	1.0E+00	--		2.3E-03	2E-03	2.5E-04	2E-04	1.3E-04		1.4E-05			6.1E-03	6E-03	6.5E-04	6E-04	3.5E-04		3.7E-05		
	Antimony	7440360	1.8	1.8	0.3	1.3	4.0E-04	--		2.2E-07	6E-04	2.4E-08	6E-05	1.3E-08		1.4E-09			9.9E-07	2E-03	1.1E-07	3E-04	5.7E-08		6.1E-09		
	Arsenic	7440382	2.3	1.4	1.0	1.6	2.4E-04	1.9E+00	(j)	7.7E-07	3E-03	8.2E-08	3E-04	4.4E-08	8E-08	4.7E-09	9E-09	9E-08	1.2E-06	5E-03	1.3E-07	5E-04	6.9E-08	1E-07	7.4E-09	1E-08	1E-07
	Barium	7440393	232	102	30	121	2.0E-01	--		2.3E-05	1E-04	2.4E-06	1E-05	1.3E-06		1.4E-07			9.3E-05	5E-04	1.0E-05	5E-05	5.3E-06		5.7E-07		
	Beryllium	7440417	1.20	0.69	0.28	0.72	2.0E-03	--		2.1E-07	1E-04	2.3E-08	1E-05	1.2E-08		1.3E-09			5.5E-07	3E-04	5.9E-08	3E-05	3.2E-08		3.4E-09		
	Cadmium	7440439	7.80	4.40	0.32	4.17	1.0E-03	--	(a)	2.5E-07	2E-04	2.6E-08	3E-05	1.4E-08		1.5E-09			3.2E-06	3E-03	3.4E-07	3E-04	1.8E-07		2.0E-08		
	Calcium	7440702	5,670	2,550	879	3,033	--	--		6.7E-04		7.2E-05		3.9E-05		4.1E-06			2.3E-03		2.5E-04		1.3E-04		1.4E-05		
	Chromium	7440473	24.8	14.6	5.6	15.0	1.5E+00	--	(b)	4.3E-06	3E-06	4.6E-07	3E-07	2.5E-07		2.6E-08			1.2E-05	8E-06	1.2E-06	8E-07	6.6E-07		7.0E-08		
	Cobalt	7440484	8.7	5.2	2.3	5.4	3.0E-04	--		1.8E-06	6E-03	1.9E-07	6E-04	1.0E-07		1.1E-08			4.1E-06	1E-02	4.4E-07	1E-03	2.4E-07		2.5E-08		
	Copper	7440508	34	17	4	18	4.0E-02	--		3.2E-06	8E-05	3.5E-07	9E-06	1.8E-07		2.0E-08			1.4E-05	3E-04	1.5E-06	4E-05	8.0E-07		8.6E-08		
	Iron	7439896	18,100	11,800	5,180	11,693	7.0E-01	--		4.0E-03	6E-03	4.3E-04	6E-04	2.3E-04		2.4E-05			9.0E-03	1E-02	9.6E-04	1E-03	5.1E-04		5.5E-05		
	Lead	7439921	222	136	17	125			(c)																		
	Magnesium	7439954	5,220	3,210	1,390	3,273	--	--		1.1E-03		1.1E-04		6.1E-05		6.5E-06			2.5E-03		2.7E-04		1.4E-04		1.5E-05		
	Manganese	7439965	267	158	111	179	4.7E-02	--	(d)	8.5E-05	2E-03	9.1E-06	2E-04	4.9E-06		5.2E-07			1.4E-04	3E-03	1.5E-05	3E-04	7.8E-06		8.4E-07		
	Mercury	7439976	0.800	0.290	0.050	0.380	3.0E-04	--	(i)	3.8E-08	1E-04	4.1E-09	1E-05	2.2E-09		2.3E-10			2.9E-07	1E-03	3.1E-08	1E-04	1.7E-08		1.8E-09		
	Nickel	7440020	19.7	11.2	4.1	11.7	2.0E-02	--		3.1E-06	2E-04	3.4E-07	2E-05	1.8E-07		1.9E-08			8.9E-06	4E-04	9.6E-07	5E-05	5.1E-07		5.5E-08		
	Potassium	7440097	2,260	1,120	483	1,288	--	--		3.7E-04		4.0E-05		2.1E-05		2.3E-06			9.9E-04		1.1E-04		5.6E-05		6.0E-06		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.75	0.60	0.43	0.59	5.0E-03	--		3.3E-07	7E-05	3.5E-08	7E-06	1.9E-08		2.0E-09			4.6E-07	9E-05	4.9E-08	1E-05	2.6E-08		2.8E-09		
	Sodium	7440235	242	125	60	142	--	--		4.6E-05		5.0E-06		2.6E-06		2.8E-07			1.1E-04		1.2E-05		6.2E-06		6.7E-07		
	Thallium	7440280	1.90	1.45	1.10	1.48	6.5E-05	--		8.4E-07	1E-02	9.0E-08	1E-03	4.8E-08		5.2E-09			1.1E-06	2E-02	1.2E-07	2E-03	6.5E-08		7.0E-09		
	Uranium	7440611	15.1	11.6	8.7	11.8	6.0E-04	--	(e)	6.6E-06	1E-02	7.1E-07	1E-03	3.8E-07		4.1E-08			9.0E-06	2E-02	9.7E-07	2E-03	5.2E-07		5.5E-08		
	Vanadium	7440622	29.0	19.8	9.1	19.3	7.0E-03	--		7.0E-06	1E-03	7.5E-07	1E-04	4.0E-07		4.3E-08			1.5E-05	2E-03	1.6E-06	2E-04	8.5E-07		9.1E-08		
	Zinc	7440666	700	391	54	382	3.0E-01	--		3.0E-04	1E-03	3.2E-05	1E-04	1.7E-05		1.8E-06			2.9E-04	1E-03	3.1E-05	1E-04	1.7E-05		1.8E-06		
									Total		**5E-02**		**5E-03**		**8E-08**		**9E-09**	**9E-08**		**8E-02**		**9E-03**		**1E-07**		**1E-08**	**1E-07**
										Total HQ or Risks > LOPC?:		**No**							**Total HQ or Risks > LOPC?:**		**No**					

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Short-term

Exposure Area: Keller Ferry No. 2

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	7.67E-07	8.22E-08
Cancer:	4.38E-08	4.70E-09

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	8,620	8,030	6,270	7,640	1.0E+00	--		6.6E-03	7E-03	7.1E-04	7E-04	3.8E-04		4.0E-05			6.2E-03	6E-03	6.6E-04	7E-04	3.5E-04		3.8E-05		
	Antimony	7440360	#N/A	#N/A	#N/A	#N/A	4.0E-04	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Arsenic	7440382	4.7	4.9	4.0	4.5	2.4E-04	1.9E+00	(j)	3.6E-06	2E-02	3.9E-07	2E-03	2.1E-07	4E-07	2.2E-08	4E-08	4E-07	3.8E-06	2E-02	4.0E-07	2E-03	2.1E-07	4E-07	2.3E-08	4E-08	4E-07
	Barium	7440393	69	59	46	58	2.0E-01	--		5.3E-05	3E-04	5.7E-06	3E-05	3.0E-06		3.2E-07			4.5E-05	2E-04	4.8E-06	2E-05	2.6E-06		2.8E-07		
	Beryllium	7440417	0.74	0.68	0.51	0.64	2.0E-03	--		5.7E-07	3E-04	6.1E-08	3E-05	3.2E-08		3.5E-09			5.2E-07	3E-04	5.6E-08	3E-05	3.0E-08		3.2E-09		
	Cadmium	7440439	0.25	0.24	0.25	0.25	1.0E-03	--	(a)	1.9E-07	2E-04	2.1E-08	2E-05	1.1E-08		1.2E-09			1.8E-07	2E-04	2.0E-08	2E-05	1.1E-08		1.1E-09		
	Calcium	7440702	1,940	1,760	3,880	2,527	--	--		1.5E-03		1.6E-04		8.5E-05		9.1E-06			1.4E-03		1.4E-04		7.7E-05		8.3E-06		
	Chromium	7440473	12.5	11.2	9.8	11.2	1.5E+00	--	(b)	9.6E-06	6E-06	1.0E-06	7E-07	5.5E-07		5.9E-08			8.6E-06	6E-06	9.2E-07	6E-07	4.9E-07		5.3E-08		
	Cobalt	7440484	5.4	5.0	3.9	4.8	3.0E-04	--		4.1E-06	1E-02	4.4E-07	1E-03	2.4E-07		2.5E-08			3.8E-06	1E-02	4.1E-07	1E-03	2.2E-07		2.3E-08		
	Copper	7440508	9	9	7	8	4.0E-02	--		7.0E-06	2E-04	7.5E-07	2E-05	4.0E-07		4.3E-08			6.6E-06	2E-04	7.1E-07	2E-05	3.8E-07		4.0E-08		
	Iron	7439896	15,600	15,500	13,100	14,733	7.0E-01	--		1.2E-02	2E-02	1.3E-03	2E-03	6.8E-04		7.3E-05			1.2E-02	2E-02	1.3E-03	2E-03	6.8E-04		7.3E-05		
	Lead	7439921	6	6	5	6			(c)																		
	Magnesium	7439954	4,210	4,390	4,330	4,310	--	--		3.2E-03		3.5E-04		1.8E-04		2.0E-05			3.4E-03		3.6E-04		1.9E-04		2.1E-05		
	Manganese	7439965	248	230	214	231	4.7E-02	--	(d)	1.9E-04	4E-03	2.0E-05	4E-04	1.1E-05		1.2E-06			1.8E-04	4E-03	1.9E-05	4E-04	1.0E-05		1.1E-06		
	Mercury	7439976	0.055	0.055	0.055	0.055	3.0E-04	--	(i)	4.2E-08	1E-04	4.5E-09	2E-05	2.4E-09		2.6E-10			4.2E-08	1E-04	4.5E-09	2E-05	2.4E-09		2.6E-10		
	Nickel	7440020	10.1	9.4	8.5	9.3	2.0E-02	--		7.7E-06	4E-04	8.3E-07	4E-05	4.4E-07		4.7E-08			7.2E-06	4E-04	7.7E-07	4E-05	4.1E-07		4.4E-08		
	Potassium	7440097	1,640	1,410	1,080	1,377	--	--		1.3E-03		1.3E-04		7.2E-05		7.7E-06			1.1E-03		1.2E-04		6.2E-05		6.6E-06		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.50	0.48	0.50	0.49	5.0E-03	--		3.8E-07	8E-05	4.1E-08	8E-06	2.2E-08		2.3E-09			3.7E-07	7E-05	3.9E-08	8E-06	2.1E-08		2.3E-09		
	Sodium	7440235	75	58	49	61	--	--		5.7E-05		6.1E-06		3.3E-06		3.5E-07			4.4E-05		4.7E-06		2.5E-06		2.7E-07		
	Thallium	7440280	1.25	1.20	1.25	1.23	6.5E-05	--		9.6E-07	1E-02	1.0E-07	2E-03	5.5E-08		5.9E-09			9.2E-07	1E-02	9.9E-08	2E-03	5.3E-08		5.6E-09		
	Uranium	7440611	5.4	4.6	10.1	6.7	6.0E-04	--	(e)	4.1E-06	7E-03	4.4E-07	7E-04	2.4E-07		2.5E-08			3.5E-06	6E-03	3.8E-07	6E-04	2.0E-07		2.2E-08		
	Vanadium	7440622	19.5	17.2	14.0	16.9	7.0E-03	--		1.5E-05	2E-03	1.6E-06	2E-04	8.5E-07		9.2E-08			1.3E-05	2E-03	1.4E-06	2E-04	7.5E-07		8.1E-08		
	Zinc	7440666	39	44	37	40	3.0E-01	--		3.0E-05	1E-04	3.2E-06	1E-05	1.7E-06		1.8E-07			3.4E-05	1E-04	3.6E-06	1E-05	1.9E-06		2.1E-07		
									Total		8E-02		9E-03		4E-07		4E-08	4E-07		8E-02		8E-03		4E-07		4E-08	4E-07
										Total HQ or Risks > LOPC?: No									Total HQ or Risks > LOPC?: No								

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Short-term

Exposure Area: Keller Ferry No. 2

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	7.67E-07	8.22E-08
Cancer:	4.38E-08	4.70E-09

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	8,620	8,030	6,270	7,640	1.0E+00	--		4.8E-03	5E-03	5.2E-04	5E-04	2.7E-04		2.9E-05			5.9E-03	6E-03	6.3E-04	6E-04	3.3E-04		3.6E-05		
	Antimony	7440360	#N/A	#N/A	#N/A	#N/A	4.0E-04	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Arsenic	7440382	4.7	4.9	4.0	4.5	2.4E-04	1.9E+00	(j)	3.1E-06	1E-02	3.3E-07	1E-03	1.8E-07	3E-07	1.9E-08	4E-08	4E-07	3.5E-06	1E-02	3.7E-07	2E-03	2.0E-07	4E-07	2.1E-08	4E-08	4E-07
	Barium	7440393	69	59	46	58	2.0E-01	--		3.5E-05	2E-04	3.7E-06	2E-05	2.0E-06		2.1E-07			4.4E-05	2E-04	4.7E-06	2E-05	2.5E-06		2.7E-07		
	Beryllium	7440417	0.74	0.68	0.51	0.64	2.0E-03	--		3.9E-07	2E-04	4.2E-08	2E-05	2.2E-08		2.4E-09			4.9E-07	2E-04	5.3E-08	3E-05	2.8E-08		3.0E-09		
	Cadmium	7440439	0.25	0.24	0.25	0.25	1.0E-03	--	(a)	1.9E-07	2E-04	2.1E-08	2E-05	1.1E-08		1.2E-09			1.9E-07	2E-04	2.0E-08	2E-05	1.1E-08		1.2E-09		
	Calcium	7440702	1,940	1,760	3,880	2,527	--	--		3.0E-03		3.2E-04		1.7E-04		1.8E-05			1.9E-03		2.1E-04		1.1E-04		1.2E-05		
	Chromium	7440473	12.5	11.2	9.8	11.2	1.5E+00	--	(b)	7.5E-06	5E-06	8.1E-07	5E-07	4.3E-07		4.6E-08			8.6E-06	6E-06	9.2E-07	6E-07	4.9E-07		5.2E-08		
	Cobalt	7440484	5.4	5.0	3.9	4.8	3.0E-04	--		3.0E-06	1E-02	3.2E-07	1E-03	1.7E-07		1.8E-08			3.7E-06	1E-02	3.9E-07	1E-03	2.1E-07		2.2E-08		
	Copper	7440508	9	9	7	8	4.0E-02	--		5.1E-06	1E-04	5.5E-07	1E-05	2.9E-07		3.1E-08			6.2E-06	2E-04	6.7E-07	2E-05	3.6E-07		3.8E-08		
	Iron	7439896	15,600	15,500	13,100	14,733	7.0E-01	--		1.0E-02	1E-02	1.1E-03	2E-03	5.7E-04		6.2E-05			1.1E-02	2E-02	1.2E-03	2E-03	6.5E-04		6.9E-05		
	Lead	7439921	6	6	5	6			(c)																		
	Magnesium	7439954	4,210	4,390	4,330	4,310	--	--		3.3E-03		3.6E-04		1.9E-04		2.0E-05			3.3E-03		3.5E-04		1.9E-04		2.0E-05		
	Manganese	7439965	248	230	214	231	4.7E-02	--	(d)	1.6E-04	4E-03	1.8E-05	4E-04	9.4E-06		1.0E-06			1.8E-04	4E-03	1.9E-05	4E-04	1.0E-05		1.1E-06		
	Mercury	7439976	0.055	0.055	0.055	0.055	3.0E-04	--	(i)	4.2E-08	1E-04	4.5E-09	2E-05	2.4E-09		2.6E-10			4.2E-08	1E-04	4.5E-09	2E-05	2.4E-09		2.6E-10		
	Nickel	7440020	10.1	9.4	8.5	9.3	2.0E-02	--		6.5E-06	3E-04	7.0E-07	3E-05	3.7E-07		4.0E-08			7.2E-06	4E-04	7.7E-07	4E-05	4.1E-07		4.4E-08		
	Potassium	7440097	1,640	1,410	1,080	1,377	--	--		8.3E-04		8.9E-05		4.7E-05		5.1E-06			1.1E-03		1.1E-04		6.0E-05		6.5E-06		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.50	0.48	0.50	0.49	5.0E-03	--		3.8E-07	8E-05	4.1E-08	8E-06	2.2E-08		2.3E-09			3.8E-07	8E-05	4.1E-08	8E-06	2.2E-08		2.3E-09		
	Sodium	7440235	75	58	49	61	--	--		3.8E-05		4.1E-06		2.2E-06		2.3E-07			4.6E-05		5.0E-06		2.7E-06		2.8E-07		
	Thallium	7440280	1.25	1.20	1.25	1.23	6.5E-05	--		9.6E-07	1E-02	1.0E-07	2E-03	5.5E-08		5.9E-09			9.5E-07	1E-02	1.0E-07	2E-03	5.4E-08		5.8E-09		
	Uranium	7440611	5.4	4.6	10.1	6.7	6.0E-04	--	(e)	7.7E-06	1E-02	8.3E-07	1E-03	4.4E-07		4.7E-08			5.1E-06	9E-03	5.5E-07	9E-04	2.9E-07		3.1E-08		
	Vanadium	7440622	19.5	17.2	14.0	16.9	7.0E-03	--		1.1E-05	2E-03	1.2E-06	2E-04	6.1E-07		6.6E-08			1.3E-05	2E-03	1.4E-06	2E-04	7.4E-07		7.9E-08		
	Zinc	7440666	39	44	37	40	3.0E-01	--		3.4E-05	1E-04	3.6E-06	1E-05	1.9E-06		2.1E-07			3.1E-05	1E-04	3.3E-06	1E-05	1.8E-06		1.9E-07		
									Total		**8E-02**		**8E-03**		**3E-07**		**4E-08**	**4E-07**		**8E-02**		**8E-03**		**4E-07**		**4E-08**	**4E-07**
										Total HQ or Risks > LOPC?:		**No**							**Total HQ or Risks > LOPC?:**		**No**					

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Short-term

Exposure Area: Kettle Falls Swim Beach

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	7.67E-07	8.22E-08
Cancer:	4.38E-08	4.70E-09

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	10,277	5,137	4,900	6,771	1.0E+00	--		7.9E-03	8E-03	8.4E-04	8E-04	4.5E-04		4.8E-05			3.9E-03	4E-03	4.2E-04	4E-04	2.3E-04		2.4E-05		
	Antimony	7440360	0.7	1.5	1.2	1.1	4.0E-04	--		5.3E-07	1E-03	5.6E-08	1E-04	3.0E-08		3.2E-09			1.1E-06	3E-03	1.2E-07	3E-04	6.5E-08		7.0E-09		
	Arsenic	7440382	1.9	1.3	1.6	1.6	2.4E-04	1.9E+00	(j)	1.4E-06	6E-03	1.5E-07	6E-04	8.2E-08	2E-07	8.8E-09	2E-08	2E-07	9.7E-07	4E-03	1.0E-07	4E-04	5.6E-08	1E-07	5.9E-09	1E-08	1E-07
	Barium	7440393	104	40	43	62	2.0E-01	--		8.0E-05	4E-04	8.5E-06	4E-05	4.6E-06		4.9E-07			3.0E-05	2E-04	3.3E-06	2E-05	1.7E-06		1.9E-07		
	Beryllium	7440417	0.86	0.37	0.33	0.52	2.0E-03	--		6.6E-07	3E-04	7.1E-08	4E-05	3.8E-08		4.0E-09			2.8E-07	1E-04	3.0E-08	2E-05	1.6E-08		1.7E-09		
	Cadmium	7440439	0.26	0.16	0.15	0.19	1.0E-03	--	(a)	2.0E-07	2E-04	2.1E-08	2E-05	1.1E-08		1.2E-09			1.3E-07	1E-04	1.3E-08	1E-05	7.2E-09		7.7E-10		
	Calcium	7440702	8,840	2,470	2,023	4,444	--	--		6.8E-03		7.3E-04		3.9E-04		4.2E-05			1.9E-03		2.0E-04		1.1E-04		1.2E-05		
	Chromium	7440473	22.9	9.8	9.8	14.2	1.5E+00	--	(b)	1.8E-05	1E-05	1.9E-06	1E-06	1.0E-06		1.1E-07			7.5E-06	5E-06	8.0E-07	5E-07	4.3E-07		4.6E-08		
	Cobalt	7440484	8.0	3.6	3.4	5.0	3.0E-04	--		6.1E-06	2E-02	6.6E-07	2E-03	3.5E-07		3.8E-08			2.8E-06	9E-03	3.0E-07	1E-03	1.6E-07		1.7E-08		
	Copper	7440508	18	10	10	12	4.0E-02	--		1.4E-05	3E-04	1.4E-06	4E-05	7.7E-07		8.3E-08			7.3E-06	2E-04	7.8E-07	2E-05	4.2E-07		4.5E-08		
	Iron	7439896	17,433	9,647	9,530	12,203	7.0E-01	--		1.3E-02	2E-02	1.4E-03	2E-03	7.6E-04		8.2E-05			7.4E-03	1E-02	7.9E-04	1E-03	4.2E-04		4.5E-05		
	Lead	7439921	9	6	5	7			(c)																		
	Magnesium	7439954	6,343	2,883	2,887	4,038	--	--		4.9E-03		5.2E-04		2.8E-04		3.0E-05			2.2E-03		2.4E-04		1.3E-04		1.4E-05		
	Manganese	7439965	381	151	177	236	4.7E-02	--	(d)	2.9E-04	6E-03	3.1E-05	7E-04	1.7E-05		1.8E-06			1.2E-04	2E-03	1.2E-05	3E-04	6.6E-06		7.1E-07		
	Mercury	7439976	0.006	0.052	0.053	0.037	3.0E-04	--	(i)	4.5E-09	2E-05	4.8E-10	2E-06	2.6E-10		2.8E-11			4.0E-08	1E-04	4.2E-09	1E-05	2.3E-09		2.4E-10		
	Nickel	7440020	18.7	7.8	7.8	11.4	2.0E-02	--		1.4E-05	7E-04	1.5E-06	8E-05	8.2E-07		8.8E-08			6.0E-06	3E-04	6.4E-07	3E-05	3.4E-07		3.6E-08		
	Potassium	7440097	1,804	624	555	995	--	--		1.4E-03		1.5E-04		7.9E-05		8.5E-06			4.8E-04		5.1E-05		2.7E-05		2.9E-06		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.52	0.46	0.47	0.48	5.0E-03	--		4.0E-07	8E-05	4.2E-08	8E-06	2.3E-08		2.4E-09			3.5E-07	7E-05	3.7E-08	7E-06	2.0E-08		2.1E-09		
	Sodium	7440235	262	115	97	158	--	--		2.0E-04		2.2E-05		1.1E-05		1.2E-06			8.8E-05		9.4E-06		5.0E-06		5.4E-07		
	Thallium	7440280	1.30	1.13	1.17	1.20	6.5E-05	--		1.0E-06	2E-02	1.1E-07	2E-03	5.7E-08		6.1E-09			8.7E-07	1E-02	9.3E-08	1E-03	5.0E-08		5.3E-09		
	Uranium	7440611	10.4	9.0	9.3	9.6	6.0E-04	--	(e)	8.0E-06	1E-02	8.6E-07	1E-03	4.6E-07		4.9E-08			6.9E-06	1E-02	7.4E-07	1E-03	3.9E-07		4.2E-08		
	Vanadium	7440622	33.7	20.4	20.7	24.9	7.0E-03	--		2.6E-05	4E-03	2.8E-06	4E-04	1.5E-06		1.6E-07			1.6E-05	2E-03	1.7E-06	2E-04	8.9E-07		9.6E-08		
	Zinc	7440666	55	36	34	42	3.0E-01	--		4.2E-05	1E-04	4.6E-06	2E-05	2.4E-06		2.6E-07			2.8E-05	9E-05	3.0E-06	1E-05	1.6E-06		1.7E-07		
									Total		**1E-01**		**1E-02**		**2E-07**		**2E-08**	**2E-07**		**6E-02**		**7E-03**		**1E-07**		**1E-08**	**1E-07**
										Total HQ or Risks > LOPC?:		**No**							**Total HQ or Risks > LOPC?:**		**No**					

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Short-term

Exposure Area: Kettle Falls Swim Beach

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	7.67E-07	8.22E-08
Cancer:	4.38E-08	4.70E-09

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	10,277	5,137	4,900	6,771	1.0E+00	--		3.8E-03	4E-03	4.0E-04	4E-04	2.1E-04		2.3E-05			5.2E-03	5E-03	5.6E-04	6E-04	3.0E-04		3.2E-05		
	Antimony	7440360	0.7	1.5	1.2	1.1	4.0E-04	--		9.3E-07	2E-03	9.9E-08	2E-04	5.3E-08		5.7E-09			8.6E-07	2E-03	9.3E-08	2E-04	4.9E-08		5.3E-09		
	Arsenic	7440382	1.9	1.3	1.6	1.6	2.4E-04	1.9E+00	(j)	1.2E-06	5E-03	1.3E-07	5E-04	6.9E-08	1E-07	7.4E-09	1E-08	1E-07	1.2E-06	5E-03	1.3E-07	5E-04	6.9E-08	1E-07	7.4E-09	1E-08	1E-07
	Barium	7440393	104	40	43	62	2.0E-01	--		3.3E-05	2E-04	3.6E-06	2E-05	1.9E-06		2.0E-07			4.8E-05	2E-04	5.1E-06	3E-05	2.7E-06		2.9E-07		
	Beryllium	7440417	0.86	0.37	0.33	0.52	2.0E-03	--		2.5E-07	1E-04	2.7E-08	1E-05	1.4E-08		1.5E-09			4.0E-07	2E-04	4.3E-08	2E-05	2.3E-08		2.4E-09		
	Cadmium	7440439	0.26	0.16	0.15	0.19	1.0E-03	--	(a)	1.1E-07	1E-04	1.2E-08	1E-05	6.4E-09		6.9E-10			1.4E-07	1E-04	1.6E-08	2E-05	8.3E-09		8.9E-10		
	Calcium	7440702	8,840	2,470	2,023	4,444	--	--		1.6E-03		1.7E-04		8.9E-05		9.5E-06			3.4E-03		3.7E-04		1.9E-04		2.1E-05		
	Chromium	7440473	22.9	9.8	9.8	14.2	1.5E+00	--	(b)	7.5E-06	5E-06	8.1E-07	5E-07	4.3E-07		4.6E-08			1.1E-05	7E-06	1.2E-06	8E-07	6.2E-07		6.7E-08		
	Cobalt	7440484	8.0	3.6	3.4	5.0	3.0E-04	--		2.6E-06	9E-03	2.8E-07	9E-04	1.5E-07		1.6E-08			3.8E-06	1E-02	4.1E-07	1E-03	2.2E-07		2.3E-08		
	Copper	7440508	18	10	10	12	4.0E-02	--		7.8E-06	2E-04	8.3E-07	2E-05	4.4E-07		4.8E-08			9.5E-06	2E-04	1.0E-06	3E-05	5.4E-07		5.8E-08		
	Iron	7439896	17,433	9,647	9,530	12,203	7.0E-01	--		7.3E-03	1E-02	7.8E-04	1E-03	4.2E-04		4.5E-05			9.4E-03	1E-02	1.0E-03	1E-03	5.3E-04		5.7E-05		
	Lead	7439921	9	6	5	7			(c)																		
	Magnesium	7439954	6,343	2,883	2,887	4,038	--	--		2.2E-03		2.4E-04		1.3E-04		1.4E-05			3.1E-03		3.3E-04		1.8E-04		1.9E-05		
	Manganese	7439965	381	151	177	236	4.7E-02	--	(d)	1.4E-04	3E-03	1.5E-05	3E-04	7.7E-06		8.3E-07			1.8E-04	4E-03	1.9E-05	4E-04	1.0E-05		1.1E-06		
	Mercury	7439976	0.006	0.052	0.053	0.037	3.0E-04	--	(i)	4.1E-08	1E-04	4.4E-09	1E-05	2.3E-09		2.5E-10			2.8E-08	9E-05	3.0E-09	1E-05	1.6E-09		1.7E-10		
	Nickel	7440020	18.7	7.8	7.8	11.4	2.0E-02	--		6.0E-06	3E-04	6.4E-07	3E-05	3.4E-07		3.6E-08			8.8E-06	4E-04	9.4E-07	5E-05	5.0E-07		5.4E-08		
	Potassium	7440097	1,804	624	555	995	--	--		4.3E-04		4.6E-05		2.4E-05		2.6E-06			7.6E-04		8.2E-05		4.4E-05		4.7E-06		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.52	0.46	0.47	0.48	5.0E-03	--		3.6E-07	7E-05	3.8E-08	8E-06	2.0E-08		2.2E-09			3.7E-07	7E-05	3.9E-08	8E-06	2.1E-08		2.2E-09		
	Sodium	7440235	262	115	97	158	--	--		7.4E-05		8.0E-06		4.2E-06		4.5E-07			1.2E-04		1.3E-05		6.9E-06		7.4E-07		
	Thallium	7440280	1.30	1.13	1.17	1.20	6.5E-05	--		8.9E-07	1E-02	9.6E-08	1E-03	5.1E-08		5.5E-09			9.2E-07	1E-02	9.9E-08	2E-03	5.3E-08		5.6E-09		
	Uranium	7440611	10.4	9.0	9.3	9.6	6.0E-04	--	(e)	7.2E-06	1E-02	7.7E-07	1E-03	4.1E-07		4.4E-08			7.3E-06	1E-02	7.9E-07	1E-03	4.2E-07		4.5E-08		
	Vanadium	7440622	33.7	20.4	20.7	24.9	7.0E-03	--		1.6E-05	2E-03	1.7E-06	2E-04	9.1E-07		9.7E-08			1.9E-05	3E-03	2.0E-06	3E-04	1.1E-06		1.2E-07		
	Zinc	7440666	55	36	34	42	3.0E-01	--		2.8E-05	9E-05	3.0E-06	1E-05	1.6E-06		1.7E-07			3.2E-05	1E-04	3.4E-06	1E-05	1.8E-06		2.0E-07		
									Total		**6E-02**		**7E-03**		**1E-07**		**1E-08**	**1E-07**		**7E-02**		**8E-03**		**1E-07**		**1E-08**	**1E-07**
										Total HQ or Risks > LOPC?:		**No**							**Total HQ or Risks > LOPC?:**		**No**					

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Short-term

Exposure Area: Lincoln Mill Boat Ramp

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	7.67E-07	8.22E-08
Cancer:	4.38E-08	4.70E-09

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	5,070	6,900	7,160	6,377	1.0E+00	--		3.9E-03	4E-03	4.2E-04	4E-04	2.2E-04		2.4E-05			5.3E-03	5E-03	5.7E-04	6E-04	3.0E-04		3.2E-05		
	Antimony	7440360	#N/A	#N/A	#N/A	#N/A	4.0E-04	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Arsenic	7440382	5.9	6.7	5.9	6.2	2.4E-04	1.9E+00	(j)	4.5E-06	2E-02	4.8E-07	2E-03	2.6E-07	5E-07	2.8E-08	5E-08	5E-07	5.1E-06	2E-02	5.5E-07	2E-03	2.9E-07	6E-07	3.1E-08	6E-08	6E-07
	Barium	7440393	35	34	61	43	2.0E-01	--		2.7E-05	1E-04	2.9E-06	1E-05	1.5E-06		1.6E-07			2.6E-05	1E-04	2.8E-06	1E-05	1.5E-06		1.6E-07		
	Beryllium	7440417	0.32	0.43	0.47	0.41	2.0E-03	--		2.5E-07	1E-04	2.6E-08	1E-05	1.4E-08		1.5E-09			3.3E-07	2E-04	3.5E-08	2E-05	1.9E-08		2.0E-09		
	Cadmium	7440439	0.24	0.06	0.06	0.12	1.0E-03	--	(a)	1.8E-07	2E-04	1.9E-08	2E-05	1.0E-08		1.1E-09			4.4E-08	4E-05	4.8E-09	5E-06	2.5E-09		2.7E-10		
	Calcium	7440702	10,300	15,100	11,500	12,300	--	--		7.9E-03		8.5E-04		4.5E-04		4.8E-05			1.2E-02		1.2E-03		6.6E-04		7.1E-05		
	Chromium	7440473	6.2	9.1	9.6	8.3	1.5E+00	--	(b)	4.8E-06	3E-06	5.1E-07	3E-07	2.7E-07		2.9E-08			7.0E-06	5E-06	7.5E-07	5E-07	4.0E-07		4.3E-08		
	Cobalt	7440484	3.0	3.5	14.2	6.9	3.0E-04	--		2.3E-06	8E-03	2.5E-07	8E-04	1.3E-07		1.4E-08			2.7E-06	9E-03	2.9E-07	1E-03	1.5E-07		1.6E-08		
	Copper	7440508	7	10	12	10	4.0E-02	--		5.6E-06	1E-04	6.0E-07	2E-05	3.2E-07		3.4E-08			7.7E-06	2E-04	8.2E-07	2E-05	4.4E-07		4.7E-08		
	Iron	7439896	10,200	12,600	14,200	12,333	7.0E-01	--		7.8E-03	1E-02	8.4E-04	1E-03	4.5E-04		4.8E-05			9.7E-03	1E-02	1.0E-03	1E-03	5.5E-04		5.9E-05		
	Lead	7439921	4	5	6	5			(c)																		
	Magnesium	7439954	5,320	6,240	6,530	6,030	--	--		4.1E-03		4.4E-04		2.3E-04		2.5E-05			4.8E-03		5.1E-04		2.7E-04		2.9E-05		
	Manganese	7439965	217	224	334	258	4.7E-02	--	(d)	1.7E-04	4E-03	1.8E-05	4E-04	9.5E-06		1.0E-06			1.7E-04	4E-03	1.8E-05	4E-04	9.8E-06		1.1E-06		
	Mercury	7439976	0.049	0.055	0.050	0.051	3.0E-04	--	(i)	3.8E-08	1E-04	4.0E-09	1E-05	2.1E-09		2.3E-10			4.2E-08	1E-04	4.5E-09	2E-05	2.4E-09		2.6E-10		
	Nickel	7440020	6.1	7.8	8.5	7.5	2.0E-02	--		4.7E-06	2E-04	5.0E-07	3E-05	2.7E-07		2.9E-08			6.0E-06	3E-04	6.4E-07	3E-05	3.4E-07		3.7E-08		
	Potassium	7440097	1,140	1,410	1,350	1,300	--	--		8.7E-04		9.4E-05		5.0E-05		5.4E-06			1.1E-03		1.2E-04		6.2E-05		6.6E-06		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.47	0.49	0.47	0.47	5.0E-03	--		3.6E-07	7E-05	3.9E-08	8E-06	2.1E-08		2.2E-09			3.7E-07	7E-05	4.0E-08	8E-06	2.1E-08		2.3E-09		
	Sodium	7440235	57	97	98	84	--	--		4.4E-05		4.7E-06		2.5E-06		2.7E-07			7.5E-05		8.0E-06		4.3E-06		4.6E-07		
	Thallium	7440280	1.15	1.20	1.15	1.17	6.5E-05	--		8.8E-07	1E-02	9.5E-08	1E-03	5.0E-08		5.4E-09			9.2E-07	1E-02	9.9E-08	2E-03	5.3E-08		5.6E-09		
	Uranium	7440611	6.3	6.4	6.9	6.5	6.0E-04	--	(e)	4.8E-06	8E-03	5.2E-07	9E-04	2.8E-07		3.0E-08			4.9E-06	8E-03	5.3E-07	9E-04	2.8E-07		3.0E-08		
	Vanadium	7440622	8.4	10.8	13.4	10.9	7.0E-03	--		6.4E-06	9E-04	6.9E-07	1E-04	3.7E-07		3.9E-08			8.3E-06	1E-03	8.9E-07	1E-04	4.7E-07		5.1E-08		
	Zinc	7440666	27	30	36	31	3.0E-01	--		2.0E-05	7E-05	2.2E-06	7E-06	1.2E-06		1.2E-07			2.3E-05	8E-05	2.5E-06	8E-06	1.3E-06		1.4E-07		
									Total		**7E-02**		**7E-03**		**5E-07**		**5E-08**	**5E-07**		**8E-02**		**8E-03**		**6E-07**		**6E-08**	**6E-07**
										Total HQ or Risks > LOPC?:		**No**							**Total HQ or Risks > LOPC?:**		**No**					

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Short-term

Exposure Area: Lincoln Mill Boat Ramp

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	7.67E-07	8.22E-08
Cancer:	4.38E-08	4.70E-09

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	5,070	6,900	7,160	6,377	1.0E+00	--		5.5E-03	5E-03	5.9E-04	6E-04	3.1E-04		3.4E-05			4.9E-03	5E-03	5.2E-04	5E-04	2.8E-04		3.0E-05		
	Antimony	7440360	#N/A	#N/A	#N/A	#N/A	4.0E-04	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Arsenic	7440382	5.9	6.7	5.9	6.2	2.4E-04	1.9E+00	(j)	4.5E-06	2E-02	4.8E-07	2E-03	2.6E-07	5E-07	2.8E-08	5E-08	5E-07	4.7E-06	2E-02	5.1E-07	2E-03	2.7E-07	5E-07	2.9E-08	5E-08	6E-07
	Barium	7440393	35	34	61	43	2.0E-01	--		4.7E-05	2E-04	5.0E-06	3E-05	2.7E-06		2.9E-07			3.3E-05	2E-04	3.5E-06	2E-05	1.9E-06		2.0E-07		
	Beryllium	7440417	0.32	0.43	0.47	0.41	2.0E-03	--		3.6E-07	2E-04	3.9E-08	2E-05	2.1E-08		2.2E-09			3.1E-07	2E-04	3.3E-08	2E-05	1.8E-08		1.9E-09		
	Cadmium	7440439	0.24	0.06	0.06	0.12	1.0E-03	--	(a)	4.9E-08	5E-05	5.3E-09	5E-06	2.8E-09		3.0E-10			9.1E-08	9E-05	9.8E-09	1E-05	5.2E-09		5.6E-10		
	Calcium	7440702	10,300	15,100	11,500	12,300	--	--		8.8E-03		9.5E-04		5.0E-04		5.4E-05			9.4E-03		1.0E-03		5.4E-04		5.8E-05		
	Chromium	7440473	6.2	9.1	9.6	8.3	1.5E+00	--	(b)	7.4E-06	5E-06	7.9E-07	5E-07	4.2E-07		4.5E-08			6.4E-06	4E-06	6.8E-07	5E-07	3.6E-07		3.9E-08		
	Cobalt	7440484	3.0	3.5	14.2	6.9	3.0E-04	--		1.1E-05	4E-02	1.2E-06	4E-03	6.2E-07		6.7E-08			5.3E-06	2E-02	5.7E-07	2E-03	3.0E-07		3.2E-08		
	Copper	7440508	7	10	12	10	4.0E-02	--		8.8E-06	2E-04	9.5E-07	2E-05	5.0E-07		5.4E-08			7.4E-06	2E-04	7.9E-07	2E-05	4.2E-07		4.5E-08		
	Iron	7439896	10,200	12,600	14,200	12,333	7.0E-01	--		1.1E-02	2E-02	1.2E-03	2E-03	6.2E-04		6.7E-05			9.5E-03	1E-02	1.0E-03	1E-03	5.4E-04		5.8E-05		
	Lead	7439921	4	5	6	5			(c)																		
	Magnesium	7439954	5,320	6,240	6,530	6,030	--	--		5.0E-03		5.4E-04		2.9E-04		3.1E-05			4.6E-03		5.0E-04		2.6E-04		2.8E-05		
	Manganese	7439965	217	224	334	258	4.7E-02	--	(d)	2.6E-04	5E-03	2.7E-05	6E-04	1.5E-05		1.6E-06			2.0E-04	4E-03	2.1E-05	5E-04	1.1E-05		1.2E-06		
	Mercury	7439976	0.049	0.055	0.050	0.051	3.0E-04	--	(i)	3.8E-08	1E-04	4.1E-09	1E-05	2.2E-09		2.3E-10			3.9E-08	1E-04	4.2E-09	1E-05	2.3E-09		2.4E-10		
	Nickel	7440020	6.1	7.8	8.5	7.5	2.0E-02	--		6.5E-06	3E-04	7.0E-07	3E-05	3.7E-07		4.0E-08			5.7E-06	3E-04	6.1E-07	3E-05	3.3E-07		3.5E-08		
	Potassium	7440097	1,140	1,410	1,350	1,300	--	--		1.0E-03		1.1E-04		5.9E-05		6.3E-06			1.0E-03		1.1E-04		5.7E-05		6.1E-06		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.47	0.49	0.47	0.47	5.0E-03	--		3.6E-07	7E-05	3.8E-08	8E-06	2.0E-08		2.2E-09			3.6E-07	7E-05	3.9E-08	8E-06	2.1E-08		2.2E-09		
	Sodium	7440235	57	97	98	84	--	--		7.5E-05		8.0E-06		4.3E-06		4.6E-07			6.4E-05		6.9E-06		3.7E-06		3.9E-07		
	Thallium	7440280	1.15	1.20	1.15	1.17	6.5E-05	--		8.8E-07	1E-02	9.5E-08	1E-03	5.0E-08		5.4E-09			8.9E-07	1E-02	9.6E-08	1E-03	5.1E-08		5.5E-09		
	Uranium	7440611	6.3	6.4	6.9	6.5	6.0E-04	--	(e)	5.3E-06	9E-03	5.7E-07	9E-04	3.0E-07		3.2E-08			5.0E-06	8E-03	5.4E-07	9E-04	2.9E-07		3.1E-08		
	Vanadium	7440622	8.4	10.8	13.4	10.9	7.0E-03	--		1.0E-05	1E-03	1.1E-06	2E-04	5.9E-07		6.3E-08			8.3E-06	1E-03	8.9E-07	1E-04	4.8E-07		5.1E-08		
	Zinc	7440666	27	30	36	31	3.0E-01	--		2.3E-05	8E-05	2.5E-06	8E-06	1.3E-06		1.4E-07			2.4E-05	8E-05	2.5E-06	8E-06	1.3E-06		1.4E-07		
									Total		**1E-01**		**1E-02**		**5E-07**		**5E-08**	**5E-07**		**8E-02**		**9E-03**		**5E-07**		**5E-08**	**6E-07**
										Total HQ or Risks > LOPC?:		**Yes**							**Total HQ or Risks > LOPC?:**		**No**					

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Short-term

Exposure Area: Marcus Island Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	7.67E-07	8.22E-08
Cancer:	4.38E-08	4.70E-09

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	8,600	9,890	7,310	8,600	1.0E+00	--		6.6E-03	7E-03	7.1E-04	7E-04	3.8E-04		4.0E-05			7.6E-03	8E-03	8.1E-04	8E-04	4.3E-04		4.6E-05		
	Antimony	7440360	4.1	2.0	3.1	3.1	4.0E-04	--		3.1E-06	8E-03	3.3E-07	8E-04	1.8E-07		1.9E-08			1.5E-06	4E-03	1.6E-07	4E-04	8.8E-08		9.4E-09		
	Arsenic	7440382	6.5	8.6	3.9	6.3	2.4E-04	1.9E+00	(j)	5.0E-06	2E-02	5.3E-07	2E-03	2.8E-07	5E-07	3.1E-08	6E-08	6E-07	6.6E-06	3E-02	7.1E-07	3E-03	3.8E-07	7E-07	4.0E-08	8E-08	8E-07
	Barium	7440393	258	264	101	208	2.0E-01	--		2.0E-04	1E-03	2.1E-05	1E-04	1.1E-05		1.2E-06			2.0E-04	1E-03	2.2E-05	1E-04	1.2E-05		1.2E-06		
	Beryllium	7440417	0.48	0.56	0.36	0.47	2.0E-03	--		3.7E-07	2E-04	3.9E-08	2E-05	2.1E-08		2.3E-09			4.3E-07	2E-04	4.6E-08	2E-05	2.5E-08		2.6E-09		
	Cadmium	7440439	7.30	5.60	1.60	4.83	1.0E-03	--	(a)	5.6E-06	6E-03	6.0E-07	6E-04	3.2E-07		3.4E-08			4.3E-06	4E-03	4.6E-07	5E-04	2.5E-07		2.6E-08		
	Calcium	7440702	7,520	6,920	7,110	7,183	--	--		5.8E-03		6.2E-04		3.3E-04		3.5E-05			5.3E-03		5.7E-04		3.0E-04		3.3E-05		
	Chromium	7440473	19.7	19.9	14.0	17.9	1.5E+00	--	(b)	1.5E-05	1E-05	1.6E-06	1E-06	8.6E-07		9.3E-08			1.5E-05	1E-05	1.6E-06	1E-06	8.7E-07		9.3E-08		
	Cobalt	7440484	6.8	7.1	5.2	6.4	3.0E-04	--		5.2E-06	2E-02	5.6E-07	2E-03	3.0E-07		3.2E-08			5.4E-06	2E-02	5.8E-07	2E-03	3.1E-07		3.3E-08		
	Copper	7440508	50	58	14	41	4.0E-02	--		3.9E-05	1E-03	4.1E-06	1E-04	2.2E-06		2.4E-07			4.4E-05	1E-03	4.8E-06	1E-04	2.5E-06		2.7E-07		
	Iron	7439896	17,600	23,400	12,700	17,900	7.0E-01	--		1.4E-02	2E-02	1.4E-03	2E-03	7.7E-04		8.3E-05			1.8E-02	3E-02	1.9E-03	3E-03	1.0E-03		1.1E-04		
	Lead	7439921	297	202	52	184			(c)																		
	Magnesium	7439954	6,070	5,390	4,220	5,227	--	--		4.7E-03		5.0E-04		2.7E-04		2.9E-05			4.1E-03		4.4E-04		2.4E-04		2.5E-05		
	Manganese	7439965	214	246	170	210	4.7E-02	--	(d)	1.6E-04	4E-03	1.8E-05	4E-04	9.4E-06		1.0E-06			1.9E-04	4E-03	2.0E-05	4E-04	1.1E-05		1.2E-06		
	Mercury	7439976	0.810	0.470	0.078	0.453	3.0E-04	--	(i)	6.2E-07	2E-03	6.7E-08	2E-04	3.6E-08		3.8E-09			3.6E-07	1E-03	3.9E-08	1E-04	2.1E-08		2.2E-09		
	Nickel	7440020	16.3	16.8	12.9	15.3	2.0E-02	--		1.3E-05	6E-04	1.3E-06	7E-05	7.1E-07		7.7E-08			1.3E-05	6E-04	1.4E-06	7E-05	7.4E-07		7.9E-08		
	Potassium	7440097	1,010	1,020	1,070	1,033	--	--		7.7E-04		8.3E-05		4.4E-05		4.7E-06			7.8E-04		8.4E-05		4.5E-05		4.8E-06		
	Selenium	7782492	2.30	4.30	1.80	2.80	5.0E-03	--		1.8E-06	4E-04	1.9E-07	4E-05	1.0E-07		1.1E-08			3.3E-06	7E-04	3.5E-07	7E-05	1.9E-07		2.0E-08		
	Silver	7440224	0.70	0.65	0.50	0.62	5.0E-03	--		5.4E-07	1E-04	5.8E-08	1E-05	3.1E-08		3.3E-09			5.0E-07	1E-04	5.3E-08	1E-05	2.8E-08		3.1E-09		
	Sodium	7440235	86	134	96	105	--	--		6.6E-05		7.1E-06		3.8E-06		4.1E-07			1.0E-04		1.1E-05		5.9E-06		6.3E-07		
	Thallium	7440280	1.70	1.60	1.30	1.53	6.5E-05	--		1.3E-06	2E-02	1.4E-07	2E-03	7.5E-08		8.0E-09			1.2E-06	2E-02	1.3E-07	2E-03	7.0E-08		7.5E-09		
	Uranium	7440611	13.6	6.7	7.5	9.3	6.0E-04	--	(e)	1.0E-05	2E-02	1.1E-06	2E-03	5.9E-07		6.4E-08			5.1E-06	9E-03	5.5E-07	9E-04	2.9E-07		3.1E-08		
	Vanadium	7440622	24.4	28.5	18.6	23.8	7.0E-03	--		1.9E-05	3E-03	2.0E-06	3E-04	1.1E-06		1.1E-07			2.2E-05	3E-03	2.3E-06	3E-04	1.2E-06		1.3E-07		
	Zinc	7440666	915	620	186	574	3.0E-01	--		7.0E-04	2E-03	7.5E-05	3E-04	4.0E-05		4.3E-06			4.8E-04	2E-03	5.1E-05	2E-04	2.7E-05		2.9E-06		
								Total			**1E-01**		**1E-02**		**5E-07**		**6E-08**	**6E-07**		**1E-01**		**1E-02**		**7E-07**		**8E-08**	**8E-07**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:

(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Short-term

Exposure Area: Marcus Island Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	7.67E-07	8.22E-08
Cancer:	4.38E-08	4.70E-09

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	8,600	9,890	7,310	8,600	1.0E+00	--		5.6E-03	6E-03	6.0E-04	6E-04	3.2E-04		3.4E-05			6.6E-03	7E-03	7.1E-04	7E-04	3.8E-04		4.0E-05		
	Antimony	7440360	4.1	2.0	3.1	3.1	4.0E-04	--		2.4E-06	6E-03	2.5E-07	6E-04	1.4E-07		1.5E-08			2.3E-06	6E-03	2.5E-07	6E-04	1.3E-07		1.4E-08		
	Arsenic	7440382	6.5	8.6	3.9	6.3	2.4E-04	1.9E+00	(j)	3.0E-06	1E-02	3.2E-07	1E-03	1.7E-07	3E-07	1.8E-08	3E-08	4E-07	4.9E-06	2E-02	5.2E-07	2E-03	2.8E-07	5E-07	3.0E-08	6E-08	6E-07
	Barium	7440393	258	264	101	208	2.0E-01	--		7.7E-05	4E-04	8.3E-06	4E-05	4.4E-06		4.7E-07			1.6E-04	8E-04	1.7E-05	9E-05	9.1E-06		9.8E-07		
	Beryllium	7440417	0.48	0.56	0.36	0.47	2.0E-03	--		2.8E-07	1E-04	3.0E-08	1E-05	1.6E-08		1.7E-09			3.6E-07	2E-04	3.8E-08	2E-05	2.0E-08		2.2E-09		
	Cadmium	7440439	7.30	5.60	1.60	4.83	1.0E-03	--	(a)	1.2E-06	1E-03	1.3E-07	1E-04	7.0E-08		7.5E-09			3.7E-06	4E-03	4.0E-07	4E-04	2.1E-07		2.3E-08		
	Calcium	7440702	7,520	6,920	7,110	7,183	--	--		5.5E-03		5.8E-04		3.1E-04		3.3E-05			5.5E-03		5.9E-04		3.1E-04		3.4E-05		
	Chromium	7440473	19.7	19.9	14.0	17.9	1.5E+00	--	(b)	1.1E-05	7E-06	1.2E-06	8E-07	6.1E-07		6.6E-08			1.4E-05	9E-06	1.5E-06	1E-06	7.8E-07		8.4E-08		
	Cobalt	7440484	6.8	7.1	5.2	6.4	3.0E-04	--		4.0E-06	1E-02	4.3E-07	1E-03	2.3E-07		2.4E-08			4.9E-06	2E-02	5.2E-07	2E-03	2.8E-07		3.0E-08		
	Copper	7440508	50	58	14	41	4.0E-02	--		1.1E-05	3E-04	1.2E-06	3E-05	6.2E-07		6.6E-08			3.1E-05	8E-04	3.3E-06	8E-05	1.8E-06		1.9E-07		
	Iron	7439896	17,600	23,400	12,700	17,900	7.0E-01	--		9.7E-03	1E-02	1.0E-03	1E-03	5.6E-04		6.0E-05			1.4E-02	2E-02	1.5E-03	2E-03	7.8E-04		8.4E-05		
	Lead	7439921	297	202	52	184			(c)																		
	Magnesium	7439954	6,070	5,390	4,220	5,227	--	--		3.2E-03		3.5E-04		1.8E-04		2.0E-05			4.0E-03		4.3E-04		2.3E-04		2.5E-05		
	Manganese	7439965	214	246	170	210	4.7E-02	--	(d)	1.3E-04	3E-03	1.4E-05	3E-04	7.5E-06		8.0E-07			1.6E-04	3E-03	1.7E-05	4E-04	9.2E-06		9.9E-07		
	Mercury	7439976	0.810	0.470	0.078	0.453	3.0E-04	--	(i)	6.0E-08	2E-04	6.4E-09	2E-05	3.4E-09		3.7E-10			3.5E-07	1E-03	3.7E-08	1E-04	2.0E-08		2.1E-09		
	Nickel	7440020	16.3	16.8	12.9	15.3	2.0E-02	--		9.9E-06	5E-04	1.1E-06	5E-05	5.7E-07		6.1E-08			1.2E-05	6E-04	1.3E-06	6E-05	6.7E-07		7.2E-08		
	Potassium	7440097	1,010	1,020	1,070	1,033	--	--		8.2E-04		8.8E-05		4.7E-05		5.0E-06			7.9E-04		8.5E-05		4.5E-05		4.9E-06		
	Selenium	7782492	2.30	4.30	1.80	2.80	5.0E-03	--		1.4E-06	3E-04	1.5E-07	3E-05	7.9E-08		8.5E-09			2.1E-06	4E-04	2.3E-07	5E-05	1.2E-07		1.3E-08		
	Silver	7440224	0.70	0.65	0.50	0.62	5.0E-03	--		3.8E-07	8E-05	4.1E-08	8E-06	2.2E-08		2.3E-09			4.7E-07	9E-05	5.1E-08	1E-05	2.7E-08		2.9E-09		
	Sodium	7440235	86	134	96	105	--	--		7.4E-05		7.9E-06		4.2E-06		4.5E-07			8.1E-05		8.7E-06		4.6E-06		5.0E-07		
	Thallium	7440280	1.70	1.60	1.30	1.53	6.5E-05	--		1.0E-06	2E-02	1.1E-07	2E-03	5.7E-08		6.1E-09			1.2E-06	2E-02	1.3E-07	2E-03	6.7E-08		7.2E-09		
	Uranium	7440611	13.6	6.7	7.5	9.3	6.0E-04	--	(e)	5.8E-06	1E-02	6.2E-07	1E-03	3.3E-07		3.5E-08			7.1E-06	1E-02	7.6E-07	1E-03	4.1E-07		4.3E-08		
	Vanadium	7440622	24.4	28.5	18.6	23.8	7.0E-03	--		1.4E-05	2E-03	1.5E-06	2E-04	8.2E-07		8.7E-08			1.8E-05	3E-03	2.0E-06	3E-04	1.0E-06		1.1E-07		
	Zinc	7440666	915	620	186	574	3.0E-01	--		4.8E-04	2E-03	5.1E-05	2E-04	2.7E-05		2.9E-06			4.4E-04	1E-03	4.7E-05	2E-04	2.5E-05		2.7E-06		
								Total			**9E-02**		**9E-03**		**3E-07**		**3E-08**	**4E-07**		**1E-01**		**1E-02**		**5E-07**		**6E-08**	**6E-07**
										Total HQ or Risks > LOPC?:		**No**							**Total HQ or Risks > LOPC?:**		**Yes**						

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Short-term

Exposure Area: North Gorge Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	7.67E-07	8.22E-08
Cancer:	4.38E-08	4.70E-09

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	7,060	7,880	4,350	6,430	1.0E+00	--		5.4E-03	5E-03	5.8E-04	6E-04	3.1E-04		3.3E-05			6.0E-03	6E-03	6.5E-04	6E-04	3.5E-04		3.7E-05		
	Antimony	7440360	6.4	3.6	0.5	3.5	4.0E-04	--		4.9E-06	1E-02	5.3E-07	1E-03	2.8E-07		3.0E-08			2.8E-06	7E-03	3.0E-07	7E-04	1.6E-07		1.7E-08		
	Arsenic	7440382	10.7	9.6	5.0	8.4	2.4E-04	1.9E+00	(j)	8.2E-06	3E-02	8.8E-07	4E-03	4.7E-07	9E-07	5.0E-08	9E-08	1E-06	7.4E-06	3E-02	7.9E-07	3E-03	4.2E-07	8E-07	4.5E-08	8E-08	9E-07
	Barium	7440393	407	315	102	275	2.0E-01	--		3.1E-04	2E-03	3.3E-05	2E-04	1.8E-05		1.9E-06			2.4E-04	1E-03	2.6E-05	1E-04	1.4E-05		1.5E-06		
	Beryllium	7440417	0.48	0.53	0.28	0.43	2.0E-03	--		3.7E-07	2E-04	3.9E-08	2E-05	2.1E-08		2.3E-09			4.1E-07	2E-04	4.4E-08	2E-05	2.3E-08		2.5E-09		
	Cadmium	7440439	4.20	4.20	1.10	3.17	1.0E-03	--	(a)	3.2E-06	3E-03	3.5E-07	3E-04	1.8E-07		2.0E-08			3.2E-06	3E-03	3.5E-07	3E-04	1.8E-07		2.0E-08		
	Calcium	7440702	24,700	15,400	6,090	15,397	--	--		1.9E-02		2.0E-03		1.1E-03		1.2E-04			1.2E-02		1.3E-03		6.8E-04		7.2E-05		
	Chromium	7440473	24.9	22.8	15.1	20.9	1.5E+00	--	(b)	1.9E-05	1E-05	2.0E-06	1E-06	1.1E-06		1.2E-07			1.7E-05	1E-05	1.9E-06	1E-06	1.0E-06		1.1E-07		
	Cobalt	7440484	9.8	8.5	4.3	7.5	3.0E-04	--		7.5E-06	3E-02	8.1E-07	3E-03	4.3E-07		4.6E-08			6.5E-06	2E-02	7.0E-07	2E-03	3.7E-07		4.0E-08		
	Copper	7440508	216	132	23	124	4.0E-02	--		1.7E-04	4E-03	1.8E-05	4E-04	9.5E-06		1.0E-06			1.0E-04	3E-03	1.1E-05	3E-04	5.8E-06		6.2E-07		
	Iron	7439896	29,500	23,500	16,000	23,000	7.0E-01	--		2.3E-02	3E-02	2.4E-03	3E-03	1.3E-03		1.4E-04			1.8E-02	3E-02	1.9E-03	3E-03	1.0E-03		1.1E-04		
	Lead	7439921	216	223	69	169			(c)																		
	Magnesium	7439954	13,900	10,200	4,140	9,413	--	--		1.1E-02		1.1E-03		6.1E-04		6.5E-05			7.8E-03		8.4E-04		4.5E-04		4.8E-05		
	Manganese	7439965	434	270	171	292	4.7E-02	--	(d)	3.3E-04	7E-03	3.6E-05	8E-04	1.9E-05		2.0E-06			2.1E-04	4E-03	2.2E-05	5E-04	1.2E-05		1.3E-06		
	Mercury	7439976	0.370	0.400	0.068	0.279	3.0E-04	--	(i)	2.8E-07	9E-04	3.0E-08	1E-04	1.6E-08		1.7E-09			3.1E-07	1E-03	3.3E-08	1E-04	1.8E-08		1.9E-09		
	Nickel	7440020	15.3	17.2	9.6	14.0	2.0E-02	--		1.2E-05	6E-04	1.3E-06	6E-05	6.7E-07		7.2E-08			1.3E-05	7E-04	1.4E-06	7E-05	7.5E-07		8.1E-08		
	Potassium	7440097	1,190	1,220	624	1,011	--	--		9.1E-04		9.8E-05		5.2E-05		5.6E-06			9.4E-04		1.0E-04		5.3E-05		5.7E-06		
	Selenium	7782492	3.00	2.70	1.10	2.27	5.0E-03	--		2.3E-06	5E-04	2.5E-07	5E-05	1.3E-07		1.4E-08			2.1E-06	4E-04	2.2E-07	4E-05	1.2E-07		1.3E-08		
	Silver	7440224	0.60	0.70	0.50	0.60	5.0E-03	--		4.6E-07	9E-05	4.9E-08	1E-05	2.6E-08		2.8E-09			5.4E-07	1E-04	5.8E-08	1E-05	3.1E-08		3.3E-09		
	Sodium	7440235	170	134	89	131	--	--		1.3E-04		1.4E-05		7.5E-06		8.0E-07			1.0E-04		1.1E-05		5.9E-06		6.3E-07		
	Thallium	7440280	1.55	1.70	1.30	1.52	6.5E-05	--		1.2E-06	2E-02	1.3E-07	2E-03	6.8E-08		7.3E-09			1.3E-06	2E-02	1.4E-07	2E-03	7.5E-08		8.0E-09		
	Uranium	7440611	14.2	11.2	5.7	10.4	6.0E-04	--	(e)	1.1E-05	2E-02	1.2E-06	2E-03	6.2E-07		6.7E-08			8.6E-06	1E-02	9.2E-07	2E-03	4.9E-07		5.3E-08		
	Vanadium	7440622	26.9	27.4	27.9	27.4	7.0E-03	--		2.1E-05	3E-03	2.2E-06	3E-04	1.2E-06		1.3E-07			2.1E-05	3E-03	2.3E-06	3E-04	1.2E-06		1.3E-07		
	Zinc	7440666	1,700	1,060	352	1,037	3.0E-01	--		1.3E-03	4E-03	1.4E-04	5E-04	7.5E-05		8.0E-06			8.1E-04	3E-03	8.7E-05	3E-04	4.6E-05		5.0E-06		
									Total		**2E-01**		**2E-02**		**9E-07**		**9E-08**	**1E-06**		**1E-01**		**1E-02**		**8E-07**		**8E-08**	**9E-07**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Short-term

Exposure Area: North Gorge Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	7.67E-07	8.22E-08
Cancer:	4.38E-08	4.70E-09

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	7,060	7,880	4,350	6,430	1.0E+00	--		3.3E-03	3E-03	3.6E-04	4E-04	1.9E-04		2.0E-05			4.9E-03	5E-03	5.3E-04	5E-04	2.8E-04		3.0E-05		
	Antimony	7440360	6.4	3.6	0.5	3.5	4.0E-04	--		3.6E-07	9E-04	3.9E-08	1E-04	2.1E-08		2.2E-09			2.7E-06	7E-03	2.9E-07	7E-04	1.5E-07		1.6E-08		
	Arsenic	7440382	10.7	9.6	5.0	8.4	2.4E-04	1.9E+00	(j)	3.8E-06	2E-02	4.1E-07	2E-03	2.2E-07	4E-07	2.3E-08	4E-08	5E-07	6.5E-06	3E-02	6.9E-07	3E-03	3.7E-07	7E-07	4.0E-08	7E-08	8E-07
	Barium	7440393	407	315	102	275	2.0E-01	--		7.8E-05	4E-04	8.4E-06	4E-05	4.5E-06		4.8E-07			2.1E-04	1E-03	2.3E-05	1E-04	1.2E-05		1.3E-06		
	Beryllium	7440417	0.48	0.53	0.28	0.43	2.0E-03	--		2.1E-07	1E-04	2.3E-08	1E-05	1.2E-08		1.3E-09			3.3E-07	2E-04	3.5E-08	2E-05	1.9E-08		2.0E-09		
	Cadmium	7440439	4.20	4.20	1.10	3.17	1.0E-03	--	(a)	8.4E-07	8E-04	9.0E-08	9E-05	4.8E-08		5.2E-09			2.4E-06	2E-03	2.6E-07	3E-04	1.4E-07		1.5E-08		
	Calcium	7440702	24,700	15,400	6,090	15,397	--	--		4.7E-03		5.0E-04		2.7E-04		2.9E-05			1.2E-02		1.3E-03		6.7E-04		7.2E-05		
	Chromium	7440473	24.9	22.8	15.1	20.9	1.5E+00	--	(b)	1.2E-05	8E-06	1.2E-06	8E-07	6.6E-07		7.1E-08			1.6E-05	1E-05	1.7E-06	1E-06	9.2E-07		9.8E-08		
	Cobalt	7440484	9.8	8.5	4.3	7.5	3.0E-04	--		3.3E-06	1E-02	3.5E-07	1E-03	1.9E-07		2.0E-08			5.8E-06	2E-02	6.2E-07	2E-03	3.3E-07		3.5E-08		
	Copper	7440508	216	132	23	124	4.0E-02	--		1.8E-05	4E-04	1.9E-06	5E-05	1.0E-06		1.1E-07			9.5E-05	2E-03	1.0E-05	3E-04	5.4E-06		5.8E-07		
	Iron	7439896	29,500	23,500	16,000	23,000	7.0E-01	--		1.2E-02	2E-02	1.3E-03	2E-03	7.0E-04		7.5E-05			1.8E-02	3E-02	1.9E-03	3E-03	1.0E-03		1.1E-04		
	Lead	7439921	216	223	69	169			(c)																		
	Magnesium	7439954	13,900	10,200	4,140	9,413	--	--		3.2E-03		3.4E-04		1.8E-04		1.9E-05			7.2E-03		7.7E-04		4.1E-04		4.4E-05		
	Manganese	7439965	434	270	171	292	4.7E-02	--	(d)	1.3E-04	3E-03	1.4E-05	3E-04	7.5E-06		8.0E-07			2.2E-04	5E-03	2.4E-05	5E-04	1.3E-05		1.4E-06		
	Mercury	7439976	0.370	0.400	0.068	0.279	3.0E-04	--	(i)	5.2E-08	2E-04	5.6E-09	2E-05	3.0E-09		3.2E-10			2.1E-07	7E-04	2.3E-08	8E-05	1.2E-08		1.3E-09		
	Nickel	7440020	15.3	17.2	9.6	14.0	2.0E-02	--		7.4E-06	4E-04	7.9E-07	4E-05	4.2E-07		4.5E-08			1.1E-05	5E-04	1.2E-06	6E-05	6.2E-07		6.6E-08		
	Potassium	7440097	1,190	1,220	624	1,011	--	--		4.8E-04		5.1E-05		2.7E-05		2.9E-06			7.8E-04		8.3E-05		4.4E-05		4.7E-06		
	Selenium	7782492	3.00	2.70	1.10	2.27	5.0E-03	--		8.4E-07	2E-04	9.0E-08	2E-05	4.8E-08		5.2E-09			1.7E-06	3E-04	1.9E-07	4E-05	9.9E-08		1.1E-08		
	Silver	7440224	0.60	0.70	0.50	0.60	5.0E-03	--		3.8E-07	8E-05	4.1E-08	8E-06	2.2E-08		2.3E-09			4.6E-07	9E-05	4.9E-08	1E-05	2.6E-08		2.8E-09		
	Sodium	7440235	170	134	89	131	--	--		6.8E-05		7.3E-06		3.9E-06		4.2E-07			1.0E-04		1.1E-05		5.7E-06		6.1E-07		
	Thallium	7440280	1.55	1.70	1.30	1.52	6.5E-05	--		1.0E-06	2E-02	1.1E-07	2E-03	5.7E-08		6.1E-09			1.2E-06	2E-02	1.2E-07	2E-03	6.6E-08		7.1E-09		
	Uranium	7440611	14.2	11.2	5.7	10.4	6.0E-04	--	(e)	4.4E-06	7E-03	4.7E-07	8E-04	2.5E-07		2.7E-08			8.0E-06	1E-02	8.5E-07	1E-03	4.5E-07		4.9E-08		
	Vanadium	7440622	26.9	27.4	27.9	27.4	7.0E-03	--		2.1E-05	3E-03	2.3E-06	3E-04	1.2E-06		1.3E-07			2.1E-05	3E-03	2.3E-06	3E-04	1.2E-06		1.3E-07		
	Zinc	7440666	1,700	1,060	352	1,037	3.0E-01	--		8.1E-04	3E-03	8.7E-05	3E-04	4.6E-05		5.0E-06			8.0E-04	3E-03	8.5E-05	3E-04	4.5E-05		4.9E-06		
									Total		**8E-02**		**9E-03**		**4E-07**		**4E-08**	**5E-07**		**1E-01**		**1E-02**		**7E-07**		**7E-08**	**8E-07**
										Total HQ or Risks > LOPC?:		**No**							**Total HQ or Risks > LOPC?:**		**Yes**					

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Short-term

Exposure Area: Northport Boat Launch

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	7.67E-07	8.22E-08
Cancer:	4.38E-08	4.70E-09

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	11,923	12,493	9,843	11,420	1.0E+00	--		9.1E-03	9E-03	9.8E-04	1E-03	5.2E-04		5.6E-05			9.6E-03	1E-02	1.0E-03	1E-03	5.5E-04		5.9E-05		
	Antimony	7440360	22.9	27.2	21.5	23.9	4.0E-04	--		1.8E-05	4E-02	1.9E-06	5E-03	1.0E-06		1.1E-07			2.1E-05	5E-02	2.2E-06	6E-03	1.2E-06		1.3E-07		
	Arsenic	7440382	17.3	14.3	10.7	14.1	2.4E-04	1.9E+00	(j)	1.3E-05	6E-02	1.4E-06	6E-03	7.6E-07	1E-06	8.1E-08	2E-07	2E-06	1.1E-05	5E-02	1.2E-06	5E-03	6.3E-07	1E-06	6.7E-08	1E-07	1E-06
	Barium	7440393	1,062	1,036	848	982	2.0E-01	--		8.1E-04	4E-03	8.7E-05	4E-04	4.7E-05		5.0E-06			7.9E-04	4E-03	8.5E-05	4E-04	4.5E-05		4.9E-06		
	Beryllium	7440417	0.94	0.94	0.82	0.90	2.0E-03	--		7.2E-07	4E-04	7.7E-08	4E-05	4.1E-08		4.4E-09			7.2E-07	4E-04	7.7E-08	4E-05	4.1E-08		4.4E-09		
	Cadmium	7440439	2.99	2.39	2.25	2.54	1.0E-03	--	(a)	2.3E-06	2E-03	2.5E-07	2E-04	1.3E-07		1.4E-08			1.8E-06	2E-03	2.0E-07	2E-04	1.0E-07		1.1E-08		
	Calcium	7440702	52,267	49,967	37,967	46,733	--	--		4.0E-02		4.3E-03		2.3E-03		2.5E-04			3.8E-02		4.1E-03		2.2E-03		2.3E-04		
	Chromium	7440473	68.4	66.2	50.7	61.8	1.5E+00	--	(b)	5.2E-05	3E-05	5.6E-06	4E-06	3.0E-06		3.2E-07			5.1E-05	3E-05	5.4E-06	4E-06	2.9E-06		3.1E-07		
	Cobalt	7440484	27.4	27.5	21.5	25.5	3.0E-04	--		2.1E-05	7E-02	2.3E-06	8E-03	1.2E-06		1.3E-07			2.1E-05	7E-02	2.3E-06	8E-03	1.2E-06		1.3E-07		
	Copper	7440508	1,382	1,182	833	1,132	4.0E-02	--		1.1E-03	3E-02	1.1E-04	3E-03	6.1E-05		6.5E-06			9.1E-04	2E-02	9.7E-05	2E-03	5.2E-05		5.6E-06		
	Iron	7439896	113,367	108,233	75,267	98,956	7.0E-01	--		8.7E-02	1E-01	9.3E-03	1E-02	5.0E-03		5.3E-04			8.3E-02	1E-01	8.9E-03	1E-02	4.7E-03		5.1E-04		
	Lead	7439921	309	256	186	250			(c)																		
	Magnesium	7439954	12,000	12,357	11,447	11,934	--	--		9.2E-03		9.9E-04		5.3E-04		5.6E-05			9.5E-03		1.0E-03		5.4E-04		5.8E-05		
	Manganese	7439965	2,138	2,004	1,446	1,862	4.7E-02	--	(d)	1.6E-03	4E-02	1.8E-04	4E-03	9.4E-05		1.0E-05			1.5E-03	3E-02	1.6E-04	4E-03	8.8E-05		9.4E-06		
	Mercury	7439976	0.102	0.099	0.075	0.092	3.0E-04	--	(i)	7.9E-08	3E-04	8.4E-09	3E-05	4.5E-09		4.8E-10			7.6E-08	3E-04	8.1E-09	3E-05	4.3E-09		4.6E-10		
	Nickel	7440020	13.3	13.0	12.8	13.1	2.0E-02	--		1.0E-05	5E-04	1.1E-06	5E-05	5.8E-07		6.3E-08			1.0E-05	5E-04	1.1E-06	5E-05	5.7E-07		6.1E-08		
	Potassium	7440097	2,410	2,403	1,943	2,252	--	--		1.8E-03		2.0E-04		1.1E-04		1.1E-05			1.8E-03		2.0E-04		1.1E-04		1.1E-05		
	Selenium	7782492	1.82	1.75	1.90	1.82	5.0E-03	--		1.4E-06	3E-04	1.5E-07	3E-05	8.0E-08		8.5E-09			1.3E-06	3E-04	1.4E-07	3E-05	7.7E-08		8.2E-09		
	Silver	7440224	0.53	0.51	0.53	0.52	5.0E-03	--		4.0E-07	8E-05	4.3E-08	9E-06	2.3E-08		2.5E-09			3.9E-07	8E-05	4.2E-08	8E-06	2.2E-08		2.4E-09		
	Sodium	7440235	1,130	1,147	767	1,015	--	--		8.7E-04		9.3E-05		5.0E-05		5.3E-06			8.8E-04		9.4E-05		5.0E-05		5.4E-06		
	Thallium	7440280	1.30	1.27	1.37	1.31	6.5E-05	--		1.0E-06	2E-02	1.1E-07	2E-03	5.7E-08		6.1E-09			9.7E-07	1E-02	1.0E-07	2E-03	5.6E-08		5.9E-09		
	Uranium	7440611	10.5	10.1	10.9	10.5	6.0E-04	--	(e)	8.0E-06	1E-02	8.6E-07	1E-03	4.6E-07		4.9E-08			7.7E-06	1E-02	8.3E-07	1E-03	4.4E-07		4.7E-08		
	Vanadium	7440622	28.4	31.2	27.9	29.1	7.0E-03	--		2.2E-05	3E-03	2.3E-06	3E-04	1.2E-06		1.3E-07			2.4E-05	3E-03	2.6E-06	4E-04	1.4E-06		1.5E-07		
	Zinc	7440666	9,623	8,543	5,947	8,038	3.0E-01	--		7.4E-03	2E-02	7.9E-04	3E-03	4.2E-04		4.5E-05			6.6E-03	2E-02	7.0E-04	2E-03	3.7E-04		4.0E-05		
									Total		**4E-01**		**5E-02**		**1E-06**		**2E-07**	**2E-06**		**4E-01**		**4E-02**		**1E-06**		**1E-07**	**1E-06**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**			

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Short-term

Exposure Area: Northport Boat Launch

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	7.67E-07	8.22E-08
Cancer:	4.38E-08	4.70E-09

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	11,923	12,493	9,843	11,420	1.0E+00	--		7.6E-03	8E-03	8.1E-04	8E-04	4.3E-04		4.6E-05			8.8E-03	9E-03	9.4E-04	9E-04	5.0E-04		5.4E-05		
	Antimony	7440360	22.9	27.2	21.5	23.9	4.0E-04	--		1.7E-05	4E-02	1.8E-06	4E-03	9.4E-07		1.0E-07			1.8E-05	5E-02	2.0E-06	5E-03	1.0E-06		1.1E-07		
	Arsenic	7440382	17.3	14.3	10.7	14.1	2.4E-04	1.9E+00	(j)	8.2E-06	3E-02	8.8E-07	4E-03	4.7E-07	9E-07	5.0E-08	9E-08	1E-06	1.1E-05	5E-02	1.2E-06	5E-03	6.2E-07	1E-06	6.6E-08	1E-07	1E-06
	Barium	7440393	1,062	1,036	848	982	2.0E-01	--		6.5E-04	3E-03	7.0E-05	3E-04	3.7E-05		4.0E-06			7.5E-04	4E-03	8.1E-05	4E-04	4.3E-05		4.6E-06		
	Beryllium	7440417	0.94	0.94	0.82	0.90	2.0E-03	--		6.3E-07	3E-04	6.7E-08	3E-05	3.6E-08		3.9E-09			6.9E-07	3E-04	7.4E-08	4E-05	3.9E-08		4.2E-09		
	Cadmium	7440439	2.99	2.39	2.25	2.54	1.0E-03	--	(a)	1.7E-06	2E-03	1.8E-07	2E-04	9.8E-08		1.1E-08			2.0E-06	2E-03	2.1E-07	2E-04	1.1E-07		1.2E-08		
	Calcium	7440702	52,267	49,967	37,967	46,733	--	--		2.9E-02		3.1E-03		1.7E-03		1.8E-04			3.6E-02		3.8E-03		2.0E-03		2.2E-04		
	Chromium	7440473	68.4	66.2	50.7	61.8	1.5E+00	--	(b)	3.9E-05	3E-05	4.2E-06	3E-06	2.2E-06		2.4E-07			4.7E-05	3E-05	5.1E-06	3E-06	2.7E-06		2.9E-07		
	Cobalt	7440484	27.4	27.5	21.5	25.5	3.0E-04	--		1.7E-05	6E-02	1.8E-06	6E-03	9.4E-07		1.0E-07			2.0E-05	7E-02	2.1E-06	7E-03	1.1E-06		1.2E-07		
	Copper	7440508	1,382	1,182	833	1,132	4.0E-02	--		6.4E-04	2E-02	6.8E-05	2E-03	3.7E-05		3.9E-06			8.7E-04	2E-02	9.3E-05	2E-03	5.0E-05		5.3E-06		
	Iron	7439896	113,367	108,233	75,267	98,956	7.0E-01	--		5.8E-02	8E-02	6.2E-03	9E-03	3.3E-03		3.5E-04			7.6E-02	1E-01	8.1E-03	1E-02	4.3E-03		4.6E-04		
	Lead	7439921	309	256	186	250			(c)																		
	Magnesium	7439954	12,000	12,357	11,447	11,934	--	--		8.8E-03		9.4E-04		5.0E-04		5.4E-05			9.2E-03		9.8E-04		5.2E-04		5.6E-05		
	Manganese	7439965	2,138	2,004	1,446	1,862	4.7E-02	--	(d)	1.1E-03	2E-02	1.2E-04	3E-03	6.3E-05		6.8E-06			1.4E-03	3E-02	1.5E-04	3E-03	8.2E-05		8.7E-06		
	Mercury	7439976	0.102	0.099	0.075	0.092	3.0E-04	--	(i)	5.7E-08	2E-04	6.1E-09	2E-05	3.3E-09		3.5E-10			7.1E-08	2E-04	7.6E-09	3E-05	4.0E-09		4.3E-10		
	Nickel	7440020	13.3	13.0	12.8	13.1	2.0E-02	--		9.8E-06	5E-04	1.1E-06	5E-05	5.6E-07		6.0E-08			1.0E-05	5E-04	1.1E-06	5E-05	5.7E-07		6.1E-08		
	Potassium	7440097	2,410	2,403	1,943	2,252	--	--		1.5E-03		1.6E-04		8.5E-05		9.1E-06			1.7E-03		1.9E-04		9.9E-05		1.1E-05		
	Selenium	7782492	1.82	1.75	1.90	1.82	5.0E-03	--		1.5E-06	3E-04	1.6E-07	3E-05	8.3E-08		8.9E-09			1.4E-06	3E-04	1.5E-07	3E-05	8.0E-08		8.6E-09		
	Silver	7440224	0.53	0.51	0.53	0.52	5.0E-03	--		4.1E-07	8E-05	4.4E-08	9E-06	2.3E-08		2.5E-09			4.0E-07	8E-05	4.3E-08	9E-06	2.3E-08		2.5E-09		
	Sodium	7440235	1,130	1,147	767	1,015	--	--		5.9E-04		6.3E-05		3.4E-05		3.6E-06			7.8E-04		8.3E-05		4.4E-05		4.8E-06		
	Thallium	7440280	1.30	1.27	1.37	1.31	6.5E-05	--		1.0E-06	2E-02	1.1E-07	2E-03	6.0E-08		6.4E-09			1.0E-06	2E-02	1.1E-07	2E-03	5.7E-08		6.2E-09		
	Uranium	7440611	10.5	10.1	10.9	10.5	6.0E-04	--	(e)	8.3E-06	1E-02	8.9E-07	1E-03	4.8E-07		5.1E-08			8.0E-06	1E-02	8.6E-07	1E-03	4.6E-07		4.9E-08		
	Vanadium	7440622	28.4	31.2	27.9	29.1	7.0E-03	--		2.1E-05	3E-03	2.3E-06	3E-04	1.2E-06		1.3E-07			2.2E-05	3E-03	2.4E-06	3E-04	1.3E-06		1.4E-07		
	Zinc	7440666	9,623	8,543	5,947	8,038	3.0E-01	--		6.6E-03	2E-02	7.0E-04	2E-03	3.7E-04		4.0E-05			6.2E-03	2E-02	6.6E-04	2E-03	3.5E-04		3.8E-05		
									Total		3E-01		3E-02		9E-07		9E-08	1E-06		4E-01		4E-02		1E-06		1E-07	1E-06
										Total HQ or Risks > LOPC?: Yes									Total HQ or Risks > LOPC?: Yes								

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Short-term

Exposure Area: Rogers Bar Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	7.67E-07	8.22E-08
Cancer:	4.38E-08	4.70E-09

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	2,760	5,810	4,810	4,460	1.0E+00	--		2.1E-03	2E-03	2.3E-04	2E-04	1.2E-04		1.3E-05			4.5E-03	4E-03	4.8E-04	5E-04	2.5E-04		2.7E-05		
	Antimony	7440360	#N/A	#N/A	#N/A	#N/A	4.0E-04	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Arsenic	7440382	0.5	1.9	2.2	1.5	2.4E-04	1.9E+00	(j)	3.7E-07	2E-03	4.0E-08	2E-04	2.1E-08	4E-08	2.3E-09	4E-09	4E-08	1.5E-06	6E-03	1.6E-07	7E-04	8.3E-08	2E-07	8.9E-09	2E-08	2E-07
	Barium	7440393	21	53	38	37	2.0E-01	--		1.6E-05	8E-05	1.7E-06	8E-06	9.0E-07		9.7E-08			4.1E-05	2E-04	4.4E-06	2E-05	2.3E-06		2.5E-07		
	Beryllium	7440417	0.21	0.44	0.37	0.34	2.0E-03	--		1.6E-07	8E-05	1.7E-08	9E-06	9.2E-09		9.9E-10			3.4E-07	2E-04	3.6E-08	2E-05	1.9E-08		2.1E-09		
	Cadmium	7440439	0.06	0.11	0.22	0.13	1.0E-03	--	(a)	4.3E-08	4E-05	4.6E-09	5E-06	2.5E-09		2.6E-10			8.4E-08	8E-05	9.0E-09	9E-06	4.8E-09		5.2E-10		
	Calcium	7440702	1,670	1,700	1,580	1,650	--	--		1.3E-03		1.4E-04		7.3E-05		7.8E-06			1.3E-03		1.4E-04		7.5E-05		8.0E-06		
	Chromium	7440473	5.7	13.2	9.6	9.5	1.5E+00	--	(b)	4.4E-06	3E-06	4.7E-07	3E-07	2.5E-07		2.7E-08			1.0E-05	7E-06	1.1E-06	7E-07	5.8E-07		6.2E-08		
	Cobalt	7440484	2.1	4.1	3.7	3.3	3.0E-04	--		1.6E-06	5E-03	1.7E-07	6E-04	9.2E-08		9.9E-09			3.1E-06	1E-02	3.4E-07	1E-03	1.8E-07		1.9E-08		
	Copper	7440508	5	9	7	7	4.0E-02	--		3.8E-06	9E-05	4.0E-07	1E-05	2.1E-07		2.3E-08			6.9E-06	2E-04	7.4E-07	2E-05	3.9E-07		4.2E-08		
	Iron	7439896	4,930	9,800	9,720	8,150	7.0E-01	--		3.8E-03	5E-03	4.1E-04	6E-04	2.2E-04		2.3E-05			7.5E-03	1E-02	8.1E-04	1E-03	4.3E-04		4.6E-05		
	Lead	7439921	3	5	5	5			(c)																		
	Magnesium	7439954	1,540	2,590	2,390	2,173	--	--		1.2E-03		1.3E-04		6.8E-05		7.2E-06			2.0E-03		2.1E-04		1.1E-04		1.2E-05		
	Manganese	7439965	95	157	134	129	4.7E-02	--	(d)	7.3E-05	2E-03	7.8E-06	2E-04	4.2E-06		4.5E-07			1.2E-04	3E-03	1.3E-05	3E-04	6.9E-06		7.4E-07		
	Mercury	7439976	0.050	0.055	0.050	0.052	3.0E-04	--	(i)	3.8E-08	1E-04	4.1E-09	1E-05	2.2E-09		2.3E-10			4.2E-08	1E-04	4.5E-09	2E-05	2.4E-09		2.6E-10		
	Nickel	7440020	5.1	10.2	9.0	8.1	2.0E-02	--		3.9E-06	2E-04	4.2E-07	2E-05	2.2E-07		2.4E-08			7.8E-06	4E-04	8.4E-07	4E-05	4.5E-07		4.8E-08		
	Potassium	7440097	317	719	519	518	--	--		2.4E-04		2.6E-05		1.4E-05		1.5E-06			5.5E-04		5.9E-05		3.2E-05		3.4E-06		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.49	0.55	0.50	0.51	5.0E-03	--		3.7E-07	7E-05	4.0E-08	8E-06	2.1E-08		2.3E-09			4.2E-07	8E-05	4.5E-08	9E-06	2.4E-08		2.6E-09		
	Sodium	7440235	58	98	88	81	--	--		4.5E-05		4.8E-06		2.6E-06		2.7E-07			7.5E-05		8.0E-06		4.3E-06		4.6E-07		
	Thallium	7440280	1.20	1.35	1.25	1.27	6.5E-05	--		9.2E-07	1E-02	9.9E-08	2E-03	5.3E-08		5.6E-09			1.0E-06	2E-02	1.1E-07	2E-03	5.9E-08		6.3E-09		
	Uranium	7440611	9.7	9.8	10.1	9.9	6.0E-04	--	(e)	7.4E-06	1E-02	8.0E-07	1E-03	4.3E-07		4.6E-08			7.5E-06	1E-02	8.1E-07	1E-03	4.3E-07		4.6E-08		
	Vanadium	7440622	8.7	16.2	16.7	13.9	7.0E-03	--		6.7E-06	1E-03	7.2E-07	1E-04	3.8E-07		4.1E-08			1.2E-05	2E-03	1.3E-06	2E-04	7.1E-07		7.6E-08		
	Zinc	7440666	21	33	47	34	3.0E-01	--		1.6E-05	5E-05	1.8E-06	6E-06	9.3E-07		1.0E-07			2.5E-05	8E-05	2.7E-06	9E-06	1.4E-06		1.5E-07		
									Total		**4E-02**		**5E-03**		**4E-08**		**4E-09**	**4E-08**		**7E-02**		**7E-03**		**2E-07**		**2E-08**	**2E-07**
										Total HQ or Risks > LOPC?:		**No**							**Total HQ or Risks > LOPC?:**		**No**					

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Short-term

Exposure Area: Rogers Bar Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	7.67E-07	8.22E-08
Cancer:	4.38E-08	4.70E-09

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	2,760	5,810	4,810	4,460	1.0E+00	--		3.7E-03	4E-03	4.0E-04	4E-04	2.1E-04		2.3E-05			3.4E-03	3E-03	3.7E-04	4E-04	2.0E-04		2.1E-05		
	Antimony	7440360	#N/A	#N/A	#N/A	#N/A	4.0E-04	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Arsenic	7440382	0.5	1.9	2.2	1.5	2.4E-04	1.9E+00	(j)	1.7E-06	7E-03	1.8E-07	8E-04	9.6E-08	2E-07	1.0E-08	2E-08	2E-07	1.2E-06	5E-03	1.3E-07	5E-04	6.7E-08	1E-07	7.2E-09	1E-08	1E-07
	Barium	7440393	21	53	38	37	2.0E-01	--		2.9E-05	1E-04	3.1E-06	2E-05	1.7E-06		1.8E-07			2.9E-05	1E-04	3.1E-06	2E-05	1.6E-06		1.7E-07		
	Beryllium	7440417	0.21	0.44	0.37	0.34	2.0E-03	--		2.8E-07	1E-04	3.0E-08	2E-05	1.6E-08		1.7E-09			2.6E-07	1E-04	2.8E-08	1E-05	1.5E-08		1.6E-09		
	Cadmium	7440439	0.06	0.11	0.22	0.13	1.0E-03	--	(a)	1.7E-07	2E-04	1.8E-08	2E-05	9.6E-09		1.0E-09			9.9E-08	1E-04	1.1E-08	1E-05	5.6E-09		6.0E-10		
	Calcium	7440702	1,670	1,700	1,580	1,650	--	--		1.2E-03		1.3E-04		6.9E-05		7.4E-06			1.3E-03		1.4E-04		7.2E-05		7.7E-06		
	Chromium	7440473	5.7	13.2	9.6	9.5	1.5E+00	--	(b)	7.4E-06	5E-06	7.9E-07	5E-07	4.2E-07		4.5E-08			7.3E-06	5E-06	7.8E-07	5E-07	4.2E-07		4.5E-08		
	Cobalt	7440484	2.1	4.1	3.7	3.3	3.0E-04	--		2.8E-06	9E-03	3.0E-07	1E-03	1.6E-07		1.7E-08			2.5E-06	8E-03	2.7E-07	9E-04	1.4E-07		1.5E-08		
	Copper	7440508	5	9	7	7	4.0E-02	--		5.7E-06	1E-04	6.1E-07	2E-05	3.2E-07		3.5E-08			5.4E-06	1E-04	5.8E-07	1E-05	3.1E-07		3.3E-08		
	Iron	7439896	4,930	9,800	9,720	8,150	7.0E-01	--		7.5E-03	1E-02	8.0E-04	1E-03	4.3E-04		4.6E-05			6.3E-03	9E-03	6.7E-04	1E-03	3.6E-04		3.8E-05		
	Lead	7439921	3	5	5	5			(c)																		
	Magnesium	7439954	1,540	2,590	2,390	2,173	--	--		1.8E-03		2.0E-04		1.0E-04		1.1E-05			1.7E-03		1.8E-04		9.5E-05		1.0E-05		
	Manganese	7439965	95	157	134	129	4.7E-02	--	(d)	1.0E-04	2E-03	1.1E-05	2E-04	5.9E-06		6.3E-07			9.9E-05	2E-03	1.1E-05	2E-04	5.6E-06		6.0E-07		
	Mercury	7439976	0.050	0.055	0.050	0.052	3.0E-04	--	(i)	3.8E-08	1E-04	4.1E-09	1E-05	2.2E-09		2.3E-10			4.0E-08	1E-04	4.2E-09	1E-05	2.3E-09		2.4E-10		
	Nickel	7440020	5.1	10.2	9.0	8.1	2.0E-02	--		6.9E-06	3E-04	7.4E-07	4E-05	3.9E-07		4.2E-08			6.2E-06	3E-04	6.7E-07	3E-05	3.6E-07		3.8E-08		
	Potassium	7440097	317	719	519	518	--	--		4.0E-04		4.3E-05		2.3E-05		2.4E-06			4.0E-04		4.3E-05		2.3E-05		2.4E-06		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.49	0.55	0.50	0.51	5.0E-03	--		3.8E-07	8E-05	4.1E-08	8E-06	2.2E-08		2.3E-09			3.9E-07	8E-05	4.2E-08	8E-06	2.2E-08		2.4E-09		
	Sodium	7440235	58	98	88	81	--	--		6.7E-05		7.2E-06		3.8E-06		4.1E-07			6.2E-05		6.7E-06		3.6E-06		3.8E-07		
	Thallium	7440280	1.20	1.35	1.25	1.27	6.5E-05	--		9.6E-07	1E-02	1.0E-07	2E-03	5.5E-08		5.9E-09			9.7E-07	1E-02	1.0E-07	2E-03	5.6E-08		5.9E-09		
	Uranium	7440611	9.7	9.8	10.1	9.9	6.0E-04	--	(e)	7.7E-06	1E-02	8.3E-07	1E-03	4.4E-07		4.7E-08			7.6E-06	1E-02	8.1E-07	1E-03	4.3E-07		4.6E-08		
	Vanadium	7440622	8.7	16.2	16.7	13.9	7.0E-03	--		1.3E-05	2E-03	1.4E-06	2E-04	7.3E-07		7.8E-08			1.1E-05	2E-03	1.1E-06	2E-04	6.1E-07		6.5E-08		
	Zinc	7440666	21	33	47	34	3.0E-01	--		2.5E-05	8E-05	2.7E-06	9E-06	1.4E-06		1.5E-07			2.6E-05	9E-05	2.8E-06	9E-06	1.5E-06		1.6E-07		
									Total		**6E-02**		**7E-03**		**2E-07**		**2E-08**	**2E-07**		**6E-02**		**6E-03**		**1E-07**		**1E-08**	**1E-07**
										Total HQ or Risks > LOPC?:		**No**							**Total HQ or Risks > LOPC?:**		**No**					

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Short-term

Exposure Area: Spring Canyon Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	7.67E-07	8.22E-08
Cancer:	4.38E-08	4.70E-09

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	8,310	7,800	7,150	7,753	1.0E+00	--		6.4E-03	6E-03	6.8E-04	7E-04	3.6E-04		3.9E-05			6.0E-03	6E-03	6.4E-04	6E-04	3.4E-04		3.7E-05		
	Antimony	7440360	0.8	1.1	1.0	1.0	4.0E-04	--		6.1E-07	2E-03	6.5E-08	2E-04	3.5E-08		3.7E-09			8.4E-07	2E-03	9.0E-08	2E-04	4.8E-08		5.2E-09		
	Arsenic	7440382	10.3	7.5	8.5	8.8	2.4E-04	1.9E+00	(j)	7.9E-06	3E-02	8.5E-07	4E-03	4.5E-07	8E-07	4.8E-08	9E-08	9E-07	5.8E-06	2E-02	6.2E-07	3E-03	3.3E-07	6E-07	3.5E-08	7E-08	7E-07
	Barium	7440393	51	52	41	48	2.0E-01	--		3.9E-05	2E-04	4.2E-06	2E-05	2.2E-06		2.4E-07			4.0E-05	2E-04	4.2E-06	2E-05	2.3E-06		2.4E-07		
	Beryllium	7440417	0.64	0.60	0.53	0.59	2.0E-03	--		4.9E-07	2E-04	5.3E-08	3E-05	2.8E-08		3.0E-09			4.6E-07	2E-04	4.9E-08	2E-05	2.6E-08		2.8E-09		
	Cadmium	7440439	0.26	0.26	0.26	0.26	1.0E-03	--	(a)	2.0E-07	2E-04	2.1E-08	2E-05	1.1E-08		1.2E-09			2.0E-07	2E-04	2.1E-08	2E-05	1.1E-08		1.2E-09		
	Calcium	7440702	1,960	1,810	5,990	3,253	--	--		1.5E-03		1.6E-04		8.6E-05		9.2E-06			1.4E-03		1.5E-04		7.9E-05		8.5E-06		
	Chromium	7440473	9.6	9.7	9.0	9.4	1.5E+00	--	(b)	7.4E-06	5E-06	7.9E-07	5E-07	4.2E-07		4.5E-08			7.4E-06	5E-06	8.0E-07	5E-07	4.3E-07		4.6E-08		
	Cobalt	7440484	4.4	4.1	3.7	4.1	3.0E-04	--		3.4E-06	1E-02	3.6E-07	1E-03	1.9E-07		2.1E-08			3.1E-06	1E-02	3.4E-07	1E-03	1.8E-07		1.9E-08		
	Copper	7440508	7	6	7	6	4.0E-02	--		5.4E-06	1E-04	5.8E-07	1E-05	3.1E-07		3.3E-08			4.2E-06	1E-04	4.5E-07	1E-05	2.4E-07		2.6E-08		
	Iron	7439896	15,400	14,900	14,300	14,867	7.0E-01	--		1.2E-02	2E-02	1.3E-03	2E-03	6.8E-04		7.2E-05			1.1E-02	2E-02	1.2E-03	2E-03	6.5E-04		7.0E-05		
	Lead	7439921	7	7	6	7			(c)																		
	Magnesium	7439954	5,880	5,590	5,360	5,610	--	--		4.5E-03		4.8E-04		2.6E-04		2.8E-05			4.3E-03		4.6E-04		2.5E-04		2.6E-05		
	Manganese	7439965	227	208	226	220	4.7E-02	--	(d)	1.7E-04	4E-03	1.9E-05	4E-04	1.0E-05		1.1E-06			1.6E-04	3E-03	1.7E-05	4E-04	9.1E-06		9.8E-07		
	Mercury	7439976	0.055	0.055	0.050	0.053	3.0E-04	--	(i)	4.2E-08	1E-04	4.5E-09	2E-05	2.4E-09		2.6E-10			4.2E-08	1E-04	4.5E-09	2E-05	2.4E-09		2.6E-10		
	Nickel	7440020	8.2	7.5	7.5	7.7	2.0E-02	--		6.3E-06	3E-04	6.7E-07	3E-05	3.6E-07		3.9E-08			5.8E-06	3E-04	6.2E-07	3E-05	3.3E-07		3.5E-08		
	Potassium	7440097	1,610	1,470	1,230	1,437	--	--		1.2E-03		1.3E-04		7.1E-05		7.6E-06			1.1E-03		1.2E-04		6.4E-05		6.9E-06		
	Selenium	7782492	1.80	1.80	1.80	1.80	5.0E-03	--		1.4E-06	3E-04	1.5E-07	3E-05	7.9E-08		8.5E-09			1.4E-06	3E-04	1.5E-07	3E-05	7.9E-08		8.5E-09		
	Silver	7440224	0.50	0.50	0.50	0.50	5.0E-03	--		3.8E-07	8E-05	4.1E-08	8E-06	2.2E-08		2.3E-09			3.8E-07	8E-05	4.1E-08	8E-06	2.2E-08		2.3E-09		
	Sodium	7440235	66	54	74	64	--	--		5.0E-05		5.4E-06		2.9E-06		3.1E-07			4.1E-05		4.4E-06		2.4E-06		2.5E-07		
	Thallium	7440280	1.30	1.30	1.30	1.30	6.5E-05	--		1.0E-06	2E-02	1.1E-07	2E-03	5.7E-08		6.1E-09			1.0E-06	2E-02	1.1E-07	2E-03	5.7E-08		6.1E-09		
	Uranium	7440611	10.4	5.2	10.3	8.6	6.0E-04	--	(e)	8.0E-06	1E-02	8.5E-07	1E-03	4.6E-07		4.9E-08			4.0E-06	7E-03	4.3E-07	7E-04	2.3E-07		2.4E-08		
	Vanadium	7440622	14.8	14.0	13.9	14.2	7.0E-03	--		1.1E-05	2E-03	1.2E-06	2E-04	6.5E-07		7.0E-08			1.1E-05	2E-03	1.2E-06	2E-04	6.1E-07		6.6E-08		
	Zinc	7440666	48	55	40	47	3.0E-01	--		3.7E-05	1E-04	3.9E-06	1E-05	2.1E-06		2.3E-07			4.2E-05	1E-04	4.5E-06	1E-05	2.4E-06		2.6E-07		
									Total		**1E-01**		**1E-02**		**8E-07**		**9E-08**	**9E-07**									
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**No**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Short-term

Exposure Area: Spring Canyon Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	7.67E-07	8.22E-08
Cancer:	4.38E-08	4.70E-09

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	8,310	7,800	7,150	7,753	1.0E+00	--		5.5E-03	5E-03	5.9E-04	6E-04	3.1E-04		3.4E-05			5.9E-03	6E-03	6.4E-04	6E-04	3.4E-04		3.6E-05		
	Antimony	7440360	0.8	1.1	1.0	1.0	4.0E-04	--		7.7E-07	2E-03	8.2E-08	2E-04	4.4E-08		4.7E-09			7.4E-07	2E-03	7.9E-08	2E-04	4.2E-08		4.5E-09		
	Arsenic	7440382	10.3	7.5	8.5	8.8	2.4E-04	1.9E+00	(j)	6.5E-06	3E-02	7.0E-07	3E-03	3.7E-07	7E-07	4.0E-08	7E-08	8E-07	6.7E-06	3E-02	7.2E-07	3E-03	3.8E-07	7E-07	4.1E-08	8E-08	8E-07
	Barium	7440393	51	52	41	48	2.0E-01	--		3.2E-05	2E-04	3.4E-06	2E-05	1.8E-06		1.9E-07			3.7E-05	2E-04	3.9E-06	2E-05	2.1E-06		2.2E-07		
	Beryllium	7440417	0.64	0.60	0.53	0.59	2.0E-03	--		4.1E-07	2E-04	4.4E-08	2E-05	2.3E-08		2.5E-09			4.5E-07	2E-04	4.8E-08	2E-05	2.6E-08		2.8E-09		
	Cadmium	7440439	0.26	0.26	0.26	0.26	1.0E-03	--	(a)	2.0E-07	2E-04	2.1E-08	2E-05	1.1E-08		1.2E-09			2.0E-07	2E-04	2.1E-08	2E-05	1.1E-08		1.2E-09		
	Calcium	7440702	1,960	1,810	5,990	3,253	--	--		4.6E-03		4.9E-04		2.6E-04		2.8E-05			2.5E-03		2.7E-04		1.4E-04		1.5E-05		
	Chromium	7440473	9.6	9.7	9.0	9.4	1.5E+00	--	(b)	6.9E-06	5E-06	7.4E-07	5E-07	3.9E-07		4.2E-08			7.2E-06	5E-06	7.8E-07	5E-07	4.1E-07		4.4E-08		
	Cobalt	7440484	4.4	4.1	3.7	4.1	3.0E-04	--		2.8E-06	9E-03	3.0E-07	1E-03	1.6E-07		1.7E-08			3.1E-06	1E-02	3.3E-07	1E-03	1.8E-07		1.9E-08		
	Copper	7440508	7	6	7	6	4.0E-02	--		5.0E-06	1E-04	5.3E-07	1E-05	2.8E-07		3.1E-08			4.9E-06	1E-04	5.2E-07	1E-05	2.8E-07		3.0E-08		
	Iron	7439896	15,400	14,900	14,300	14,867	7.0E-01	--		1.1E-02	2E-02	1.2E-03	2E-03	6.3E-04		6.7E-05			1.1E-02	2E-02	1.2E-03	2E-03	6.5E-04		7.0E-05		
	Lead	7439921	7	7	6	7			(c)																		
	Magnesium	7439954	5,880	5,590	5,360	5,610	--	--		4.1E-03		4.4E-04		2.3E-04		2.5E-05			4.3E-03		4.6E-04		2.5E-04		2.6E-05		
	Manganese	7439965	227	208	226	220	4.7E-02	--	(d)	1.7E-04	4E-03	1.9E-05	4E-04	9.9E-06		1.1E-06			1.7E-04	4E-03	1.8E-05	4E-04	9.7E-06		1.0E-06		
	Mercury	7439976	0.055	0.055	0.050	0.053	3.0E-04	--	(i)	3.8E-08	1E-04	4.1E-09	1E-05	2.2E-09		2.3E-10			4.1E-08	1E-04	4.4E-09	1E-05	2.3E-09		2.5E-10		
	Nickel	7440020	8.2	7.5	7.5	7.7	2.0E-02	--		5.8E-06	3E-04	6.2E-07	3E-05	3.3E-07		3.5E-08			5.9E-06	3E-04	6.4E-07	3E-05	3.4E-07		3.6E-08		
	Potassium	7440097	1,610	1,470	1,230	1,437	--	--		9.4E-04		1.0E-04		5.4E-05		5.8E-06			1.1E-03		1.2E-04		6.3E-05		6.7E-06		
	Selenium	7782492	1.80	1.80	1.80	1.80	5.0E-03	--		1.4E-06	3E-04	1.5E-07	3E-05	7.9E-08		8.5E-09			1.4E-06	3E-04	1.5E-07	3E-05	7.9E-08		8.5E-09		
	Silver	7440224	0.50	0.50	0.50	0.50	5.0E-03	--		3.8E-07	8E-05	4.1E-08	8E-06	2.2E-08		2.3E-09			3.8E-07	8E-05	4.1E-08	8E-06	2.2E-08		2.3E-09		
	Sodium	7440235	66	54	74	64	--	--		5.6E-05		6.0E-06		3.2E-06		3.5E-07			4.9E-05		5.3E-06		2.8E-06		3.0E-07		
	Thallium	7440280	1.30	1.30	1.30	1.30	6.5E-05	--		1.0E-06	2E-02	1.1E-07	2E-03	5.7E-08		6.1E-09			1.0E-06	2E-02	1.1E-07	2E-03	5.7E-08		6.1E-09		
	Uranium	7440611	10.4	5.2	10.3	8.6	6.0E-04	--	(e)	7.9E-06	1E-02	8.5E-07	1E-03	4.5E-07		4.8E-08			6.6E-06	1E-02	7.1E-07	1E-03	3.8E-07		4.1E-08		
	Vanadium	7440622	14.8	14.0	13.9	14.2	7.0E-03	--		1.1E-05	2E-03	1.1E-06	2E-04	6.1E-07		6.5E-08			1.1E-05	2E-03	1.2E-06	2E-04	6.2E-07		6.7E-08		
	Zinc	7440666	48	55	40	47	3.0E-01	--		4.2E-05	1E-04	4.5E-06	1E-05	2.4E-06		2.6E-07			3.6E-05	1E-04	3.9E-06	1E-05	2.1E-06		2.2E-07		
								Total			**1E-01**		**1E-02**		**7E-07**		**7E-08**	**8E-07**		**1E-01**		**1E-02**		**7E-07**		**8E-08**	**8E-07**
										Total HQ or Risks > LOPC?:		**No**							**Total HQ or Risks > LOPC?:**		**No**						

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Year-Round

Exposure Area: AA Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	1.42E-05	1.53E-06
Cancer:	1.22E-06	5.23E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	10,200	12,200	9,080	10,493	1.0E+00	--		1.5E-01	1E-01	1.6E-02	2E-02	1.2E-02		5.3E-03			1.7E-01	2E-01	1.9E-02	2E-02	1.5E-02		6.4E-03		
	Antimony	7440360	1.1	1.5	1.2	1.3	4.0E-04	--		1.6E-05	4E-02	1.7E-06	4E-03	1.3E-06		5.8E-07			2.1E-05	5E-02	2.3E-06	6E-03	1.8E-06		7.9E-07		
	Arsenic	7440382	3.6	5.3	4.1	4.3	2.4E-04	1.9E+00	(j)	5.1E-05	2E-01	5.5E-06	2E-02	4.4E-06	8E-06	1.9E-06	4E-06	1E-05	7.6E-05	3E-01	8.1E-06	3E-02	6.5E-06	1E-05	2.8E-06	5E-06	2E-05
	Barium	7440393	78	117	78	91	2.0E-01	--		1.1E-03	6E-03	1.2E-04	6E-04	9.5E-05		4.1E-05			1.7E-03	8E-03	1.8E-04	9E-04	1.4E-04		6.1E-05		
	Beryllium	7440417	0.68	0.90	0.66	0.75	2.0E-03	--		9.7E-06	5E-03	1.0E-06	5E-04	8.3E-07		3.6E-07			1.3E-05	6E-03	1.4E-06	7E-04	1.1E-06		4.7E-07		
	Cadmium	7440439	1.00	0.74	0.17	0.64	1.0E-03	--	(a)	1.4E-05	1E-02	1.5E-06	2E-03	1.2E-06		5.2E-07			1.1E-05	1E-02	1.1E-06	1E-03	9.0E-07		3.9E-07		
	Calcium	7440702	2,520	4,120	2,990	3,210	--	--		3.6E-02		3.8E-03		3.1E-03		1.3E-03			5.9E-02		6.3E-03		5.0E-03		2.2E-03		
	Chromium	7440473	18.0	24.2	14.8	19.0	1.5E+00	--	(b)	2.6E-04	2E-04	2.7E-05	2E-05	2.2E-05		9.4E-06			3.4E-04	2E-04	3.7E-05	2E-05	3.0E-05		1.3E-05		
	Cobalt	7440484	6.9	10.4	6.4	7.9	3.0E-04	--		9.8E-05	3E-01	1.1E-05	4E-02	8.4E-06		3.6E-06			1.5E-04	5E-01	1.6E-05	5E-02	1.3E-05		5.4E-06		
	Copper	7440508	15	20	12	16	4.0E-02	--		2.1E-04	5E-03	2.2E-05	6E-04	1.8E-05		7.7E-06			2.8E-04	7E-03	3.1E-05	8E-04	2.4E-05		1.0E-05		
	Iron	7439896	16,000	21,100	14,800	17,300	7.0E-01	--		2.3E-01	3E-01	2.4E-02	3E-02	2.0E-02		8.4E-03			3.0E-01	4E-01	3.2E-02	5E-02	2.6E-02		1.1E-02		
	Lead	7439921	34	20	7	20			(c)																		
	Magnesium	7439954	3,700	4,970	3,550	4,073	--	--		5.3E-02		5.6E-03		4.5E-03		1.9E-03			7.1E-02		7.6E-03		6.1E-03		2.6E-03		
	Manganese	7439965	167	383	248	266	4.7E-02	--	(d)	2.4E-03	5E-02	2.5E-04	5E-03	2.0E-04		8.7E-05			5.5E-03	1E-01	5.8E-04	1E-02	4.7E-04		2.0E-04		
	Mercury	7439976	0.053	0.031	0.010	0.031	3.0E-04	--	(i)	7.6E-07	3E-03	8.1E-08	3E-04	6.5E-08		2.8E-08			4.4E-07	1E-03	4.7E-08	2E-04	3.8E-08		1.6E-08		
	Nickel	7440020	15.5	21.1	12.8	16.5	2.0E-02	--		2.2E-04	1E-02	2.4E-05	1E-03	1.9E-05		8.1E-06			3.0E-04	2E-02	3.2E-05	2E-03	2.6E-05		1.1E-05		
	Potassium	7440097	1,220	2,020	1,160	1,467	--	--		1.7E-02		1.9E-03		1.5E-03		6.4E-04			2.9E-02		3.1E-03		2.5E-03		1.1E-03		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.60	0.60	0.55	0.58	5.0E-03	--		8.5E-06	2E-03	9.2E-07	2E-04	7.3E-07		3.1E-07			8.5E-06	2E-03	9.2E-07	2E-04	7.3E-07		3.1E-07		
	Sodium	7440235	115	173	129	139	--	--		1.6E-03		1.8E-04		1.4E-04		6.0E-05			2.5E-03		2.6E-04		2.1E-04		9.1E-05		
	Thallium	7440280	1.50	1.55	1.45	1.50	6.5E-05	--		2.1E-05	3E-01	2.3E-06	4E-02	1.8E-06		7.9E-07			2.2E-05	3E-01	2.4E-06	4E-02	1.9E-06		8.1E-07		
	Uranium	7440611	12.0	12.3	11.4	11.9	6.0E-04	--	(e)	1.7E-04	3E-01	1.8E-05	3E-02	1.5E-05		6.3E-06			1.8E-04	3E-01	1.9E-05	3E-02	1.5E-05		6.4E-06		
	Vanadium	7440622	27.2	32.6	26.3	28.7	7.0E-03	--		3.9E-04	6E-02	4.2E-05	6E-03	3.3E-05		1.4E-05			4.6E-04	7E-02	5.0E-05	7E-03	4.0E-05		1.7E-05		
	Zinc	7440666	158	118	49	108	3.0E-01	--		2.3E-03	8E-03	2.4E-04	8E-04	1.9E-04		8.3E-05			1.7E-03	6E-03	1.8E-04	6E-04	1.4E-04		6.2E-05		
									Total		**2E+00**		**2E-01**		**8E-06**		**4E-06**	**1E-05**		**2E+00**		**3E-01**		**1E-05**		**5E-06**	**2E-05**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Year-Round

Exposure Area: AA Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	1.42E-05	1.53E-06
Cancer:	1.22E-06	5.23E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	10,200	12,200	9,080	10,493	1.0E+00	--		1.3E-01	1E-01	1.4E-02	1E-02	1.1E-02		4.8E-03			1.5E-01	1E-01	1.6E-02	2E-02	1.3E-02		5.5E-03		
	Antimony	7440360	1.1	1.5	1.2	1.3	4.0E-04	--		1.7E-05	4E-02	1.8E-06	5E-03	1.5E-06		6.3E-07			1.8E-05	5E-02	1.9E-06	5E-03	1.5E-06		6.6E-07		
	Arsenic	7440382	3.6	5.3	4.1	4.3	2.4E-04	1.9E+00	(j)	5.8E-05	2E-01	6.3E-06	3E-02	5.0E-06	9E-06	2.1E-06	4E-06	1E-05	6.2E-05	3E-01	6.6E-06	3E-02	5.3E-06	1E-05	2.3E-06	4E-06	1E-05
	Barium	7440393	78	117	78	91	2.0E-01	--		1.1E-03	6E-03	1.2E-04	6E-04	9.5E-05		4.1E-05			1.3E-03	6E-03	1.4E-04	7E-04	1.1E-04		4.8E-05		
	Beryllium	7440417	0.68	0.90	0.66	0.75	2.0E-03	--		9.4E-06	5E-03	1.0E-06	5E-04	8.1E-07		3.5E-07			1.1E-05	5E-03	1.1E-06	6E-04	9.1E-07		3.9E-07		
	Cadmium	7440439	1.00	0.74	0.17	0.64	1.0E-03	--	(a)	2.4E-06	2E-03	2.6E-07	3E-04	2.1E-07		8.9E-08			9.1E-06	9E-03	9.7E-07	1E-03	7.8E-07		3.3E-07		
	Calcium	7440702	2,520	4,120	2,990	3,210	--	--		4.3E-02		4.6E-03		3.7E-03		1.6E-03			4.6E-02		4.9E-03		3.9E-03		1.7E-03		
	Chromium	7440473	18.0	24.2	14.8	19.0	1.5E+00	--	(b)	2.1E-04	1E-04	2.3E-05	2E-05	1.8E-05		7.7E-06			2.7E-04	2E-04	2.9E-05	2E-05	2.3E-05		9.9E-06		
	Cobalt	7440484	6.9	10.4	6.4	7.9	3.0E-04	--		9.1E-05	3E-01	9.8E-06	3E-02	7.8E-06		3.3E-06			1.1E-04	4E-01	1.2E-05	4E-02	9.6E-06		4.1E-06		
	Copper	7440508	15	20	12	16	4.0E-02	--		1.7E-04	4E-03	1.8E-05	5E-04	1.5E-05		6.3E-06			2.2E-04	6E-03	2.4E-05	6E-04	1.9E-05		8.2E-06		
	Iron	7439896	16,000	21,100	14,800	17,300	7.0E-01	--		2.1E-01	3E-01	2.3E-02	3E-02	1.8E-02		7.7E-03			2.5E-01	4E-01	2.6E-02	4E-02	2.1E-02		9.1E-03		
	Lead	7439921	34	20	7	20			(c)																		
	Magnesium	7439954	3,700	4,970	3,550	4,073	--	--		5.1E-02		5.4E-03		4.3E-03		1.9E-03			5.8E-02		6.2E-03		5.0E-03		2.1E-03		
	Manganese	7439965	167	383	248	266	4.7E-02	--	(d)	3.5E-03	8E-02	3.8E-04	8E-03	3.0E-04		1.3E-04			3.8E-03	8E-02	4.1E-04	9E-03	3.2E-04		1.4E-04		
	Mercury	7439976	0.053	0.031	0.010	0.031	3.0E-04	--	(i)	1.4E-07	5E-04	1.5E-08	5E-05	1.2E-08		5.2E-09			4.5E-07	1E-03	4.8E-08	2E-04	3.8E-08		1.6E-08		
	Nickel	7440020	15.5	21.1	12.8	16.5	2.0E-02	--		1.8E-04	9E-03	2.0E-05	1E-03	1.6E-05		6.7E-06			2.3E-04	1E-02	2.5E-05	1E-03	2.0E-05		8.6E-06		
	Potassium	7440097	1,220	2,020	1,160	1,467	--	--		1.7E-02		1.8E-03		1.4E-03		6.1E-04			2.1E-02		2.2E-03		1.8E-03		7.7E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.60	0.60	0.55	0.58	5.0E-03	--		7.8E-06	2E-03	8.4E-07	2E-04	6.7E-07		2.9E-07			8.3E-06	2E-03	8.9E-07	2E-04	7.1E-07		3.1E-07		
	Sodium	7440235	115	173	129	139	--	--		1.8E-03		2.0E-04		1.6E-04		6.8E-05			2.0E-03		2.1E-04		1.7E-04		7.3E-05		
	Thallium	7440280	1.50	1.55	1.45	1.50	6.5E-05	--		2.1E-05	3E-01	2.2E-06	3E-02	1.8E-06		7.6E-07			2.1E-05	3E-01	2.3E-06	4E-02	1.8E-06		7.9E-07		
	Uranium	7440611	12.0	12.3	11.4	11.9	6.0E-04	--	(e)	1.6E-04	3E-01	1.7E-05	3E-02	1.4E-05		6.0E-06			1.7E-04	3E-01	1.8E-05	3E-02	1.5E-05		6.2E-06		
	Vanadium	7440622	27.2	32.6	26.3	28.7	7.0E-03	--		3.7E-04	5E-02	4.0E-05	6E-03	3.2E-05		1.4E-05			4.1E-04	6E-02	4.4E-05	6E-03	3.5E-05		1.5E-05		
	Zinc	7440666	158	118	49	108	3.0E-01	--		1.7E-03	6E-03	1.8E-04	6E-04	1.4E-04		6.2E-05			1.5E-03	5E-03	1.7E-04	6E-04	1.3E-04		5.7E-05		
								Total			**2E+00**		**2E-01**		**9E-06**		**4E-06**	**1E-05**		**2E+00**		**2E-01**		**1E-05**		**4E-06**	**1E-05**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Year-Round

Exposure Area: Black Sand Beach

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	1.42E-05	1.53E-06
Cancer:	1.22E-06	5.23E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	19,000	18,600	18,600	18,733	1.0E+00	--		2.7E-01	3E-01	2.9E-02	3E-02	2.3E-02		9.9E-03			2.6E-01	3E-01	2.8E-02	3E-02	2.3E-02		9.7E-03		
	Antimony	7440360	18.6	52.3	47.7	39.5	4.0E-04	--		2.6E-04	7E-01	2.8E-05	7E-02	2.3E-05		9.7E-06			7.5E-04	2E+00	8.0E-05	2E-01	6.4E-05		2.7E-05		
	Arsenic	7440382	16.1	25.2	27.3	22.9	2.4E-04	1.9E+00	(j)	2.3E-04	1E+00	2.5E-05	1E-01	2.0E-05	4E-05	8.4E-06	2E-05	5E-05	3.6E-04	1E+00	3.8E-05	2E-01	3.1E-05	6E-05	1.3E-05	2E-05	8E-05
	Barium	7440393	1,280	1,680	1,750	1,570	2.0E-01	--		1.8E-02	9E-02	2.0E-03	1E-02	1.6E-03		6.7E-04			2.4E-02	1E-01	2.6E-03	1E-02	2.1E-03		8.8E-04		
	Beryllium	7440417	1.20	1.30	1.30	1.27	2.0E-03	--		1.7E-05	9E-03	1.8E-06	9E-04	1.5E-06		6.3E-07			1.9E-05	9E-03	2.0E-06	1E-03	1.6E-06		6.8E-07		
	Cadmium	7440439	1.00	1.20	1.40	1.20	1.0E-03	--	(a)	1.4E-05	1E-02	1.5E-06	2E-03	1.2E-06		5.2E-07			1.7E-05	2E-02	1.8E-06	2E-03	1.5E-06		6.3E-07		
	Calcium	7440702	58,700	63,300	66,900	62,967	--	--		8.4E-01		9.0E-02		7.2E-02		3.1E-02			9.0E-01		9.7E-02		7.7E-02		3.3E-02		
	Chromium	7440473	101.0	123.0	128.0	117.3	1.5E+00	--	(b)	1.4E-03	1E-03	1.5E-04	1E-04	1.2E-04		5.3E-05			1.8E-03	1E-03	1.9E-04	1E-04	1.5E-04		6.4E-05		
	Cobalt	7440484	29.5	48.6	51.0	43.0	3.0E-04	--		4.2E-04	1E+00	4.5E-05	2E-01	3.6E-05		1.5E-05			6.9E-04	2E+00	7.4E-05	2E-01	5.9E-05		2.5E-05		
	Copper	7440508	1,620	2,240	2,350	2,070	4.0E-02	--		2.3E-02	6E-01	2.5E-03	6E-02	2.0E-03		8.5E-04			3.2E-02	8E-01	3.4E-03	9E-02	2.7E-03		1.2E-03		
	Iron	7439896	197,000	187,000	211,000	198,333	7.0E-01	--		2.8E+00	4E+00	3.0E-01	4E-01	2.4E-01		1.0E-01			2.7E+00	4E+00	2.9E-01	4E-01	2.3E-01		9.8E-02		
	Lead	7439921	276	231	266	258			(c)																		
	Magnesium	7439954	6,670	7,070	8,290	7,343	--	--		9.5E-02		1.0E-02		8.1E-03		3.5E-03			1.0E-01		1.1E-02		8.6E-03		3.7E-03		
	Manganese	7439965	3,080	3,680	3,680	3,480	4.7E-02	--	(d)	4.4E-02	9E-01	4.7E-03	1E-01	3.8E-03		1.6E-03			5.2E-02	1E+00	5.6E-03	1E-01	4.5E-03		1.9E-03		
	Mercury	7439976	0.028	0.030	0.650	0.236	3.0E-04	--	(i)	4.0E-07	1E-03	4.3E-08	1E-04	3.4E-08		1.5E-08			4.3E-07	1E-03	4.6E-08	2E-04	3.7E-08		1.6E-08		
	Nickel	7440020	9.3	12.1	12.4	11.3	2.0E-02	--		1.3E-04	7E-03	1.4E-05	7E-04	1.1E-05		4.9E-06			1.7E-04	9E-03	1.8E-05	9E-04	1.5E-05		6.3E-06		
	Potassium	7440097	3,500	3,610	3,750	3,620	--	--		5.0E-02		5.3E-03		4.3E-03		1.8E-03			5.1E-02		5.5E-03		4.4E-03		1.9E-03		
	Selenium	7782492	#N/A	#N/A	1.70	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.55	0.47	0.49	0.50	5.0E-03	--		7.8E-06	2E-03	8.4E-07	2E-04	6.7E-07		2.9E-07			6.6E-06	1E-03	7.1E-07	1E-04	5.7E-07		2.4E-07		
	Sodium	7440235	1,300	1,770	1,840	1,637	--	--		1.9E-02		2.0E-03		1.6E-03		6.8E-04			2.5E-02		2.7E-03		2.2E-03		9.3E-04		
	Thallium	7440280	1.35	1.15	1.20	1.23	6.5E-05	--		1.9E-05	3E-01	2.1E-06	3E-02	1.6E-06		7.1E-07			1.6E-05	3E-01	1.8E-06	3E-02	1.4E-06		6.0E-07		
	Uranium	7440611	64.8	84.3	81.6	76.9	6.0E-04	--	(e)	9.2E-04	2E+00	9.9E-05	2E-01	7.9E-05		3.4E-05			1.2E-03	2E+00	1.3E-04	2E-01	1.0E-04		4.4E-05		
	Vanadium	7440622	36.6	38.3	39.8	38.2	7.0E-03	--		5.2E-04	7E-02	5.6E-05	8E-03	4.5E-05		1.9E-05			5.5E-04	8E-02	5.8E-05	8E-03	4.7E-05		2.0E-05		
	Zinc	7440666	14,900	15,200	16,900	15,667	3.0E-01	--		2.1E-01	7E-01	2.3E-02	8E-02	1.8E-02		7.8E-03			2.2E-01	7E-01	2.3E-02	8E-02	1.9E-02		8.0E-03		
									Total		1E+01		1E+00		4E-05		2E-05	5E-05		1E+01		2E+00		6E-05		2E-05	8E-05
										Total HQ or Risks > LOPC?:				Yes					Total HQ or Risks > LOPC?:				Yes				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Year-Round

Exposure Area: Black Sand Beach

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	1.42E-05	1.53E-06
Cancer:	1.22E-06	5.23E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	19,000	18,600	18,600	18,733	1.0E+00	--		2.6E-01	3E-01	2.8E-02	3E-02	2.3E-02		9.7E-03			2.7E-01	3E-01	2.9E-02	3E-02	2.3E-02		9.8E-03		
	Antimony	7440360	18.6	52.3	47.7	39.5	4.0E-04	--		6.8E-04	2E+00	7.3E-05	2E-01	5.8E-05		2.5E-05			5.6E-04	1E+00	6.0E-05	2E-01	4.8E-05		2.1E-05		
	Arsenic	7440382	16.1	25.2	27.3	22.9	2.4E-04	1.9E+00	(j)	3.9E-04	2E+00	4.2E-05	2E-01	3.3E-05	6E-05	1.4E-05	3E-05	9E-05	3.3E-04	1E+00	3.5E-05	1E-01	2.8E-05	5E-05	1.2E-05	2E-05	7E-05
	Barium	7440393	1,280	1,680	1,750	1,570	2.0E-01	--		2.5E-02	1E-01	2.7E-03	1E-02	2.1E-03		9.2E-04			2.2E-02	1E-01	2.4E-03	1E-02	1.9E-03		8.2E-04		
	Beryllium	7440417	1.20	1.30	1.30	1.27	2.0E-03	--		1.9E-05	9E-03	2.0E-06	1E-03	1.6E-06		6.8E-07			1.8E-05	9E-03	1.9E-06	1E-03	1.5E-06		6.6E-07		
	Cadmium	7440439	1.00	1.20	1.40	1.20	1.0E-03	--	(a)	2.0E-05	2E-02	2.1E-06	2E-03	1.7E-06		7.3E-07			1.7E-05	2E-02	1.8E-06	2E-03	1.5E-06		6.3E-07		
	Calcium	7440702	58,700	63,300	66,900	62,967	--	--		9.5E-01		1.0E-01		8.2E-02		3.5E-02			9.0E-01		9.6E-02		7.7E-02		3.3E-02		
	Chromium	7440473	101.0	123.0	128.0	117.3	1.5E+00	--	(b)	1.8E-03	1E-03	2.0E-04	1E-04	1.6E-04		6.7E-05			1.7E-03	1E-03	1.8E-04	1E-04	1.4E-04		6.1E-05		
	Cobalt	7440484	29.5	48.6	51.0	43.0	3.0E-04	--		7.3E-04	2E+00	7.8E-05	3E-01	6.2E-05		2.7E-05			6.1E-04	2E+00	6.6E-05	2E-01	5.3E-05		2.3E-05		
	Copper	7440508	1,620	2,240	2,350	2,070	4.0E-02	--		3.3E-02	8E-01	3.6E-03	9E-02	2.9E-03		1.2E-03			2.9E-02	7E-01	3.2E-03	8E-02	2.5E-03		1.1E-03		
	Iron	7439896	197,000	187,000	211,000	198,333	7.0E-01	--		3.0E+00	4E+00	3.2E-01	5E-01	2.6E-01		1.1E-01			2.8E+00	4E+00	3.0E-01	4E-01	2.4E-01		1.0E-01		
	Lead	7439921	276	231	266	258			(c)																		
	Magnesium	7439954	6,670	7,070	8,290	7,343	--	--		1.2E-01		1.3E-02		1.0E-02		4.3E-03			1.0E-01		1.1E-02		9.0E-03		3.8E-03		
	Manganese	7439965	3,080	3,680	3,680	3,480	4.7E-02	--	(d)	5.2E-02	1E+00	5.6E-03	1E-01	4.5E-03		1.9E-03			5.0E-02	1E+00	5.3E-03	1E-01	4.2E-03		1.8E-03		
	Mercury	7439976	0.028	0.030	0.650	0.236	3.0E-04	--	(i)	9.3E-06	3E-02	9.9E-07	3E-03	7.9E-07		3.4E-07			3.4E-06	1E-02	3.6E-07	1E-03	2.9E-07		1.2E-07		
	Nickel	7440020	9.3	12.1	12.4	11.3	2.0E-02	--		1.8E-04	9E-03	1.9E-05	9E-04	1.5E-05		6.5E-06			1.6E-04	8E-03	1.7E-05	9E-04	1.4E-05		5.9E-06		
	Potassium	7440097	3,500	3,610	3,750	3,620	--	--		5.3E-02		5.7E-03		4.6E-03		2.0E-03			5.2E-02		5.5E-03		4.4E-03		1.9E-03		
	Selenium	7782492	#N/A	#N/A	1.70	#N/A	5.0E-03	--		2.4E-05	5E-03	2.6E-06	5E-04	2.1E-06		8.9E-07			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.55	0.47	0.49	0.50	5.0E-03	--		6.9E-06	1E-03	7.4E-07	1E-04	5.9E-07		2.5E-07			7.1E-06	1E-03	7.6E-07	2E-04	6.1E-07		2.6E-07		
	Sodium	7440235	1,300	1,770	1,840	1,637	--	--		2.6E-02		2.8E-03		2.2E-03		9.6E-04			2.3E-02		2.5E-03		2.0E-03		8.6E-04		
	Thallium	7440280	1.35	1.15	1.20	1.23	6.5E-05	--		1.7E-05	3E-01	1.8E-06	3E-02	1.5E-06		6.3E-07			1.8E-05	3E-01	1.9E-06	3E-02	1.5E-06		6.5E-07		
	Uranium	7440611	64.8	84.3	81.6	76.9	6.0E-04	--	(e)	1.2E-03	2E+00	1.2E-04	2E-01	1.0E-04		4.3E-05			1.1E-03	2E+00	1.2E-04	2E-01	9.4E-05		4.0E-05		
	Vanadium	7440622	36.6	38.3	39.8	38.2	7.0E-03	--		5.7E-04	8E-02	6.1E-05	9E-03	4.9E-05		2.1E-05			5.4E-04	8E-02	5.8E-05	8E-03	4.7E-05		2.0E-05		
	Zinc	7440666	14,900	15,200	16,900	15,667	3.0E-01	--		2.2E-01	7E-01	2.3E-02	8E-02	1.9E-02		8.0E-03			2.2E-01	7E-01	2.4E-02	8E-02	1.9E-02		8.2E-03		
								Total			**2E+01**		**2E+00**		**6E-05**		**3E-05**	**9E-05**					**1E+00**		**5E-05**		**2E-05**	**7E-05**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Year-Round

Exposure Area: Cloverleaf Branch

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	1.42E-05	1.53E-06
Cancer:	1.22E-06	5.23E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	12,300	7,520	7,780	9,200	1.0E+00	--		1.8E-01	2E-01	1.9E-02	2E-02	1.5E-02		6.4E-03			1.1E-01	1E-01	1.1E-02	1E-02	9.2E-03		3.9E-03		
	Antimony	7440360	1.6	1.1	1.0	1.2	4.0E-04	--		2.3E-05	6E-02	2.4E-06	6E-03	2.0E-06		8.4E-07			1.6E-05	4E-02	1.7E-06	4E-03	1.3E-06		5.8E-07		
	Arsenic	7440382	7.0	3.6	2.3	4.3	2.4E-04	1.9E+00	(j)	1.0E-04	4E-01	1.1E-05	4E-02	8.5E-06	2E-05	3.7E-06	7E-06	2E-05	5.1E-05	2E-01	5.5E-06	2E-02	4.4E-06	8E-06	1.9E-06	4E-06	1E-05
	Barium	7440393	152	80	66	99	2.0E-01	--		2.2E-03	1E-02	2.3E-04	1E-03	1.9E-04		8.0E-05			1.1E-03	6E-03	1.2E-04	6E-04	9.8E-05		4.2E-05		
	Beryllium	7440417	0.93	0.59	0.63	0.72	2.0E-03	--		1.3E-05	7E-03	1.4E-06	7E-04	1.1E-06		4.9E-07			8.4E-06	4E-03	9.0E-07	5E-04	7.2E-07		3.1E-07		
	Cadmium	7440439	2.40	0.63	3.10	2.04	1.0E-03	--	(a)	3.4E-05	3E-02	3.7E-06	4E-03	2.9E-06		1.3E-06			9.0E-06	9E-03	9.6E-07	1E-03	7.7E-07		3.3E-07		
	Calcium	7440702	5,200	6,050	3,100	4,783	--	--		7.4E-02		7.9E-03		6.3E-03		2.7E-03			8.6E-02		9.2E-03		7.4E-03		3.2E-03		
	Chromium	7440473	28.0	17.7	19.5	21.7	1.5E+00	--	(b)	4.0E-04	3E-04	4.3E-05	3E-05	3.4E-05		1.5E-05			2.5E-04	2E-04	2.7E-05	2E-05	2.2E-05		9.3E-06		
	Cobalt	7440484	10.0	6.7	5.6	7.4	3.0E-04	--		1.4E-04	5E-01	1.5E-05	5E-02	1.2E-05		5.2E-06			9.5E-05	3E-01	1.0E-05	3E-02	8.2E-06		3.5E-06		
	Copper	7440508	29	16	15	20	4.0E-02	--		4.1E-04	1E-02	4.4E-05	1E-03	3.5E-05		1.5E-05			2.3E-04	6E-03	2.5E-05	6E-04	2.0E-05		8.4E-06		
	Iron	7439896	22,600	15,200	13,300	17,033	7.0E-01	--		3.2E-01	5E-01	3.4E-02	5E-02	2.8E-02		1.2E-02			2.2E-01	3E-01	2.3E-02	3E-02	1.9E-02		8.0E-03		
	Lead	7439921	102	16	51	56			(c)																		
	Magnesium	7439954	6,530	4,520	4,040	5,030	--	--		9.3E-02		1.0E-02		8.0E-03		3.4E-03			6.4E-02		6.9E-03		5.5E-03		2.4E-03		
	Manganese	7439965	526	194	145	288	4.7E-02	--	(d)	7.5E-03	2E-01	8.0E-04	2E-02	6.4E-04		2.8E-04			2.8E-03	6E-02	3.0E-04	6E-03	2.4E-04		1.0E-04		
	Mercury	7439976	0.210	0.030	0.062	0.101	3.0E-04	--	(i)	3.0E-06	1E-02	3.2E-07	1E-03	2.6E-07		1.1E-07			4.3E-07	1E-03	4.6E-08	2E-04	3.7E-08		1.6E-08		
	Nickel	7440020	23.8	15.9	14.0	17.9	2.0E-02	--		3.4E-04	2E-02	3.6E-05	2E-03	2.9E-05		1.2E-05			2.3E-04	1E-02	2.4E-05	1E-03	1.9E-05		8.3E-06		
	Potassium	7440097	2,190	1,210	1,200	1,533	--	--		3.1E-02		3.3E-03		2.7E-03		1.1E-03			1.7E-02		1.8E-03		1.5E-03		6.3E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.60	0.55	0.60	0.58	5.0E-03	--		8.5E-06	2E-03	9.2E-07	2E-04	7.3E-07		3.1E-07			7.8E-06	2E-03	8.4E-07	2E-04	6.7E-07		2.9E-07		
	Sodium	7440235	245	147	94	162	--	--		3.5E-03		3.7E-04		3.0E-04		1.3E-04			2.1E-03		2.2E-04		1.8E-04		7.7E-05		
	Thallium	7440280	1.55	1.35	1.55	1.48	6.5E-05	--		2.2E-05	3E-01	2.4E-06	4E-02	1.9E-06		8.1E-07			1.9E-05	3E-01	2.1E-06	3E-02	1.6E-06		7.1E-07		
	Uranium	7440611	12.3	10.7	12.2	11.7	6.0E-04	--	(e)	1.8E-04	3E-01	1.9E-05	3E-02	1.5E-05		6.4E-06			1.5E-04	3E-01	1.6E-05	3E-02	1.3E-05		5.6E-06		
	Vanadium	7440622	35.6	26.6	21.9	28.0	7.0E-03	--		5.1E-04	7E-02	5.4E-05	8E-03	4.3E-05		1.9E-05			3.8E-04	5E-02	4.1E-05	6E-03	3.2E-05		1.4E-05		
	Zinc	7440666	295	90	220	202	3.0E-01	--		4.2E-03	1E-02	4.5E-04	2E-03	3.6E-04		1.5E-04			1.3E-03	4E-03	1.4E-04	5E-04	1.1E-04		4.7E-05		
									Total		**3E+00**		**3E-01**		**2E-05**		**7E-06**	**2E-05**		**2E+00**		**2E-01**		**8E-06**		**4E-06**	**1E-05**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Year-Round

Exposure Area: Cloverleaf Branch

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	1.42E-05	1.53E-06
Cancer:	1.22E-06	5.23E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	12,300	7,520	7,780	9,200	1.0E+00	--		1.1E-01	1E-01	1.2E-02	1E-02	9.5E-03		4.1E-03			1.3E-01	1E-01	1.4E-02	1E-02	1.1E-02		4.8E-03		
	Antimony	7440360	1.6	1.1	1.0	1.2	4.0E-04	--		1.4E-05	4E-02	1.5E-06	4E-03	1.2E-06		5.2E-07			1.8E-05	4E-02	1.9E-06	5E-03	1.5E-06		6.5E-07		
	Arsenic	7440382	7.0	3.6	2.3	4.3	2.4E-04	1.9E+00	(j)	3.3E-05	1E-01	3.5E-06	1E-02	2.8E-06	5E-06	1.2E-06	2E-06	8E-06	6.1E-05	3E-01	6.6E-06	3E-02	5.3E-06	1E-05	2.3E-06	4E-06	1E-05
	Barium	7440393	152	80	66	99	2.0E-01	--		9.3E-04	5E-03	1.0E-04	5E-04	8.0E-05		3.4E-05			1.4E-03	7E-03	1.5E-04	8E-04	1.2E-04		5.2E-05		
	Beryllium	7440417	0.93	0.59	0.63	0.72	2.0E-03	--		9.0E-06	4E-03	9.6E-07	5E-04	7.7E-07		3.3E-07			1.0E-05	5E-03	1.1E-06	5E-04	8.8E-07		3.8E-07		
	Cadmium	7440439	2.40	0.63	3.10	2.04	1.0E-03	--	(a)	4.4E-05	4E-02	4.7E-06	5E-03	3.8E-06		1.6E-06			2.9E-05	3E-02	3.1E-06	3E-03	2.5E-06		1.1E-06		
	Calcium	7440702	5,200	6,050	3,100	4,783	--	--		4.4E-02		4.7E-03		3.8E-03		1.6E-03			6.8E-02		7.3E-03		5.8E-03		2.5E-03		
	Chromium	7440473	28.0	17.7	19.5	21.7	1.5E+00	--	(b)	2.8E-04	2E-04	3.0E-05	2E-05	2.4E-05		1.0E-05			3.1E-04	2E-04	3.3E-05	2E-05	2.7E-05		1.1E-05		
	Cobalt	7440484	10.0	6.7	5.6	7.4	3.0E-04	--		8.0E-05	3E-01	8.5E-06	3E-02	6.8E-06		2.9E-06			1.1E-04	4E-01	1.1E-05	4E-02	9.1E-06		3.9E-06		
	Copper	7440508	29	16	15	20	4.0E-02	--		2.1E-04	5E-03	2.3E-05	6E-04	1.8E-05		7.7E-06			2.8E-04	7E-03	3.0E-05	8E-04	2.4E-05		1.0E-05		
	Iron	7439896	22,600	15,200	13,300	17,033	7.0E-01	--		1.9E-01	3E-01	2.0E-02	3E-02	1.6E-02		7.0E-03			2.4E-01	3E-01	2.6E-02	4E-02	2.1E-02		8.9E-03		
	Lead	7439921	102	16	51	56			(c)																		
	Magnesium	7439954	6,530	4,520	4,040	5,030	--	--		5.8E-02		6.2E-03		4.9E-03		2.1E-03			7.2E-02		7.7E-03		6.1E-03		2.6E-03		
	Manganese	7439965	526	194	145	288	4.7E-02	--	(d)	2.1E-03	4E-02	2.2E-04	5E-03	1.8E-04		7.6E-05			4.1E-03	9E-02	4.4E-04	9E-03	3.5E-04		1.5E-04		
	Mercury	7439976	0.210	0.030	0.062	0.101	3.0E-04	--	(i)	8.8E-07	3E-03	9.5E-08	3E-04	7.6E-08		3.2E-08			1.4E-06	5E-03	1.5E-07	5E-04	1.2E-07		5.3E-08		
	Nickel	7440020	23.8	15.9	14.0	17.9	2.0E-02	--		2.0E-04	1E-02	2.1E-05	1E-03	1.7E-05		7.3E-06			2.6E-04	1E-02	2.7E-05	1E-03	2.2E-05		9.4E-06		
	Potassium	7440097	2,190	1,210	1,200	1,533	--	--		1.7E-02		1.8E-03		1.5E-03		6.3E-04			2.2E-02		2.3E-03		1.9E-03		8.0E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.60	0.55	0.60	0.58	5.0E-03	--		8.5E-06	2E-03	9.2E-07	2E-04	7.3E-07		3.1E-07			8.3E-06	2E-03	8.9E-07	2E-04	7.1E-07		3.1E-07		
	Sodium	7440235	245	147	94	162	--	--		1.3E-03		1.4E-04		1.1E-04		4.9E-05			2.3E-03		2.5E-04		2.0E-04		8.5E-05		
	Thallium	7440280	1.55	1.35	1.55	1.48	6.5E-05	--		2.2E-05	3E-01	2.4E-06	4E-02	1.9E-06		8.1E-07			2.1E-05	3E-01	2.3E-06	3E-02	1.8E-06		7.8E-07		
	Uranium	7440611	12.3	10.7	12.2	11.7	6.0E-04	--	(e)	1.7E-04	3E-01	1.9E-05	3E-02	1.5E-05		6.4E-06			1.7E-04	3E-01	1.8E-05	3E-02	1.4E-05		6.1E-06		
	Vanadium	7440622	35.6	26.6	21.9	28.0	7.0E-03	--		3.1E-04	4E-02	3.3E-05	5E-03	2.7E-05		1.1E-05			4.0E-04	6E-02	4.3E-05	6E-03	3.4E-05		1.5E-05		
	Zinc	7440666	295	90	220	202	3.0E-01	--		1.3E-03	4E-03	1.4E-04	5E-04	1.1E-04		4.7E-05			2.9E-03	1E-02	3.1E-04	1E-03	2.5E-04		1.1E-04		
									Total		**2E+00**		**2E-01**		**5E-06**		**2E-06**	**8E-06**		**2E+00**		**2E-01**		**1E-05**		**4E-06**	**1E-05**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Year-Round

Exposure Area: Columbia Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	1.42E-05	1.53E-06
Cancer:	1.22E-06	5.23E-07

										LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
			Sediment Conc. (mg/kg)**				Toxicity Values			Child		Adult		Child		Adult			Child		Adult		Child		Adult		
Analyte Group	Analyte Name	CASRN	Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$	Notes	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	11,617	10,660	8,947	10,408	1.0E+00	--		1.7E-01	2E-01	1.8E-02	2E-02	1.4E-02		6.1E-03			1.5E-01	2E-01	1.6E-02	2E-02	1.3E-02		5.6E-03		
	Antimony	7440360	1.1	1.0	1.0	1.0	4.0E-04	--		1.6E-05	4E-02	1.7E-06	4E-03	1.4E-06		5.9E-07			1.4E-05	3E-02	1.5E-06	4E-03	1.2E-06		5.0E-07		
	Arsenic	7440382	4.7	5.4	3.8	4.6	2.4E-04	1.9E+00	(j)	6.7E-05	3E-01	7.2E-06	3E-02	5.7E-06	1E-05	2.5E-06	5E-06	2E-05	7.7E-05	3E-01	8.2E-06	3E-02	6.6E-06	1E-05	2.8E-06	5E-06	2E-05
	Barium	7440393	116	100	81	99	2.0E-01	--		1.7E-03	8E-03	1.8E-04	9E-04	1.4E-04		6.1E-05			1.4E-03	7E-03	1.5E-04	8E-04	1.2E-04		5.2E-05		
	Beryllium	7440417	0.86	0.71	0.57	0.71	2.0E-03	--		1.2E-05	6E-03	1.3E-06	7E-04	1.0E-06		4.5E-07			1.0E-05	5E-03	1.1E-06	5E-04	8.6E-07		3.7E-07		
	Cadmium	7440439	1.63	0.45	0.33	0.80	1.0E-03	--	(a)	2.3E-05	2E-02	2.5E-06	2E-03	2.0E-06		8.5E-07			6.4E-06	6E-03	6.8E-07	7E-04	5.5E-07		2.3E-07		
	Calcium	7440702	2,980	2,333	2,017	2,443	--	--		4.2E-02		4.5E-03		3.6E-03		1.6E-03			3.3E-02		3.6E-03		2.8E-03		1.2E-03		
	Chromium	7440473	16.9	14.3	12.1	14.4	1.5E+00	--	(b)	2.4E-04	2E-04	2.6E-05	2E-05	2.1E-05		8.9E-06			2.0E-04	1E-04	2.2E-05	1E-05	1.7E-05		7.5E-06		
	Cobalt	7440484	7.7	6.3	5.4	6.5	3.0E-04	--		1.1E-04	4E-01	1.2E-05	4E-02	9.4E-06		4.0E-06			9.0E-05	3E-01	9.7E-06	3E-02	7.7E-06		3.3E-06		
	Copper	7440508	19	11	9	13	4.0E-02	--		2.7E-04	7E-03	2.9E-05	7E-04	2.3E-05		1.0E-05			1.6E-04	4E-03	1.7E-05	4E-04	1.4E-05		6.0E-06		
	Iron	7439896	16,700	15,933	14,400	15,678	7.0E-01	--		2.4E-01	3E-01	2.5E-02	4E-02	2.0E-02		8.7E-03			2.3E-01	3E-01	2.4E-02	3E-02	1.9E-02		8.3E-03		
	Lead	7439921	58	18	11	29			(c)																		
	Magnesium	7439954	4,107	3,890	3,487	3,828	--	--		5.9E-02		6.3E-03		5.0E-03		2.1E-03			5.5E-02		5.9E-03		4.8E-03		2.0E-03		
	Manganese	7439965	283	190	167	214	4.7E-02	--	(d)	4.0E-03	9E-02	4.3E-04	9E-03	3.5E-04		1.5E-04			2.7E-03	6E-02	2.9E-04	6E-03	2.3E-04		1.0E-04		
	Mercury	7439976	0.136	0.029	0.017	0.061	3.0E-04	--	(i)	1.9E-06	6E-03	2.1E-07	7E-04	1.7E-07		7.1E-08			4.1E-07	1E-03	4.4E-08	1E-04	3.5E-08		1.5E-08		
	Nickel	7440020	14.6	11.8	10.2	12.2	2.0E-02	--		2.1E-04	1E-02	2.2E-05	1E-03	1.8E-05		7.6E-06			1.7E-04	8E-03	1.8E-05	9E-04	1.4E-05		6.2E-06		
	Potassium	7440097	2,210	1,840	1,413	1,821	--	--		3.1E-02		3.4E-03		2.7E-03		1.2E-03			2.6E-02		2.8E-03		2.2E-03		9.6E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.55	0.52	0.53	0.54	5.0E-03	--		7.8E-06	2E-03	8.4E-07	2E-04	6.7E-07		2.9E-07			7.4E-06	1E-03	8.0E-07	2E-04	6.4E-07		2.7E-07		
	Sodium	7440235	144	103	93	113	--	--		2.0E-03		2.2E-04		1.8E-04		7.5E-05			1.5E-03		1.6E-04		1.3E-04		5.4E-05		
	Thallium	7440280	1.37	1.32	1.33	1.34	6.5E-05	--		1.9E-05	3E-01	2.1E-06	3E-02	1.7E-06		7.2E-07			1.9E-05	3E-01	2.0E-06	3E-02	1.6E-06		6.9E-07		
	Uranium	7440611	10.2	10.5	10.6	10.4	6.0E-04	--	(e)	1.5E-04	2E-01	1.6E-05	3E-02	1.2E-05		5.3E-06			1.5E-04	2E-01	1.6E-05	3E-02	1.3E-05		5.5E-06		
	Vanadium	7440622	23.0	21.0	18.0	20.7	7.0E-03	--		3.3E-04	5E-02	3.5E-05	5E-03	2.8E-05		1.2E-05			3.0E-04	4E-02	3.2E-05	5E-03	2.6E-05		1.1E-05		
	Zinc	7440666	233	143	120	165	3.0E-01	--		3.3E-03	1E-02	3.6E-04	1E-03	2.8E-04		1.2E-04			2.0E-03	7E-03	2.2E-04	7E-04	1.7E-04		7.5E-05		
									Total		**2E+00**		**2E-01**		**1E-05**		**5E-06**	**2E-05**		**2E+00**		**2E-01**		**1E-05**		**5E-06**	**2E-05**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Year-Round

Exposure Area: Columbia Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	1.42E-05	1.53E-06
Cancer:	1.22E-06	5.23E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	11,617	10,660	8,947	10,408	1.0E+00	--		1.3E-01	1E-01	1.4E-02	1E-02	1.1E-02		4.7E-03			1.5E-01	1E-01	1.6E-02	2E-02	1.3E-02		5.4E-03		
	Antimony	7440360	1.1	1.0	1.0	1.0	4.0E-04	--		1.5E-05	4E-02	1.6E-06	4E-03	1.3E-06		5.5E-07			1.5E-05	4E-02	1.6E-06	4E-03	1.3E-06		5.5E-07		
	Arsenic	7440382	4.7	5.4	3.8	4.6	2.4E-04	1.9E+00	(j)	5.5E-05	2E-01	5.9E-06	2E-02	4.7E-06	9E-06	2.0E-06	4E-06	1E-05	6.6E-05	3E-01	7.1E-06	3E-02	5.7E-06	1E-05	2.4E-06	5E-06	2E-05
	Barium	7440393	116	100	81	99	2.0E-01	--		1.2E-03	6E-03	1.2E-04	6E-04	9.9E-05		4.3E-05			1.4E-03	7E-03	1.5E-04	8E-04	1.2E-04		5.2E-05		
	Beryllium	7440417	0.86	0.71	0.57	0.71	2.0E-03	--		8.1E-06	4E-03	8.6E-07	4E-04	6.9E-07		3.0E-07			1.0E-05	5E-03	1.1E-06	5E-04	8.7E-07		3.7E-07		
	Cadmium	7440439	1.63	0.45	0.33	0.80	1.0E-03	--	(a)	4.7E-06	5E-03	5.1E-07	5E-04	4.1E-07		1.7E-07			1.1E-05	1E-02	1.2E-06	1E-03	9.8E-07		4.2E-07		
	Calcium	7440702	2,980	2,333	2,017	2,443	--	--		2.9E-02		3.1E-03		2.5E-03		1.1E-03			3.5E-02		3.7E-03		3.0E-03		1.3E-03		
	Chromium	7440473	16.9	14.3	12.1	14.4	1.5E+00	--	(b)	1.7E-04	1E-04	1.9E-05	1E-05	1.5E-05		6.3E-06			2.1E-04	1E-04	2.2E-05	1E-05	1.8E-05		7.6E-06		
	Cobalt	7440484	7.7	6.3	5.4	6.5	3.0E-04	--		7.7E-05	3E-01	8.3E-06	3E-02	6.6E-06		2.8E-06			9.2E-05	3E-01	9.9E-06	3E-02	7.9E-06		3.4E-06		
	Copper	7440508	19	11	9	13	4.0E-02	--		1.2E-04	3E-03	1.3E-05	3E-04	1.1E-05		4.6E-06			1.9E-04	5E-03	2.0E-05	5E-04	1.6E-05		6.8E-06		
	Iron	7439896	16,700	15,933	14,400	15,678	7.0E-01	--		2.1E-01	3E-01	2.2E-02	3E-02	1.8E-02		7.5E-03			2.2E-01	3E-01	2.4E-02	3E-02	1.9E-02		8.2E-03		
	Lead	7439921	58	18	11	29			(c)																		
	Magnesium	7439954	4,107	3,890	3,487	3,828	--	--		5.0E-02		5.3E-03		4.3E-03		1.8E-03			5.5E-02		5.8E-03		4.7E-03		2.0E-03		
	Manganese	7439965	283	190	167	214	4.7E-02	--	(d)	2.4E-03	5E-02	2.5E-04	5E-03	2.0E-04		8.7E-05			3.0E-03	7E-02	3.3E-04	7E-03	2.6E-04		1.1E-04		
	Mercury	7439976	0.136	0.029	0.017	0.061	3.0E-04	--	(i)	2.4E-07	8E-04	2.6E-08	9E-05	2.1E-08		8.9E-09			8.6E-07	3E-03	9.2E-08	3E-04	7.4E-08		3.2E-08		
	Nickel	7440020	14.6	11.8	10.2	12.2	2.0E-02	--		1.5E-04	7E-03	1.6E-05	8E-04	1.2E-05		5.4E-06			1.7E-04	9E-03	1.9E-05	9E-04	1.5E-05		6.4E-06		
	Potassium	7440097	2,210	1,840	1,413	1,821	--	--		2.0E-02		2.2E-03		1.7E-03		7.4E-04			2.6E-02		2.8E-03		2.2E-03		9.5E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.55	0.52	0.53	0.54	5.0E-03	--		7.6E-06	2E-03	8.1E-07	2E-04	6.5E-07		2.8E-07			7.6E-06	2E-03	8.2E-07	2E-04	6.5E-07		2.8E-07		
	Sodium	7440235	144	103	93	113	--	--		1.3E-03		1.4E-04		1.1E-04		4.9E-05			1.6E-03		1.7E-04		1.4E-04		5.9E-05		
	Thallium	7440280	1.37	1.32	1.33	1.34	6.5E-05	--		1.9E-05	3E-01	2.0E-06	3E-02	1.6E-06		7.0E-07			1.9E-05	3E-01	2.0E-06	3E-02	1.6E-06		7.0E-07		
	Uranium	7440611	10.2	10.5	10.6	10.4	6.0E-04	--	(e)	1.5E-04	3E-01	1.6E-05	3E-02	1.3E-05		5.5E-06			1.5E-04	2E-01	1.6E-05	3E-02	1.3E-05		5.5E-06		
	Vanadium	7440622	23.0	21.0	18.0	20.7	7.0E-03	--		2.6E-04	4E-02	2.7E-05	4E-03	2.2E-05		9.4E-06			2.9E-04	4E-02	3.2E-05	5E-03	2.5E-05		1.1E-05		
	Zinc	7440666	233	143	120	165	3.0E-01	--		2.0E-03	7E-03	2.2E-04	7E-04	1.7E-04		7.5E-05			2.4E-03	8E-03	2.5E-04	8E-04	2.0E-04		8.7E-05		
									Total		**2E+00**		**2E-01**		**9E-06**		**4E-06**	**1E-05**		**2E+00**		**2E-01**		**1E-05**		**5E-06**	**2E-05**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**			

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Year-Round

Exposure Area: Dalles Orchard

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	1.42E-05	1.53E-06
Cancer:	1.22E-06	5.23E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	11,300	11,900	10,700	11,300	1.0E+00	--		1.6E-01	2E-01	1.7E-02	2E-02	1.4E-02		5.9E-03			1.7E-01	2E-01	1.8E-02	2E-02	1.5E-02		6.2E-03		
	Antimony	7440360	24.8	32.4	11.2	22.8	4.0E-04	--		3.5E-04	9E-01	3.8E-05	9E-02	3.0E-05		1.3E-05			4.6E-04	1E+00	4.9E-05	1E-01	4.0E-05		1.7E-05		
	Arsenic	7440382	18.1	22.5	13.7	18.1	2.4E-04	1.9E+00	(j)	2.6E-04	1E+00	2.8E-05	1E-01	2.2E-05	4E-05	9.5E-06	2E-05	6E-05	3.2E-04	1E+00	3.4E-05	1E-01	2.7E-05	5E-05	1.2E-05	2E-05	7E-05
	Barium	7440393	1,020	1,070	686	925	2.0E-01	--		1.5E-02	7E-02	1.6E-03	8E-03	1.2E-03		5.3E-04			1.5E-02	8E-02	1.6E-03	8E-03	1.3E-03		5.6E-04		
	Beryllium	7440417	0.84	0.88	0.77	0.83	2.0E-03	--		1.2E-05	6E-03	1.3E-06	6E-04	1.0E-06		4.4E-07			1.3E-05	6E-03	1.3E-06	7E-04	1.1E-06		4.6E-07		
	Cadmium	7440439	2.10	1.90	2.50	2.17	1.0E-03	--	(a)	3.0E-05	3E-02	3.2E-06	3E-03	2.6E-06		1.1E-06			2.7E-05	3E-02	2.9E-06	3E-03	2.3E-06		9.9E-07		
	Calcium	7440702	37,700	39,900	35,100	37,567	--	--		5.4E-01		5.8E-02		4.6E-02		2.0E-02			5.7E-01		6.1E-02		4.9E-02		2.1E-02		
	Chromium	7440473	71.9	77.6	51.3	66.9	1.5E+00	--	(b)	1.0E-03	7E-04	1.1E-04	7E-05	8.8E-05		3.8E-05			1.1E-03	7E-04	1.2E-04	8E-05	9.5E-05		4.1E-05		
	Cobalt	7440484	35.1	36.8	22.4	31.4	3.0E-04	--		5.0E-04	2E+00	5.4E-05	2E-01	4.3E-05		1.8E-05			5.2E-04	2E+00	5.6E-05	2E-01	4.5E-05		1.9E-05		
	Copper	7440508	1,300	1,380	802	1,161	4.0E-02	--		1.9E-02	5E-01	2.0E-03	5E-02	1.6E-03		6.8E-04			2.0E-02	5E-01	2.1E-03	5E-02	1.7E-03		7.2E-04		
	Iron	7439896	108,000	110,000	82,100	100,033	7.0E-01	--		1.5E+00	2E+00	1.6E-01	2E-01	1.3E-01		5.7E-02			1.6E+00	2E+00	1.7E-01	2E-01	1.3E-01		5.8E-02		
	Lead	7439921	205	190	214	203			(c)																		
	Magnesium	7439954	5,640	6,450	9,090	7,060	--	--		8.0E-02		8.6E-03		6.9E-03		3.0E-03			9.2E-02		9.8E-03		7.9E-03		3.4E-03		
	Manganese	7439965	2,110	2,200	1,660	1,990	4.7E-02	--	(d)	3.0E-02	6E-01	3.2E-03	7E-02	2.6E-03		1.1E-03			3.1E-02	7E-01	3.4E-03	7E-02	2.7E-03		1.2E-03		
	Mercury	7439976	0.034	0.044	0.073	0.050	3.0E-04	--	(i)	4.8E-07	2E-03	5.2E-08	2E-04	4.2E-08		1.8E-08			6.3E-07	2E-03	6.7E-08	2E-04	5.4E-08		2.3E-08		
	Nickel	7440020	10.4	12.1	10.4	11.0	2.0E-02	--		1.5E-04	7E-03	1.6E-05	8E-04	1.3E-05		5.4E-06			1.7E-04	9E-03	1.8E-05	9E-04	1.5E-05		6.3E-06		
	Potassium	7440097	2,270	2,300	2,030	2,200	--	--		3.2E-02		3.5E-03		2.8E-03		1.2E-03			3.3E-02		3.5E-03		2.8E-03		1.2E-03		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.50	0.49	0.50	0.50	5.0E-03	--		7.1E-06	1E-03	7.6E-07	2E-04	6.1E-07		2.6E-07			6.9E-06	1E-03	7.4E-07	1E-04	5.9E-07		2.5E-07		
	Sodium	7440235	1,200	1,300	811	1,104	--	--		1.7E-02		1.8E-03		1.5E-03		6.3E-04			1.9E-02		2.0E-03		1.6E-03		6.8E-04		
	Thallium	7440280	0.83	1.10	1.30	1.08	6.5E-05	--		1.2E-05	2E-01	1.3E-06	2E-02	1.0E-06		4.3E-07			1.6E-05	2E-01	1.7E-06	3E-02	1.3E-06		5.8E-07		
	Uranium	7440611	10.2	9.7	10.5	10.1	6.0E-04	--	(e)	1.5E-04	2E-01	1.6E-05	3E-02	1.2E-05		5.3E-06			1.4E-04	2E-01	1.5E-05	2E-02	1.2E-05		5.1E-06		
	Vanadium	7440622	28.2	29.2	27.2	28.2	7.0E-03	--		4.0E-04	6E-02	4.3E-05	6E-03	3.4E-05		1.5E-05			4.2E-04	6E-02	4.5E-05	6E-03	3.6E-05		1.5E-05		
	Zinc	7440666	8,700	8,410	6,560	7,890	3.0E-01	--		1.2E-01	4E-01	1.3E-02	4E-02	1.1E-02		4.6E-03			1.2E-01	4E-01	1.3E-02	4E-02	1.0E-02		4.4E-03		
								Total			**8E+00**		**9E-01**		**4E-05**		**2E-05**	**6E-05**		**9E+00**		**9E-01**		**5E-05**		**2E-05**	**7E-05**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Year-Round

Exposure Area: Dalles Orchard

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	1.42E-05	1.53E-06
Cancer:	1.22E-06	5.23E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	11,300	11,900	10,700	11,300	1.0E+00	--		1.5E-01	2E-01	1.6E-02	2E-02	1.3E-02		5.6E-03			1.6E-01	2E-01	1.7E-02	2E-02	1.4E-02		5.9E-03		
	Antimony	7440360	24.8	32.4	11.2	22.8	4.0E-04	--		1.6E-04	4E-01	1.7E-05	4E-02	1.4E-05		5.9E-06			3.2E-04	8E-01	3.5E-05	9E-02	2.8E-05		1.2E-05		
	Arsenic	7440382	18.1	22.5	13.7	18.1	2.4E-04	1.9E+00	(j)	2.0E-04	8E-01	2.1E-05	9E-02	1.7E-05	3E-05	7.2E-06	1E-05	4E-05	2.6E-04	1E+00	2.8E-05	1E-01	2.2E-05	4E-05	9.5E-06	2E-05	6E-05
	Barium	7440393	1,020	1,070	686	925	2.0E-01	--		9.8E-03	5E-02	1.0E-03	5E-03	8.4E-04		3.6E-04			1.3E-02	7E-02	1.4E-03	7E-03	1.1E-03		4.8E-04		
	Beryllium	7440417	0.84	0.88	0.77	0.83	2.0E-03	--		1.1E-05	5E-03	1.2E-06	6E-04	9.4E-07		4.0E-07			1.2E-05	6E-03	1.3E-06	6E-04	1.0E-06		4.3E-07		
	Cadmium	7440439	2.10	1.90	2.50	2.17	1.0E-03	--	(a)	3.6E-05	4E-02	3.8E-06	4E-03	3.1E-06		1.3E-06			3.1E-05	3E-02	3.3E-06	3E-03	2.6E-06		1.1E-06		
	Calcium	7440702	37,700	39,900	35,100	37,567	--	--		5.0E-01		5.4E-02		4.3E-02		1.8E-02			5.4E-01		5.7E-02		4.6E-02		2.0E-02		
	Chromium	7440473	71.9	77.6	51.3	66.9	1.5E+00	--	(b)	7.3E-04	5E-04	7.8E-05	5E-05	6.3E-05		2.7E-05			9.5E-04	6E-04	1.0E-04	7E-05	8.2E-05		3.5E-05		
	Cobalt	7440484	35.1	36.8	22.4	31.4	3.0E-04	--		3.2E-04	1E+00	3.4E-05	1E-01	2.7E-05		1.2E-05			4.5E-04	1E+00	4.8E-05	2E-01	3.8E-05		1.6E-05		
	Copper	7440508	1,300	1,380	802	1,161	4.0E-02	--		1.1E-02	3E-01	1.2E-03	3E-02	9.8E-04		4.2E-04			1.7E-02	4E-01	1.8E-03	4E-02	1.4E-03		6.1E-04		
	Iron	7439896	108,000	110,000	82,100	100,033	7.0E-01	--		1.2E+00	2E+00	1.3E-01	2E-01	1.0E-01		4.3E-02			1.4E+00	2E+00	1.5E-01	2E-01	1.2E-01		5.2E-02		
	Lead	7439921	205	190	214	203			(c)																		
	Magnesium	7439954	5,640	6,450	9,090	7,060	--	--		1.3E-01		1.4E-02		1.1E-02		4.8E-03			1.0E-01		1.1E-02		8.6E-03		3.7E-03		
	Manganese	7439965	2,110	2,200	1,660	1,990	4.7E-02	--	(d)	2.4E-02	5E-01	2.5E-03	5E-02	2.0E-03		8.7E-04			2.8E-02	6E-01	3.0E-03	7E-02	2.4E-03		1.0E-03		
	Mercury	7439976	0.034	0.044	0.073	0.050	3.0E-04	--	(i)	1.0E-06	3E-03	1.1E-07	4E-04	8.9E-08		3.8E-08			7.2E-07	2E-03	7.7E-08	3E-04	6.1E-08		2.6E-08		
	Nickel	7440020	10.4	12.1	10.4	11.0	2.0E-02	--		1.5E-04	7E-03	1.6E-05	8E-04	1.3E-05		5.4E-06			1.6E-04	8E-03	1.7E-05	8E-04	1.3E-05		5.7E-06		
	Potassium	7440097	2,270	2,300	2,030	2,200	--	--		2.9E-02		3.1E-03		2.5E-03		1.1E-03			3.1E-02		3.4E-03		2.7E-03		1.2E-03		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.50	0.49	0.50	0.50	5.0E-03	--		7.1E-06	1E-03	7.6E-07	2E-04	6.1E-07		2.6E-07			7.1E-06	1E-03	7.6E-07	2E-04	6.0E-07		2.6E-07		
	Sodium	7440235	1,200	1,300	811	1,104	--	--		1.2E-02		1.2E-03		9.9E-04		4.2E-04			1.6E-02		1.7E-03		1.3E-03		5.8E-04		
	Thallium	7440280	0.83	1.10	1.30	1.08	6.5E-05	--		1.9E-05	3E-01	2.0E-06	3E-02	1.6E-06		6.8E-07			1.5E-05	2E-01	1.6E-06	3E-02	1.3E-06		5.6E-07		
	Uranium	7440611	10.2	9.7	10.5	10.1	6.0E-04	--	(e)	1.5E-04	2E-01	1.6E-05	3E-02	1.3E-05		5.5E-06			1.4E-04	2E-01	1.5E-05	3E-02	1.2E-05		5.3E-06		
	Vanadium	7440622	28.2	29.2	27.2	28.2	7.0E-03	--		3.9E-04	6E-02	4.2E-05	6E-03	3.3E-05		1.4E-05			4.0E-04	6E-02	4.3E-05	6E-03	3.4E-05		1.5E-05		
	Zinc	7440666	8,700	8,410	6,560	7,890	3.0E-01	--		1.2E-01	4E-01	1.3E-02	4E-02	1.0E-02		4.4E-03			1.1E-01	4E-01	1.2E-02	4E-02	9.6E-03		4.1E-03		
									Total		**6E+00**		**6E-01**		**3E-05**		**1E-05**	**4E-05**		**8E+00**		**8E-01**		**4E-05**		**2E-05**	**6E-05**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**			

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Year-Round

Exposure Area: French Rocks Boat Launch

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	1.42E-05	1.53E-06
Cancer:	1.22E-06	5.23E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	6,370	6,050	6,550	6,323	1.0E+00	--		9.1E-02	9E-02	9.7E-03	1E-02	7.8E-03		3.3E-03			8.6E-02	9E-02	9.2E-03	9E-03	7.4E-03		3.2E-03		
	Antimony	7440360	1.0	1.0	0.4	0.8	4.0E-04	--		1.4E-05	3E-02	1.5E-06	4E-03	1.2E-06		5.0E-07			1.4E-05	4E-02	1.5E-06	4E-03	1.2E-06		5.2E-07		
	Arsenic	7440382	2.6	2.4	2.4	2.5	2.4E-04	1.9E+00	(j)	3.7E-05	2E-01	4.0E-06	2E-02	3.2E-06	6E-06	1.4E-06	3E-06	9E-06	3.4E-05	1E-01	3.7E-06	2E-02	2.9E-06	5E-06	1.3E-06	2E-06	8E-06
	Barium	7440393	56	58	62	59	2.0E-01	--		8.0E-04	4E-03	8.6E-05	4E-04	6.9E-05		3.0E-05			8.2E-04	4E-03	8.8E-05	4E-04	7.0E-05		3.0E-05		
	Beryllium	7440417	0.52	0.51	0.46	0.50	2.0E-03	--		7.4E-06	4E-03	7.9E-07	4E-04	6.3E-07		2.7E-07			7.3E-06	4E-03	7.8E-07	4E-04	6.2E-07		2.7E-07		
	Cadmium	7440439	0.45	0.33	0.51	0.43	1.0E-03	--	(a)	6.4E-06	6E-03	6.9E-07	7E-04	5.5E-07		2.4E-07			4.7E-06	5E-03	5.0E-07	5E-04	4.0E-07		1.7E-07		
	Calcium	7440702	3,050	2,430	4,830	3,437	--	--		4.3E-02		4.7E-03		3.7E-03		1.6E-03			3.5E-02		3.7E-03		3.0E-03		1.3E-03		
	Chromium	7440473	12.7	12.4	12.8	12.6	1.5E+00	--	(b)	1.8E-04	1E-04	1.9E-05	1E-05	1.6E-05		6.6E-06			1.8E-04	1E-04	1.9E-05	1E-05	1.5E-05		6.5E-06		
	Cobalt	7440484	4.9	4.3	4.5	4.6	3.0E-04	--		7.0E-05	2E-01	7.5E-06	2E-02	6.0E-06		2.6E-06			6.1E-05	2E-01	6.6E-06	2E-02	5.3E-06		2.3E-06		
	Copper	7440508	14	15	11	13	4.0E-02	--		2.0E-04	5E-03	2.1E-05	5E-04	1.7E-05		7.2E-06			2.1E-04	5E-03	2.2E-05	6E-04	1.8E-05		7.6E-06		
	Iron	7439896	12,000	9,960	11,000	10,987	7.0E-01	--		1.7E-01	2E-01	1.8E-02	3E-02	1.5E-02		6.3E-03			1.4E-01	2E-01	1.5E-02	2E-02	1.2E-02		5.2E-03		
	Lead	7439921	22	19	21	20			(c)																		
	Magnesium	7439954	3,980	2,770	4,590	3,780	--	--		5.7E-02		6.1E-03		4.9E-03		2.1E-03			3.9E-02		4.2E-03		3.4E-03		1.4E-03		
	Manganese	7439965	260	171	208	213	4.7E-02	--	(d)	3.7E-03	8E-02	4.0E-04	9E-03	3.2E-04		1.4E-04			2.4E-03	5E-02	2.6E-04	6E-03	2.1E-04		8.9E-05		
	Mercury	7439976	0.030	0.019	0.050	0.033	3.0E-04	--	(i)	4.3E-07	1E-03	4.6E-08	2E-04	3.7E-08		1.6E-08			2.7E-07	9E-04	2.9E-08	1E-04	2.3E-08		9.9E-09		
	Nickel	7440020	10.9	9.6	15.0	11.8	2.0E-02	--		1.6E-04	8E-03	1.7E-05	8E-04	1.3E-05		5.7E-06			1.4E-04	7E-03	1.5E-05	7E-04	1.2E-05		5.0E-06		
	Potassium	7440097	775	843	749	789	--	--		1.1E-02		1.2E-03		9.5E-04		4.1E-04			1.2E-02		1.3E-03		1.0E-03		4.4E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.55	0.50	0.45	0.50	5.0E-03	--		7.8E-06	2E-03	8.4E-07	2E-04	6.7E-07		2.9E-07			7.1E-06	1E-03	7.6E-07	2E-04	6.1E-07		2.6E-07		
	Sodium	7440235	155	131	134	140	--	--		2.2E-03		2.4E-04		1.9E-04		8.1E-05			1.9E-03		2.0E-04		1.6E-04		6.9E-05		
	Thallium	7440280	1.40	1.30	1.10	1.27	6.5E-05	--		2.0E-05	3E-01	2.1E-06	3E-02	1.7E-06		7.3E-07			1.9E-05	3E-01	2.0E-06	3E-02	1.6E-06		6.8E-07		
	Uranium	7440611	11.1	8.4	8.9	9.4	6.0E-04	--	(e)	1.6E-04	3E-01	1.7E-05	3E-02	1.3E-05		5.8E-06			1.2E-04	2E-01	1.3E-05	2E-02	1.0E-05		4.4E-06		
	Vanadium	7440622	21.7	19.6	21.9	21.1	7.0E-03	--		3.1E-04	4E-02	3.3E-05	5E-03	2.6E-05		1.1E-05			2.8E-04	4E-02	3.0E-05	4E-03	2.4E-05		1.0E-05		
	Zinc	7440666	97	67	92	85	3.0E-01	--		1.4E-03	5E-03	1.5E-04	5E-04	1.2E-04		5.1E-05			9.6E-04	3E-03	1.0E-04	3E-04	8.2E-05		3.5E-05		
									Total		**1E+00**		**2E-01**		**6E-06**		**3E-06**	**9E-06**		**1E+00**		**1E-01**		**5E-06**		**2E-06**	**8E-06**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Year-Round

Exposure Area: French Rocks Boat Launch

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	1.42E-05	1.53E-06
Cancer:	1.22E-06	5.23E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	6,370	6,050	6,550	6,323	1.0E+00	--		9.3E-02	9E-02	1.0E-02	1E-02	8.0E-03		3.4E-03			9.0E-02	9E-02	9.7E-03	1E-02	7.7E-03		3.3E-03		
	Antimony	7440360	1.0	1.0	0.4	0.8	4.0E-04	--		6.0E-06	1E-02	6.4E-07	2E-03	5.1E-07		2.2E-07			1.1E-05	3E-02	1.2E-06	3E-03	9.6E-07		4.1E-07		
	Arsenic	7440382	2.6	2.4	2.4	2.5	2.4E-04	1.9E+00	(j)	3.4E-05	1E-01	3.7E-06	2E-02	2.9E-06	5E-06	1.3E-06	2E-06	8E-06	3.5E-05	1E-01	3.8E-06	2E-02	3.0E-06	6E-06	1.3E-06	2E-06	8E-06
	Barium	7440393	56	58	62	59	2.0E-01	--		8.8E-04	4E-03	9.4E-05	5E-04	7.5E-05		3.2E-05			8.3E-04	4E-03	8.9E-05	4E-04	7.2E-05		3.1E-05		
	Beryllium	7440417	0.52	0.51	0.46	0.50	2.0E-03	--		6.6E-06	3E-03	7.0E-07	4E-04	5.6E-07		2.4E-07			7.1E-06	4E-03	7.6E-07	4E-04	6.1E-07		2.6E-07		
	Cadmium	7440439	0.45	0.33	0.51	0.43	1.0E-03	--	(a)	7.3E-06	7E-03	7.8E-07	8E-04	6.2E-07		2.7E-07			6.1E-06	6E-03	6.6E-07	7E-04	5.3E-07		2.3E-07		
	Calcium	7440702	3,050	2,430	4,830	3,437	--	--		6.9E-02		7.4E-03		5.9E-03		2.5E-03			4.9E-02		5.2E-03		4.2E-03		1.8E-03		
	Chromium	7440473	12.7	12.4	12.8	12.6	1.5E+00	--	(b)	1.8E-04	1E-04	2.0E-05	1E-05	1.6E-05		6.7E-06			1.8E-04	1E-04	1.9E-05	1E-05	1.5E-05		6.6E-06		
	Cobalt	7440484	4.9	4.3	4.5	4.6	3.0E-04	--		6.4E-05	2E-01	6.9E-06	2E-02	5.5E-06		2.4E-06			6.5E-05	2E-01	7.0E-06	2E-02	5.6E-06		2.4E-06		
	Copper	7440508	14	15	11	13	4.0E-02	--		1.6E-04	4E-03	1.7E-05	4E-04	1.3E-05		5.7E-06			1.9E-04	5E-03	2.0E-05	5E-04	1.6E-05		6.8E-06		
	Iron	7439896	12,000	9,960	11,000	10,987	7.0E-01	--		1.6E-01	2E-01	1.7E-02	2E-02	1.3E-02		5.8E-03			1.6E-01	2E-01	1.7E-02	2E-02	1.3E-02		5.7E-03		
	Lead	7439921	22	19	21	20			(c)																		
	Magnesium	7439954	3,980	2,770	4,590	3,780	--	--		6.5E-02		7.0E-03		5.6E-03		2.4E-03			5.4E-02		5.8E-03		4.6E-03		2.0E-03		
	Manganese	7439965	260	171	208	213	4.7E-02	--	(d)	3.0E-03	6E-02	3.2E-04	7E-03	2.5E-04		1.1E-04			3.0E-03	7E-02	3.3E-04	7E-03	2.6E-04		1.1E-04		
	Mercury	7439976	0.030	0.019	0.050	0.033	3.0E-04	--	(i)	7.1E-07	2E-03	7.6E-08	3E-04	6.0E-08		2.6E-08			4.7E-07	2E-03	5.0E-08	2E-04	4.0E-08		1.7E-08		
	Nickel	7440020	10.9	9.6	15.0	11.8	2.0E-02	--		2.1E-04	1E-02	2.3E-05	1E-03	1.8E-05		7.9E-06			1.7E-04	8E-03	1.8E-05	9E-04	1.4E-05		6.2E-06		
	Potassium	7440097	775	843	749	789	--	--		1.1E-02		1.1E-03		9.1E-04		3.9E-04			1.1E-02		1.2E-03		9.6E-04		4.1E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.55	0.50	0.45	0.50	5.0E-03	--		6.3E-06	1E-03	6.8E-07	1E-04	5.4E-07		2.3E-07			7.1E-06	1E-03	7.6E-07	2E-04	6.1E-07		2.6E-07		
	Sodium	7440235	155	131	134	140	--	--		1.9E-03		2.0E-04		1.6E-04		7.0E-05			2.0E-03		2.1E-04		1.7E-04		7.3E-05		
	Thallium	7440280	1.40	1.30	1.10	1.27	6.5E-05	--		1.6E-05	2E-01	1.7E-06	3E-02	1.3E-06		5.8E-07			1.8E-05	3E-01	1.9E-06	3E-02	1.5E-06		6.6E-07		
	Uranium	7440611	11.1	8.4	8.9	9.4	6.0E-04	--	(e)	1.3E-04	2E-01	1.4E-05	2E-02	1.1E-05		4.6E-06			1.3E-04	2E-01	1.4E-05	2E-02	1.2E-05		4.9E-06		
	Vanadium	7440622	21.7	19.6	21.9	21.1	7.0E-03	--		3.1E-04	4E-02	3.3E-05	5E-03	2.7E-05		1.1E-05			3.0E-04	4E-02	3.2E-05	5E-03	2.6E-05		1.1E-05		
	Zinc	7440666	97	67	92	85	3.0E-01	--		9.6E-04	3E-03	1.0E-04	3E-04	8.2E-05		3.5E-05			1.2E-03	4E-03	1.3E-04	4E-04	1.0E-04		4.5E-05		
								Total			**1E+00**		**1E-01**		**5E-06**		**2E-06**	**8E-06**		**1E+00**		**1E-01**		**6E-06**		**2E-06**	**8E-06**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Year-Round

Exposure Area: Haag Cove

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	1.42E-05	1.53E-06
Cancer:	1.22E-06	5.23E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	13,000	7,660	3,000	7,887	1.0E+00	--		1.9E-01	2E-01	2.0E-02	2E-02	1.6E-02		6.8E-03			1.1E-01	1E-01	1.2E-02	1E-02	9.4E-03		4.0E-03		
	Antimony	7440360	1.8	1.8	0.3	1.3	4.0E-04	--		2.6E-05	6E-02	2.7E-06	7E-03	2.2E-06		9.4E-07			2.6E-05	6E-02	2.7E-06	7E-03	2.2E-06		9.4E-07		
	Arsenic	7440382	2.3	1.4	1.0	1.6	2.4E-04	1.9E+00	(j)	3.3E-05	1E-01	3.5E-06	1E-02	2.8E-06	5E-06	1.2E-06	2E-06	8E-06	2.0E-05	8E-02	2.1E-06	9E-03	1.7E-06	3E-06	7.3E-07	1E-06	5E-06
	Barium	7440393	232	102	30	121	2.0E-01	--		3.3E-03	2E-02	3.5E-04	2E-03	2.8E-04		1.2E-04			1.5E-03	7E-03	1.6E-04	8E-04	1.2E-04		5.3E-05		
	Beryllium	7440417	1.20	0.69	0.28	0.72	2.0E-03	--		1.7E-05	9E-03	1.8E-06	9E-04	1.5E-06		6.3E-07			9.8E-06	5E-03	1.1E-06	5E-04	8.4E-07		3.6E-07		
	Cadmium	7440439	7.80	4.40	0.32	4.17	1.0E-03	--	(a)	1.1E-04	1E-01	1.2E-05	1E-02	9.5E-06		4.1E-06			6.3E-05	6E-02	6.7E-06	7E-03	5.4E-06		2.3E-06		
	Calcium	7440702	5,670	2,550	879	3,033	--	--		8.1E-02		8.7E-03		6.9E-03		3.0E-03			3.6E-02		3.9E-03		3.1E-03		1.3E-03		
	Chromium	7440473	24.8	14.6	5.6	15.0	1.5E+00	--	(b)	3.5E-04	2E-04	3.8E-05	3E-05	3.0E-05		1.3E-05			2.1E-04	1E-04	2.2E-05	1E-05	1.8E-05		7.6E-06		
	Cobalt	7440484	8.7	5.2	2.3	5.4	3.0E-04	--		1.2E-04	4E-01	1.3E-05	4E-02	1.1E-05		4.6E-06			7.4E-05	2E-01	7.9E-06	3E-02	6.3E-06		2.7E-06		
	Copper	7440508	34	17	4	18	4.0E-02	--		4.8E-04	1E-02	5.2E-05	1E-03	4.2E-05		1.8E-05			2.4E-04	6E-03	2.5E-05	6E-04	2.0E-05		8.6E-06		
	Iron	7439896	18,100	11,800	5,180	11,693	7.0E-01	--		2.6E-01	4E-01	2.8E-02	4E-02	2.2E-02		9.5E-03			1.7E-01	2E-01	1.8E-02	3E-02	1.4E-02		6.2E-03		
	Lead	7439921	222	136	17	125			(c)																		
	Magnesium	7439954	5,220	3,210	1,390	3,273	--	--		7.4E-02		8.0E-03		6.4E-03		2.7E-03			4.6E-02		4.9E-03		3.9E-03		1.7E-03		
	Manganese	7439965	267	158	111	179	4.7E-02	--	(d)	3.8E-03	8E-02	4.1E-04	9E-03	3.3E-04		1.4E-04			2.3E-03	5E-02	2.4E-04	5E-03	1.9E-04		8.3E-05		
	Mercury	7439976	0.800	0.290	0.050	0.380	3.0E-04	--	(i)	1.1E-05	4E-02	1.2E-06	4E-03	9.8E-07		4.2E-07			4.1E-06	1E-02	4.4E-07	1E-03	3.5E-07		1.5E-07		
	Nickel	7440020	19.7	11.2	4.1	11.7	2.0E-02	--		2.8E-04	1E-02	3.0E-05	2E-03	2.4E-05		1.0E-05			1.6E-04	8E-03	1.7E-05	9E-04	1.4E-05		5.9E-06		
	Potassium	7440097	2,260	1,120	483	1,288	--	--		3.2E-02		3.4E-03		2.8E-03		1.2E-03			1.6E-02		1.7E-03		1.4E-03		5.9E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.75	0.60	0.43	0.59	5.0E-03	--		1.1E-05	2E-03	1.1E-06	2E-04	9.2E-07		3.9E-07			8.5E-06	2E-03	9.2E-07	2E-04	7.3E-07		3.1E-07		
	Sodium	7440235	242	125	60	142	--	--		3.4E-03		3.7E-04		3.0E-04		1.3E-04			1.8E-03		1.9E-04		1.5E-04		6.5E-05		
	Thallium	7440280	1.90	1.45	1.10	1.48	6.5E-05	--		2.7E-05	4E-01	2.9E-06	4E-02	2.3E-06		9.9E-07			2.1E-05	3E-01	2.2E-06	3E-02	1.8E-06		7.6E-07		
	Uranium	7440611	15.1	11.6	8.7	11.8	6.0E-04	--	(e)	2.2E-04	4E-01	2.3E-05	4E-02	1.8E-05		7.9E-06			1.6E-04	3E-01	1.8E-05	3E-02	1.4E-05		6.0E-06		
	Vanadium	7440622	29.0	19.8	9.1	19.3	7.0E-03	--		4.1E-04	6E-02	4.4E-05	6E-03	3.5E-05		1.5E-05			2.8E-04	4E-02	3.0E-05	4E-03	2.4E-05		1.0E-05		
	Zinc	7440666	700	391	54	382	3.0E-01	--		1.0E-02	3E-02	1.1E-03	4E-03	8.5E-04		3.7E-04			5.6E-03	2E-02	6.0E-04	2E-03	4.8E-04		2.0E-04		
								Total			**2E+00**		**2E-01**		**5E-06**		**2E-06**	**8E-06**		**2E+00**		**2E-01**		**3E-06**		**1E-06**	**5E-06**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Year-Round

Exposure Area: Haag Cove

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	1.42E-05	1.53E-06
Cancer:	1.22E-06	5.23E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	13,000	7,660	3,000	7,887	1.0E+00	--		4.3E-02	4E-02	4.6E-03	5E-03	3.7E-03		1.6E-03			1.1E-01	1E-01	1.2E-02	1E-02	9.6E-03		4.1E-03		
	Antimony	7440360	1.8	1.8	0.3	1.3	4.0E-04	--		4.1E-06	1E-02	4.4E-07	1E-03	3.5E-07		1.5E-07			1.8E-05	5E-02	2.0E-06	5E-03	1.6E-06		6.8E-07		
	Arsenic	7440382	2.3	1.4	1.0	1.6	2.4E-04	1.9E+00	(j)	1.4E-05	6E-02	1.5E-06	6E-03	1.2E-06	2E-06	5.2E-07	1E-06	3E-06	2.2E-05	9E-02	2.4E-06	1E-02	1.9E-06	4E-06	8.2E-07	2E-06	5E-06
	Barium	7440393	232	102	30	121	2.0E-01	--		4.2E-04	2E-03	4.5E-05	2E-04	3.6E-05		1.6E-05			1.7E-03	9E-03	1.9E-04	9E-04	1.5E-04		6.3E-05		
	Beryllium	7440417	1.20	0.69	0.28	0.72	2.0E-03	--		4.0E-06	2E-03	4.3E-07	2E-04	3.4E-07		1.5E-07			1.0E-05	5E-03	1.1E-06	6E-04	8.8E-07		3.8E-07		
	Cadmium	7440439	7.80	4.40	0.32	4.17	1.0E-03	--	(a)	4.6E-06	5E-03	4.9E-07	5E-04	3.9E-07		1.7E-07			5.9E-05	6E-02	6.4E-06	6E-03	5.1E-06		2.2E-06		
	Calcium	7440702	5,670	2,550	879	3,033	--	--		1.3E-02		1.3E-03		1.1E-03		4.6E-04			4.3E-02		4.6E-03		3.7E-03		1.6E-03		
	Chromium	7440473	24.8	14.6	5.6	15.0	1.5E+00	--	(b)	8.0E-05	5E-05	8.5E-06	6E-06	6.8E-06		2.9E-06			2.1E-04	1E-04	2.3E-05	2E-05	1.8E-05		7.9E-06		
	Cobalt	7440484	8.7	5.2	2.3	5.4	3.0E-04	--		3.3E-05	1E-01	3.5E-06	1E-02	2.8E-06		1.2E-06			7.7E-05	3E-01	8.2E-06	3E-02	6.6E-06		2.8E-06		
	Copper	7440508	34	17	4	18	4.0E-02	--		6.0E-05	1E-03	6.4E-06	2E-04	5.1E-06		2.2E-06			2.6E-04	6E-03	2.8E-05	7E-04	2.2E-05		9.5E-06		
	Iron	7439896	18,100	11,800	5,180	11,693	7.0E-01	--		7.4E-02	1E-01	7.9E-03	1E-02	6.3E-03		2.7E-03			1.7E-01	2E-01	1.8E-02	3E-02	1.4E-02		6.1E-03		
	Lead	7439921	222	136	17	125			(c)																		
	Magnesium	7439954	5,220	3,210	1,390	3,273	--	--		2.0E-02		2.1E-03		1.7E-03		7.3E-04			4.7E-02		5.0E-03		4.0E-03		1.7E-03		
	Manganese	7439965	267	158	111	179	4.7E-02	--	(d)	1.6E-03	3E-02	1.7E-04	4E-03	1.4E-04		5.8E-05			2.5E-03	5E-02	2.7E-04	6E-03	2.2E-04		9.4E-05		
	Mercury	7439976	0.800	0.290	0.050	0.380	3.0E-04	--	(i)	7.1E-07	2E-03	7.6E-08	3E-04	6.0E-08		2.6E-08			5.4E-06	2E-02	5.8E-07	2E-03	4.6E-07		2.0E-07		
	Nickel	7440020	19.7	11.2	4.1	11.7	2.0E-02	--		5.8E-05	3E-03	6.3E-06	3E-04	5.0E-06		2.1E-06			1.7E-04	8E-03	1.8E-05	9E-04	1.4E-05		6.1E-06		
	Potassium	7440097	2,260	1,120	483	1,288	--	--		6.9E-03		7.4E-04		5.9E-04		2.5E-04			1.8E-02		2.0E-03		1.6E-03		6.7E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.75	0.60	0.43	0.59	5.0E-03	--		6.1E-06	1E-03	6.6E-07	1E-04	5.3E-07		2.3E-07			8.5E-06	2E-03	9.1E-07	2E-04	7.2E-07		3.1E-07		
	Sodium	7440235	242	125	60	142	--	--		8.6E-04		9.2E-05		7.4E-05		3.2E-05			2.0E-03		2.2E-04		1.7E-04		7.5E-05		
	Thallium	7440280	1.90	1.45	1.10	1.48	6.5E-05	--		1.6E-05	2E-01	1.7E-06	3E-02	1.3E-06		5.8E-07			2.1E-05	3E-01	2.3E-06	3E-02	1.8E-06		7.8E-07		
	Uranium	7440611	15.1	11.6	8.7	11.8	6.0E-04	--	(e)	1.2E-04	2E-01	1.3E-05	2E-02	1.1E-05		4.5E-06			1.7E-04	3E-01	1.8E-05	3E-02	1.4E-05		6.2E-06		
	Vanadium	7440622	29.0	19.8	9.1	19.3	7.0E-03	--		1.3E-04	2E-02	1.4E-05	2E-03	1.1E-05		4.8E-06			2.7E-04	4E-02	2.9E-05	4E-03	2.4E-05		1.0E-05		
	Zinc	7440666	700	391	54	382	3.0E-01	--		5.6E-03	2E-02	6.0E-04	2E-03	4.8E-04		2.0E-04			5.4E-03	2E-02	5.8E-04	2E-03	4.7E-04		2.0E-04		
									Total		9E-01		9E-02		2E-06		1E-06	3E-06		2E+00		2E-01		4E-06		2E-06	5E-06
										Total HQ or Risks > LOPC?: Yes									Total HQ or Risks > LOPC?: Yes								

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Year-Round

Exposure Area: Keller Ferry No. 2

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	1.42E-05	1.53E-06
Cancer:	1.22E-06	5.23E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	8,620	8,030	6,270	7,640	1.0E+00	--		1.2E-01	1E-01	1.3E-02	1E-02	1.1E-02		4.5E-03			1.1E-01	1E-01	1.2E-02	1E-02	9.8E-03		4.2E-03		
	Antimony	7440360	#N/A	#N/A	#N/A	#N/A	4.0E-04	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Arsenic	7440382	4.7	4.9	4.0	4.5	2.4E-04	1.9E+00	(j)	6.7E-05	3E-01	7.2E-06	3E-02	5.7E-06	1E-05	2.5E-06	5E-06	2E-05	7.0E-05	3E-01	7.5E-06	3E-02	6.0E-06	1E-05	2.6E-06	5E-06	2E-05
	Barium	7440393	69	59	46	58	2.0E-01	--		9.8E-04	5E-03	1.1E-04	5E-04	8.4E-05		3.6E-05			8.3E-04	4E-03	8.9E-05	4E-04	7.2E-05		3.1E-05		
	Beryllium	7440417	0.74	0.68	0.51	0.64	2.0E-03	--		1.1E-05	5E-03	1.1E-06	6E-04	9.0E-07		3.9E-07			9.7E-06	5E-03	1.0E-06	5E-04	8.3E-07		3.6E-07		
	Cadmium	7440439	0.25	0.24	0.25	0.25	1.0E-03	--	(a)	3.6E-06	4E-03	3.8E-07	4E-04	3.1E-07		1.3E-07			3.4E-06	3E-03	3.7E-07	4E-04	2.9E-07		1.3E-07		
	Calcium	7440702	1,940	1,760	3,880	2,527	--	--		2.8E-02		3.0E-03		2.4E-03		1.0E-03			2.5E-02		2.7E-03		2.1E-03		9.2E-04		
	Chromium	7440473	12.5	11.2	9.8	11.2	1.5E+00	--	(b)	1.8E-04	1E-04	1.9E-05	1E-05	1.5E-05		6.5E-06			1.6E-04	1E-04	1.7E-05	1E-05	1.4E-05		5.9E-06		
	Cobalt	7440484	5.4	5.0	3.9	4.8	3.0E-04	--		7.7E-05	3E-01	8.2E-06	3E-02	6.6E-06		2.8E-06			7.1E-05	2E-01	7.6E-06	3E-02	6.1E-06		2.6E-06		
	Copper	7440508	9	9	7	8	4.0E-02	--		1.3E-04	3E-03	1.4E-05	3E-04	1.1E-05		4.8E-06			1.2E-04	3E-03	1.3E-05	3E-04	1.1E-05		4.5E-06		
	Iron	7439896	15,600	15,500	13,100	14,733	7.0E-01	--		2.2E-01	3E-01	2.4E-02	3E-02	1.9E-02		8.2E-03			2.2E-01	3E-01	2.4E-02	3E-02	1.9E-02		8.1E-03		
	Lead	7439921	6	6	5	6			(c)																		
	Magnesium	7439954	4,210	4,390	4,330	4,310	--	--		6.0E-02		6.4E-03		5.1E-03		2.2E-03			6.3E-02		6.7E-03		5.4E-03		2.3E-03		
	Manganese	7439965	248	230	214	231	4.7E-02	--	(d)	3.5E-03	8E-02	3.8E-04	8E-03	3.0E-04		1.3E-04			3.3E-03	7E-02	3.5E-04	8E-03	2.8E-04		1.2E-04		
	Mercury	7439976	0.055	0.055	0.055	0.055	3.0E-04	--	(i)	7.8E-07	3E-03	8.4E-08	3E-04	6.7E-08		2.9E-08			7.8E-07	3E-03	8.4E-08	3E-04	6.7E-08		2.9E-08		
	Nickel	7440020	10.1	9.4	8.5	9.3	2.0E-02	--		1.4E-04	7E-03	1.5E-05	8E-04	1.2E-05		5.3E-06			1.3E-04	7E-03	1.4E-05	7E-04	1.1E-05		4.9E-06		
	Potassium	7440097	1,640	1,410	1,080	1,377	--	--		2.3E-02		2.5E-03		2.0E-03		8.6E-04			2.0E-02		2.2E-03		1.7E-03		7.4E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.50	0.48	0.50	0.49	5.0E-03	--		7.1E-06	1E-03	7.6E-07	2E-04	6.1E-07		2.6E-07			6.8E-06	1E-03	7.3E-07	1E-04	5.9E-07		2.5E-07		
	Sodium	7440235	75	58	49	61	--	--		1.1E-03		1.1E-04		9.1E-05		3.9E-05			8.2E-04		8.8E-05		7.0E-05		3.0E-05		
	Thallium	7440280	1.25	1.20	1.25	1.23	6.5E-05	--		1.8E-05	3E-01	1.9E-06	3E-02	1.5E-06		6.5E-07			1.7E-05	3E-01	1.8E-06	3E-02	1.5E-06		6.3E-07		
	Uranium	7440611	5.4	4.6	10.1	6.7	6.0E-04	--	(e)	7.7E-05	1E-01	8.2E-06	1E-02	6.6E-06		2.8E-06			6.6E-05	1E-01	7.0E-06	1E-02	5.6E-06		2.4E-06		
	Vanadium	7440622	19.5	17.2	14.0	16.9	7.0E-03	--		2.8E-04	4E-02	3.0E-05	4E-03	2.4E-05		1.0E-05			2.5E-04	4E-02	2.6E-05	4E-03	2.1E-05		9.0E-06		
	Zinc	7440666	39	44	37	40	3.0E-01	--		5.6E-04	2E-03	6.0E-05	2E-04	4.8E-05		2.1E-05			6.3E-04	2E-03	6.7E-05	2E-04	5.4E-05		2.3E-05		
									Total		**2E+00**		**2E-01**		**1E-05**		**5E-06**	**2E-05**		**1E+00**		**2E-01**		**1E-05**		**5E-06**	**2E-05**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Year-Round

Exposure Area: Keller Ferry No. 2

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	1.42E-05	1.53E-06
Cancer:	1.22E-06	5.23E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	8,620	8,030	6,270	7,640	1.0E+00	--		8.9E-02	9E-02	9.6E-03	1E-02	7.7E-03		3.3E-03			1.1E-01	1E-01	1.2E-02	1E-02	9.3E-03		4.0E-03		
	Antimony	7440360	#N/A	#N/A	#N/A	#N/A	4.0E-04	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Arsenic	7440382	4.7	4.9	4.0	4.5	2.4E-04	1.9E+00	(j)	5.7E-05	2E-01	6.1E-06	3E-02	4.9E-06	9E-06	2.1E-06	4E-06	1E-05	6.5E-05	3E-01	6.9E-06	3E-02	5.5E-06	1E-05	2.4E-06	4E-06	1E-05
	Barium	7440393	69	59	46	58	2.0E-01	--		6.5E-04	3E-03	7.0E-05	3E-04	5.6E-05		2.4E-05			8.2E-04	4E-03	8.8E-05	4E-04	7.0E-05		3.0E-05		
	Beryllium	7440417	0.74	0.68	0.51	0.64	2.0E-03	--		7.3E-06	4E-03	7.8E-07	4E-04	6.2E-07		2.7E-07			9.2E-06	5E-03	9.8E-07	5E-04	7.9E-07		3.4E-07		
	Cadmium	7440439	0.25	0.24	0.25	0.25	1.0E-03	--	(a)	3.6E-06	4E-03	3.8E-07	4E-04	3.1E-07		1.3E-07			3.5E-06	4E-03	3.8E-07	4E-04	3.0E-07		1.3E-07		
	Calcium	7440702	1,940	1,760	3,880	2,527	--	--		5.5E-02		5.9E-03		4.7E-03		2.0E-03			3.6E-02		3.9E-03		3.1E-03		1.3E-03		
	Chromium	7440473	12.5	11.2	9.8	11.2	1.5E+00	--	(b)	1.4E-04	9E-05	1.5E-05	1E-05	1.2E-05		5.1E-06			1.6E-04	1E-04	1.7E-05	1E-05	1.4E-05		5.8E-06		
	Cobalt	7440484	5.4	5.0	3.9	4.8	3.0E-04	--		5.6E-05	2E-01	6.0E-06	2E-02	4.8E-06		2.0E-06			6.8E-05	2E-01	7.3E-06	2E-02	5.8E-06		2.5E-06		
	Copper	7440508	9	9	7	8	4.0E-02	--		9.5E-05	2E-03	1.0E-05	3E-04	8.2E-06		3.5E-06			1.2E-04	3E-03	1.2E-05	3E-04	9.9E-06		4.3E-06		
	Iron	7439896	15,600	15,500	13,100	14,733	7.0E-01	--		1.9E-01	3E-01	2.0E-02	3E-02	1.6E-02		6.9E-03			2.1E-01	3E-01	2.2E-02	3E-02	1.8E-02		7.7E-03		
	Lead	7439921	6	6	5	6			(c)																		
	Magnesium	7439954	4,210	4,390	4,330	4,310	--	--		6.2E-02		6.6E-03		5.3E-03		2.3E-03			6.1E-02		6.6E-03		5.3E-03		2.3E-03		
	Manganese	7439965	248	230	214	231	4.7E-02	--	(d)	3.0E-03	7E-02	3.3E-04	7E-03	2.6E-04		1.1E-04			3.3E-03	7E-02	3.5E-04	8E-03	2.8E-04		1.2E-04		
	Mercury	7439976	0.055	0.055	0.055	0.055	3.0E-04	--	(i)	7.8E-07	3E-03	8.4E-08	3E-04	6.7E-08		2.9E-08			7.8E-07	3E-03	8.4E-08	3E-04	6.7E-08		2.9E-08		
	Nickel	7440020	10.1	9.4	8.5	9.3	2.0E-02	--		1.2E-04	6E-03	1.3E-05	6E-04	1.0E-05		4.4E-06			1.3E-04	7E-03	1.4E-05	7E-04	1.1E-05		4.9E-06		
	Potassium	7440097	1,640	1,410	1,080	1,377	--	--		1.5E-02		1.6E-03		1.3E-03		5.7E-04			2.0E-02		2.1E-03		1.7E-03		7.2E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.50	0.48	0.50	0.49	5.0E-03	--		7.1E-06	1E-03	7.6E-07	2E-04	6.1E-07		2.6E-07			7.0E-06	1E-03	7.5E-07	2E-04	6.0E-07		2.6E-07		
	Sodium	7440235	75	58	49	61	--	--		7.0E-04		7.5E-05		6.0E-05		2.6E-05			8.6E-04		9.2E-05		7.4E-05		3.2E-05		
	Thallium	7440280	1.25	1.20	1.25	1.23	6.5E-05	--		1.8E-05	3E-01	1.9E-06	3E-02	1.5E-06		6.5E-07			1.8E-05	3E-01	1.9E-06	3E-02	1.5E-06		6.5E-07		
	Uranium	7440611	5.4	4.6	10.1	6.7	6.0E-04	--	(e)	1.4E-04	2E-01	1.5E-05	3E-02	1.2E-05		5.3E-06			9.5E-05	2E-01	1.0E-05	2E-02	8.2E-06		3.5E-06		
	Vanadium	7440622	19.5	17.2	14.0	16.9	7.0E-03	--		2.0E-04	3E-02	2.1E-05	3E-03	1.7E-05		7.3E-06			2.4E-04	3E-02	2.6E-05	4E-03	2.1E-05		8.8E-06		
	Zinc	7440666	39	44	37	40	3.0E-01	--		6.3E-04	2E-03	6.7E-05	2E-04	5.4E-05		2.3E-05			5.7E-04	2E-03	6.1E-05	2E-04	4.9E-05		2.1E-05		
									Total		**1E+00**		**2E-01**		**9E-06**		**4E-06**	**1E-05**		**1E+00**		**2E-01**		**1E-05**		**4E-06**	**1E-05**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Year-Round

Exposure Area: Kettle Falls Swim Beach

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	1.42E-05	1.53E-06
Cancer:	1.22E-06	5.23E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	10,277	5,137	4,900	6,771	1.0E+00	--		1.5E-01	1E-01	1.6E-02	2E-02	1.3E-02		5.4E-03			7.3E-02	7E-02	7.8E-03	8E-03	6.3E-03		2.7E-03		
	Antimony	7440360	0.7	1.5	1.2	1.1	4.0E-04	--		9.8E-06	2E-02	1.0E-06	3E-03	8.4E-07		3.6E-07			2.1E-05	5E-02	2.3E-06	6E-03	1.8E-06		7.8E-07		
	Arsenic	7440382	1.9	1.3	1.6	1.6	2.4E-04	1.9E+00	(j)	2.7E-05	1E-01	2.8E-06	1E-02	2.3E-06	4E-06	9.8E-07	2E-06	6E-06	1.8E-05	8E-02	1.9E-06	8E-03	1.5E-06	3E-06	6.6E-07	1E-06	4E-06
	Barium	7440393	104	40	43	62	2.0E-01	--		1.5E-03	7E-03	1.6E-04	8E-04	1.3E-04		5.4E-05			5.7E-04	3E-03	6.1E-05	3E-04	4.8E-05		2.1E-05		
	Beryllium	7440417	0.86	0.37	0.33	0.52	2.0E-03	--		1.2E-05	6E-03	1.3E-06	7E-04	1.1E-06		4.5E-07			5.3E-06	3E-03	5.6E-07	3E-04	4.5E-07		1.9E-07		
	Cadmium	7440439	0.26	0.16	0.15	0.19	1.0E-03	--	(a)	3.7E-06	4E-03	3.9E-07	4E-04	3.1E-07		1.3E-07			2.3E-06	2E-03	2.5E-07	2E-04	2.0E-07		8.5E-08		
	Calcium	7440702	8,840	2,470	2,023	4,444	--	--		1.3E-01		1.3E-02		1.1E-02		4.6E-03			3.5E-02		3.8E-03		3.0E-03		1.3E-03		
	Chromium	7440473	22.9	9.8	9.8	14.2	1.5E+00	--	(b)	3.3E-04	2E-04	3.5E-05	2E-05	2.8E-05		1.2E-05			1.4E-04	9E-05	1.5E-05	1E-05	1.2E-05		5.1E-06		
	Cobalt	7440484	8.0	3.6	3.4	5.0	3.0E-04	--		1.1E-04	4E-01	1.2E-05	4E-02	9.8E-06		4.2E-06			5.1E-05	2E-01	5.5E-06	2E-02	4.4E-06		1.9E-06		
	Copper	7440508	18	10	10	12	4.0E-02	--		2.5E-04	6E-03	2.7E-05	7E-04	2.1E-05		9.2E-06			1.4E-04	3E-03	1.5E-05	4E-04	1.2E-05		5.0E-06		
	Iron	7439896	17,433	9,647	9,530	12,203	7.0E-01	--		2.5E-01	4E-01	2.7E-02	4E-02	2.1E-02		9.1E-03			1.4E-01	2E-01	1.5E-02	2E-02	1.2E-02		5.0E-03		
	Lead	7439921	9	6	5	7			(c)																		
	Magnesium	7439954	6,343	2,883	2,887	4,038	--	--		9.0E-02		9.7E-03		7.7E-03		3.3E-03			4.1E-02		4.4E-03		3.5E-03		1.5E-03		
	Manganese	7439965	381	151	177	236	4.7E-02	--	(d)	5.4E-03	1E-01	5.8E-04	1E-02	4.6E-04		2.0E-04			2.2E-03	5E-02	2.3E-04	5E-03	1.8E-04		7.9E-05		
	Mercury	7439976	0.006	0.052	0.053	0.037	3.0E-04	--	(i)	8.4E-08	3E-04	9.0E-09	3E-05	7.2E-09		3.1E-09			7.4E-07	2E-03	7.9E-08	3E-04	6.3E-08		2.7E-08		
	Nickel	7440020	18.7	7.8	7.8	11.4	2.0E-02	--		2.7E-04	1E-02	2.9E-05	1E-03	2.3E-05		9.8E-06			1.1E-04	6E-03	1.2E-05	6E-04	9.5E-06		4.1E-06		
	Potassium	7440097	1,804	624	555	995	--	--		2.6E-02		2.8E-03		2.2E-03		9.4E-04			8.9E-03		9.5E-04		7.6E-04		3.3E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.52	0.46	0.47	0.48	5.0E-03	--		7.3E-06	1E-03	7.9E-07	2E-04	6.3E-07		2.7E-07			6.5E-06	1E-03	6.9E-07	1E-04	5.6E-07		2.4E-07		
	Sodium	7440235	262	115	97	158	--	--		3.7E-03		4.0E-04		3.2E-04		1.4E-04			1.6E-03		1.8E-04		1.4E-04		6.0E-05		
	Thallium	7440280	1.30	1.13	1.17	1.20	6.5E-05	--		1.9E-05	3E-01	2.0E-06	3E-02	1.6E-06		6.8E-07			1.6E-05	2E-01	1.7E-06	3E-02	1.4E-06		5.9E-07		
	Uranium	7440611	10.4	9.0	9.3	9.6	6.0E-04	--	(e)	1.5E-04	2E-01	1.6E-05	3E-02	1.3E-05		5.5E-06			1.3E-04	2E-01	1.4E-05	2E-02	1.1E-05		4.7E-06		
	Vanadium	7440622	33.7	20.4	20.7	24.9	7.0E-03	--		4.8E-04	7E-02	5.1E-05	7E-03	4.1E-05		1.8E-05			2.9E-04	4E-02	3.1E-05	4E-03	2.5E-05		1.1E-05		
	Zinc	7440666	55	36	34	42	3.0E-01	--		7.9E-04	3E-03	8.5E-05	3E-04	6.8E-05		2.9E-05			5.2E-04	2E-03	5.5E-05	2E-04	4.4E-05		1.9E-05		
									Total		**2E+00**		**2E-01**		**4E-06**		**2E-06**	**6E-06**		**1E+00**		**1E-01**		**3E-06**		**1E-06**	**4E-06**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Year-Round

Exposure Area: Kettle Falls Swim Beach

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	1.42E-05	1.53E-06
Cancer:	1.22E-06	5.23E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	10,277	5,137	4,900	6,771	1.0E+00	--		7.0E-02	7E-02	7.5E-03	7E-03	6.0E-03		2.6E-03			9.6E-02	1E-01	1.0E-02	1E-02	8.3E-03		3.5E-03		
	Antimony	7440360	0.7	1.5	1.2	1.1	4.0E-04	--		1.7E-05	4E-02	1.8E-06	5E-03	1.5E-06		6.3E-07			1.6E-05	4E-02	1.7E-06	4E-03	1.4E-06		5.9E-07		
	Arsenic	7440382	1.9	1.3	1.6	1.6	2.4E-04	1.9E+00	(j)	2.2E-05	9E-02	2.4E-06	1E-02	1.9E-06	4E-06	8.2E-07	2E-06	5E-06	2.2E-05	9E-02	2.4E-06	1E-02	1.9E-06	4E-06	8.2E-07	2E-06	5E-06
	Barium	7440393	104	40	43	62	2.0E-01	--		6.2E-04	3E-03	6.6E-05	3E-04	5.3E-05		2.3E-05			8.9E-04	4E-03	9.5E-05	5E-04	7.6E-05		3.3E-05		
	Beryllium	7440417	0.86	0.37	0.33	0.52	2.0E-03	--		4.7E-06	2E-03	5.0E-07	3E-04	4.0E-07		1.7E-07			7.4E-06	4E-03	7.9E-07	4E-04	6.3E-07		2.7E-07		
	Cadmium	7440439	0.26	0.16	0.15	0.19	1.0E-03	--	(a)	2.1E-06	2E-03	2.2E-07	2E-04	1.8E-07		7.7E-08			2.7E-06	3E-03	2.9E-07	3E-04	2.3E-07		9.9E-08		
	Calcium	7440702	8,840	2,470	2,023	4,444	--	--		2.9E-02		3.1E-03		2.5E-03		1.1E-03			6.3E-02		6.8E-03		5.4E-03		2.3E-03		
	Chromium	7440473	22.9	9.8	9.8	14.2	1.5E+00	--	(b)	1.4E-04	9E-05	1.5E-05	1E-05	1.2E-05		5.1E-06			2.0E-04	1E-04	2.2E-05	1E-05	1.7E-05		7.4E-06		
	Cobalt	7440484	8.0	3.6	3.4	5.0	3.0E-04	--		4.8E-05	2E-01	5.1E-06	2E-02	4.1E-06		1.8E-06			7.1E-05	2E-01	7.6E-06	3E-02	6.1E-06		2.6E-06		
	Copper	7440508	18	10	10	12	4.0E-02	--		1.4E-04	4E-03	1.5E-05	4E-04	1.2E-05		5.3E-06			1.8E-04	4E-03	1.9E-05	5E-04	1.5E-05		6.5E-06		
	Iron	7439896	17,433	9,647	9,530	12,203	7.0E-01	--		1.4E-01	2E-01	1.5E-02	2E-02	1.2E-02		5.0E-03			1.7E-01	2E-01	1.9E-02	3E-02	1.5E-02		6.4E-03		
	Lead	7439921	9	6	5	7			(c)																		
	Magnesium	7439954	6,343	2,883	2,887	4,038	--	--		4.1E-02		4.4E-03		3.5E-03		1.5E-03			5.8E-02		6.2E-03		4.9E-03		2.1E-03		
	Manganese	7439965	381	151	177	236	4.7E-02	--	(d)	2.5E-03	5E-02	2.7E-04	6E-03	2.2E-04		9.2E-05			3.4E-03	7E-02	3.6E-04	8E-03	2.9E-04		1.2E-04		
	Mercury	7439976	0.006	0.052	0.053	0.037	3.0E-04	--	(i)	7.6E-07	3E-03	8.1E-08	3E-04	6.5E-08		2.8E-08			5.3E-07	2E-03	5.6E-08	2E-04	4.5E-08		1.9E-08		
	Nickel	7440020	18.7	7.8	7.8	11.4	2.0E-02	--		1.1E-04	6E-03	1.2E-05	6E-04	9.5E-06		4.1E-06			1.6E-04	8E-03	1.7E-05	9E-04	1.4E-05		6.0E-06		
	Potassium	7440097	1,804	624	555	995	--	--		7.9E-03		8.5E-04		6.8E-04		2.9E-04			1.4E-02		1.5E-03		1.2E-03		5.2E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.52	0.46	0.47	0.48	5.0E-03	--		6.6E-06	1E-03	7.1E-07	1E-04	5.7E-07		2.4E-07			6.8E-06	1E-03	7.3E-07	1E-04	5.8E-07		2.5E-07		
	Sodium	7440235	262	115	97	158	--	--		1.4E-03		1.5E-04		1.2E-04		5.1E-05			2.2E-03		2.4E-04		1.9E-04		8.3E-05		
	Thallium	7440280	1.30	1.13	1.17	1.20	6.5E-05	--		1.7E-05	3E-01	1.8E-06	3E-02	1.4E-06		6.1E-07			1.7E-05	3E-01	1.8E-06	3E-02	1.5E-06		6.3E-07		
	Uranium	7440611	10.4	9.0	9.3	9.6	6.0E-04	--	(e)	1.3E-04	2E-01	1.4E-05	2E-02	1.1E-05		4.9E-06			1.4E-04	2E-01	1.5E-05	2E-02	1.2E-05		5.0E-06		
	Vanadium	7440622	33.7	20.4	20.7	24.9	7.0E-03	--		3.0E-04	4E-02	3.2E-05	5E-03	2.5E-05		1.1E-05			3.6E-04	5E-02	3.8E-05	5E-03	3.0E-05		1.3E-05		
	Zinc	7440666	55	36	34	42	3.0E-01	--		5.2E-04	2E-03	5.5E-05	2E-04	4.4E-05		1.9E-05			6.0E-04	2E-03	6.4E-05	2E-04	5.1E-05		2.2E-05		
									Total		**1E+00**		**1E-01**		**4E-06**		**2E-06**	**5E-06**				**1E-01**		**4E-06**		**2E-06**	**5E-06**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Year-Round

Exposure Area: Lincoln Mill Boat Ramp

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	1.42E-05	1.53E-06
Cancer:	1.22E-06	5.23E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	5,070	6,900	7,160	6,377	1.0E+00	--		7.2E-02	7E-02	7.7E-03	8E-03	6.2E-03		2.7E-03			9.8E-02	1E-01	1.1E-02	1E-02	8.4E-03		3.6E-03		
	Antimony	7440360	#N/A	#N/A	#N/A	#N/A	4.0E-04	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Arsenic	7440382	5.9	6.7	5.9	6.2	2.4E-04	1.9E+00	(j)	8.4E-05	4E-01	9.0E-06	4E-02	7.2E-06	1E-05	3.1E-06	6E-06	2E-05	9.5E-05	4E-01	1.0E-05	4E-02	8.2E-06	2E-05	3.5E-06	7E-06	2E-05
	Barium	7440393	35	34	61	43	2.0E-01	--		5.0E-04	2E-03	5.3E-05	3E-04	4.3E-05		1.8E-05			4.8E-04	2E-03	5.1E-05	3E-04	4.1E-05		1.8E-05		
	Beryllium	7440417	0.32	0.43	0.47	0.41	2.0E-03	--		4.6E-06	2E-03	4.9E-07	2E-04	3.9E-07		1.7E-07			6.1E-06	3E-03	6.6E-07	3E-04	5.3E-07		2.3E-07		
	Cadmium	7440439	0.24	0.06	0.06	0.12	1.0E-03	--	(a)	3.3E-06	3E-03	3.6E-07	4E-04	2.9E-07		1.2E-07			8.3E-07	8E-04	8.9E-08	9E-05	7.1E-08		3.0E-08		
	Calcium	7440702	10,300	15,100	11,500	12,300	--	--		1.5E-01		1.6E-02		1.3E-02		5.4E-03			2.2E-01		2.3E-02		1.8E-02		7.9E-03		
	Chromium	7440473	6.2	9.1	9.6	8.3	1.5E+00	--	(b)	8.8E-05	6E-05	9.5E-06	6E-06	7.6E-06		3.2E-06			1.3E-04	9E-05	1.4E-05	9E-06	1.1E-05		4.8E-06		
	Cobalt	7440484	3.0	3.5	14.2	6.9	3.0E-04	--		4.3E-05	1E-01	4.6E-06	2E-02	3.7E-06		1.6E-06			5.0E-05	2E-01	5.3E-06	2E-02	4.3E-06		1.8E-06		
	Copper	7440508	7	10	12	10	4.0E-02	--		1.0E-04	3E-03	1.1E-05	3E-04	8.9E-06		3.8E-06			1.4E-04	4E-03	1.5E-05	4E-04	1.2E-05		5.2E-06		
	Iron	7439896	10,200	12,600	14,200	12,333	7.0E-01	--		1.5E-01	2E-01	1.6E-02	2E-02	1.2E-02		5.3E-03			1.8E-01	3E-01	1.9E-02	3E-02	1.5E-02		6.6E-03		
	Lead	7439921	4	5	6	5			(c)																		
	Magnesium	7439954	5,320	6,240	6,530	6,030	--	--		7.6E-02		8.1E-03		6.5E-03		2.8E-03			8.9E-02		9.5E-03		7.6E-03		3.3E-03		
	Manganese	7439965	217	224	334	258	4.7E-02	--	(d)	3.1E-03	7E-02	3.3E-04	7E-03	2.6E-04		1.1E-04			3.2E-03	7E-02	3.4E-04	7E-03	2.7E-04		1.2E-04		
	Mercury	7439976	0.049	0.055	0.050	0.051	3.0E-04	--	(i)	7.0E-07	2E-03	7.5E-08	2E-04	6.0E-08		2.6E-08			7.8E-07	3E-03	8.4E-08	3E-04	6.7E-08		2.9E-08		
	Nickel	7440020	6.1	7.8	8.5	7.5	2.0E-02	--		8.7E-05	4E-03	9.3E-06	5E-04	7.4E-06		3.2E-06			1.1E-04	6E-03	1.2E-05	6E-04	9.5E-06		4.1E-06		
	Potassium	7440097	1,140	1,410	1,350	1,300	--	--		1.6E-02		1.7E-03		1.4E-03		6.0E-04			2.0E-02		2.2E-03		1.7E-03		7.4E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.47	0.49	0.47	0.47	5.0E-03	--		6.7E-06	1E-03	7.2E-07	1E-04	5.7E-07		2.5E-07			6.9E-06	1E-03	7.4E-07	1E-04	5.9E-07		2.5E-07		
	Sodium	7440235	57	97	98	84	--	--		8.1E-04		8.7E-05		7.0E-05		3.0E-05			1.4E-03		1.5E-04		1.2E-04		5.1E-05		
	Thallium	7440280	1.15	1.20	1.15	1.17	6.5E-05	--		1.6E-05	3E-01	1.8E-06	3E-02	1.4E-06		6.0E-07			1.7E-05	3E-01	1.8E-06	3E-02	1.5E-06		6.3E-07		
	Uranium	7440611	6.3	6.4	6.9	6.5	6.0E-04	--	(e)	9.0E-05	1E-01	9.6E-06	2E-02	7.7E-06		3.3E-06			9.1E-05	2E-01	9.8E-06	2E-02	7.8E-06		3.3E-06		
	Vanadium	7440622	8.4	10.8	13.4	10.9	7.0E-03	--		1.2E-04	2E-02	1.3E-05	2E-03	1.0E-05		4.4E-06			1.5E-04	2E-02	1.6E-05	2E-03	1.3E-05		5.7E-06		
	Zinc	7440666	27	30	36	31	3.0E-01	--		3.8E-04	1E-03	4.0E-05	1E-04	3.2E-05		1.4E-05			4.3E-04	1E-03	4.6E-05	2E-04	3.7E-05		1.6E-05		
								Total			**1E+00**		**1E-01**		**1E-05**		**6E-06**	**2E-05**				**2E-01**		**2E-05**		**7E-06**	**2E-05**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Year-Round

Exposure Area: Lincoln Mill Boat Ramp

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	1.42E-05	1.53E-06
Cancer:	1.22E-06	5.23E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	5,070	6,900	7,160	6,377	1.0E+00	--		1.0E-01	1E-01	1.1E-02	1E-02	8.7E-03		3.7E-03			9.1E-02	9E-02	9.7E-03	1E-02	7.8E-03		3.3E-03		
	Antimony	7440360	#N/A	#N/A	#N/A	#N/A	4.0E-04	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Arsenic	7440382	5.9	6.7	5.9	6.2	2.4E-04	1.9E+00	(j)	8.4E-05	4E-01	9.0E-06	4E-02	7.2E-06	1E-05	3.1E-06	6E-06	2E-05	8.8E-05	4E-01	9.4E-06	4E-02	7.5E-06	1E-05	3.2E-06	6E-06	2E-05
	Barium	7440393	35	34	61	43	2.0E-01	--		8.7E-04	4E-03	9.3E-05	5E-04	7.4E-05		3.2E-05			6.1E-04	3E-03	6.6E-05	3E-04	5.3E-05		2.3E-05		
	Beryllium	7440417	0.32	0.43	0.47	0.41	2.0E-03	--		6.7E-06	3E-03	7.2E-07	4E-04	5.7E-07		2.5E-07			5.8E-06	3E-03	6.2E-07	3E-04	5.0E-07		2.1E-07		
	Cadmium	7440439	0.24	0.06	0.06	0.12	1.0E-03	--	(a)	9.1E-07	9E-04	9.8E-08	1E-04	7.8E-08		3.3E-08			1.7E-06	2E-03	1.8E-07	2E-04	1.5E-07		6.2E-08		
	Calcium	7440702	10,300	15,100	11,500	12,300	--	--		1.6E-01		1.8E-02		1.4E-02		6.0E-03			1.8E-01		1.9E-02		1.5E-02		6.4E-03		
	Chromium	7440473	6.2	9.1	9.6	8.3	1.5E+00	--	(b)	1.4E-04	9E-05	1.5E-05	1E-05	1.2E-05		5.0E-06			1.2E-04	8E-05	1.3E-05	8E-06	1.0E-05		4.3E-06		
	Cobalt	7440484	3.0	3.5	14.2	6.9	3.0E-04	--		2.0E-04	7E-01	2.2E-05	7E-02	1.7E-05		7.4E-06			9.8E-05	3E-01	1.1E-05	4E-02	8.4E-06		3.6E-06		
	Copper	7440508	7	10	12	10	4.0E-02	--		1.6E-04	4E-03	1.8E-05	4E-04	1.4E-05		6.0E-06			1.4E-04	3E-03	1.5E-05	4E-04	1.2E-05		5.0E-06		
	Iron	7439896	10,200	12,600	14,200	12,333	7.0E-01	--		2.0E-01	3E-01	2.2E-02	3E-02	1.7E-02		7.4E-03			1.8E-01	3E-01	1.9E-02	3E-02	1.5E-02		6.5E-03		
	Lead	7439921	4	5	6	5			(c)																		
	Magnesium	7439954	5,320	6,240	6,530	6,030	--	--		9.3E-02		1.0E-02		8.0E-03		3.4E-03			8.6E-02		9.2E-03		7.4E-03		3.2E-03		
	Manganese	7439965	217	224	334	258	4.7E-02	--	(d)	4.8E-03	1E-01	5.1E-04	1E-02	4.1E-04		1.7E-04			3.7E-03	8E-02	3.9E-04	8E-03	3.2E-04		1.4E-04		
	Mercury	7439976	0.049	0.055	0.050	0.051	3.0E-04	--	(i)	7.1E-07	2E-03	7.6E-08	3E-04	6.1E-08		2.6E-08			7.3E-07	2E-03	7.8E-08	3E-04	6.3E-08		2.7E-08		
	Nickel	7440020	6.1	7.8	8.5	7.5	2.0E-02	--		1.2E-04	6E-03	1.3E-05	6E-04	1.0E-05		4.4E-06			1.1E-04	5E-03	1.1E-05	6E-04	9.1E-06		3.9E-06		
	Potassium	7440097	1,140	1,410	1,350	1,300	--	--		1.9E-02		2.1E-03		1.6E-03		7.1E-04			1.9E-02		2.0E-03		1.6E-03		6.8E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.47	0.49	0.47	0.47	5.0E-03	--		6.6E-06	1E-03	7.1E-07	1E-04	5.7E-07		2.4E-07			6.7E-06	1E-03	7.2E-07	1E-04	5.8E-07		2.5E-07		
	Sodium	7440235	57	97	98	84	--	--		1.4E-03		1.5E-04		1.2E-04		5.1E-05			1.2E-03		1.3E-04		1.0E-04		4.4E-05		
	Thallium	7440280	1.15	1.20	1.15	1.17	6.5E-05	--		1.6E-05	3E-01	1.8E-06	3E-02	1.4E-06		6.0E-07			1.7E-05	3E-01	1.8E-06	3E-02	1.4E-06		6.1E-07		
	Uranium	7440611	6.3	6.4	6.9	6.5	6.0E-04	--	(e)	9.8E-05	2E-01	1.1E-05	2E-02	8.4E-06		3.6E-06			9.3E-05	2E-01	1.0E-05	2E-02	8.0E-06		3.4E-06		
	Vanadium	7440622	8.4	10.8	13.4	10.9	7.0E-03	--		1.9E-04	3E-02	2.0E-05	3E-03	1.6E-05		7.0E-06			1.5E-04	2E-02	1.7E-05	2E-03	1.3E-05		5.7E-06		
	Zinc	7440666	27	30	36	31	3.0E-01	--		4.3E-04	1E-03	4.6E-05	2E-04	3.7E-05		1.6E-05			4.4E-04	1E-03	4.7E-05	2E-04	3.7E-05		1.6E-05		
									Total		**2E+00**		**2E-01**		**1E-05**		**6E-06**	**2E-05**		**2E+00**		**2E-01**		**1E-05**		**6E-06**	**2E-05**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:

(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Year-Round

Exposure Area: Marcus Island Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	1.42E-05	1.53E-06
Cancer:	1.22E-06	5.23E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	8,600	9,890	7,310	8,600	1.0E+00	--		1.2E-01	1E-01	1.3E-02	1E-02	1.1E-02		4.5E-03			1.4E-01	1E-01	1.5E-02	2E-02	1.2E-02		5.2E-03		
	Antimony	7440360	4.1	2.0	3.1	3.1	4.0E-04	--		5.8E-05	1E-01	6.2E-06	2E-02	4.9E-06		2.1E-06			2.8E-05	7E-02	3.1E-06	8E-03	2.4E-06		1.0E-06		
	Arsenic	7440382	6.5	8.6	3.9	6.3	2.4E-04	1.9E+00	(j)	9.3E-05	4E-01	9.9E-06	4E-02	7.9E-06	1E-05	3.4E-06	6E-06	2E-05	1.2E-04	5E-01	1.3E-05	5E-02	1.1E-05	2E-05	4.5E-06	8E-06	3E-05
	Barium	7440393	258	264	101	208	2.0E-01	--		3.7E-03	2E-02	3.9E-04	2E-03	3.2E-04		1.4E-04			3.8E-03	2E-02	4.0E-04	2E-03	3.2E-04		1.4E-04		
	Beryllium	7440417	0.48	0.56	0.36	0.47	2.0E-03	--		6.8E-06	3E-03	7.3E-07	4E-04	5.9E-07		2.5E-07			8.0E-06	4E-03	8.5E-07	4E-04	6.8E-07		2.9E-07		
	Cadmium	7440439	7.30	5.60	1.60	4.83	1.0E-03	--	(a)	1.0E-04	1E-01	1.1E-05	1E-02	8.9E-06		3.8E-06			8.0E-05	8E-02	8.5E-06	9E-03	6.8E-06		2.9E-06		
	Calcium	7440702	7,520	6,920	7,110	7,183	--	--		1.1E-01		1.1E-02		9.2E-03		3.9E-03			9.9E-02		1.1E-02		8.5E-03		3.6E-03		
	Chromium	7440473	19.7	19.9	14.0	17.9	1.5E+00	--	(b)	2.8E-04	2E-04	3.0E-05	2E-05	2.4E-05		1.0E-05			2.8E-04	2E-04	3.0E-05	2E-05	2.4E-05		1.0E-05		
	Cobalt	7440484	6.8	7.1	5.2	6.4	3.0E-04	--		9.7E-05	3E-01	1.0E-05	3E-02	8.3E-06		3.6E-06			1.0E-04	3E-01	1.1E-05	4E-02	8.7E-06		3.7E-06		
	Copper	7440508	50	58	14	41	4.0E-02	--		7.2E-04	2E-02	7.7E-05	2E-03	6.1E-05		2.6E-05			8.2E-04	2E-02	8.8E-05	2E-03	7.1E-05		3.0E-05		
	Iron	7439896	17,600	23,400	12,700	17,900	7.0E-01	--		2.5E-01	4E-01	2.7E-02	4E-02	2.1E-02		9.2E-03			3.3E-01	5E-01	3.6E-02	5E-02	2.9E-02		1.2E-02		
	Lead	7439921	297	202	52	184			(c)																		
	Magnesium	7439954	6,070	5,390	4,220	5,227	--	--		8.6E-02		9.3E-03		7.4E-03		3.2E-03			7.7E-02		8.2E-03		6.6E-03		2.8E-03		
	Manganese	7439965	214	246	170	210	4.7E-02	--	(d)	3.0E-03	7E-02	3.3E-04	7E-03	2.6E-04		1.1E-04			3.5E-03	8E-02	3.8E-04	8E-03	3.0E-04		1.3E-04		
	Mercury	7439976	0.810	0.470	0.078	0.453	3.0E-04	--	(i)	1.2E-05	4E-02	1.2E-06	4E-03	9.9E-07		4.2E-07			6.7E-06	2E-02	7.2E-07	2E-03	5.7E-07		2.5E-07		
	Nickel	7440020	16.3	16.8	12.9	15.3	2.0E-02	--		2.3E-04	1E-02	2.5E-05	1E-03	2.0E-05		8.5E-06			2.4E-04	1E-02	2.6E-05	1E-03	2.1E-05		8.8E-06		
	Potassium	7440097	1,010	1,020	1,070	1,033	--	--		1.4E-02		1.5E-03		1.2E-03		5.3E-04			1.5E-02		1.6E-03		1.2E-03		5.3E-04		
	Selenium	7782492	2.30	4.30	1.80	2.80	5.0E-03	--		3.3E-05	7E-03	3.5E-06	7E-04	2.8E-06		1.2E-06			6.1E-05	1E-02	6.6E-06	1E-03	5.3E-06		2.3E-06		
	Silver	7440224	0.70	0.65	0.50	0.62	5.0E-03	--		1.0E-05	2E-03	1.1E-06	2E-04	8.5E-07		3.7E-07			9.3E-06	2E-03	9.9E-07	2E-04	7.9E-07		3.4E-07		
	Sodium	7440235	86	134	96	105	--	--		1.2E-03		1.3E-04		1.1E-04		4.5E-05			1.9E-03		2.0E-04		1.6E-04		7.0E-05		
	Thallium	7440280	1.70	1.60	1.30	1.53	6.5E-05	--		2.4E-05	4E-01	2.6E-06	4E-02	2.1E-06		8.9E-07			2.3E-05	4E-01	2.4E-06	4E-02	2.0E-06		8.4E-07		
	Uranium	7440611	13.6	6.7	7.5	9.3	6.0E-04	--	(e)	1.9E-04	3E-01	2.1E-05	3E-02	1.7E-05		7.1E-06			9.5E-05	2E-01	1.0E-05	2E-02	8.2E-06		3.5E-06		
	Vanadium	7440622	24.4	28.5	18.6	23.8	7.0E-03	--		3.5E-04	5E-02	3.7E-05	5E-03	3.0E-05		1.3E-05			4.1E-04	6E-02	4.4E-05	6E-03	3.5E-05		1.5E-05		
	Zinc	7440666	915	620	186	574	3.0E-01	--		1.3E-02	4E-02	1.4E-03	5E-03	1.1E-03		4.8E-04			8.8E-03	3E-02	9.5E-04	3E-03	7.6E-04		3.2E-04		
									Total		**2E+00**		**3E-01**		**1E-05**		**6E-06**	**2E-05**		**2E+00**		**3E-01**		**2E-05**		**8E-06**	**3E-05**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**			

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Year-Round

Exposure Area: Marcus Island Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	1.42E-05	1.53E-06
Cancer:	1.22E-06	5.23E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	8,600	9,890	7,310	8,600	1.0E+00	--		1.0E-01	1E-01	1.1E-02	1E-02	8.9E-03		3.8E-03			1.2E-01	1E-01	1.3E-02	1E-02	1.1E-02		4.5E-03		
	Antimony	7440360	4.1	2.0	3.1	3.1	4.0E-04	--		4.4E-05	1E-01	4.7E-06	1E-02	3.8E-06		1.6E-06			4.3E-05	1E-01	4.7E-06	1E-02	3.7E-06		1.6E-06		
	Arsenic	7440382	6.5	8.6	3.9	6.3	2.4E-04	1.9E+00	(j)	5.6E-05	2E-01	6.0E-06	2E-02	4.8E-06	9E-06	2.0E-06	4E-06	1E-05	9.0E-05	4E-01	9.7E-06	4E-02	7.7E-06	1E-05	3.3E-06	6E-06	2E-05
	Barium	7440393	258	264	101	208	2.0E-01	--		1.4E-03	7E-03	1.5E-04	8E-04	1.2E-04		5.3E-05			3.0E-03	1E-02	3.2E-04	2E-03	2.5E-04		1.1E-04		
	Beryllium	7440417	0.48	0.56	0.36	0.47	2.0E-03	--		5.1E-06	3E-03	5.5E-07	3E-04	4.4E-07		1.9E-07			6.6E-06	3E-03	7.1E-07	4E-04	5.7E-07		2.4E-07		
	Cadmium	7440439	7.30	5.60	1.60	4.83	1.0E-03	--	(a)	2.3E-05	2E-02	2.4E-06	2E-03	2.0E-06		8.4E-07			6.9E-05	7E-02	7.4E-06	7E-03	5.9E-06		2.5E-06		
	Calcium	7440702	7,520	6,920	7,110	7,183	--	--		1.0E-01		1.1E-02		8.7E-03		3.7E-03			1.0E-01		1.1E-02		8.8E-03		3.8E-03		
	Chromium	7440473	19.7	19.9	14.0	17.9	1.5E+00	--	(b)	2.0E-04	1E-04	2.1E-05	1E-05	1.7E-05		7.3E-06			2.5E-04	2E-04	2.7E-05	2E-05	2.2E-05		9.4E-06		
	Cobalt	7440484	6.8	7.1	5.2	6.4	3.0E-04	--		7.4E-05	2E-01	7.9E-06	3E-02	6.3E-06		2.7E-06			9.1E-05	3E-01	9.7E-06	3E-02	7.8E-06		3.3E-06		
	Copper	7440508	50	58	14	41	4.0E-02	--		2.0E-04	5E-03	2.2E-05	5E-04	1.7E-05		7.4E-06			5.8E-04	1E-02	6.2E-05	2E-03	5.0E-05		2.1E-05		
	Iron	7439896	17,600	23,400	12,700	17,900	7.0E-01	--		1.8E-01	3E-01	1.9E-02	3E-02	1.6E-02		6.6E-03			2.6E-01	4E-01	2.7E-02	4E-02	2.2E-02		9.4E-03		
	Lead	7439921	297	202	52	184			(c)																		
	Magnesium	7439954	6,070	5,390	4,220	5,227	--	--		6.0E-02		6.4E-03		5.2E-03		2.2E-03			7.4E-02		8.0E-03		6.4E-03		2.7E-03		
	Manganese	7439965	214	246	170	210	4.7E-02	--	(d)	2.4E-03	5E-02	2.6E-04	6E-03	2.1E-04		8.9E-05			3.0E-03	6E-02	3.2E-04	7E-03	2.6E-04		1.1E-04		
	Mercury	7439976	0.810	0.470	0.078	0.453	3.0E-04	--	(i)	1.1E-06	4E-03	1.2E-07	4E-04	9.5E-08		4.1E-08			6.4E-06	2E-02	6.9E-07	2E-03	5.5E-07		2.4E-07		
	Nickel	7440020	16.3	16.8	12.9	15.3	2.0E-02	--		1.8E-04	9E-03	2.0E-05	1E-03	1.6E-05		6.8E-06			2.2E-04	1E-02	2.3E-05	1E-03	1.9E-05		8.0E-06		
	Potassium	7440097	1,010	1,020	1,070	1,033	--	--		1.5E-02		1.6E-03		1.3E-03		5.6E-04			1.5E-02		1.6E-03		1.3E-03		5.4E-04		
	Selenium	7782492	2.30	4.30	1.80	2.80	5.0E-03	--		2.6E-05	5E-03	2.7E-06	5E-04	2.2E-06		9.4E-07			4.0E-05	8E-03	4.3E-06	9E-04	3.4E-06		1.5E-06		
	Silver	7440224	0.70	0.65	0.50	0.62	5.0E-03	--		7.1E-06	1E-03	7.6E-07	2E-04	6.1E-07		2.6E-07			8.8E-06	2E-03	9.4E-07	2E-04	7.5E-07		3.2E-07		
	Sodium	7440235	86	134	96	105	--	--		1.4E-03		1.5E-04		1.2E-04		5.0E-05			1.5E-03		1.6E-04		1.3E-04		5.5E-05		
	Thallium	7440280	1.70	1.60	1.30	1.53	6.5E-05	--		1.9E-05	3E-01	2.0E-06	3E-02	1.6E-06		6.8E-07			2.2E-05	3E-01	2.3E-06	4E-02	1.9E-06		8.0E-07		
	Uranium	7440611	13.6	6.7	7.5	9.3	6.0E-04	--	(e)	1.1E-04	2E-01	1.1E-05	2E-02	9.2E-06		3.9E-06			1.3E-04	2E-01	1.4E-05	2E-02	1.1E-05		4.8E-06		
	Vanadium	7440622	24.4	28.5	18.6	23.8	7.0E-03	--		2.6E-04	4E-02	2.8E-05	4E-03	2.3E-05		9.7E-06			3.4E-04	5E-02	3.6E-05	5E-03	2.9E-05		1.2E-05		
	Zinc	7440666	915	620	186	574	3.0E-01	--		8.8E-03	3E-02	9.5E-04	3E-03	7.6E-04		3.2E-04			8.2E-03	3E-02	8.8E-04	3E-03	7.0E-04		3.0E-04		
								Total			**2E+00**		**2E-01**		**9E-06**		**4E-06**	**1E-05**		**2E+00**		**2E-01**		**1E-05**		**6E-06**	**2E-05**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Year-Round

Exposure Area: North Gorge Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	1.42E-05	1.53E-06
Cancer:	1.22E-06	5.23E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	7,060	7,880	4,350	6,430	1.0E+00	--		1.0E-01	1E-01	1.1E-02	1E-02	8.6E-03		3.7E-03			1.1E-01	1E-01	1.2E-02	1E-02	9.6E-03		4.1E-03		
	Antimony	7440360	6.4	3.6	0.5	3.5	4.0E-04	--		9.1E-05	2E-01	9.8E-06	2E-02	7.8E-06		3.3E-06			5.1E-05	1E-01	5.5E-06	1E-02	4.4E-06		1.9E-06		
	Arsenic	7440382	10.7	9.6	5.0	8.4	2.4E-04	1.9E+00	(j)	1.5E-04	6E-01	1.6E-05	7E-02	1.3E-05	2E-05	5.6E-06	1E-05	3E-05	1.4E-04	6E-01	1.5E-05	6E-02	1.2E-05	2E-05	5.0E-06	9E-06	3E-05
	Barium	7440393	407	315	102	275	2.0E-01	--		5.8E-03	3E-02	6.2E-04	3E-03	5.0E-04		2.1E-04			4.5E-03	2E-02	4.8E-04	2E-03	3.8E-04		1.6E-04		
	Beryllium	7440417	0.48	0.53	0.28	0.43	2.0E-03	--		6.8E-06	3E-03	7.3E-07	4E-04	5.9E-07		2.5E-07			7.6E-06	4E-03	8.1E-07	4E-04	6.5E-07		2.8E-07		
	Cadmium	7440439	4.20	4.20	1.10	3.17	1.0E-03	--	(a)	6.0E-05	6E-02	6.4E-06	6E-03	5.1E-06		2.2E-06			6.0E-05	6E-02	6.4E-06	6E-03	5.1E-06		2.2E-06		
	Calcium	7440702	24,700	15,400	6,090	15,397	--	--		3.5E-01		3.8E-02		3.0E-02		1.3E-02			2.2E-01		2.4E-02		1.9E-02		8.1E-03		
	Chromium	7440473	24.9	22.8	15.1	20.9	1.5E+00	--	(b)	3.5E-04	2E-04	3.8E-05	3E-05	3.0E-05		1.3E-05			3.2E-04	2E-04	3.5E-05	2E-05	2.8E-05		1.2E-05		
	Cobalt	7440484	9.8	8.5	4.3	7.5	3.0E-04	--		1.4E-04	5E-01	1.5E-05	5E-02	1.2E-05		5.1E-06			1.2E-04	4E-01	1.3E-05	4E-02	1.0E-05		4.4E-06		
	Copper	7440508	216	132	23	124	4.0E-02	--		3.1E-03	8E-02	3.3E-04	8E-03	2.6E-04		1.1E-04			1.9E-03	5E-02	2.0E-04	5E-03	1.6E-04		6.9E-05		
	Iron	7439896	29,500	23,500	16,000	23,000	7.0E-01	--		4.2E-01	6E-01	4.5E-02	6E-02	3.6E-02		1.5E-02			3.3E-01	5E-01	3.6E-02	5E-02	2.9E-02		1.2E-02		
	Lead	7439921	216	223	69	169			(c)																		
	Magnesium	7439954	13,900	10,200	4,140	9,413	--	--		2.0E-01		2.1E-02		1.7E-02		7.3E-03			1.5E-01		1.6E-02		1.2E-02		5.3E-03		
	Manganese	7439965	434	270	171	292	4.7E-02	--	(d)	6.2E-03	1E-01	6.6E-04	1E-02	5.3E-04		2.3E-04			3.8E-03	8E-02	4.1E-04	9E-03	3.3E-04		1.4E-04		
	Mercury	7439976	0.370	0.400	0.068	0.279	3.0E-04	--	(i)	5.3E-06	2E-02	5.6E-07	2E-03	4.5E-07		1.9E-07			5.7E-06	2E-02	6.1E-07	2E-03	4.9E-07		2.1E-07		
	Nickel	7440020	15.3	17.2	9.6	14.0	2.0E-02	--		2.2E-04	1E-02	2.3E-05	1E-03	1.9E-05		8.0E-06			2.5E-04	1E-02	2.6E-05	1E-03	2.1E-05		9.0E-06		
	Potassium	7440097	1,190	1,220	624	1,011	--	--		1.7E-02		1.8E-03		1.5E-03		6.2E-04			1.7E-02		1.9E-03		1.5E-03		6.4E-04		
	Selenium	7782492	3.00	2.70	1.10	2.27	5.0E-03	--		4.3E-05	9E-03	4.6E-06	9E-04	3.7E-06		1.6E-06			3.8E-05	8E-03	4.1E-06	8E-04	3.3E-06		1.4E-06		
	Silver	7440224	0.60	0.70	0.50	0.60	5.0E-03	--		8.5E-06	2E-03	9.2E-07	2E-04	7.3E-07		3.1E-07			1.0E-05	2E-03	1.1E-06	2E-04	8.5E-07		3.7E-07		
	Sodium	7440235	170	134	89	131	--	--		2.4E-03		2.6E-04		2.1E-04		8.9E-05			1.9E-03		2.0E-04		1.6E-04		7.0E-05		
	Thallium	7440280	1.55	1.70	1.30	1.52	6.5E-05	--		2.2E-05	3E-01	2.4E-06	4E-02	1.9E-06		8.1E-07			2.4E-05	4E-01	2.6E-06	4E-02	2.1E-06		8.9E-07		
	Uranium	7440611	14.2	11.2	5.7	10.4	6.0E-04	--	(e)	2.0E-04	3E-01	2.2E-05	4E-02	1.7E-05		7.4E-06			1.6E-04	3E-01	1.7E-05	3E-02	1.4E-05		5.9E-06		
	Vanadium	7440622	26.9	27.4	27.9	27.4	7.0E-03	--		3.8E-04	5E-02	4.1E-05	6E-03	3.3E-05		1.4E-05			3.9E-04	6E-02	4.2E-05	6E-03	3.3E-05		1.4E-05		
	Zinc	7440666	1,700	1,060	352	1,037	3.0E-01	--		2.4E-02	8E-02	2.6E-03	9E-03	2.1E-03		8.9E-04			1.5E-02	5E-02	1.6E-03	5E-03	1.3E-03		5.5E-04		
									Total		**3E+00**		**3E-01**		**2E-05**		**1E-05**	**3E-05**		**3E+00**		**3E-01**		**2E-05**		**9E-06**	**3E-05**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**			

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Year-Round

Exposure Area: North Gorge Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	1.42E-05	1.53E-06
Cancer:	1.22E-06	5.23E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	7,060	7,880	4,350	6,430	1.0E+00	--		6.2E-02	6E-02	6.6E-03	7E-03	5.3E-03		2.3E-03			9.2E-02	9E-02	9.8E-03	1E-02	7.9E-03		3.4E-03		
	Antimony	7440360	6.4	3.6	0.5	3.5	4.0E-04	--		6.7E-06	2E-02	7.2E-07	2E-03	5.7E-07		2.5E-07			5.0E-05	1E-01	5.3E-06	1E-02	4.3E-06		1.8E-06		
	Arsenic	7440382	10.7	9.6	5.0	8.4	2.4E-04	1.9E+00	(j)	7.1E-05	3E-01	7.6E-06	3E-02	6.1E-06	1E-05	2.6E-06	5E-06	2E-05	1.2E-04	5E-01	1.3E-05	5E-02	1.0E-05	2E-05	4.4E-06	8E-06	3E-05
	Barium	7440393	407	315	102	275	2.0E-01	--		1.5E-03	7E-03	1.6E-04	8E-04	1.2E-04		5.3E-05			3.9E-03	2E-02	4.2E-04	2E-03	3.4E-04		1.4E-04		
	Beryllium	7440417	0.48	0.53	0.28	0.43	2.0E-03	--		4.0E-06	2E-03	4.3E-07	2E-04	3.4E-07		1.5E-07			6.1E-06	3E-03	6.6E-07	3E-04	5.3E-07		2.3E-07		
	Cadmium	7440439	4.20	4.20	1.10	3.17	1.0E-03	--	(a)	1.6E-05	2E-02	1.7E-06	2E-03	1.3E-06		5.8E-07			4.5E-05	5E-02	4.8E-06	5E-03	3.9E-06		1.7E-06		
	Calcium	7440702	24,700	15,400	6,090	15,397	--	--		8.7E-02		9.3E-03		7.4E-03		3.2E-03			2.2E-01		2.4E-02		1.9E-02		8.1E-03		
	Chromium	7440473	24.9	22.8	15.1	20.9	1.5E+00	--	(b)	2.2E-04	1E-04	2.3E-05	2E-05	1.8E-05		7.9E-06			3.0E-04	2E-04	3.2E-05	2E-05	2.6E-05		1.1E-05		
	Cobalt	7440484	9.8	8.5	4.3	7.5	3.0E-04	--		6.1E-05	2E-01	6.6E-06	2E-02	5.3E-06		2.3E-06			1.1E-04	4E-01	1.1E-05	4E-02	9.2E-06		3.9E-06		
	Copper	7440508	216	132	23	124	4.0E-02	--		3.3E-04	8E-03	3.5E-05	9E-04	2.8E-05		1.2E-05			1.8E-03	4E-02	1.9E-04	5E-03	1.5E-04		6.5E-05		
	Iron	7439896	29,500	23,500	16,000	23,000	7.0E-01	--		2.3E-01	3E-01	2.4E-02	3E-02	2.0E-02		8.4E-03			3.3E-01	5E-01	3.5E-02	5E-02	2.8E-02		1.2E-02		
	Lead	7439921	216	223	69	169			(c)																		
	Magnesium	7439954	13,900	10,200	4,140	9,413	--	--		5.9E-02		6.3E-03		5.1E-03		2.2E-03			1.3E-01		1.4E-02		1.1E-02		4.9E-03		
	Manganese	7439965	434	270	171	292	4.7E-02	--	(d)	2.4E-03	5E-02	2.6E-04	6E-03	2.1E-04		8.9E-05			4.2E-03	9E-02	4.5E-04	1E-02	3.6E-04		1.5E-04		
	Mercury	7439976	0.370	0.400	0.068	0.279	3.0E-04	--	(i)	9.7E-07	3E-03	1.0E-07	3E-04	8.3E-08		3.6E-08			4.0E-06	1E-02	4.3E-07	1E-03	3.4E-07		1.5E-07		
	Nickel	7440020	15.3	17.2	9.6	14.0	2.0E-02	--		1.4E-04	7E-03	1.5E-05	7E-04	1.2E-05		5.0E-06			2.0E-04	1E-02	2.1E-05	1E-03	1.7E-05		7.3E-06		
	Potassium	7440097	1,190	1,220	624	1,011	--	--		8.9E-03		9.5E-04		7.6E-04		3.3E-04			1.4E-02		1.5E-03		1.2E-03		5.3E-04		
	Selenium	7782492	3.00	2.70	1.10	2.27	5.0E-03	--		1.6E-05	3E-03	1.7E-06	3E-04	1.3E-06		5.8E-07			3.2E-05	6E-03	3.5E-06	7E-04	2.8E-06		1.2E-06		
	Silver	7440224	0.60	0.70	0.50	0.60	5.0E-03	--		7.1E-06	1E-03	7.6E-07	2E-04	6.1E-07		2.6E-07			8.5E-06	2E-03	9.2E-07	2E-04	7.3E-07		3.1E-07		
	Sodium	7440235	170	134	89	131	--	--		1.3E-03		1.4E-04		1.1E-04		4.6E-05			1.9E-03		2.0E-04		1.6E-04		6.8E-05		
	Thallium	7440280	1.55	1.70	1.30	1.52	6.5E-05	--		1.9E-05	3E-01	2.0E-06	3E-02	1.6E-06		6.8E-07			2.2E-05	3E-01	2.3E-06	4E-02	1.9E-06		7.9E-07		
	Uranium	7440611	14.2	11.2	5.7	10.4	6.0E-04	--	(e)	8.1E-05	1E-01	8.7E-06	1E-02	7.0E-06		3.0E-06			1.5E-04	2E-01	1.6E-05	3E-02	1.3E-05		5.4E-06		
	Vanadium	7440622	26.9	27.4	27.9	27.4	7.0E-03	--		4.0E-04	6E-02	4.3E-05	6E-03	3.4E-05		1.5E-05			3.9E-04	6E-02	4.2E-05	6E-03	3.3E-05		1.4E-05		
	Zinc	7440666	1,700	1,060	352	1,037	3.0E-01	--		1.5E-02	5E-02	1.6E-03	5E-03	1.3E-03		5.5E-04			1.5E-02	5E-02	1.6E-03	5E-03	1.3E-03		5.4E-04		
									Total		2E+00		2E-01		1E-05		5E-06	2E-05		2E+00		3E-01		2E-05		8E-06	3E-05
										Total HQ or Risks > LOPC?: Yes									Total HQ or Risks > LOPC?: Yes								

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Year-Round

Exposure Area: Northport Boat Launch

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	1.42E-05	1.53E-06
Cancer:	1.22E-06	5.23E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	11,923	12,493	9,843	11,420	1.0E+00	--		1.7E-01	2E-01	1.8E-02	2E-02	1.5E-02		6.2E-03			1.8E-01	2E-01	1.9E-02	2E-02	1.5E-02		6.5E-03		
	Antimony	7440360	22.9	27.2	21.5	23.9	4.0E-04	--		3.3E-04	8E-01	3.5E-05	9E-02	2.8E-05		1.2E-05			3.9E-04	1E+00	4.2E-05	1E-01	3.3E-05		1.4E-05		
	Arsenic	7440382	17.3	14.3	10.7	14.1	2.4E-04	1.9E+00	(j)	2.5E-04	1E+00	2.6E-05	1E-01	2.1E-05	4E-05	9.1E-06	2E-05	6E-05	2.0E-04	9E-01	2.2E-05	9E-02	1.8E-05	3E-05	7.5E-06	1E-05	5E-05
	Barium	7440393	1,062	1,036	848	982	2.0E-01	--		1.5E-02	8E-02	1.6E-03	8E-03	1.3E-03		5.6E-04			1.5E-02	7E-02	1.6E-03	8E-03	1.3E-03		5.4E-04		
	Beryllium	7440417	0.94	0.94	0.82	0.90	2.0E-03	--		1.3E-05	7E-03	1.4E-06	7E-04	1.1E-06		4.9E-07			1.3E-05	7E-03	1.4E-06	7E-04	1.1E-06		4.9E-07		
	Cadmium	7440439	2.99	2.39	2.25	2.54	1.0E-03	--	(a)	4.3E-05	4E-02	4.6E-06	5E-03	3.7E-06		1.6E-06			3.4E-05	3E-02	3.6E-06	4E-03	2.9E-06		1.3E-06		
	Calcium	7440702	52,267	49,967	37,967	46,733	--	--		7.4E-01		8.0E-02		6.4E-02		2.7E-02			7.1E-01		7.6E-02		6.1E-02		2.6E-02		
	Chromium	7440473	68.4	66.2	50.7	61.8	1.5E+00	--	(b)	9.7E-04	6E-04	1.0E-04	7E-05	8.4E-05		3.6E-05			9.4E-04	6E-04	1.0E-04	7E-05	8.1E-05		3.5E-05		
	Cobalt	7440484	27.4	27.5	21.5	25.5	3.0E-04	--		3.9E-04	1E+00	4.2E-05	1E-01	3.3E-05		1.4E-05			3.9E-04	1E+00	4.2E-05	1E-01	3.4E-05		1.4E-05		
	Copper	7440508	1,382	1,182	833	1,132	4.0E-02	--		2.0E-02	5E-01	2.1E-03	5E-02	1.7E-03		7.2E-04			1.7E-02	4E-01	1.8E-03	5E-02	1.4E-03		6.2E-04		
	Iron	7439896	113,367	108,233	75,267	98,956	7.0E-01	--		1.6E+00	2E+00	1.7E-01	2E-01	1.4E-01		5.9E-02			1.5E+00	2E+00	1.7E-01	2E-01	1.3E-01		5.7E-02		
	Lead	7439921	309	256	186	250			(c)																		
	Magnesium	7439954	12,000	12,357	11,447	11,934	--	--		1.7E-01		1.8E-02		1.5E-02		6.3E-03			1.8E-01		1.9E-02		1.5E-02		6.5E-03		
	Manganese	7439965	2,138	2,004	1,446	1,862	4.7E-02	--	(d)	3.0E-02	7E-01	3.3E-03	7E-02	2.6E-03		1.1E-03			2.9E-02	6E-01	3.1E-03	7E-02	2.4E-03		1.0E-03		
	Mercury	7439976	0.102	0.099	0.075	0.092	3.0E-04	--	(i)	1.5E-06	5E-03	1.6E-07	5E-04	1.2E-07		5.4E-08			1.4E-06	5E-03	1.5E-07	5E-04	1.2E-07		5.2E-08		
	Nickel	7440020	13.3	13.0	12.8	13.1	2.0E-02	--		1.9E-04	9E-03	2.0E-05	1E-03	1.6E-05		7.0E-06			1.9E-04	9E-03	2.0E-05	1E-03	1.6E-05		6.8E-06		
	Potassium	7440097	2,410	2,403	1,943	2,252	--	--		3.4E-02		3.7E-03		2.9E-03		1.3E-03			3.4E-02		3.7E-03		2.9E-03		1.3E-03		
	Selenium	7782492	1.82	1.75	1.90	1.82	5.0E-03	--		2.6E-05	5E-03	2.8E-06	6E-04	2.2E-06		9.5E-07			2.5E-05	5E-03	2.7E-06	5E-04	2.1E-06		9.2E-07		
	Silver	7440224	0.53	0.51	0.53	0.52	5.0E-03	--		7.5E-06	1E-03	8.0E-07	2E-04	6.4E-07		2.7E-07			7.2E-06	1E-03	7.8E-07	2E-04	6.2E-07		2.7E-07		
	Sodium	7440235	1,130	1,147	767	1,015	--	--		1.6E-02		1.7E-03		1.4E-03		5.9E-04			1.6E-02		1.8E-03		1.4E-03		6.0E-04		
	Thallium	7440280	1.30	1.27	1.37	1.31	6.5E-05	--		1.9E-05	3E-01	2.0E-06	3E-02	1.6E-06		6.8E-07			1.8E-05	3E-01	1.9E-06	3E-02	1.5E-06		6.6E-07		
	Uranium	7440611	10.5	10.1	10.9	10.5	6.0E-04	--	(e)	1.5E-04	2E-01	1.6E-05	3E-02	1.3E-05		5.5E-06			1.4E-04	2E-01	1.5E-05	3E-02	1.2E-05		5.3E-06		
	Vanadium	7440622	28.4	31.2	27.9	29.1	7.0E-03	--		4.0E-04	6E-02	4.3E-05	6E-03	3.5E-05		1.5E-05			4.4E-04	6E-02	4.8E-05	7E-03	3.8E-05		1.6E-05		
	Zinc	7440666	9,623	8,543	5,947	8,038	3.0E-01	--		1.4E-01	5E-01	1.5E-02	5E-02	1.2E-02		5.0E-03			1.2E-01	4E-01	1.3E-02	4E-02	1.0E-02		4.5E-03		
								Total			**8E+00**		**9E-01**		**4E-05**		**2E-05**	**6E-05**		**8E+00**		**8E-01**		**3E-05**		**1E-05**	**5E-05**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Year-Round

Exposure Area: Northport Boat Launch

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	1.42E-05	1.53E-06
Cancer:	1.22E-06	5.23E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	11,923	12,493	9,843	11,420	1.0E+00	--		1.4E-01	1E-01	1.5E-02	2E-02	1.2E-02		5.2E-03			1.6E-01	2E-01	1.7E-02	2E-02	1.4E-02		6.0E-03		
	Antimony	7440360	22.9	27.2	21.5	23.9	4.0E-04	--		3.1E-04	8E-01	3.3E-05	8E-02	2.6E-05		1.1E-05			3.4E-04	9E-01	3.6E-05	9E-02	2.9E-05		1.3E-05		
	Arsenic	7440382	17.3	14.3	10.7	14.1	2.4E-04	1.9E+00	(j)	1.5E-04	6E-01	1.6E-05	7E-02	1.3E-05	2E-05	5.6E-06	1E-05	3E-05	2.0E-04	8E-01	2.2E-05	9E-02	1.7E-05	3E-05	7.4E-06	1E-05	5E-05
	Barium	7440393	1,062	1,036	848	982	2.0E-01	--		1.2E-02	6E-02	1.3E-03	6E-03	1.0E-03		4.4E-04			1.4E-02	7E-02	1.5E-03	7E-03	1.2E-03		5.1E-04		
	Beryllium	7440417	0.94	0.94	0.82	0.90	2.0E-03	--		1.2E-05	6E-03	1.3E-06	6E-04	1.0E-06		4.3E-07			1.3E-05	6E-03	1.4E-06	7E-04	1.1E-06		4.7E-07		
	Cadmium	7440439	2.99	2.39	2.25	2.54	1.0E-03	--	(a)	3.2E-05	3E-02	3.4E-06	3E-03	2.7E-06		1.2E-06			3.6E-05	4E-02	3.9E-06	4E-03	3.1E-06		1.3E-06		
	Calcium	7440702	52,267	49,967	37,967	46,733	--	--		5.4E-01		5.8E-02		4.6E-02		2.0E-02			6.7E-01		7.1E-02		5.7E-02		2.4E-02		
	Chromium	7440473	68.4	66.2	50.7	61.8	1.5E+00	--	(b)	7.2E-04	5E-04	7.7E-05	5E-05	6.2E-05		2.7E-05			8.8E-04	6E-04	9.4E-05	6E-05	7.5E-05		3.2E-05		
	Cobalt	7440484	27.4	27.5	21.5	25.5	3.0E-04	--		3.1E-04	1E+00	3.3E-05	1E-01	2.6E-05		1.1E-05			3.6E-04	1E+00	3.9E-05	1E-01	3.1E-05		1.3E-05		
	Copper	7440508	1,382	1,182	833	1,132	4.0E-02	--		1.2E-02	3E-01	1.3E-03	3E-02	1.0E-03		4.4E-04			1.6E-02	4E-01	1.7E-03	4E-02	1.4E-03		5.9E-04		
	Iron	7439896	113,367	108,233	75,267	98,956	7.0E-01	--		1.1E+00	2E+00	1.1E-01	2E-01	9.2E-02		3.9E-02			1.4E+00	2E+00	1.5E-01	2E-01	1.2E-01		5.2E-02		
	Lead	7439921	309	256	186	250			(c)																		
	Magnesium	7439954	12,000	12,357	11,447	11,934	--	--		1.6E-01		1.7E-02		1.4E-02		6.0E-03			1.7E-01		1.8E-02		1.5E-02		6.2E-03		
	Manganese	7439965	2,138	2,004	1,446	1,862	4.7E-02	--	(d)	2.1E-02	4E-01	2.2E-03	5E-02	1.8E-03		7.6E-04			2.7E-02	6E-01	2.8E-03	6E-02	2.3E-03		9.7E-04		
	Mercury	7439976	0.102	0.099	0.075	0.092	3.0E-04	--	(i)	1.1E-06	4E-03	1.1E-07	4E-04	9.1E-08		3.9E-08			1.3E-06	4E-03	1.4E-07	5E-04	1.1E-07		4.8E-08		
	Nickel	7440020	13.3	13.0	12.8	13.1	2.0E-02	--		1.8E-04	9E-03	2.0E-05	1E-03	1.6E-05		6.7E-06			1.9E-04	9E-03	2.0E-05	1E-03	1.6E-05		6.8E-06		
	Potassium	7440097	2,410	2,403	1,943	2,252	--	--		2.8E-02		3.0E-03		2.4E-03		1.0E-03			3.2E-02		3.4E-03		2.8E-03		1.2E-03		
	Selenium	7782492	1.82	1.75	1.90	1.82	5.0E-03	--		2.7E-05	5E-03	2.9E-06	6E-04	2.3E-06		9.9E-07			2.6E-05	5E-03	2.8E-06	6E-04	2.2E-06		9.5E-07		
	Silver	7440224	0.53	0.51	0.53	0.52	5.0E-03	--		7.6E-06	2E-03	8.1E-07	2E-04	6.5E-07		2.8E-07			7.4E-06	1E-03	8.0E-07	2E-04	6.4E-07		2.7E-07		
	Sodium	7440235	1,130	1,147	767	1,015	--	--		1.1E-02		1.2E-03		9.4E-04		4.0E-04			1.4E-02		1.5E-03		1.2E-03		5.3E-04		
	Thallium	7440280	1.30	1.27	1.37	1.31	6.5E-05	--		1.9E-05	3E-01	2.1E-06	3E-02	1.7E-06		7.2E-07			1.9E-05	3E-01	2.0E-06	3E-02	1.6E-06		6.9E-07		
	Uranium	7440611	10.5	10.1	10.9	10.5	6.0E-04	--	(e)	1.6E-04	3E-01	1.7E-05	3E-02	1.3E-05		5.7E-06			1.5E-04	2E-01	1.6E-05	3E-02	1.3E-05		5.5E-06		
	Vanadium	7440622	28.4	31.2	27.9	29.1	7.0E-03	--		4.0E-04	6E-02	4.3E-05	6E-03	3.4E-05		1.5E-05			4.2E-04	6E-02	4.4E-05	6E-03	3.6E-05		1.5E-05		
	Zinc	7440666	9,623	8,543	5,947	8,038	3.0E-01	--		1.2E-01	4E-01	1.3E-02	4E-02	1.0E-02		4.5E-03			1.1E-01	4E-01	1.2E-02	4E-02	9.8E-03		4.2E-03		
								Total			**6E+00**		**6E-01**		**2E-05**		**1E-05**	**3E-05**		**7E+00**		**8E-01**		**3E-05**		**1E-05**	**5E-05**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Year-Round

Exposure Area: Rogers Bar Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	1.42E-05	1.53E-06
Cancer:	1.22E-06	5.23E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	2,760	5,810	4,810	4,460	1.0E+00	--		3.9E-02	4E-02	4.2E-03	4E-03	3.4E-03		1.4E-03			8.3E-02	8E-02	8.9E-03	9E-03	7.1E-03		3.0E-03		
	Antimony	7440360	#N/A	#N/A	#N/A	#N/A	4.0E-04	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Arsenic	7440382	0.5	1.9	2.2	1.5	2.4E-04	1.9E+00	(j)	6.9E-06	3E-02	7.4E-07	3E-03	5.9E-07	1E-06	2.5E-07	5E-07	2E-06	2.7E-05	1E-01	2.9E-06	1E-02	2.3E-06	4E-06	9.9E-07	2E-06	6E-06
	Barium	7440393	21	53	38	37	2.0E-01	--		2.9E-04	1E-03	3.1E-05	2E-04	2.5E-05		1.1E-05			7.6E-04	4E-03	8.1E-05	4E-04	6.5E-05		2.8E-05		
	Beryllium	7440417	0.21	0.44	0.37	0.34	2.0E-03	--		3.0E-06	1E-03	3.2E-07	2E-04	2.6E-07		1.1E-07			6.3E-06	3E-03	6.7E-07	3E-04	5.4E-07		2.3E-07		
	Cadmium	7440439	0.06	0.11	0.22	0.13	1.0E-03	--	(a)	8.0E-07	8E-04	8.5E-08	9E-05	6.8E-08		2.9E-08			1.6E-06	2E-03	1.7E-07	2E-04	1.3E-07		5.8E-08		
	Calcium	7440702	1,670	1,700	1,580	1,650	--	--		2.4E-02		2.5E-03		2.0E-03		8.7E-04			2.4E-02		2.6E-03		2.1E-03		8.9E-04		
	Chromium	7440473	5.7	13.2	9.6	9.5	1.5E+00	--	(b)	8.1E-05	5E-05	8.7E-06	6E-06	7.0E-06		3.0E-06			1.9E-04	1E-04	2.0E-05	1E-05	1.6E-05		6.9E-06		
	Cobalt	7440484	2.1	4.1	3.7	3.3	3.0E-04	--		3.0E-05	1E-01	3.2E-06	1E-02	2.6E-06		1.1E-06			5.8E-05	2E-01	6.3E-06	2E-02	5.0E-06		2.1E-06		
	Copper	7440508	5	9	7	7	4.0E-02	--		7.0E-05	2E-03	7.5E-06	2E-04	6.0E-06		2.6E-06			1.3E-04	3E-03	1.4E-05	3E-04	1.1E-05		4.7E-06		
	Iron	7439896	4,930	9,800	9,720	8,150	7.0E-01	--		7.0E-02	1E-01	7.5E-03	1E-02	6.0E-03		2.6E-03			1.4E-01	2E-01	1.5E-02	2E-02	1.2E-02		5.1E-03		
	Lead	7439921	3	5	5	5			(c)																		
	Magnesium	7439954	1,540	2,590	2,390	2,173	--	--		2.2E-02		2.4E-03		1.9E-03		8.1E-04			3.7E-02		4.0E-03		3.2E-03		1.4E-03		
	Manganese	7439965	95	157	134	129	4.7E-02	--	(d)	1.4E-03	3E-02	1.5E-04	3E-03	1.2E-04		5.0E-05			2.2E-03	5E-02	2.4E-04	5E-03	1.9E-04		8.2E-05		
	Mercury	7439976	0.050	0.055	0.050	0.052	3.0E-04	--	(i)	7.1E-07	2E-03	7.6E-08	3E-04	6.1E-08		2.6E-08			7.8E-07	3E-03	8.4E-08	3E-04	6.7E-08		2.9E-08		
	Nickel	7440020	5.1	10.2	9.0	8.1	2.0E-02	--		7.3E-05	4E-03	7.8E-06	4E-04	6.2E-06		2.7E-06			1.5E-04	7E-03	1.6E-05	8E-04	1.2E-05		5.3E-06		
	Potassium	7440097	317	719	519	518	--	--		4.5E-03		4.8E-04		3.9E-04		1.7E-04			1.0E-02		1.1E-03		8.8E-04		3.8E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.49	0.55	0.50	0.51	5.0E-03	--		6.9E-06	1E-03	7.4E-07	1E-04	5.9E-07		2.5E-07			7.8E-06	2E-03	8.4E-07	2E-04	6.7E-07		2.9E-07		
	Sodium	7440235	58	98	88	81	--	--		8.3E-04		8.9E-05		7.1E-05		3.1E-05			1.4E-03		1.5E-04		1.2E-04		5.1E-05		
	Thallium	7440280	1.20	1.35	1.25	1.27	6.5E-05	--		1.7E-05	3E-01	1.8E-06	3E-02	1.5E-06		6.3E-07			1.9E-05	3E-01	2.1E-06	3E-02	1.6E-06		7.1E-07		
	Uranium	7440611	9.7	9.8	10.1	9.9	6.0E-04	--	(e)	1.4E-04	2E-01	1.5E-05	2E-02	1.2E-05		5.1E-06			1.4E-04	2E-01	1.5E-05	2E-02	1.2E-05		5.1E-06		
	Vanadium	7440622	8.7	16.2	16.7	13.9	7.0E-03	--		1.2E-04	2E-02	1.3E-05	2E-03	1.1E-05		4.6E-06			2.3E-04	3E-02	2.5E-05	4E-03	2.0E-05		8.5E-06		
	Zinc	7440666	21	33	47	34	3.0E-01	--		3.0E-04	1E-03	3.3E-05	1E-04	2.6E-05		1.1E-05			4.7E-04	2E-03	5.0E-05	2E-04	4.0E-05		1.7E-05		
									Total		**8E-01**		**9E-02**		**1E-06**		**5E-07**	**2E-06**		**1E+00**		**1E-01**		**4E-06**		**2E-06**	**6E-06**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Year-Round

Exposure Area: Rogers Bar Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	1.42E-05	1.53E-06
Cancer:	1.22E-06	5.23E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	2,760	5,810	4,810	4,460	1.0E+00	--		6.9E-02	7E-02	7.3E-03	7E-03	5.9E-03		2.5E-03			6.4E-02	6E-02	6.8E-03	7E-03	5.4E-03		2.3E-03		
	Antimony	7440360	#N/A	#N/A	#N/A	#N/A	4.0E-04	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Arsenic	7440382	0.5	1.9	2.2	1.5	2.4E-04	1.9E+00	(j)	3.1E-05	1E-01	3.4E-06	1E-02	2.7E-06	5E-06	1.2E-06	2E-06	7E-06	2.2E-05	9E-02	2.3E-06	1E-02	1.9E-06	3E-06	8.0E-07	1E-06	5E-06
	Barium	7440393	21	53	38	37	2.0E-01	--		5.4E-04	3E-03	5.8E-05	3E-04	4.6E-05		2.0E-05			5.3E-04	3E-03	5.7E-05	3E-04	4.5E-05		1.9E-05		
	Beryllium	7440417	0.21	0.44	0.37	0.34	2.0E-03	--		5.3E-06	3E-03	5.6E-07	3E-04	4.5E-07		1.9E-07			4.8E-06	2E-03	5.2E-07	3E-04	4.2E-07		1.8E-07		
	Cadmium	7440439	0.06	0.11	0.22	0.13	1.0E-03	--	(a)	3.1E-06	3E-03	3.4E-07	3E-04	2.7E-07		1.2E-07			1.8E-06	2E-03	2.0E-07	2E-04	1.6E-07		6.7E-08		
	Calcium	7440702	1,670	1,700	1,580	1,650	--	--		2.3E-02		2.4E-03		1.9E-03		8.3E-04			2.4E-02		2.5E-03		2.0E-03		8.6E-04		
	Chromium	7440473	5.7	13.2	9.6	9.5	1.5E+00	--	(b)	1.4E-04	9E-05	1.5E-05	1E-05	1.2E-05		5.0E-06			1.4E-04	9E-05	1.5E-05	1E-05	1.2E-05		5.0E-06		
	Cobalt	7440484	2.1	4.1	3.7	3.3	3.0E-04	--		5.3E-05	2E-01	5.6E-06	2E-02	4.5E-06		1.9E-06			4.7E-05	2E-01	5.0E-06	2E-02	4.0E-06		1.7E-06		
	Copper	7440508	5	9	7	7	4.0E-02	--		1.1E-04	3E-03	1.1E-05	3E-04	9.0E-06		3.9E-06			1.0E-04	3E-03	1.1E-05	3E-04	8.7E-06		3.7E-06		
	Iron	7439896	4,930	9,800	9,720	8,150	7.0E-01	--		1.4E-01	2E-01	1.5E-02	2E-02	1.2E-02		5.1E-03			1.2E-01	2E-01	1.2E-02	2E-02	1.0E-02		4.3E-03		
	Lead	7439921	3	5	5	5			(c)																		
	Magnesium	7439954	1,540	2,590	2,390	2,173	--	--		3.4E-02		3.6E-03		2.9E-03		1.3E-03			3.1E-02		3.3E-03		2.7E-03		1.1E-03		
	Manganese	7439965	95	157	134	129	4.7E-02	--	(d)	1.9E-03	4E-02	2.0E-04	4E-03	1.6E-04		7.0E-05			1.8E-03	4E-02	2.0E-04	4E-03	1.6E-04		6.7E-05		
	Mercury	7439976	0.050	0.055	0.050	0.052	3.0E-04	--	(i)	7.1E-07	2E-03	7.6E-08	3E-04	6.1E-08		2.6E-08			7.4E-07	2E-03	7.9E-08	3E-04	6.3E-08		2.7E-08		
	Nickel	7440020	5.1	10.2	9.0	8.1	2.0E-02	--		1.3E-04	6E-03	1.4E-05	7E-04	1.1E-05		4.7E-06			1.2E-04	6E-03	1.2E-05	6E-04	9.9E-06		4.2E-06		
	Potassium	7440097	317	719	519	518	--	--		7.4E-03		7.9E-04		6.3E-04		2.7E-04			7.4E-03		7.9E-04		6.3E-04		2.7E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.49	0.55	0.50	0.51	5.0E-03	--		7.1E-06	1E-03	7.6E-07	2E-04	6.1E-07		2.6E-07			7.3E-06	1E-03	7.8E-07	2E-04	6.2E-07		2.7E-07		
	Sodium	7440235	58	98	88	81	--	--		1.2E-03		1.3E-04		1.1E-04		4.6E-05			1.2E-03		1.2E-04		9.9E-05		4.3E-05		
	Thallium	7440280	1.20	1.35	1.25	1.27	6.5E-05	--		1.8E-05	3E-01	1.9E-06	3E-02	1.5E-06		6.5E-07			1.8E-05	3E-01	1.9E-06	3E-02	1.5E-06		6.6E-07		
	Uranium	7440611	9.7	9.8	10.1	9.9	6.0E-04	--	(e)	1.4E-04	2E-01	1.5E-05	3E-02	1.2E-05		5.3E-06			1.4E-04	2E-01	1.5E-05	3E-02	1.2E-05		5.2E-06		
	Vanadium	7440622	8.7	16.2	16.7	13.9	7.0E-03	--		2.4E-04	3E-02	2.5E-05	4E-03	2.0E-05		8.7E-06			2.0E-04	3E-02	2.1E-05	3E-03	1.7E-05		7.3E-06		
	Zinc	7440666	21	33	47	34	3.0E-01	--		4.7E-04	2E-03	5.0E-05	2E-04	4.0E-05		1.7E-05			4.8E-04	2E-03	5.2E-05	2E-04	4.1E-05		1.8E-05		
									Total		**1E+00**		**1E-01**		**5E-06**		**2E-06**	**7E-06**		**1E+00**		**1E-01**		**3E-06**		**1E-06**	**5E-06**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:

(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Year-Round

Exposure Area: Spring Canyon Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	1.42E-05	1.53E-06
Cancer:	1.22E-06	5.23E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	8,310	7,800	7,150	7,753	1.0E+00	--		1.2E-01	1E-01	1.3E-02	1E-02	1.0E-02		4.3E-03			1.1E-01	1E-01	1.2E-02	1E-02	9.5E-03		4.1E-03		
	Antimony	7440360	0.8	1.1	1.0	1.0	4.0E-04	--		1.1E-05	3E-02	1.2E-06	3E-03	9.6E-07		4.1E-07			1.6E-05	4E-02	1.7E-06	4E-03	1.3E-06		5.8E-07		
	Arsenic	7440382	10.3	7.5	8.5	8.8	2.4E-04	1.9E+00	(j)	1.5E-04	6E-01	1.6E-05	7E-02	1.3E-05	2E-05	5.4E-06	1E-05	3E-05	1.1E-04	4E-01	1.1E-05	5E-02	9.2E-06	2E-05	3.9E-06	7E-06	2E-05
	Barium	7440393	51	52	41	48	2.0E-01	--		7.3E-04	4E-03	7.8E-05	4E-04	6.2E-05		2.7E-05			7.3E-04	4E-03	7.9E-05	4E-04	6.3E-05		2.7E-05		
	Beryllium	7440417	0.64	0.60	0.53	0.59	2.0E-03	--		9.1E-06	5E-03	9.8E-07	5E-04	7.8E-07		3.3E-07			8.5E-06	4E-03	9.2E-07	5E-04	7.3E-07		3.1E-07		
	Cadmium	7440439	0.26	0.26	0.26	0.26	1.0E-03	--	(a)	3.7E-06	4E-03	4.0E-07	4E-04	3.2E-07		1.4E-07			3.6E-06	4E-03	3.9E-07	4E-04	3.1E-07		1.3E-07		
	Calcium	7440702	1,960	1,810	5,990	3,253	--	--		2.8E-02		3.0E-03		2.4E-03		1.0E-03			2.6E-02		2.8E-03		2.2E-03		9.5E-04		
	Chromium	7440473	9.6	9.7	9.0	9.4	1.5E+00	--	(b)	1.4E-04	9E-05	1.5E-05	1E-05	1.2E-05		5.0E-06			1.4E-04	9E-05	1.5E-05	1E-05	1.2E-05		5.1E-06		
	Cobalt	7440484	4.4	4.1	3.7	4.1	3.0E-04	--		6.3E-05	2E-01	6.7E-06	2E-02	5.4E-06		2.3E-06			5.8E-05	2E-01	6.3E-06	2E-02	5.0E-06		2.1E-06		
	Copper	7440508	7	6	7	6	4.0E-02	--		1.0E-04	3E-03	1.1E-05	3E-04	8.7E-06		3.7E-06			7.8E-05	2E-03	8.4E-06	2E-04	6.7E-06		2.9E-06		
	Iron	7439896	15,400	14,900	14,300	14,867	7.0E-01	--		2.2E-01	3E-01	2.4E-02	3E-02	1.9E-02		8.1E-03			2.1E-01	3E-01	2.3E-02	3E-02	1.8E-02		7.8E-03		
	Lead	7439921	7	7	6	7			(c)																		
	Magnesium	7439954	5,880	5,590	5,360	5,610	--	--		8.4E-02		9.0E-03		7.2E-03		3.1E-03			8.0E-02		8.5E-03		6.8E-03		2.9E-03		
	Manganese	7439965	227	208	226	220	4.7E-02	--	(d)	3.2E-03	7E-02	3.5E-04	7E-03	2.8E-04		1.2E-04			3.0E-03	6E-02	3.2E-04	7E-03	2.5E-04		1.1E-04		
	Mercury	7439976	0.055	0.055	0.050	0.053	3.0E-04	--	(i)	7.8E-07	3E-03	8.4E-08	3E-04	6.7E-08		2.9E-08			7.8E-07	3E-03	8.4E-08	3E-04	6.7E-08		2.9E-08		
	Nickel	7440020	8.2	7.5	7.5	7.7	2.0E-02	--		1.2E-04	6E-03	1.3E-05	6E-04	1.0E-05		4.3E-06			1.1E-04	5E-03	1.1E-05	6E-04	9.2E-06		3.9E-06		
	Potassium	7440097	1,610	1,470	1,230	1,437	--	--		2.3E-02		2.5E-03		2.0E-03		8.4E-04			2.1E-02		2.2E-03		1.8E-03		7.7E-04		
	Selenium	7782492	1.80	1.80	1.80	1.80	5.0E-03	--		2.6E-05	5E-03	2.7E-06	5E-04	2.2E-06		9.4E-07			2.6E-05	5E-03	2.7E-06	5E-04	2.2E-06		9.4E-07		
	Silver	7440224	0.50	0.50	0.50	0.50	5.0E-03	--		7.1E-06	1E-03	7.6E-07	2E-04	6.1E-07		2.6E-07			7.1E-06	1E-03	7.6E-07	2E-04	6.1E-07		2.6E-07		
	Sodium	7440235	66	54	74	64	--	--		9.4E-04		1.0E-04		8.0E-05		3.4E-05			7.7E-04		8.2E-05		6.6E-05		2.8E-05		
	Thallium	7440280	1.30	1.30	1.30	1.30	6.5E-05	--		1.9E-05	3E-01	2.0E-06	3E-02	1.6E-06		6.8E-07			1.9E-05	3E-01	2.0E-06	3E-02	1.6E-06		6.8E-07		
	Uranium	7440611	10.4	5.2	10.3	8.6	6.0E-04	--	(e)	1.5E-04	2E-01	1.6E-05	3E-02	1.3E-05		5.4E-06			7.4E-05	1E-01	7.9E-06	1E-02	6.3E-06		2.7E-06		
	Vanadium	7440622	14.8	14.0	13.9	14.2	7.0E-03	--		2.1E-04	3E-02	2.3E-05	3E-03	1.8E-05		7.7E-06			2.0E-04	3E-02	2.1E-05	3E-03	1.7E-05		7.3E-06		
	Zinc	7440666	48	55	40	47	3.0E-01	--		6.8E-04	2E-03	7.3E-05	2E-04	5.9E-05		2.5E-05			7.8E-04	3E-03	8.3E-05	3E-04	6.7E-05		2.9E-05		
									Total		**2E+00**		**2E-01**		**2E-05**		**1E-05**	**3E-05**		**2E+00**		**2E-01**		**2E-05**		**7E-06**	**2E-05**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**			

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: RecVis_Year-Round

Exposure Area: Spring Canyon Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	1.42E-05	1.53E-06
Cancer:	1.22E-06	5.23E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	8,310	7,800	7,150	7,753	1.0E+00	--		1.0E-01	1E-01	1.1E-02	1E-02	8.7E-03		3.7E-03			1.1E-01	1E-01	1.2E-02	1E-02	9.5E-03		4.1E-03		
	Antimony	7440360	0.8	1.1	1.0	1.0	4.0E-04	--		1.4E-05	4E-02	1.5E-06	4E-03	1.2E-06		5.2E-07			1.4E-05	3E-02	1.5E-06	4E-03	1.2E-06		5.0E-07		
	Arsenic	7440382	10.3	7.5	8.5	8.8	2.4E-04	1.9E+00	(j)	1.2E-04	5E-01	1.3E-05	5E-02	1.0E-05	2E-05	4.4E-06	8E-06	3E-05	1.2E-04	5E-01	1.3E-05	6E-02	1.1E-05	2E-05	4.6E-06	9E-06	3E-05
	Barium	7440393	51	52	41	48	2.0E-01	--		5.9E-04	3E-03	6.3E-05	3E-04	5.0E-05		2.2E-05			6.8E-04	3E-03	7.3E-05	4E-04	5.8E-05		2.5E-05		
	Beryllium	7440417	0.64	0.60	0.53	0.59	2.0E-03	--		7.6E-06	4E-03	8.1E-07	4E-04	6.5E-07		2.8E-07			8.4E-06	4E-03	9.0E-07	5E-04	7.2E-07		3.1E-07		
	Cadmium	7440439	0.26	0.26	0.26	0.26	1.0E-03	--	(a)	3.7E-06	4E-03	4.0E-07	4E-04	3.2E-07		1.4E-07			3.7E-06	4E-03	3.9E-07	4E-04	3.2E-07		1.4E-07		
	Calcium	7440702	1,960	1,810	5,990	3,253	--	--		8.5E-02		9.1E-03		7.3E-03		3.1E-03			4.6E-02		5.0E-03		4.0E-03		1.7E-03		
	Chromium	7440473	9.6	9.7	9.0	9.4	1.5E+00	--	(b)	1.3E-04	9E-05	1.4E-05	9E-06	1.1E-05		4.7E-06			1.3E-04	9E-05	1.4E-05	1E-05	1.2E-05		4.9E-06		
	Cobalt	7440484	4.4	4.1	3.7	4.1	3.0E-04	--		5.3E-05	2E-01	5.6E-06	2E-02	4.5E-06		1.9E-06			5.8E-05	2E-01	6.2E-06	2E-02	5.0E-06		2.1E-06		
	Copper	7440508	7	6	7	6	4.0E-02	--		9.3E-05	2E-03	9.9E-06	2E-04	7.9E-06		3.4E-06			9.1E-05	2E-03	9.7E-06	2E-04	7.8E-06		3.3E-06		
	Iron	7439896	15,400	14,900	14,300	14,867	7.0E-01	--		2.0E-01	3E-01	2.2E-02	3E-02	1.7E-02		7.5E-03			2.1E-01	3E-01	2.3E-02	3E-02	1.8E-02		7.8E-03		
	Lead	7439921	7	7	6	7			(c)																		
	Magnesium	7439954	5,880	5,590	5,360	5,610	--	--		7.6E-02		8.2E-03		6.5E-03		2.8E-03			8.0E-02		8.6E-03		6.9E-03		2.9E-03		
	Manganese	7439965	227	208	226	220	4.7E-02	--	(d)	3.2E-03	7E-02	3.4E-04	7E-03	2.8E-04		1.2E-04			3.1E-03	7E-02	3.4E-04	7E-03	2.7E-04		1.2E-04		
	Mercury	7439976	0.055	0.055	0.050	0.053	3.0E-04	--	(i)	7.1E-07	2E-03	7.6E-08	3E-04	6.1E-08		2.6E-08			7.6E-07	3E-03	8.1E-08	3E-04	6.5E-08		2.8E-08		
	Nickel	7440020	8.2	7.5	7.5	7.7	2.0E-02	--		1.1E-04	5E-03	1.1E-05	6E-04	9.2E-06		3.9E-06			1.1E-04	6E-03	1.2E-05	6E-04	9.4E-06		4.0E-06		
	Potassium	7440097	1,610	1,470	1,230	1,437	--	--		1.8E-02		1.9E-03		1.5E-03		6.4E-04			2.0E-02		2.2E-03		1.8E-03		7.5E-04		
	Selenium	7782492	1.80	1.80	1.80	1.80	5.0E-03	--		2.6E-05	5E-03	2.7E-06	5E-04	2.2E-06		9.4E-07			2.6E-05	5E-03	2.7E-06	5E-04	2.2E-06		9.4E-07		
	Silver	7440224	0.50	0.50	0.50	0.50	5.0E-03	--		7.1E-06	1E-03	7.6E-07	2E-04	6.1E-07		2.6E-07			7.1E-06	1E-03	7.6E-07	2E-04	6.1E-07		2.6E-07		
	Sodium	7440235	66	54	74	64	--	--		1.0E-03		1.1E-04		9.0E-05		3.8E-05			9.2E-04		9.8E-05		7.9E-05		3.4E-05		
	Thallium	7440280	1.30	1.30	1.30	1.30	6.5E-05	--		1.9E-05	3E-01	2.0E-06	3E-02	1.6E-06		6.8E-07			1.9E-05	3E-01	2.0E-06	3E-02	1.6E-06		6.8E-07		
	Uranium	7440611	10.4	5.2	10.3	8.6	6.0E-04	--	(e)	1.5E-04	2E-01	1.6E-05	3E-02	1.3E-05		5.4E-06			1.2E-04	2E-01	1.3E-05	2E-02	1.1E-05		4.5E-06		
	Vanadium	7440622	14.8	14.0	13.9	14.2	7.0E-03	--		2.0E-04	3E-02	2.1E-05	3E-03	1.7E-05		7.3E-06			2.0E-04	3E-02	2.2E-05	3E-03	1.7E-05		7.4E-06		
	Zinc	7440666	48	55	40	47	3.0E-01	--		7.8E-04	3E-03	8.3E-05	3E-04	6.7E-05		2.9E-05			6.8E-04	2E-03	7.2E-05	2E-04	5.8E-05		2.5E-05		
									Total		**2E+00**		**2E-01**		**2E-05**		**8E-06**	**3E-05**		**2E+00**		**2E-01**		**2E-05**		**9E-06**	**3E-05**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**			

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Subsist_Modern

Exposure Area: AA Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	9.86E-06	1.06E-06
Cancer:	8.45E-07	3.62E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	10,200	12,200	9,080	10,493	1.0E+00	--		1.0E-01	1E-01	1.1E-02	1E-02	8.6E-03		3.7E-03			1.2E-01	1E-01	1.3E-02	1E-02	1.0E-02		4.4E-03		
	Antimony	7440360	1.1	1.5	1.2	1.3	4.0E-04	--		1.1E-05	3E-02	1.2E-06	3E-03	9.3E-07		4.0E-07			1.5E-05	4E-02	1.6E-06	4E-03	1.3E-06		5.4E-07		
	Arsenic	7440382	3.6	5.3	4.1	4.3	2.4E-04	1.9E+00	(j)	3.6E-05	1E-01	3.8E-06	2E-02	3.0E-06	6E-06	1.3E-06	2E-06	8E-06	5.2E-05	2E-01	5.6E-06	2E-02	4.5E-06	8E-06	1.9E-06	4E-06	1E-05
	Barium	7440393	78	117	78	91	2.0E-01	--		7.7E-04	4E-03	8.2E-05	4E-04	6.6E-05		2.8E-05			1.2E-03	6E-03	1.2E-04	6E-04	9.9E-05		4.2E-05		
	Beryllium	7440417	0.68	0.90	0.66	0.75	2.0E-03	--		6.7E-06	3E-03	7.2E-07	4E-04	5.7E-07		2.5E-07			8.9E-06	4E-03	9.5E-07	5E-04	7.6E-07		3.3E-07		
	Cadmium	7440439	1.00	0.74	0.17	0.64	1.0E-03	--	(a)	9.9E-06	1E-02	1.1E-06	1E-03	8.5E-07		3.6E-07			7.3E-06	7E-03	7.8E-07	8E-04	6.3E-07		2.7E-07		
	Calcium	7440702	2,520	4,120	2,990	3,210	--	--		2.5E-02		2.7E-03		2.1E-03		9.1E-04			4.1E-02		4.4E-03		3.5E-03		1.5E-03		
	Chromium	7440473	18.0	24.2	14.8	19.0	1.5E+00	--	(b)	1.8E-04	1E-04	1.9E-05	1E-05	1.5E-05		6.5E-06			2.4E-04	2E-04	2.6E-05	2E-05	2.0E-05		8.8E-06		
	Cobalt	7440484	6.9	10.4	6.4	7.9	3.0E-04	--		6.8E-05	2E-01	7.3E-06	2E-02	5.8E-06		2.5E-06			1.0E-04	3E-01	1.1E-05	4E-02	8.8E-06		3.8E-06		
	Copper	7440508	15	20	12	16	4.0E-02	--		1.4E-04	4E-03	1.6E-05	4E-04	1.2E-05		5.3E-06			2.0E-04	5E-03	2.1E-05	5E-04	1.7E-05		7.2E-06		
	Iron	7439896	16,000	21,100	14,800	17,300	7.0E-01	--		1.6E-01	2E-01	1.7E-02	2E-02	1.4E-02		5.8E-03			2.1E-01	3E-01	2.2E-02	3E-02	1.8E-02		7.6E-03		
	Lead	7439921	34	20	7	20			(c)																		
	Magnesium	7439954	3,700	4,970	3,550	4,073	--	--		3.6E-02		3.9E-03		3.1E-03		1.3E-03			4.9E-02		5.3E-03		4.2E-03		1.8E-03		
	Manganese	7439965	167	383	248	266	4.7E-02	--	(d)	1.6E-03	4E-02	1.8E-04	4E-03	1.4E-04		6.1E-05			3.8E-03	8E-02	4.0E-04	9E-03	3.2E-04		1.4E-04		
	Mercury	7439976	0.053	0.031	0.010	0.031	3.0E-04	--	(i)	5.2E-07	2E-03	5.6E-08	2E-04	4.5E-08		1.9E-08			3.1E-07	1E-03	3.3E-08	1E-04	2.6E-08		1.1E-08		
	Nickel	7440020	15.5	21.1	12.8	16.5	2.0E-02	--		1.5E-04	8E-03	1.6E-05	8E-04	1.3E-05		5.6E-06			2.1E-04	1E-02	2.2E-05	1E-03	1.8E-05		7.6E-06		
	Potassium	7440097	1,220	2,020	1,160	1,467	--	--		1.2E-02		1.3E-03		1.0E-03		4.4E-04			2.0E-02		2.1E-03		1.7E-03		7.3E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.60	0.60	0.55	0.58	5.0E-03	--		5.9E-06	1E-03	6.3E-07	1E-04	5.1E-07		2.2E-07			5.9E-06	1E-03	6.3E-07	1E-04	5.1E-07		2.2E-07		
	Sodium	7440235	115	173	129	139	--	--		1.1E-03		1.2E-04		9.7E-05		4.2E-05			1.7E-03		1.8E-04		1.5E-04		6.3E-05		
	Thallium	7440280	1.50	1.55	1.45	1.50	6.5E-05	--		1.5E-05	2E-01	1.6E-06	2E-02	1.3E-06		5.4E-07			1.5E-05	2E-01	1.6E-06	3E-02	1.3E-06		5.6E-07		
	Uranium	7440611	12.0	12.3	11.4	11.9	6.0E-04	--	(e)	1.2E-04	2E-01	1.3E-05	2E-02	1.0E-05		4.3E-06			1.2E-04	2E-01	1.3E-05	2E-02	1.0E-05		4.5E-06		
	Vanadium	7440622	27.2	32.6	26.3	28.7	7.0E-03	--		2.7E-04	4E-02	2.9E-05	4E-03	2.3E-05		9.9E-06			3.2E-04	5E-02	3.4E-05	5E-03	2.8E-05		1.2E-05		
	Zinc	7440666	158	118	49	108	3.0E-01	--		1.6E-03	5E-03	1.7E-04	6E-04	1.3E-04		5.7E-05			1.2E-03	4E-03	1.2E-04	4E-04	1.0E-04		4.3E-05		
									Total		**1E+00**		**1E-01**		**6E-06**		**2E-06**	**8E-06**		**2E+00**		**2E-01**		**8E-06**		**4E-06**	**1E-05**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Subsist_Modern

Exposure Area: AA Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	9.86E-06	1.06E-06
Cancer:	8.45E-07	3.62E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	10,200	12,200	9,080	10,493	1.0E+00	--		9.0E-02	9E-02	9.6E-03	1E-02	7.7E-03		3.3E-03			1.0E-01	1E-01	1.1E-02	1E-02	8.9E-03		3.8E-03		
	Antimony	7440360	1.1	1.5	1.2	1.3	4.0E-04	--		1.2E-05	3E-02	1.3E-06	3E-03	1.0E-06		4.3E-07			1.2E-05	3E-02	1.3E-06	3E-03	1.1E-06		4.6E-07		
	Arsenic	7440382	3.6	5.3	4.1	4.3	2.4E-04	1.9E+00	(j)	4.0E-05	2E-01	4.3E-06	2E-02	3.5E-06	6E-06	1.5E-06	3E-06	9E-06	4.3E-05	2E-01	4.6E-06	2E-02	3.7E-06	7E-06	1.6E-06	3E-06	1E-05
	Barium	7440393	78	117	78	91	2.0E-01	--		7.7E-04	4E-03	8.2E-05	4E-04	6.6E-05		2.8E-05			9.0E-04	4E-03	9.6E-05	5E-04	7.7E-05		3.3E-05		
	Beryllium	7440417	0.68	0.90	0.66	0.75	2.0E-03	--		6.5E-06	3E-03	7.0E-07	3E-04	5.6E-07		2.4E-07			7.4E-06	4E-03	7.9E-07	4E-04	6.3E-07		2.7E-07		
	Cadmium	7440439	1.00	0.74	0.17	0.64	1.0E-03	--	(a)	1.7E-06	2E-03	1.8E-07	2E-04	1.4E-07		6.2E-08			6.3E-06	6E-03	6.7E-07	7E-04	5.4E-07		2.3E-07		
	Calcium	7440702	2,520	4,120	2,990	3,210	--	--		2.9E-02		3.2E-03		2.5E-03		1.1E-03			3.2E-02		3.4E-03		2.7E-03		1.2E-03		
	Chromium	7440473	18.0	24.2	14.8	19.0	1.5E+00	--	(b)	1.5E-04	1E-04	1.6E-05	1E-05	1.3E-05		5.4E-06			1.9E-04	1E-04	2.0E-05	1E-05	1.6E-05		6.9E-06		
	Cobalt	7440484	6.9	10.4	6.4	7.9	3.0E-04	--		6.3E-05	2E-01	6.8E-06	2E-02	5.4E-06		2.3E-06			7.8E-05	3E-01	8.3E-06	3E-02	6.7E-06		2.9E-06		
	Copper	7440508	15	20	12	16	4.0E-02	--		1.2E-04	3E-03	1.3E-05	3E-04	1.0E-05		4.4E-06			1.5E-04	4E-03	1.6E-05	4E-04	1.3E-05		5.7E-06		
	Iron	7439896	16,000	21,100	14,800	17,300	7.0E-01	--		1.5E-01	2E-01	1.6E-02	2E-02	1.3E-02		5.4E-03			1.7E-01	2E-01	1.8E-02	3E-02	1.5E-02		6.3E-03		
	Lead	7439921	34	20	7	20			(c)																		
	Magnesium	7439954	3,700	4,970	3,550	4,073	--	--		3.5E-02		3.8E-03		3.0E-03		1.3E-03			4.0E-02		4.3E-03		3.4E-03		1.5E-03		
	Manganese	7439965	167	383	248	266	4.7E-02	--	(d)	2.4E-03	5E-02	2.6E-04	6E-03	2.1E-04		9.0E-05			2.6E-03	6E-02	2.8E-04	6E-03	2.2E-04		9.6E-05		
	Mercury	7439976	0.053	0.031	0.010	0.031	3.0E-04	--	(i)	9.9E-08	3E-04	1.1E-08	4E-05	8.5E-09		3.6E-09			3.1E-07	1E-03	3.3E-08	1E-04	2.6E-08		1.1E-08		
	Nickel	7440020	15.5	21.1	12.8	16.5	2.0E-02	--		1.3E-04	6E-03	1.4E-05	7E-04	1.1E-05		4.6E-06			1.6E-04	8E-03	1.7E-05	9E-04	1.4E-05		6.0E-06		
	Potassium	7440097	1,220	2,020	1,160	1,467	--	--		1.1E-02		1.2E-03		9.8E-04		4.2E-04			1.4E-02		1.5E-03		1.2E-03		5.3E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.60	0.60	0.55	0.58	5.0E-03	--		5.4E-06	1E-03	5.8E-07	1E-04	4.6E-07		2.0E-07			5.8E-06	1E-03	6.2E-07	1E-04	4.9E-07		2.1E-07		
	Sodium	7440235	115	173	129	139	--	--		1.3E-03		1.4E-04		1.1E-04		4.7E-05			1.4E-03		1.5E-04		1.2E-04		5.0E-05		
	Thallium	7440280	1.50	1.55	1.45	1.50	6.5E-05	--		1.4E-05	2E-01	1.5E-06	2E-02	1.2E-06		5.3E-07			1.5E-05	2E-01	1.6E-06	2E-02	1.3E-06		5.4E-07		
	Uranium	7440611	12.0	12.3	11.4	11.9	6.0E-04	--	(e)	1.1E-04	2E-01	1.2E-05	2E-02	9.6E-06		4.1E-06			1.2E-04	2E-01	1.3E-05	2E-02	1.0E-05		4.3E-06		
	Vanadium	7440622	27.2	32.6	26.3	28.7	7.0E-03	--		2.6E-04	4E-02	2.8E-05	4E-03	2.2E-05		9.5E-06			2.8E-04	4E-02	3.0E-05	4E-03	2.4E-05		1.0E-05		
	Zinc	7440666	158	118	49	108	3.0E-01	--		1.2E-03	4E-03	1.2E-04	4E-04	1.0E-04		4.3E-05			1.1E-03	4E-03	1.1E-04	4E-04	9.2E-05		3.9E-05		
									Total		**1E+00**		**1E-01**		**6E-06**		**3E-06**	**9E-06**		**1E+00**		**1E-01**		**7E-06**		**3E-06**	**1E-05**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:

(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Subsist_Modern

Exposure Area: Black Sand Beach

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	9.86E-06	1.06E-06
Cancer:	8.45E-07	3.62E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	19,000	18,600	18,600	18,733	1.0E+00	--		1.9E-01	2E-01	2.0E-02	2E-02	1.6E-02		6.9E-03			1.8E-01	2E-01	2.0E-02	2E-02	1.6E-02		6.7E-03		
	Antimony	7440360	18.6	52.3	47.7	39.5	4.0E-04	--		1.8E-04	5E-01	2.0E-05	5E-02	1.6E-05		6.7E-06			5.2E-04	1E+00	5.5E-05	1E-01	4.4E-05		1.9E-05		
	Arsenic	7440382	16.1	25.2	27.3	22.9	2.4E-04	1.9E+00	(j)	1.6E-04	7E-01	1.7E-05	7E-02	1.4E-05	3E-05	5.8E-06	1E-05	4E-05	2.5E-04	1E+00	2.7E-05	1E-01	2.1E-05	4E-05	9.1E-06	2E-05	6E-05
	Barium	7440393	1,280	1,680	1,750	1,570	2.0E-01	--		1.3E-02	6E-02	1.4E-03	7E-03	1.1E-03		4.6E-04			1.7E-02	8E-02	1.8E-03	9E-03	1.4E-03		6.1E-04		
	Beryllium	7440417	1.20	1.30	1.30	1.27	2.0E-03	--		1.2E-05	6E-03	1.3E-06	6E-04	1.0E-06		4.3E-07			1.3E-05	6E-03	1.4E-06	7E-04	1.1E-06		4.7E-07		
	Cadmium	7440439	1.00	1.20	1.40	1.20	1.0E-03	--	(a)	9.9E-06	1E-02	1.1E-06	1E-03	8.5E-07		3.6E-07			1.2E-05	1E-02	1.3E-06	1E-03	1.0E-06		4.3E-07		
	Calcium	7440702	58,700	63,300	66,900	62,967	--	--		5.8E-01		6.2E-02		5.0E-02		2.1E-02			6.2E-01		6.7E-02		5.4E-02		2.3E-02		
	Chromium	7440473	101.0	123.0	128.0	117.3	1.5E+00	--	(b)	1.0E-03	7E-04	1.1E-04	7E-05	8.5E-05		3.7E-05			1.2E-03	8E-04	1.3E-04	9E-05	1.0E-04		4.5E-05		
	Cobalt	7440484	29.5	48.6	51.0	43.0	3.0E-04	--		2.9E-04	1E+00	3.1E-05	1E-01	2.5E-05		1.1E-05			4.8E-04	2E+00	5.1E-05	2E-01	4.1E-05		1.8E-05		
	Copper	7440508	1,620	2,240	2,350	2,070	4.0E-02	--		1.6E-02	4E-01	1.7E-03	4E-02	1.4E-03		5.9E-04			2.2E-02	6E-01	2.4E-03	6E-02	1.9E-03		8.1E-04		
	Iron	7439896	197,000	187,000	211,000	198,333	7.0E-01	--		1.9E+00	3E+00	2.1E-01	3E-01	1.7E-01		7.1E-02			1.8E+00	3E+00	2.0E-01	3E-01	1.6E-01		6.8E-02		
	Lead	7439921	276	231	266	258			(c)																		
	Magnesium	7439954	6,670	7,070	8,290	7,343	--	--		6.6E-02		7.0E-03		5.6E-03		2.4E-03			7.0E-02		7.5E-03		6.0E-03		2.6E-03		
	Manganese	7439965	3,080	3,680	3,680	3,480	4.7E-02	--	(d)	3.0E-02	7E-01	3.3E-03	7E-02	2.6E-03		1.1E-03			3.6E-02	8E-01	3.9E-03	8E-02	3.1E-03		1.3E-03		
	Mercury	7439976	0.028	0.030	0.650	0.236	3.0E-04	--	(i)	2.8E-07	9E-04	3.0E-08	1E-04	2.4E-08		1.0E-08			3.0E-07	1E-03	3.2E-08	1E-04	2.5E-08		1.1E-08		
	Nickel	7440020	9.3	12.1	12.4	11.3	2.0E-02	--		9.2E-05	5E-03	9.8E-06	5E-04	7.9E-06		3.4E-06			1.2E-04	6E-03	1.3E-05	6E-04	1.0E-05		4.4E-06		
	Potassium	7440097	3,500	3,610	3,750	3,620	--	--		3.5E-02		3.7E-03		3.0E-03		1.3E-03			3.6E-02		3.8E-03		3.1E-03		1.3E-03		
	Selenium	7782492	#N/A	#N/A	1.70	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.55	0.47	0.49	0.50	5.0E-03	--		5.4E-06	1E-03	5.8E-07	1E-04	4.6E-07		2.0E-07			4.6E-06	9E-04	4.9E-07	1E-04	3.9E-07		1.7E-07		
	Sodium	7440235	1,300	1,770	1,840	1,637	--	--		1.3E-02		1.4E-03		1.1E-03		4.7E-04			1.7E-02		1.9E-03		1.5E-03		6.4E-04		
	Thallium	7440280	1.35	1.15	1.20	1.23	6.5E-05	--		1.3E-05	2E-01	1.4E-06	2E-02	1.1E-06		4.9E-07			1.1E-05	2E-01	1.2E-06	2E-02	9.7E-07		4.2E-07		
	Uranium	7440611	64.8	84.3	81.6	76.9	6.0E-04	--	(e)	6.4E-04	1E+00	6.8E-05	1E-01	5.5E-05		2.3E-05			8.3E-04	1E+00	8.9E-05	1E-01	7.1E-05		3.1E-05		
	Vanadium	7440622	36.6	38.3	39.8	38.2	7.0E-03	--		3.6E-04	5E-02	3.9E-05	6E-03	3.1E-05		1.3E-05			3.8E-04	5E-02	4.0E-05	6E-03	3.2E-05		1.4E-05		
	Zinc	7440666	14,900	15,200	16,900	15,667	3.0E-01	--		1.5E-01	5E-01	1.6E-02	5E-02	1.3E-02		5.4E-03			1.5E-01	5E-01	1.6E-02	5E-02	1.3E-02		5.5E-03		
								Total			**8E+00**		**9E-01**		**3E-05**		**1E-05**	**4E-05**		**1E+01**		**1E+00**		**4E-05**		**2E-05**	**6E-05**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Subsist_Modern

Exposure Area: Black Sand Beach

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	9.86E-06	1.06E-06
Cancer:	8.45E-07	3.62E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	19,000	18,600	18,600	18,733	1.0E+00	--		1.8E-01	2E-01	2.0E-02	2E-02	1.6E-02		6.7E-03			1.8E-01	2E-01	2.0E-02	2E-02	1.6E-02		6.8E-03		
	Antimony	7440360	18.6	52.3	47.7	39.5	4.0E-04	--		4.7E-04	1E+00	5.0E-05	1E-01	4.0E-05		1.7E-05			3.9E-04	1E+00	4.2E-05	1E-01	3.3E-05		1.4E-05		
	Arsenic	7440382	16.1	25.2	27.3	22.9	2.4E-04	1.9E+00	(j)	2.7E-04	1E+00	2.9E-05	1E-01	2.3E-05	4E-05	9.9E-06	2E-05	6E-05	2.3E-04	9E-01	2.4E-05	1E-01	1.9E-05	4E-05	8.3E-06	2E-05	5E-05
	Barium	7440393	1,280	1,680	1,750	1,570	2.0E-01	--		1.7E-02	9E-02	1.8E-03	9E-03	1.5E-03		6.3E-04			1.5E-02	8E-02	1.7E-03	8E-03	1.3E-03		5.7E-04		
	Beryllium	7440417	1.20	1.30	1.30	1.27	2.0E-03	--		1.3E-05	6E-03	1.4E-06	7E-04	1.1E-06		4.7E-07			1.2E-05	6E-03	1.3E-06	7E-04	1.1E-06		4.6E-07		
	Cadmium	7440439	1.00	1.20	1.40	1.20	1.0E-03	--	(a)	1.4E-05	1E-02	1.5E-06	1E-03	1.2E-06		5.1E-07			1.2E-05	1E-02	1.3E-06	1E-03	1.0E-06		4.3E-07		
	Calcium	7440702	58,700	63,300	66,900	62,967	--	--		6.6E-01		7.1E-02		5.7E-02		2.4E-02			6.2E-01		6.7E-02		5.3E-02		2.3E-02		
	Chromium	7440473	101.0	123.0	128.0	117.3	1.5E+00	--	(b)	1.3E-03	8E-04	1.4E-04	9E-05	1.1E-04		4.6E-05			1.2E-03	8E-04	1.2E-04	8E-05	9.9E-05		4.3E-05		
	Cobalt	7440484	29.5	48.6	51.0	43.0	3.0E-04	--		5.0E-04	2E+00	5.4E-05	2E-01	4.3E-05		1.8E-05			4.2E-04	1E+00	4.5E-05	2E-01	3.6E-05		1.6E-05		
	Copper	7440508	1,620	2,240	2,350	2,070	4.0E-02	--		2.3E-02	6E-01	2.5E-03	6E-02	2.0E-03		8.5E-04			2.0E-02	5E-01	2.2E-03	5E-02	1.7E-03		7.5E-04		
	Iron	7439896	197,000	187,000	211,000	198,333	7.0E-01	--		2.1E+00	3E+00	2.2E-01	3E-01	1.8E-01		7.6E-02			2.0E+00	3E+00	2.1E-01	3E-01	1.7E-01		7.2E-02		
	Lead	7439921	276	231	266	258			(c)																		
	Magnesium	7439954	6,670	7,070	8,290	7,343	--	--		8.2E-02		8.8E-03		7.0E-03		3.0E-03			7.2E-02		7.8E-03		6.2E-03		2.7E-03		
	Manganese	7439965	3,080	3,680	3,680	3,480	4.7E-02	--	(d)	3.6E-02	8E-01	3.9E-03	8E-02	3.1E-03		1.3E-03			3.4E-02	7E-01	3.7E-03	8E-02	2.9E-03		1.3E-03		
	Mercury	7439976	0.028	0.030	0.650	0.236	3.0E-04	--	(i)	6.4E-06	2E-02	6.9E-07	2E-03	5.5E-07		2.4E-07			2.3E-06	8E-03	2.5E-07	8E-04	2.0E-07		8.6E-08		
	Nickel	7440020	9.3	12.1	12.4	11.3	2.0E-02	--		1.2E-04	6E-03	1.3E-05	7E-04	1.0E-05		4.5E-06			1.1E-04	6E-03	1.2E-05	6E-04	9.5E-06		4.1E-06		
	Potassium	7440097	3,500	3,610	3,750	3,620	--	--		3.7E-02		4.0E-03		3.2E-03		1.4E-03			3.6E-02		3.8E-03		3.1E-03		1.3E-03		
	Selenium	7782492	#N/A	#N/A	1.70	#N/A	5.0E-03	--		1.7E-05	3E-03	1.8E-06	4E-04	1.4E-06		6.2E-07			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.55	0.47	0.49	0.50	5.0E-03	--		4.8E-06	1E-03	5.1E-07	1E-04	4.1E-07		1.8E-07			4.9E-06	1E-03	5.3E-07	1E-04	4.2E-07		1.8E-07		
	Sodium	7440235	1,300	1,770	1,840	1,637	--	--		1.8E-02		1.9E-03		1.6E-03		6.7E-04			1.6E-02		1.7E-03		1.4E-03		5.9E-04		
	Thallium	7440280	1.35	1.15	1.20	1.23	6.5E-05	--		1.2E-05	2E-01	1.3E-06	2E-02	1.0E-06		4.3E-07			1.2E-05	2E-01	1.3E-06	2E-02	1.0E-06		4.5E-07		
	Uranium	7440611	64.8	84.3	81.6	76.9	6.0E-04	--	(e)	8.0E-04	1E+00	8.6E-05	1E-01	6.9E-05		3.0E-05			7.6E-04	1E+00	8.1E-05	1E-01	6.5E-05		2.8E-05		
	Vanadium	7440622	36.6	38.3	39.8	38.2	7.0E-03	--		3.9E-04	6E-02	4.2E-05	6E-03	3.4E-05		1.4E-05			3.8E-04	5E-02	4.0E-05	6E-03	3.2E-05		1.4E-05		
	Zinc	7440666	14,900	15,200	16,900	15,667	3.0E-01	--		1.5E-01	5E-01	1.6E-02	5E-02	1.3E-02		5.5E-03			1.5E-01	5E-01	1.7E-02	6E-02	1.3E-02		5.7E-03		
								Total			**1E+01**		**1E+00**		**4E-05**		**2E-05**	**6E-05**		**1E+01**		**1E+00**		**4E-05**		**2E-05**	**5E-05**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Subsist_Modern

Exposure Area: Cloverleaf Branch

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	9.86E-06	1.06E-06
Cancer:	8.45E-07	3.62E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	12,300	7,520	7,780	9,200	1.0E+00	--		1.2E-01	1E-01	1.3E-02	1E-02	1.0E-02		4.5E-03			7.4E-02	7E-02	7.9E-03	8E-03	6.4E-03		2.7E-03		
	Antimony	7440360	1.6	1.1	1.0	1.2	4.0E-04	--		1.6E-05	4E-02	1.7E-06	4E-03	1.4E-06		5.8E-07			1.1E-05	3E-02	1.2E-06	3E-03	9.3E-07		4.0E-07		
	Arsenic	7440382	7.0	3.6	2.3	4.3	2.4E-04	1.9E+00	(j)	6.9E-05	3E-01	7.4E-06	3E-02	5.9E-06	1E-05	2.5E-06	5E-06	2E-05	3.6E-05	1E-01	3.8E-06	2E-02	3.0E-06	6E-06	1.3E-06	2E-06	8E-06
	Barium	7440393	152	80	66	99	2.0E-01	--		1.5E-03	7E-03	1.6E-04	8E-04	1.3E-04		5.5E-05			7.9E-04	4E-03	8.5E-05	4E-04	6.8E-05		2.9E-05		
	Beryllium	7440417	0.93	0.59	0.63	0.72	2.0E-03	--		9.2E-06	5E-03	9.8E-07	5E-04	7.9E-07		3.4E-07			5.8E-06	3E-03	6.2E-07	3E-04	5.0E-07		2.1E-07		
	Cadmium	7440439	2.40	0.63	3.10	2.04	1.0E-03	--	(a)	2.4E-05	2E-02	2.5E-06	3E-03	2.0E-06		8.7E-07			6.2E-06	6E-03	6.7E-07	7E-04	5.3E-07		2.3E-07		
	Calcium	7440702	5,200	6,050	3,100	4,783	--	--		5.1E-02		5.5E-03		4.4E-03		1.9E-03			6.0E-02		6.4E-03		5.1E-03		2.2E-03		
	Chromium	7440473	28.0	17.7	19.5	21.7	1.5E+00	--	(b)	2.8E-04	2E-04	3.0E-05	2E-05	2.4E-05		1.0E-05			1.7E-04	1E-04	1.9E-05	1E-05	1.5E-05		6.4E-06		
	Cobalt	7440484	10.0	6.7	5.6	7.4	3.0E-04	--		9.9E-05	3E-01	1.1E-05	4E-02	8.5E-06		3.6E-06			6.6E-05	2E-01	7.1E-06	2E-02	5.7E-06		2.4E-06		
	Copper	7440508	29	16	15	20	4.0E-02	--		2.8E-04	7E-03	3.0E-05	8E-04	2.4E-05		1.0E-05			1.6E-04	4E-03	1.7E-05	4E-04	1.4E-05		5.8E-06		
	Iron	7439896	22,600	15,200	13,300	17,033	7.0E-01	--		2.2E-01	3E-01	2.4E-02	3E-02	1.9E-02		8.2E-03			1.5E-01	2E-01	1.6E-02	2E-02	1.3E-02		5.5E-03		
	Lead	7439921	102	16	51	56			(c)																		
	Magnesium	7439954	6,530	4,520	4,040	5,030	--	--		6.4E-02		6.9E-03		5.5E-03		2.4E-03			4.5E-02		4.8E-03		3.8E-03		1.6E-03		
	Manganese	7439965	526	194	145	288	4.7E-02	--	(d)	5.2E-03	1E-01	5.6E-04	1E-02	4.4E-04		1.9E-04			1.9E-03	4E-02	2.1E-04	4E-03	1.6E-04		7.0E-05		
	Mercury	7439976	0.210	0.030	0.062	0.101	3.0E-04	--	(i)	2.1E-06	7E-03	2.2E-07	7E-04	1.8E-07		7.6E-08			3.0E-07	1E-03	3.2E-08	1E-04	2.5E-08		1.1E-08		
	Nickel	7440020	23.8	15.9	14.0	17.9	2.0E-02	--		2.3E-04	1E-02	2.5E-05	1E-03	2.0E-05		8.6E-06			1.6E-04	8E-03	1.7E-05	8E-04	1.3E-05		5.8E-06		
	Potassium	7440097	2,190	1,210	1,200	1,533	--	--		2.2E-02		2.3E-03		1.9E-03		7.9E-04			1.2E-02		1.3E-03		1.0E-03		4.4E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.60	0.55	0.60	0.58	5.0E-03	--		5.9E-06	1E-03	6.3E-07	1E-04	5.1E-07		2.2E-07			5.4E-06	1E-03	5.8E-07	1E-04	4.6E-07		2.0E-07		
	Sodium	7440235	245	147	94	162	--	--		2.4E-03		2.6E-04		2.1E-04		8.9E-05			1.4E-03		1.6E-04		1.2E-04		5.3E-05		
	Thallium	7440280	1.55	1.35	1.55	1.48	6.5E-05	--		1.5E-05	2E-01	1.6E-06	3E-02	1.3E-06		5.6E-07			1.3E-05	2E-01	1.4E-06	2E-02	1.1E-06		4.9E-07		
	Uranium	7440611	12.3	10.7	12.2	11.7	6.0E-04	--	(e)	1.2E-04	2E-01	1.3E-05	2E-02	1.0E-05		4.5E-06			1.1E-04	2E-01	1.1E-05	2E-02	9.0E-06		3.9E-06		
	Vanadium	7440622	35.6	26.6	21.9	28.0	7.0E-03	--		3.5E-04	5E-02	3.8E-05	5E-03	3.0E-05		1.3E-05			2.6E-04	4E-02	2.8E-05	4E-03	2.2E-05		9.6E-06		
	Zinc	7440666	295	90	220	202	3.0E-01	--		2.9E-03	1E-02	3.1E-04	1E-03	2.5E-04		1.1E-04			8.9E-04	3E-03	9.5E-05	3E-04	7.6E-05		3.3E-05		
									Total		**2E+00**		**2E-01**		**1E-05**		**5E-06**	**2E-05**		**1E+00**		**1E-01**		**6E-06**		**2E-06**	**8E-06**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Subsist_Modern

Exposure Area: Cloverleaf Branch

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	9.86E-06	1.06E-06
Cancer:	8.45E-07	3.62E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	12,300	7,520	7,780	9,200	1.0E+00	--		7.7E-02	8E-02	8.2E-03	8E-03	6.6E-03		2.8E-03			9.1E-02	9E-02	9.7E-03	1E-02	7.8E-03		3.3E-03		
	Antimony	7440360	1.6	1.1	1.0	1.2	4.0E-04	--		9.9E-06	2E-02	1.1E-06	3E-03	8.5E-07		3.6E-07			1.2E-05	3E-02	1.3E-06	3E-03	1.0E-06		4.5E-07		
	Arsenic	7440382	7.0	3.6	2.3	4.3	2.4E-04	1.9E+00	(j)	2.3E-05	9E-02	2.4E-06	1E-02	1.9E-06	4E-06	8.3E-07	2E-06	5E-06	4.2E-05	2E-01	4.5E-06	2E-02	3.6E-06	7E-06	1.6E-06	3E-06	1E-05
	Barium	7440393	152	80	66	99	2.0E-01	--		6.5E-04	3E-03	6.9E-05	3E-04	5.5E-05		2.4E-05			9.8E-04	5E-03	1.0E-04	5E-04	8.4E-05		3.6E-05		
	Beryllium	7440417	0.93	0.59	0.63	0.72	2.0E-03	--		6.2E-06	3E-03	6.7E-07	3E-04	5.3E-07		2.3E-07			7.1E-06	4E-03	7.6E-07	4E-04	6.1E-07		2.6E-07		
	Cadmium	7440439	2.40	0.63	3.10	2.04	1.0E-03	--	(a)	3.1E-05	3E-02	3.3E-06	3E-03	2.6E-06		1.1E-06			2.0E-05	2E-02	2.2E-06	2E-03	1.7E-06		7.4E-07		
	Calcium	7440702	5,200	6,050	3,100	4,783	--	--		3.1E-02		3.3E-03		2.6E-03		1.1E-03			4.7E-02		5.1E-03		4.0E-03		1.7E-03		
	Chromium	7440473	28.0	17.7	19.5	21.7	1.5E+00	--	(b)	1.9E-04	1E-04	2.1E-05	1E-05	1.6E-05		7.1E-06			2.1E-04	1E-04	2.3E-05	2E-05	1.8E-05		7.9E-06		
	Cobalt	7440484	10.0	6.7	5.6	7.4	3.0E-04	--		5.5E-05	2E-01	5.9E-06	2E-02	4.7E-06		2.0E-06			7.3E-05	2E-01	7.9E-06	3E-02	6.3E-06		2.7E-06		
	Copper	7440508	29	16	15	20	4.0E-02	--		1.5E-04	4E-03	1.6E-05	4E-04	1.3E-05		5.4E-06			2.0E-04	5E-03	2.1E-05	5E-04	1.7E-05		7.2E-06		
	Iron	7439896	22,600	15,200	13,300	17,033	7.0E-01	--		1.3E-01	2E-01	1.4E-02	2E-02	1.1E-02		4.8E-03			1.7E-01	2E-01	1.8E-02	3E-02	1.4E-02		6.2E-03		
	Lead	7439921	102	16	51	56			(c)																		
	Magnesium	7439954	6,530	4,520	4,040	5,030	--	--		4.0E-02		4.3E-03		3.4E-03		1.5E-03			5.0E-02		5.3E-03		4.3E-03		1.8E-03		
	Manganese	7439965	526	194	145	288	4.7E-02	--	(d)	1.4E-03	3E-02	1.5E-04	3E-03	1.2E-04		5.3E-05			2.8E-03	6E-02	3.0E-04	7E-03	2.4E-04		1.0E-04		
	Mercury	7439976	0.210	0.030	0.062	0.101	3.0E-04	--	(i)	6.1E-07	2E-03	6.6E-08	2E-04	5.2E-08		2.2E-08			9.9E-07	3E-03	1.1E-07	4E-04	8.5E-08		3.6E-08		
	Nickel	7440020	23.8	15.9	14.0	17.9	2.0E-02	--		1.4E-04	7E-03	1.5E-05	7E-04	1.2E-05		5.1E-06			1.8E-04	9E-03	1.9E-05	9E-04	1.5E-05		6.5E-06		
	Potassium	7440097	2,190	1,210	1,200	1,533	--	--		1.2E-02		1.3E-03		1.0E-03		4.3E-04			1.5E-02		1.6E-03		1.3E-03		5.6E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.60	0.55	0.60	0.58	5.0E-03	--		5.9E-06	1E-03	6.3E-07	1E-04	5.1E-07		2.2E-07			5.8E-06	1E-03	6.2E-07	1E-04	4.9E-07		2.1E-07		
	Sodium	7440235	245	147	94	162	--	--		9.3E-04		9.9E-05		7.9E-05		3.4E-05			1.6E-03		1.7E-04		1.4E-04		5.9E-05		
	Thallium	7440280	1.55	1.35	1.55	1.48	6.5E-05	--		1.5E-05	2E-01	1.6E-06	3E-02	1.3E-06		5.6E-07			1.5E-05	2E-01	1.6E-06	2E-02	1.3E-06		5.4E-07		
	Uranium	7440611	12.3	10.7	12.2	11.7	6.0E-04	--	(e)	1.2E-04	2E-01	1.3E-05	2E-02	1.0E-05		4.4E-06			1.2E-04	2E-01	1.2E-05	2E-02	9.9E-06		4.3E-06		
	Vanadium	7440622	35.6	26.6	21.9	28.0	7.0E-03	--		2.2E-04	3E-02	2.3E-05	3E-03	1.9E-05		7.9E-06			2.8E-04	4E-02	3.0E-05	4E-03	2.4E-05		1.0E-05		
	Zinc	7440666	295	90	220	202	3.0E-01	--		8.9E-04	3E-03	9.5E-05	3E-04	7.6E-05		3.3E-05			2.0E-03	7E-03	2.1E-04	7E-04	1.7E-04		7.3E-05		
									Total		**1E+00**		**1E-01**		**4E-06**		**2E-06**	**5E-06**					**1E-01**		**7E-06**		**3E-06**	**1E-05**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:

(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Subsist_Modern

Exposure Area: Columbia Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	9.86E-06	1.06E-06
Cancer:	8.45E-07	3.62E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	11,617	10,660	8,947	10,408	1.0E+00	--		1.1E-01	1E-01	1.2E-02	1E-02	9.8E-03		4.2E-03			1.1E-01	1E-01	1.1E-02	1E-02	9.0E-03		3.9E-03		
	Antimony	7440360	1.1	1.0	1.0	1.0	4.0E-04	--		1.1E-05	3E-02	1.2E-06	3E-03	9.5E-07		4.1E-07			9.5E-06	2E-02	1.0E-06	3E-03	8.1E-07		3.5E-07		
	Arsenic	7440382	4.7	5.4	3.8	4.6	2.4E-04	1.9E+00	(j)	4.6E-05	2E-01	5.0E-06	2E-02	4.0E-06	7E-06	1.7E-06	3E-06	1E-05	5.3E-05	2E-01	5.7E-06	2E-02	4.6E-06	9E-06	2.0E-06	4E-06	1E-05
	Barium	7440393	116	100	81	99	2.0E-01	--		1.1E-03	6E-03	1.2E-04	6E-04	9.8E-05		4.2E-05			9.8E-04	5E-03	1.1E-04	5E-04	8.4E-05		3.6E-05		
	Beryllium	7440417	0.86	0.71	0.57	0.71	2.0E-03	--		8.4E-06	4E-03	9.1E-07	5E-04	7.2E-07		3.1E-07			7.0E-06	3E-03	7.5E-07	4E-04	6.0E-07		2.6E-07		
	Cadmium	7440439	1.63	0.45	0.33	0.80	1.0E-03	--	(a)	1.6E-05	2E-02	1.7E-06	2E-03	1.4E-06		5.9E-07			4.4E-06	4E-03	4.7E-07	5E-04	3.8E-07		1.6E-07		
	Calcium	7440702	2,980	2,333	2,017	2,443	--	--		2.9E-02		3.1E-03		2.5E-03		1.1E-03			2.3E-02		2.5E-03		2.0E-03		8.5E-04		
	Chromium	7440473	16.9	14.3	12.1	14.4	1.5E+00	--	(b)	1.7E-04	1E-04	1.8E-05	1E-05	1.4E-05		6.1E-06			1.4E-04	9E-05	1.5E-05	1E-05	1.2E-05		5.2E-06		
	Cobalt	7440484	7.7	6.3	5.4	6.5	3.0E-04	--		7.6E-05	3E-01	8.1E-06	3E-02	6.5E-06		2.8E-06			6.2E-05	2E-01	6.7E-06	2E-02	5.4E-06		2.3E-06		
	Copper	7440508	19	11	9	13	4.0E-02	--		1.9E-04	5E-03	2.0E-05	5E-04	1.6E-05		6.9E-06			1.1E-04	3E-03	1.2E-05	3E-04	9.6E-06		4.1E-06		
	Iron	7439896	16,700	15,933	14,400	15,678	7.0E-01	--		1.6E-01	2E-01	1.8E-02	3E-02	1.4E-02		6.1E-03			1.6E-01	2E-01	1.7E-02	2E-02	1.3E-02		5.8E-03		
	Lead	7439921	58	18	11	29			(c)																		
	Magnesium	7439954	4,107	3,890	3,487	3,828	--	--		4.1E-02		4.3E-03		3.5E-03		1.5E-03			3.8E-02		4.1E-03		3.3E-03		1.4E-03		
	Manganese	7439965	283	190	167	214	4.7E-02	--	(d)	2.8E-03	6E-02	3.0E-04	6E-03	2.4E-04		1.0E-04			1.9E-03	4E-02	2.0E-04	4E-03	1.6E-04		6.9E-05		
	Mercury	7439976	0.136	0.029	0.017	0.061	3.0E-04	--	(i)	1.3E-06	4E-03	1.4E-07	5E-04	1.1E-07		4.9E-08			2.8E-07	9E-04	3.0E-08	1E-04	2.4E-08		1.0E-08		
	Nickel	7440020	14.6	11.8	10.2	12.2	2.0E-02	--		1.4E-04	7E-03	1.5E-05	8E-04	1.2E-05		5.3E-06			1.2E-04	6E-03	1.2E-05	6E-04	9.9E-06		4.3E-06		
	Potassium	7440097	2,210	1,840	1,413	1,821	--	--		2.2E-02		2.3E-03		1.9E-03		8.0E-04			1.8E-02		1.9E-03		1.6E-03		6.7E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.55	0.52	0.53	0.54	5.0E-03	--		5.4E-06	1E-03	5.8E-07	1E-04	4.6E-07		2.0E-07			5.1E-06	1E-03	5.5E-07	1E-04	4.4E-07		1.9E-07		
	Sodium	7440235	144	103	93	113	--	--		1.4E-03		1.5E-04		1.2E-04		5.2E-05			1.0E-03		1.1E-04		8.7E-05		3.7E-05		
	Thallium	7440280	1.37	1.32	1.33	1.34	6.5E-05	--		1.3E-05	2E-01	1.4E-06	2E-02	1.2E-06		5.0E-07			1.3E-05	2E-01	1.4E-06	2E-02	1.1E-06		4.8E-07		
	Uranium	7440611	10.2	10.5	10.6	10.4	6.0E-04	--	(e)	1.0E-04	2E-01	1.1E-05	2E-02	8.6E-06		3.7E-06			1.0E-04	2E-01	1.1E-05	2E-02	8.9E-06		3.8E-06		
	Vanadium	7440622	23.0	21.0	18.0	20.7	7.0E-03	--		2.3E-04	3E-02	2.4E-05	3E-03	1.9E-05		8.3E-06			2.1E-04	3E-02	2.2E-05	3E-03	1.8E-05		7.6E-06		
	Zinc	7440666	233	143	120	165	3.0E-01	--		2.3E-03	8E-03	2.5E-04	8E-04	2.0E-04		8.5E-05			1.4E-03	5E-03	1.5E-04	5E-04	1.2E-04		5.2E-05		
								Total			**1E+00**		**1E-01**		**7E-06**		**3E-06**	**1E-05**		**1E+00**		**1E-01**		**9E-06**		**4E-06**	**1E-05**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Subsist_Modern

Exposure Area: Columbia Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	9.86E-06	1.06E-06
Cancer:	8.45E-07	3.62E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	11,617	10,660	8,947	10,408	1.0E+00	--		8.8E-02	9E-02	9.5E-03	9E-03	7.6E-03		3.2E-03			1.0E-01	1E-01	1.1E-02	1E-02	8.8E-03		3.8E-03		
	Antimony	7440360	1.1	1.0	1.0	1.0	4.0E-04	--		1.0E-05	3E-02	1.1E-06	3E-03	8.8E-07		3.8E-07			1.0E-05	3E-02	1.1E-06	3E-03	8.8E-07		3.8E-07		
	Arsenic	7440382	4.7	5.4	3.8	4.6	2.4E-04	1.9E+00	(j)	3.8E-05	2E-01	4.1E-06	2E-02	3.2E-06	6E-06	1.4E-06	3E-06	9E-06	4.6E-05	2E-01	4.9E-06	2E-02	3.9E-06	7E-06	1.7E-06	3E-06	1E-05
	Barium	7440393	116	100	81	99	2.0E-01	--		8.0E-04	4E-03	8.6E-05	4E-04	6.9E-05		2.9E-05			9.8E-04	5E-03	1.0E-04	5E-04	8.4E-05		3.6E-05		
	Beryllium	7440417	0.86	0.71	0.57	0.71	2.0E-03	--		5.6E-06	3E-03	6.0E-07	3E-04	4.8E-07		2.1E-07			7.0E-06	4E-03	7.5E-07	4E-04	6.0E-07		2.6E-07		
	Cadmium	7440439	1.63	0.45	0.33	0.80	1.0E-03	--	(a)	3.3E-06	3E-03	3.5E-07	4E-04	2.8E-07		1.2E-07			7.9E-06	8E-03	8.5E-07	8E-04	6.8E-07		2.9E-07		
	Calcium	7440702	2,980	2,333	2,017	2,443	--	--		2.0E-02		2.1E-03		1.7E-03		7.3E-04			2.4E-02		2.6E-03		2.1E-03		8.9E-04		
	Chromium	7440473	16.9	14.3	12.1	14.4	1.5E+00	--	(b)	1.2E-04	8E-05	1.3E-05	9E-06	1.0E-05		4.4E-06			1.4E-04	9E-05	1.5E-05	1E-05	1.2E-05		5.2E-06		
	Cobalt	7440484	7.7	6.3	5.4	6.5	3.0E-04	--		5.4E-05	2E-01	5.7E-06	2E-02	4.6E-06		2.0E-06			6.4E-05	2E-01	6.8E-06	2E-02	5.5E-06		2.3E-06		
	Copper	7440508	19	11	9	13	4.0E-02	--		8.6E-05	2E-03	9.2E-06	2E-04	7.4E-06		3.2E-06			1.3E-04	3E-03	1.4E-05	3E-04	1.1E-05		4.7E-06		
	Iron	7439896	16,700	15,933	14,400	15,678	7.0E-01	--		1.4E-01	2E-01	1.5E-02	2E-02	1.2E-02		5.2E-03			1.5E-01	2E-01	1.7E-02	2E-02	1.3E-02		5.7E-03		
	Lead	7439921	58	18	11	29			(c)																		
	Magnesium	7439954	4,107	3,890	3,487	3,828	--	--		3.4E-02		3.7E-03		2.9E-03		1.3E-03			3.8E-02		4.0E-03		3.2E-03		1.4E-03		
	Manganese	7439965	283	190	167	214	4.7E-02	--	(d)	1.6E-03	4E-02	1.8E-04	4E-03	1.4E-04		6.1E-05			2.1E-03	5E-02	2.3E-04	5E-03	1.8E-04		7.7E-05		
	Mercury	7439976	0.136	0.029	0.017	0.061	3.0E-04	--	(i)	1.7E-07	6E-04	1.8E-08	6E-05	1.4E-08		6.2E-09			6.0E-07	2E-03	6.4E-08	2E-04	5.1E-08		2.2E-08		
	Nickel	7440020	14.6	11.8	10.2	12.2	2.0E-02	--		1.0E-04	5E-03	1.1E-05	5E-04	8.7E-06		3.7E-06			1.2E-04	6E-03	1.3E-05	6E-04	1.0E-05		4.4E-06		
	Potassium	7440097	2,210	1,840	1,413	1,821	--	--		1.4E-02		1.5E-03		1.2E-03		5.1E-04			1.8E-02		1.9E-03		1.5E-03		6.6E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.55	0.52	0.53	0.54	5.0E-03	--		5.3E-06	1E-03	5.6E-07	1E-04	4.5E-07		1.9E-07			5.3E-06	1E-03	5.7E-07	1E-04	4.5E-07		1.9E-07		
	Sodium	7440235	144	103	93	113	--	--		9.2E-04		9.8E-05		7.9E-05		3.4E-05			1.1E-03		1.2E-04		9.6E-05		4.1E-05		
	Thallium	7440280	1.37	1.32	1.33	1.34	6.5E-05	--		1.3E-05	2E-01	1.4E-06	2E-02	1.1E-06		4.8E-07			1.3E-05	2E-01	1.4E-06	2E-02	1.1E-06		4.9E-07		
	Uranium	7440611	10.2	10.5	10.6	10.4	6.0E-04	--	(e)	1.0E-04	2E-01	1.1E-05	2E-02	8.9E-06		3.8E-06			1.0E-04	2E-01	1.1E-05	2E-02	8.8E-06		3.8E-06		
	Vanadium	7440622	23.0	21.0	18.0	20.7	7.0E-03	--		1.8E-04	3E-02	1.9E-05	3E-03	1.5E-05		6.5E-06			2.0E-04	3E-02	2.2E-05	3E-03	1.7E-05		7.5E-06		
	Zinc	7440666	233	143	120	165	3.0E-01	--		1.4E-03	5E-03	1.5E-04	5E-04	1.2E-04		5.2E-05			1.6E-03	5E-03	1.7E-04	6E-04	1.4E-04		6.0E-05		
									Total		**1E+00**		**1E-01**		**6E-06**		**3E-06**	**9E-06**		**1E+00**		**1E-01**		**7E-06**		**3E-06**	**1E-05**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:

(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Subsist_Modern

Exposure Area: Dalles Orchard

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	9.86E-06	1.06E-06
Cancer:	8.45E-07	3.62E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	11,300	11,900	10,700	11,300	1.0E+00	--		1.1E-01	1E-01	1.2E-02	1E-02	9.6E-03		4.1E-03			1.2E-01	1E-01	1.3E-02	1E-02	1.0E-02		4.3E-03		
	Antimony	7440360	24.8	32.4	11.2	22.8	4.0E-04	--		2.4E-04	6E-01	2.6E-05	7E-02	2.1E-05		9.0E-06			3.2E-04	8E-01	3.4E-05	9E-02	2.7E-05		1.2E-05		
	Arsenic	7440382	18.1	22.5	13.7	18.1	2.4E-04	1.9E+00	(j)	1.8E-04	7E-01	1.9E-05	8E-02	1.5E-05	3E-05	6.6E-06	1E-05	4E-05	2.2E-04	9E-01	2.4E-05	1E-01	1.9E-05	4E-05	8.2E-06	2E-05	5E-05
	Barium	7440393	1,020	1,070	686	925	2.0E-01	--		1.0E-02	5E-02	1.1E-03	5E-03	8.6E-04		3.7E-04			1.1E-02	5E-02	1.1E-03	6E-03	9.0E-04		3.9E-04		
	Beryllium	7440417	0.84	0.88	0.77	0.83	2.0E-03	--		8.3E-06	4E-03	8.9E-07	4E-04	7.1E-07		3.0E-07			8.7E-06	4E-03	9.3E-07	5E-04	7.4E-07		3.2E-07		
	Cadmium	7440439	2.10	1.90	2.50	2.17	1.0E-03	--	(a)	2.1E-05	2E-02	2.2E-06	2E-03	1.8E-06		7.6E-07			1.9E-05	2E-02	2.0E-06	2E-03	1.6E-06		6.9E-07		
	Calcium	7440702	37,700	39,900	35,100	37,567	--	--		3.7E-01		4.0E-02		3.2E-02		1.4E-02			3.9E-01		4.2E-02		3.4E-02		1.4E-02		
	Chromium	7440473	71.9	77.6	51.3	66.9	1.5E+00	--	(b)	7.1E-04	5E-04	7.6E-05	5E-05	6.1E-05		2.6E-05			7.7E-04	5E-04	8.2E-05	5E-05	6.6E-05		2.8E-05		
	Cobalt	7440484	35.1	36.8	22.4	31.4	3.0E-04	--		3.5E-04	1E+00	3.7E-05	1E-01	3.0E-05		1.3E-05			3.6E-04	1E+00	3.9E-05	1E-01	3.1E-05		1.3E-05		
	Copper	7440508	1,300	1,380	802	1,161	4.0E-02	--		1.3E-02	3E-01	1.4E-03	3E-02	1.1E-03		4.7E-04			1.4E-02	3E-01	1.5E-03	4E-02	1.2E-03		5.0E-04		
	Iron	7439896	108,000	110,000	82,100	100,033	7.0E-01	--		1.1E+00	2E+00	1.1E-01	2E-01	9.1E-02		3.9E-02			1.1E+00	2E+00	1.2E-01	2E-01	9.3E-02		4.0E-02		
	Lead	7439921	205	190	214	203			(c)																		
	Magnesium	7439954	5,640	6,450	9,090	7,060	--	--		5.6E-02		6.0E-03		4.8E-03		2.0E-03			6.4E-02		6.8E-03		5.5E-03		2.3E-03		
	Manganese	7439965	2,110	2,200	1,660	1,990	4.7E-02	--	(d)	2.1E-02	4E-01	2.2E-03	5E-02	1.8E-03		7.6E-04			2.2E-02	5E-01	2.3E-03	5E-02	1.9E-03		8.0E-04		
	Mercury	7439976	0.034	0.044	0.073	0.050	3.0E-04	--	(i)	3.4E-07	1E-03	3.6E-08	1E-04	2.9E-08		1.2E-08			4.3E-07	1E-03	4.6E-08	2E-04	3.7E-08		1.6E-08		
	Nickel	7440020	10.4	12.1	10.4	11.0	2.0E-02	--		1.0E-04	5E-03	1.1E-05	5E-04	8.8E-06		3.8E-06			1.2E-04	6E-03	1.3E-05	6E-04	1.0E-05		4.4E-06		
	Potassium	7440097	2,270	2,300	2,030	2,200	--	--		2.2E-02		2.4E-03		1.9E-03		8.2E-04			2.3E-02		2.4E-03		1.9E-03		8.3E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.50	0.49	0.50	0.50	5.0E-03	--		4.9E-06	1E-03	5.3E-07	1E-04	4.2E-07		1.8E-07			4.8E-06	1E-03	5.1E-07	1E-04	4.1E-07		1.8E-07		
	Sodium	7440235	1,200	1,300	811	1,104	--	--		1.2E-02		1.3E-03		1.0E-03		4.3E-04			1.3E-02		1.4E-03		1.1E-03		4.7E-04		
	Thallium	7440280	0.83	1.10	1.30	1.08	6.5E-05	--		8.2E-06	1E-01	8.8E-07	1E-02	7.0E-07		3.0E-07			1.1E-05	2E-01	1.2E-06	2E-02	9.3E-07		4.0E-07		
	Uranium	7440611	10.2	9.7	10.5	10.1	6.0E-04	--	(e)	1.0E-04	2E-01	1.1E-05	2E-02	8.6E-06		3.7E-06			9.6E-05	2E-01	1.0E-05	2E-02	8.2E-06		3.5E-06		
	Vanadium	7440622	28.2	29.2	27.2	28.2	7.0E-03	--		2.8E-04	4E-02	3.0E-05	4E-03	2.4E-05		1.0E-05			2.9E-04	4E-02	3.1E-05	4E-03	2.5E-05		1.1E-05		
	Zinc	7440666	8,700	8,410	6,560	7,890	3.0E-01	--		8.6E-02	3E-01	9.2E-03	3E-02	7.4E-03		3.2E-03			8.3E-02	3E-01	8.9E-03	3E-02	7.1E-03		3.0E-03		
									Total		**6E+00**		**6E-01**		**3E-05**		**1E-05**	**4E-05**		**6E+00**		**7E-01**		**4E-05**		**2E-05**	**5E-05**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**			

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:

(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Subsist_Modern

Exposure Area: Dalles Orchard

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	9.86E-06	1.06E-06
Cancer:	8.45E-07	3.62E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	11,300	11,900	10,700	11,300	1.0E+00	--		1.1E-01	1E-01	1.1E-02	1E-02	9.0E-03		3.9E-03			1.1E-01	1E-01	1.2E-02	1E-02	9.6E-03		4.1E-03		
	Antimony	7440360	24.8	32.4	11.2	22.8	4.0E-04	--		1.1E-04	3E-01	1.2E-05	3E-02	9.5E-06		4.1E-06			2.2E-04	6E-01	2.4E-05	6E-02	1.9E-05		8.3E-06		
	Arsenic	7440382	18.1	22.5	13.7	18.1	2.4E-04	1.9E+00	(j)	1.4E-04	6E-01	1.4E-05	6E-02	1.2E-05	2E-05	5.0E-06	9E-06	3E-05	1.8E-04	7E-01	1.9E-05	8E-02	1.5E-05	3E-05	6.6E-06	1E-05	4E-05
	Barium	7440393	1,020	1,070	686	925	2.0E-01	--		6.8E-03	3E-02	7.2E-04	4E-03	5.8E-04		2.5E-04			9.1E-03	5E-02	9.8E-04	5E-03	7.8E-04		3.4E-04		
	Beryllium	7440417	0.84	0.88	0.77	0.83	2.0E-03	--		7.6E-06	4E-03	8.1E-07	4E-04	6.5E-07		2.8E-07			8.2E-06	4E-03	8.8E-07	4E-04	7.0E-07		3.0E-07		
	Cadmium	7440439	2.10	1.90	2.50	2.17	1.0E-03	--	(a)	2.5E-05	2E-02	2.6E-06	3E-03	2.1E-06		9.1E-07			2.1E-05	2E-02	2.3E-06	2E-03	1.8E-06		7.9E-07		
	Calcium	7440702	37,700	39,900	35,100	37,567	--	--		3.5E-01		3.7E-02		3.0E-02		1.3E-02			3.7E-01		4.0E-02		3.2E-02		1.4E-02		
	Chromium	7440473	71.9	77.6	51.3	66.9	1.5E+00	--	(b)	5.1E-04	3E-04	5.4E-05	4E-05	4.3E-05		1.9E-05			6.6E-04	4E-04	7.1E-05	5E-05	5.7E-05		2.4E-05		
	Cobalt	7440484	35.1	36.8	22.4	31.4	3.0E-04	--		2.2E-04	7E-01	2.4E-05	8E-02	1.9E-05		8.1E-06			3.1E-04	1E+00	3.3E-05	1E-01	2.7E-05		1.1E-05		
	Copper	7440508	1,300	1,380	802	1,161	4.0E-02	--		7.9E-03	2E-01	8.5E-04	2E-02	6.8E-04		2.9E-04			1.1E-02	3E-01	1.2E-03	3E-02	9.8E-04		4.2E-04		
	Iron	7439896	108,000	110,000	82,100	100,033	7.0E-01	--		8.1E-01	1E+00	8.7E-02	1E-01	6.9E-02		3.0E-02			9.9E-01	1E+00	1.1E-01	2E-01	8.5E-02		3.6E-02		
	Lead	7439921	205	190	214	203			(c)																		
	Magnesium	7439954	5,640	6,450	9,090	7,060	--	--		9.0E-02		9.6E-03		7.7E-03		3.3E-03			7.0E-02		7.5E-03		6.0E-03		2.6E-03		
	Manganese	7439965	2,110	2,200	1,660	1,990	4.7E-02	--	(d)	1.6E-02	4E-01	1.8E-03	4E-02	1.4E-03		6.0E-04			2.0E-02	4E-01	2.1E-03	5E-02	1.7E-03		7.2E-04		
	Mercury	7439976	0.034	0.044	0.073	0.050	3.0E-04	--	(i)	7.2E-07	2E-03	7.7E-08	3E-04	6.2E-08		2.6E-08			5.0E-07	2E-03	5.3E-08	2E-04	4.3E-08		1.8E-08		
	Nickel	7440020	10.4	12.1	10.4	11.0	2.0E-02	--		1.0E-04	5E-03	1.1E-05	5E-04	8.8E-06		3.8E-06			1.1E-04	5E-03	1.2E-05	6E-04	9.3E-06		4.0E-06		
	Potassium	7440097	2,270	2,300	2,030	2,200	--	--		2.0E-02		2.1E-03		1.7E-03		7.4E-04			2.2E-02		2.3E-03		1.9E-03		8.0E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.50	0.49	0.50	0.50	5.0E-03	--		4.9E-06	1E-03	5.3E-07	1E-04	4.2E-07		1.8E-07			4.9E-06	1E-03	5.2E-07	1E-04	4.2E-07		1.8E-07		
	Sodium	7440235	1,200	1,300	811	1,104	--	--		8.0E-03		8.6E-04		6.9E-04		2.9E-04			1.1E-02		1.2E-03		9.3E-04		4.0E-04		
	Thallium	7440280	0.83	1.10	1.30	1.08	6.5E-05	--		1.3E-05	2E-01	1.4E-06	2E-02	1.1E-06		4.7E-07			1.1E-05	2E-01	1.1E-06	2E-02	9.1E-07		3.9E-07		
	Uranium	7440611	10.2	9.7	10.5	10.1	6.0E-04	--	(e)	1.0E-04	2E-01	1.1E-05	2E-02	8.9E-06		3.8E-06			1.0E-04	2E-01	1.1E-05	2E-02	8.6E-06		3.7E-06		
	Vanadium	7440622	28.2	29.2	27.2	28.2	7.0E-03	--		2.7E-04	4E-02	2.9E-05	4E-03	2.3E-05		9.9E-06			2.8E-04	4E-02	3.0E-05	4E-03	2.4E-05		1.0E-05		
	Zinc	7440666	8,700	8,410	6,560	7,890	3.0E-01	--		8.3E-02	3E-01	8.9E-03	3E-02	7.1E-03		3.0E-03			7.8E-02	3E-01	8.3E-03	3E-02	6.7E-03		2.9E-03		
								Total			**4E+00**		**4E-01**		**2E-05**		**9E-06**	**3E-05**		**5E+00**		**6E-01**		**3E-05**		**1E-05**	**4E-05**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Subsist_Modern

Exposure Area: French Rocks Boat Launch

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	9.86E-06	1.06E-06
Cancer:	8.45E-07	3.62E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	6,370	6,050	6,550	6,323	1.0E+00	--		6.3E-02	6E-02	6.7E-03	7E-03	5.4E-03		2.3E-03			6.0E-02	6E-02	6.4E-03	6E-03	5.1E-03		2.2E-03		
	Antimony	7440360	1.0	1.0	0.4	0.8	4.0E-04	--		9.4E-06	2E-02	1.0E-06	3E-03	8.0E-07		3.4E-07			9.9E-06	2E-02	1.1E-06	3E-03	8.5E-07		3.6E-07		
	Arsenic	7440382	2.6	2.4	2.4	2.5	2.4E-04	1.9E+00	(j)	2.6E-05	1E-01	2.7E-06	1E-02	2.2E-06	4E-06	9.4E-07	2E-06	6E-06	2.4E-05	1E-01	2.5E-06	1E-02	2.0E-06	4E-06	8.7E-07	2E-06	5E-06
	Barium	7440393	56	58	62	59	2.0E-01	--		5.6E-04	3E-03	6.0E-05	3E-04	4.8E-05		2.0E-05			5.7E-04	3E-03	6.1E-05	3E-04	4.9E-05		2.1E-05		
	Beryllium	7440417	0.52	0.51	0.46	0.50	2.0E-03	--		5.1E-06	3E-03	5.5E-07	3E-04	4.4E-07		1.9E-07			5.0E-06	3E-03	5.4E-07	3E-04	4.3E-07		1.8E-07		
	Cadmium	7440439	0.45	0.33	0.51	0.43	1.0E-03	--	(a)	4.4E-06	4E-03	4.8E-07	5E-04	3.8E-07		1.6E-07			3.3E-06	3E-03	3.5E-07	3E-04	2.8E-07		1.2E-07		
	Calcium	7440702	3,050	2,430	4,830	3,437	--	--		3.0E-02		3.2E-03		2.6E-03		1.1E-03			2.4E-02		2.6E-03		2.1E-03		8.8E-04		
	Chromium	7440473	12.7	12.4	12.8	12.6	1.5E+00	--	(b)	1.3E-04	8E-05	1.3E-05	9E-06	1.1E-05		4.6E-06			1.2E-04	8E-05	1.3E-05	9E-06	1.0E-05		4.5E-06		
	Cobalt	7440484	4.9	4.3	4.5	4.6	3.0E-04	--		4.8E-05	2E-01	5.2E-06	2E-02	4.1E-06		1.8E-06			4.2E-05	1E-01	4.5E-06	2E-02	3.6E-06		1.6E-06		
	Copper	7440508	14	15	11	13	4.0E-02	--		1.4E-04	3E-03	1.5E-05	4E-04	1.2E-05		5.0E-06			1.4E-04	4E-03	1.5E-05	4E-04	1.2E-05		5.3E-06		
	Iron	7439896	12,000	9,960	11,000	10,987	7.0E-01	--		1.2E-01	2E-01	1.3E-02	2E-02	1.0E-02		4.3E-03			9.8E-02	1E-01	1.1E-02	2E-02	8.4E-03		3.6E-03		
	Lead	7439921	22	19	21	20			(c)																		
	Magnesium	7439954	3,980	2,770	4,590	3,780	--	--		3.9E-02		4.2E-03		3.4E-03		1.4E-03			2.7E-02		2.9E-03		2.3E-03		1.0E-03		
	Manganese	7439965	260	171	208	213	4.7E-02	--	(d)	2.6E-03	5E-02	2.7E-04	6E-03	2.2E-04		9.4E-05			1.7E-03	4E-02	1.8E-04	4E-03	1.4E-04		6.2E-05		
	Mercury	7439976	0.030	0.019	0.050	0.033	3.0E-04	--	(i)	3.0E-07	1E-03	3.2E-08	1E-04	2.5E-08		1.1E-08			1.9E-07	6E-04	2.0E-08	7E-05	1.6E-08		6.9E-09		
	Nickel	7440020	10.9	9.6	15.0	11.8	2.0E-02	--		1.1E-04	5E-03	1.2E-05	6E-04	9.2E-06		3.9E-06			9.5E-05	5E-03	1.0E-05	5E-04	8.1E-06		3.5E-06		
	Potassium	7440097	775	843	749	789	--	--		7.6E-03		8.2E-04		6.6E-04		2.8E-04			8.3E-03		8.9E-04		7.1E-04		3.1E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.55	0.50	0.45	0.50	5.0E-03	--		5.4E-06	1E-03	5.8E-07	1E-04	4.6E-07		2.0E-07			4.9E-06	1E-03	5.3E-07	1E-04	4.2E-07		1.8E-07		
	Sodium	7440235	155	131	134	140	--	--		1.5E-03		1.6E-04		1.3E-04		5.6E-05			1.3E-03		1.4E-04		1.1E-04		4.7E-05		
	Thallium	7440280	1.40	1.30	1.10	1.27	6.5E-05	--		1.4E-05	2E-01	1.5E-06	2E-02	1.2E-06		5.1E-07			1.3E-05	2E-01	1.4E-06	2E-02	1.1E-06		4.7E-07		
	Uranium	7440611	11.1	8.4	8.9	9.4	6.0E-04	--	(e)	1.1E-04	2E-01	1.2E-05	2E-02	9.3E-06		4.0E-06			8.3E-05	1E-01	8.9E-06	1E-02	7.1E-06		3.0E-06		
	Vanadium	7440622	21.7	19.6	21.9	21.1	7.0E-03	--		2.1E-04	3E-02	2.3E-05	3E-03	1.8E-05		7.9E-06			1.9E-04	3E-02	2.1E-05	3E-03	1.7E-05		7.1E-06		
	Zinc	7440666	97	67	92	85	3.0E-01	--		9.6E-04	3E-03	1.0E-04	3E-04	8.2E-05		3.5E-05			6.6E-04	2E-03	7.1E-05	2E-04	5.7E-05		2.4E-05		
								Total			**1E+00**		**1E-01**		**4E-06**		**2E-06**	**6E-06**		**9E-01**		**9E-02**		**4E-06**		**2E-06**	**5E-06**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Subsist_Modern

Exposure Area: French Rocks Boat Launch

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	9.86E-06	1.06E-06
Cancer:	8.45E-07	3.62E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	6,370	6,050	6,550	6,323	1.0E+00	--		6.5E-02	6E-02	6.9E-03	7E-03	5.5E-03		2.4E-03			6.2E-02	6E-02	6.7E-03	7E-03	5.3E-03		2.3E-03		
	Antimony	7440360	1.0	1.0	0.4	0.8	4.0E-04	--		4.1E-06	1E-02	4.4E-07	1E-03	3.6E-07		1.5E-07			7.8E-06	2E-02	8.3E-07	2E-03	6.7E-07		2.9E-07		
	Arsenic	7440382	2.6	2.4	2.4	2.5	2.4E-04	1.9E+00	(j)	2.4E-05	1E-01	2.5E-06	1E-02	2.0E-06	4E-06	8.7E-07	2E-06	5E-06	2.4E-05	1E-01	2.6E-06	1E-02	2.1E-06	4E-06	8.9E-07	2E-06	6E-06
	Barium	7440393	56	58	62	59	2.0E-01	--		6.1E-04	3E-03	6.5E-05	3E-04	5.2E-05		2.2E-05			5.8E-04	3E-03	6.2E-05	3E-04	5.0E-05		2.1E-05		
	Beryllium	7440417	0.52	0.51	0.46	0.50	2.0E-03	--		4.5E-06	2E-03	4.9E-07	2E-04	3.9E-07		1.7E-07			4.9E-06	2E-03	5.2E-07	3E-04	4.2E-07		1.8E-07		
	Cadmium	7440439	0.45	0.33	0.51	0.43	1.0E-03	--	(a)	5.0E-06	5E-03	5.4E-07	5E-04	4.3E-07		1.8E-07			4.2E-06	4E-03	4.5E-07	5E-04	3.6E-07		1.6E-07		
	Calcium	7440702	3,050	2,430	4,830	3,437	--	--		4.8E-02		5.1E-03		4.1E-03		1.7E-03			3.4E-02		3.6E-03		2.9E-03		1.2E-03		
	Chromium	7440473	12.7	12.4	12.8	12.6	1.5E+00	--	(b)	1.3E-04	8E-05	1.4E-05	9E-06	1.1E-05		4.6E-06			1.2E-04	8E-05	1.3E-05	9E-06	1.1E-05		4.6E-06		
	Cobalt	7440484	4.9	4.3	4.5	4.6	3.0E-04	--		4.4E-05	1E-01	4.8E-06	2E-02	3.8E-06		1.6E-06			4.5E-05	2E-01	4.8E-06	2E-02	3.9E-06		1.7E-06		
	Copper	7440508	14	15	11	13	4.0E-02	--		1.1E-04	3E-03	1.2E-05	3E-04	9.2E-06		3.9E-06			1.3E-04	3E-03	1.4E-05	3E-04	1.1E-05		4.7E-06		
	Iron	7439896	12,000	9,960	11,000	10,987	7.0E-01	--		1.1E-01	2E-01	1.2E-02	2E-02	9.3E-03		4.0E-03			1.1E-01	2E-01	1.2E-02	2E-02	9.3E-03		4.0E-03		
	Lead	7439921	22	19	21	20			(c)																		
	Magnesium	7439954	3,980	2,770	4,590	3,780	--	--		4.5E-02		4.9E-03		3.9E-03		1.7E-03			3.7E-02		4.0E-03		3.2E-03		1.4E-03		
	Manganese	7439965	260	171	208	213	4.7E-02	--	(d)	2.1E-03	4E-02	2.2E-04	5E-03	1.8E-04		7.5E-05			2.1E-03	5E-02	2.3E-04	5E-03	1.8E-04		7.7E-05		
	Mercury	7439976	0.030	0.019	0.050	0.033	3.0E-04	--	(i)	4.9E-07	2E-03	5.2E-08	2E-04	4.2E-08		1.8E-08			3.2E-07	1E-03	3.5E-08	1E-04	2.8E-08		1.2E-08		
	Nickel	7440020	10.9	9.6	15.0	11.8	2.0E-02	--		1.5E-04	7E-03	1.6E-05	8E-04	1.3E-05		5.4E-06			1.2E-04	6E-03	1.3E-05	6E-04	1.0E-05		4.3E-06		
	Potassium	7440097	775	843	749	789	--	--		7.4E-03		7.9E-04		6.3E-04		2.7E-04			7.8E-03		8.3E-04		6.7E-04		2.9E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.55	0.50	0.45	0.50	5.0E-03	--		4.4E-06	9E-04	4.7E-07	9E-05	3.8E-07		1.6E-07			4.9E-06	1E-03	5.3E-07	1E-04	4.2E-07		1.8E-07		
	Sodium	7440235	155	131	134	140	--	--		1.3E-03		1.4E-04		1.1E-04		4.9E-05			1.4E-03		1.5E-04		1.2E-04		5.1E-05		
	Thallium	7440280	1.40	1.30	1.10	1.27	6.5E-05	--		1.1E-05	2E-01	1.2E-06	2E-02	9.3E-07		4.0E-07			1.2E-05	2E-01	1.3E-06	2E-02	1.1E-06		4.6E-07		
	Uranium	7440611	11.1	8.4	8.9	9.4	6.0E-04	--	(e)	8.7E-05	1E-01	9.4E-06	2E-02	7.5E-06		3.2E-06			9.3E-05	2E-01	1.0E-05	2E-02	8.0E-06		3.4E-06		
	Vanadium	7440622	21.7	19.6	21.9	21.1	7.0E-03	--		2.2E-04	3E-02	2.3E-05	3E-03	1.9E-05		7.9E-06			2.1E-04	3E-02	2.2E-05	3E-03	1.8E-05		7.6E-06		
	Zinc	7440666	97	67	92	85	3.0E-01	--		6.6E-04	2E-03	7.1E-05	2E-04	5.7E-05		2.4E-05			8.4E-04	3E-03	9.0E-05	3E-04	7.2E-05		3.1E-05		
									Total		**9E-01**		**1E-01**		**4E-06**		**2E-06**	**5E-06**		**9E-01**		**1E-01**		**4E-06**		**2E-06**	**6E-06**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Subsist_Modern

Exposure Area: Haag Cove

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	9.86E-06	1.06E-06
Cancer:	8.45E-07	3.62E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	13,000	7,660	3,000	7,887	1.0E+00	--		1.3E-01	1E-01	1.4E-02	1E-02	1.1E-02		4.7E-03			7.6E-02	8E-02	8.1E-03	8E-03	6.5E-03		2.8E-03		
	Antimony	7440360	1.8	1.8	0.3	1.3	4.0E-04	--		1.8E-05	4E-02	1.9E-06	5E-03	1.5E-06		6.5E-07			1.8E-05	4E-02	1.9E-06	5E-03	1.5E-06		6.5E-07		
	Arsenic	7440382	2.3	1.4	1.0	1.6	2.4E-04	1.9E+00	(j)	2.3E-05	9E-02	2.4E-06	1E-02	1.9E-06	4E-06	8.3E-07	2E-06	5E-06	1.4E-05	6E-02	1.5E-06	6E-03	1.2E-06	2E-06	5.1E-07	1E-06	3E-06
	Barium	7440393	232	102	30	121	2.0E-01	--		2.3E-03	1E-02	2.5E-04	1E-03	2.0E-04		8.4E-05			1.0E-03	5E-03	1.1E-04	5E-04	8.6E-05		3.7E-05		
	Beryllium	7440417	1.20	0.69	0.28	0.72	2.0E-03	--		1.2E-05	6E-03	1.3E-06	6E-04	1.0E-06		4.3E-07			6.8E-06	3E-03	7.3E-07	4E-04	5.8E-07		2.5E-07		
	Cadmium	7440439	7.80	4.40	0.32	4.17	1.0E-03	--	(a)	7.7E-05	8E-02	8.2E-06	8E-03	6.6E-06		2.8E-06			4.3E-05	4E-02	4.6E-06	5E-03	3.7E-06		1.6E-06		
	Calcium	7440702	5,670	2,550	879	3,033	--	--		5.6E-02		6.0E-03		4.8E-03		2.1E-03			2.5E-02		2.7E-03		2.2E-03		9.2E-04		
	Chromium	7440473	24.8	14.6	5.6	15.0	1.5E+00	--	(b)	2.4E-04	2E-04	2.6E-05	2E-05	2.1E-05		9.0E-06			1.4E-04	1E-04	1.5E-05	1E-05	1.2E-05		5.3E-06		
	Cobalt	7440484	8.7	5.2	2.3	5.4	3.0E-04	--		8.6E-05	3E-01	9.2E-06	3E-02	7.4E-06		3.2E-06			5.1E-05	2E-01	5.5E-06	2E-02	4.4E-06		1.9E-06		
	Copper	7440508	34	17	4	18	4.0E-02	--		3.4E-04	8E-03	3.6E-05	9E-04	2.9E-05		1.2E-05			1.6E-04	4E-03	1.7E-05	4E-04	1.4E-05		6.0E-06		
	Iron	7439896	18,100	11,800	5,180	11,693	7.0E-01	--		1.8E-01	3E-01	1.9E-02	3E-02	1.5E-02		6.6E-03			1.2E-01	2E-01	1.2E-02	2E-02	1.0E-02		4.3E-03		
	Lead	7439921	222	136	17	125			(c)																		
	Magnesium	7439954	5,220	3,210	1,390	3,273	--	--		5.1E-02		5.5E-03		4.4E-03		1.9E-03			3.2E-02		3.4E-03		2.7E-03		1.2E-03		
	Manganese	7439965	267	158	111	179	4.7E-02	--	(d)	2.6E-03	6E-02	2.8E-04	6E-03	2.3E-04		9.7E-05			1.6E-03	3E-02	1.7E-04	4E-03	1.3E-04		5.7E-05		
	Mercury	7439976	0.800	0.290	0.050	0.380	3.0E-04	--	(i)	7.9E-06	3E-02	8.5E-07	3E-03	6.8E-07		2.9E-07			2.9E-06	1E-02	3.1E-07	1E-03	2.5E-07		1.1E-07		
	Nickel	7440020	19.7	11.2	4.1	11.7	2.0E-02	--		1.9E-04	1E-02	2.1E-05	1E-03	1.7E-05		7.1E-06			1.1E-04	6E-03	1.2E-05	6E-04	9.5E-06		4.1E-06		
	Potassium	7440097	2,260	1,120	483	1,288	--	--		2.2E-02		2.4E-03		1.9E-03		8.2E-04			1.1E-02		1.2E-03		9.5E-04		4.1E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.75	0.60	0.43	0.59	5.0E-03	--		7.4E-06	1E-03	7.9E-07	2E-04	6.3E-07		2.7E-07			5.9E-06	1E-03	6.3E-07	1E-04	5.1E-07		2.2E-07		
	Sodium	7440235	242	125	60	142	--	--		2.4E-03		2.6E-04		2.0E-04		8.8E-05			1.2E-03		1.3E-04		1.1E-04		4.5E-05		
	Thallium	7440280	1.90	1.45	1.10	1.48	6.5E-05	--		1.9E-05	3E-01	2.0E-06	3E-02	1.6E-06		6.9E-07			1.4E-05	2E-01	1.5E-06	2E-02	1.2E-06		5.3E-07		
	Uranium	7440611	15.1	11.6	8.7	11.8	6.0E-04	--	(e)	1.5E-04	2E-01	1.6E-05	3E-02	1.3E-05		5.5E-06			1.1E-04	2E-01	1.2E-05	2E-02	9.8E-06		4.2E-06		
	Vanadium	7440622	29.0	19.8	9.1	19.3	7.0E-03	--		2.9E-04	4E-02	3.1E-05	4E-03	2.5E-05		1.1E-05			2.0E-04	3E-02	2.1E-05	3E-03	1.7E-05		7.2E-06		
	Zinc	7440666	700	391	54	382	3.0E-01	--		6.9E-03	2E-02	7.4E-04	2E-03	5.9E-04		2.5E-04			3.9E-03	1E-02	4.1E-04	1E-03	3.3E-04		1.4E-04		
								Total			**2E+00**		**2E-01**		**4E-06**		**2E-06**	**5E-06**		**1E+00**		**1E-01**		**2E-06**		**1E-06**	**3E-06**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:

(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Subsist_Modern

Exposure Area: Haag Cove

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	9.86E-06	1.06E-06
Cancer:	8.45E-07	3.62E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	13,000	7,660	3,000	7,887	1.0E+00	--		3.0E-02	3E-02	3.2E-03	3E-03	2.5E-03		1.1E-03			7.8E-02	8E-02	8.3E-03	8E-03	6.7E-03		2.9E-03		
	Antimony	7440360	1.8	1.8	0.3	1.3	4.0E-04	--		2.9E-06	7E-03	3.1E-07	8E-04	2.5E-07		1.1E-07			1.3E-05	3E-02	1.4E-06	3E-03	1.1E-06		4.7E-07		
	Arsenic	7440382	2.3	1.4	1.0	1.6	2.4E-04	1.9E+00	(j)	9.9E-06	4E-02	1.1E-06	4E-03	8.5E-07	2E-06	3.6E-07	7E-07	2E-06	1.5E-05	6E-02	1.7E-06	7E-03	1.3E-06	2E-06	5.7E-07	1E-06	4E-06
	Barium	7440393	232	102	30	121	2.0E-01	--		2.9E-04	1E-03	3.1E-05	2E-04	2.5E-05		1.1E-05			1.2E-03	6E-03	1.3E-04	6E-04	1.0E-04		4.4E-05		
	Beryllium	7440417	1.20	0.69	0.28	0.72	2.0E-03	--		2.8E-06	1E-03	3.0E-07	1E-04	2.4E-07		1.0E-07			7.1E-06	4E-03	7.6E-07	4E-04	6.1E-07		2.6E-07		
	Cadmium	7440439	7.80	4.40	0.32	4.17	1.0E-03	--	(a)	3.2E-06	3E-03	3.4E-07	3E-04	2.7E-07		1.2E-07			4.1E-05	4E-02	4.4E-06	4E-03	3.5E-06		1.5E-06		
	Calcium	7440702	5,670	2,550	879	3,033	--	--		8.7E-03		9.3E-04		7.4E-04		3.2E-04			3.0E-02		3.2E-03		2.6E-03		1.1E-03		
	Chromium	7440473	24.8	14.6	5.6	15.0	1.5E+00	--	(b)	5.5E-05	4E-05	5.9E-06	4E-06	4.7E-06		2.0E-06			1.5E-04	1E-04	1.6E-05	1E-05	1.3E-05		5.4E-06		
	Cobalt	7440484	8.7	5.2	2.3	5.4	3.0E-04	--		2.3E-05	8E-02	2.4E-06	8E-03	1.9E-06		8.3E-07			5.3E-05	2E-01	5.7E-06	2E-02	4.6E-06		2.0E-06		
	Copper	7440508	34	17	4	18	4.0E-02	--		4.1E-05	1E-03	4.4E-06	1E-04	3.6E-06		1.5E-06			1.8E-04	4E-03	1.9E-05	5E-04	1.5E-05		6.6E-06		
	Iron	7439896	18,100	11,800	5,180	11,693	7.0E-01	--		5.1E-02	7E-02	5.5E-03	8E-03	4.4E-03		1.9E-03			1.2E-01	2E-01	1.2E-02	2E-02	9.9E-03		4.2E-03		
	Lead	7439921	222	136	17	125			(c)																		
	Magnesium	7439954	5,220	3,210	1,390	3,273	--	--		1.4E-02		1.5E-03		1.2E-03		5.0E-04			3.2E-02		3.5E-03		2.8E-03		1.2E-03		
	Manganese	7439965	267	158	111	179	4.7E-02	--	(d)	1.1E-03	2E-02	1.2E-04	3E-03	9.4E-05		4.0E-05			1.8E-03	4E-02	1.9E-04	4E-03	1.5E-04		6.5E-05		
	Mercury	7439976	0.800	0.290	0.050	0.380	3.0E-04	--	(i)	4.9E-07	2E-03	5.2E-08	2E-04	4.2E-08		1.8E-08			3.7E-06	1E-02	4.0E-07	1E-03	3.2E-07		1.4E-07		
	Nickel	7440020	19.7	11.2	4.1	11.7	2.0E-02	--		4.0E-05	2E-03	4.3E-06	2E-04	3.5E-06		1.5E-06			1.2E-04	6E-03	1.2E-05	6E-04	9.9E-06		4.2E-06		
	Potassium	7440097	2,260	1,120	483	1,288	--	--		4.8E-03		5.1E-04		4.1E-04		1.7E-04			1.3E-02		1.4E-03		1.1E-03		4.7E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.75	0.60	0.43	0.59	5.0E-03	--		4.2E-06	8E-04	4.5E-07	9E-05	3.6E-07		1.6E-07			5.9E-06	1E-03	6.3E-07	1E-04	5.0E-07		2.1E-07		
	Sodium	7440235	242	125	60	142	--	--		6.0E-04		6.4E-05		5.1E-05		2.2E-05			1.4E-03		1.5E-04		1.2E-04		5.2E-05		
	Thallium	7440280	1.90	1.45	1.10	1.48	6.5E-05	--		1.1E-05	2E-01	1.2E-06	2E-02	9.3E-07		4.0E-07			1.5E-05	2E-01	1.6E-06	2E-02	1.3E-06		5.4E-07		
	Uranium	7440611	15.1	11.6	8.7	11.8	6.0E-04	--	(e)	8.5E-05	1E-01	9.1E-06	2E-02	7.3E-06		3.1E-06			1.2E-04	2E-01	1.2E-05	2E-02	9.9E-06		4.3E-06		
	Vanadium	7440622	29.0	19.8	9.1	19.3	7.0E-03	--		9.0E-05	1E-02	9.6E-06	1E-03	7.7E-06		3.3E-06			1.9E-04	3E-02	2.0E-05	3E-03	1.6E-05		7.0E-06		
	Zinc	7440666	700	391	54	382	3.0E-01	--		3.9E-03	1E-02	4.1E-04	1E-03	3.3E-04		1.4E-04			3.8E-03	1E-02	4.0E-04	1E-03	3.2E-04		1.4E-04		
									Total		**6E-01**		**6E-02**		**2E-06**		**7E-07**	**2E-06**		**1E+00**		**1E-01**		**2E-06**		**1E-06**	**4E-06**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**			

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:

(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Subsist_Modern

Exposure Area: Keller Ferry No. 2

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	9.86E-06	1.06E-06
Cancer:	8.45E-07	3.62E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	8,620	8,030	6,270	7,640	1.0E+00	--		8.5E-02	9E-02	9.1E-03	9E-03	7.3E-03		3.1E-03			7.9E-02	8E-02	8.5E-03	8E-03	6.8E-03		2.9E-03		
	Antimony	7440360	#N/A	#N/A	#N/A	#N/A	4.0E-04	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Arsenic	7440382	4.7	4.9	4.0	4.5	2.4E-04	1.9E+00	(j)	4.6E-05	2E-01	5.0E-06	2E-02	4.0E-06	7E-06	1.7E-06	3E-06	1E-05	4.8E-05	2E-01	5.2E-06	2E-02	4.1E-06	8E-06	1.8E-06	3E-06	1E-05
	Barium	7440393	69	59	46	58	2.0E-01	--		6.8E-04	3E-03	7.3E-05	4E-04	5.8E-05		2.5E-05			5.8E-04	3E-03	6.2E-05	3E-04	5.0E-05		2.1E-05		
	Beryllium	7440417	0.74	0.68	0.51	0.64	2.0E-03	--		7.3E-06	4E-03	7.8E-07	4E-04	6.3E-07		2.7E-07			6.7E-06	3E-03	7.2E-07	4E-04	5.7E-07		2.5E-07		
	Cadmium	7440439	0.25	0.24	0.25	0.25	1.0E-03	--	(a)	2.5E-06	2E-03	2.6E-07	3E-04	2.1E-07		9.1E-08			2.4E-06	2E-03	2.5E-07	3E-04	2.0E-07		8.7E-08		
	Calcium	7440702	1,940	1,760	3,880	2,527	--	--		1.9E-02		2.1E-03		1.6E-03		7.0E-04			1.7E-02		1.9E-03		1.5E-03		6.4E-04		
	Chromium	7440473	12.5	11.2	9.8	11.2	1.5E+00	--	(b)	1.2E-04	8E-05	1.3E-05	9E-06	1.1E-05		4.5E-06			1.1E-04	7E-05	1.2E-05	8E-06	9.5E-06		4.1E-06		
	Cobalt	7440484	5.4	5.0	3.9	4.8	3.0E-04	--		5.3E-05	2E-01	5.7E-06	2E-02	4.6E-06		2.0E-06			4.9E-05	2E-01	5.3E-06	2E-02	4.2E-06		1.8E-06		
	Copper	7440508	9	9	7	8	4.0E-02	--		9.0E-05	2E-03	9.6E-06	2E-04	7.7E-06		3.3E-06			8.5E-05	2E-03	9.1E-06	2E-04	7.3E-06		3.1E-06		
	Iron	7439896	15,600	15,500	13,100	14,733	7.0E-01	--		1.5E-01	2E-01	1.6E-02	2E-02	1.3E-02		5.7E-03			1.5E-01	2E-01	1.6E-02	2E-02	1.3E-02		5.6E-03		
	Lead	7439921	6	6	5	6			(c)																		
	Magnesium	7439954	4,210	4,390	4,330	4,310	--	--		4.2E-02		4.4E-03		3.6E-03		1.5E-03			4.3E-02		4.6E-03		3.7E-03		1.6E-03		
	Manganese	7439965	248	230	214	231	4.7E-02	--	(d)	2.4E-03	5E-02	2.6E-04	6E-03	2.1E-04		9.0E-05			2.3E-03	5E-02	2.4E-04	5E-03	1.9E-04		8.3E-05		
	Mercury	7439976	0.055	0.055	0.055	0.055	3.0E-04	--	(i)	5.4E-07	2E-03	5.8E-08	2E-04	4.6E-08		2.0E-08			5.4E-07	2E-03	5.8E-08	2E-04	4.6E-08		2.0E-08		
	Nickel	7440020	10.1	9.4	8.5	9.3	2.0E-02	--		1.0E-04	5E-03	1.1E-05	5E-04	8.5E-06		3.7E-06			9.3E-05	5E-03	9.9E-06	5E-04	7.9E-06		3.4E-06		
	Potassium	7440097	1,640	1,410	1,080	1,377	--	--		1.6E-02		1.7E-03		1.4E-03		5.9E-04			1.4E-02		1.5E-03		1.2E-03		5.1E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.50	0.48	0.50	0.49	5.0E-03	--		4.9E-06	1E-03	5.3E-07	1E-04	4.2E-07		1.8E-07			4.7E-06	9E-04	5.1E-07	1E-04	4.1E-07		1.7E-07		
	Sodium	7440235	75	58	49	61	--	--		7.4E-04		7.9E-05		6.3E-05		2.7E-05			5.7E-04		6.1E-05		4.9E-05		2.1E-05		
	Thallium	7440280	1.25	1.20	1.25	1.23	6.5E-05	--		1.2E-05	2E-01	1.3E-06	2E-02	1.1E-06		4.5E-07			1.2E-05	2E-01	1.3E-06	2E-02	1.0E-06		4.3E-07		
	Uranium	7440611	5.4	4.6	10.1	6.7	6.0E-04	--	(e)	5.3E-05	9E-02	5.7E-06	1E-02	4.6E-06		2.0E-06			4.5E-05	8E-02	4.9E-06	8E-03	3.9E-06		1.7E-06		
	Vanadium	7440622	19.5	17.2	14.0	16.9	7.0E-03	--		1.9E-04	3E-02	2.1E-05	3E-03	1.6E-05		7.1E-06			1.7E-04	2E-02	1.8E-05	3E-03	1.5E-05		6.2E-06		
	Zinc	7440666	39	44	37	40	3.0E-01	--		3.9E-04	1E-03	4.1E-05	1E-04	3.3E-05		1.4E-05			4.4E-04	1E-03	4.7E-05	2E-04	3.7E-05		1.6E-05		
									Total		**1E+00**		**1E-01**		**7E-06**		**3E-06**	**1E-05**		**1E+00**		**1E-01**		**8E-06**		**3E-06**	**1E-05**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Subsist_Modern

Exposure Area: Keller Ferry No. 2

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	9.86E-06	1.06E-06
Cancer:	8.45E-07	3.62E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	8,620	8,030	6,270	7,640	1.0E+00	--		6.2E-02	6E-02	6.6E-03	7E-03	5.3E-03		2.3E-03			7.5E-02	8E-02	8.1E-03	8E-03	6.5E-03		2.8E-03		
	Antimony	7440360	#N/A	#N/A	#N/A	#N/A	4.0E-04	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Arsenic	7440382	4.7	4.9	4.0	4.5	2.4E-04	1.9E+00	(j)	3.9E-05	2E-01	4.2E-06	2E-02	3.4E-06	6E-06	1.4E-06	3E-06	9E-06	4.5E-05	2E-01	4.8E-06	2E-02	3.8E-06	7E-06	1.6E-06	3E-06	1E-05
	Barium	7440393	69	59	46	58	2.0E-01	--		4.5E-04	2E-03	4.8E-05	2E-04	3.9E-05		1.7E-05			5.7E-04	3E-03	6.1E-05	3E-04	4.9E-05		2.1E-05		
	Beryllium	7440417	0.74	0.68	0.51	0.64	2.0E-03	--		5.0E-06	3E-03	5.4E-07	3E-04	4.3E-07		1.8E-07			6.3E-06	3E-03	6.8E-07	3E-04	5.4E-07		2.3E-07		
	Cadmium	7440439	0.25	0.24	0.25	0.25	1.0E-03	--	(a)	2.5E-06	2E-03	2.6E-07	3E-04	2.1E-07		9.1E-08			2.4E-06	2E-03	2.6E-07	3E-04	2.1E-07		8.9E-08		
	Calcium	7440702	1,940	1,760	3,880	2,527	--	--		3.8E-02		4.1E-03		3.3E-03		1.4E-03			2.5E-02		2.7E-03		2.1E-03		9.2E-04		
	Chromium	7440473	12.5	11.2	9.8	11.2	1.5E+00	--	(b)	9.7E-05	6E-05	1.0E-05	7E-06	8.3E-06		3.6E-06			1.1E-04	7E-05	1.2E-05	8E-06	9.4E-06		4.0E-06		
	Cobalt	7440484	5.4	5.0	3.9	4.8	3.0E-04	--		3.8E-05	1E-01	4.1E-06	1E-02	3.3E-06		1.4E-06			4.7E-05	2E-01	5.0E-06	2E-02	4.0E-06		1.7E-06		
	Copper	7440508	9	9	7	8	4.0E-02	--		6.6E-05	2E-03	7.1E-06	2E-04	5.7E-06		2.4E-06			8.0E-05	2E-03	8.6E-06	2E-04	6.9E-06		2.9E-06		
	Iron	7439896	15,600	15,500	13,100	14,733	7.0E-01	--		1.3E-01	2E-01	1.4E-02	2E-02	1.1E-02		4.7E-03			1.5E-01	2E-01	1.6E-02	2E-02	1.2E-02		5.3E-03		
	Lead	7439921	6	6	5	6			(c)																		
	Magnesium	7439954	4,210	4,390	4,330	4,310	--	--		4.3E-02		4.6E-03		3.7E-03		1.6E-03			4.3E-02		4.6E-03		3.6E-03		1.6E-03		
	Manganese	7439965	248	230	214	231	4.7E-02	--	(d)	2.1E-03	5E-02	2.3E-04	5E-03	1.8E-04		7.8E-05			2.3E-03	5E-02	2.4E-04	5E-03	2.0E-04		8.4E-05		
	Mercury	7439976	0.055	0.055	0.055	0.055	3.0E-04	--	(i)	5.4E-07	2E-03	5.8E-08	2E-04	4.6E-08		2.0E-08			5.4E-07	2E-03	5.8E-08	2E-04	4.6E-08		2.0E-08		
	Nickel	7440020	10.1	9.4	8.5	9.3	2.0E-02	--		8.4E-05	4E-03	9.0E-06	4E-04	7.2E-06		3.1E-06			9.2E-05	5E-03	9.9E-06	5E-04	7.9E-06		3.4E-06		
	Potassium	7440097	1,640	1,410	1,080	1,377	--	--		1.1E-02		1.1E-03		9.1E-04		3.9E-04			1.4E-02		1.5E-03		1.2E-03		5.0E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.50	0.48	0.50	0.49	5.0E-03	--		4.9E-06	1E-03	5.3E-07	1E-04	4.2E-07		1.8E-07			4.9E-06	1E-03	5.2E-07	1E-04	4.2E-07		1.8E-07		
	Sodium	7440235	75	58	49	61	--	--		4.9E-04		5.2E-05		4.2E-05		1.8E-05			6.0E-04		6.4E-05		5.1E-05		2.2E-05		
	Thallium	7440280	1.25	1.20	1.25	1.23	6.5E-05	--		1.2E-05	2E-01	1.3E-06	2E-02	1.1E-06		4.5E-07			1.2E-05	2E-01	1.3E-06	2E-02	1.0E-06		4.5E-07		
	Uranium	7440611	5.4	4.6	10.1	6.7	6.0E-04	--	(e)	1.0E-04	2E-01	1.1E-05	2E-02	8.5E-06		3.7E-06			6.6E-05	1E-01	7.1E-06	1E-02	5.7E-06		2.4E-06		
	Vanadium	7440622	19.5	17.2	14.0	16.9	7.0E-03	--		1.4E-04	2E-02	1.5E-05	2E-03	1.2E-05		5.1E-06			1.7E-04	2E-02	1.8E-05	3E-03	1.4E-05		6.1E-06		
	Zinc	7440666	39	44	37	40	3.0E-01	--		4.4E-04	1E-03	4.7E-05	2E-04	3.7E-05		1.6E-05			4.0E-04	1E-03	4.2E-05	1E-04	3.4E-05		1.5E-05		
									Total		**1E+00**		**1E-01**		**6E-06**		**3E-06**	**9E-06**		**1E+00**		**1E-01**		**7E-06**		**3E-06**	**1E-05**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:

(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Subsist_Modern

Exposure Area: Kettle Falls Swim Beach

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	9.86E-06	1.06E-06
Cancer:	8.45E-07	3.62E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	10,277	5,137	4,900	6,771	1.0E+00	--		1.0E-01	1E-01	1.1E-02	1E-02	8.7E-03		3.7E-03			5.1E-02	5E-02	5.4E-03	5E-03	4.3E-03		1.9E-03		
	Antimony	7440360	0.7	1.5	1.2	1.1	4.0E-04	--		6.8E-06	2E-02	7.3E-07	2E-03	5.8E-07		2.5E-07			1.5E-05	4E-02	1.6E-06	4E-03	1.3E-06		5.4E-07		
	Arsenic	7440382	1.9	1.3	1.6	1.6	2.4E-04	1.9E+00	(j)	1.8E-05	8E-02	2.0E-06	8E-03	1.6E-06	3E-06	6.8E-07	1E-06	4E-06	1.2E-05	5E-02	1.3E-06	6E-03	1.1E-06	2E-06	4.6E-07	9E-07	3E-06
	Barium	7440393	104	40	43	62	2.0E-01	--		1.0E-03	5E-03	1.1E-04	5E-04	8.8E-05		3.8E-05			3.9E-04	2E-03	4.2E-05	2E-04	3.4E-05		1.4E-05		
	Beryllium	7440417	0.86	0.37	0.33	0.52	2.0E-03	--		8.5E-06	4E-03	9.1E-07	5E-04	7.3E-07		3.1E-07			3.6E-06	2E-03	3.9E-07	2E-04	3.1E-07		1.3E-07		
	Cadmium	7440439	0.26	0.16	0.15	0.19	1.0E-03	--	(a)	2.5E-06	3E-03	2.7E-07	3E-04	2.2E-07		9.3E-08			1.6E-06	2E-03	1.7E-07	2E-04	1.4E-07		5.9E-08		
	Calcium	7440702	8,840	2,470	2,023	4,444	--	--		8.7E-02		9.3E-03		7.5E-03		3.2E-03			2.4E-02		2.6E-03		2.1E-03		8.9E-04		
	Chromium	7440473	22.9	9.8	9.8	14.2	1.5E+00	--	(b)	2.3E-04	2E-04	2.4E-05	2E-05	1.9E-05		8.3E-06			9.6E-05	6E-05	1.0E-05	7E-06	8.3E-06		3.5E-06		
	Cobalt	7440484	8.0	3.6	3.4	5.0	3.0E-04	--		7.9E-05	3E-01	8.5E-06	3E-02	6.8E-06		2.9E-06			3.6E-05	1E-01	3.8E-06	1E-02	3.0E-06		1.3E-06		
	Copper	7440508	18	10	10	12	4.0E-02	--		1.7E-04	4E-03	1.9E-05	5E-04	1.5E-05		6.4E-06			9.4E-05	2E-03	1.0E-05	3E-04	8.0E-06		3.4E-06		
	Iron	7439896	17,433	9,647	9,530	12,203	7.0E-01	--		1.7E-01	2E-01	1.8E-02	3E-02	1.5E-02		6.3E-03			9.5E-02	1E-01	1.0E-02	1E-02	8.2E-03		3.5E-03		
	Lead	7439921	9	6	5	7			(c)																		
	Magnesium	7439954	6,343	2,883	2,887	4,038	--	--		6.3E-02		6.7E-03		5.4E-03		2.3E-03			2.8E-02		3.0E-03		2.4E-03		1.0E-03		
	Manganese	7439965	381	151	177	236	4.7E-02	--	(d)	3.8E-03	8E-02	4.0E-04	9E-03	3.2E-04		1.4E-04			1.5E-03	3E-02	1.6E-04	3E-03	1.3E-04		5.5E-05		
	Mercury	7439976	0.006	0.052	0.053	0.037	3.0E-04	--	(i)	5.8E-08	2E-04	6.2E-09	2E-05	5.0E-09		2.1E-09			5.1E-07	2E-03	5.5E-08	2E-04	4.4E-08		1.9E-08		
	Nickel	7440020	18.7	7.8	7.8	11.4	2.0E-02	--		1.8E-04	9E-03	2.0E-05	1E-03	1.6E-05		6.8E-06			7.7E-05	4E-03	8.2E-06	4E-04	6.6E-06		2.8E-06		
	Potassium	7440097	1,804	624	555	995	--	--		1.8E-02		1.9E-03		1.5E-03		6.5E-04			6.2E-03		6.6E-04		5.3E-04		2.3E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.52	0.46	0.47	0.48	5.0E-03	--		5.1E-06	1E-03	5.4E-07	1E-04	4.4E-07		1.9E-07			4.5E-06	9E-04	4.8E-07	1E-04	3.8E-07		1.6E-07		
	Sodium	7440235	262	115	97	158	--	--		2.6E-03		2.8E-04		2.2E-04		9.5E-05			1.1E-03		1.2E-04		9.7E-05		4.2E-05		
	Thallium	7440280	1.30	1.13	1.17	1.20	6.5E-05	--		1.3E-05	2E-01	1.4E-06	2E-02	1.1E-06		4.7E-07			1.1E-05	2E-01	1.2E-06	2E-02	9.6E-07		4.1E-07		
	Uranium	7440611	10.4	9.0	9.3	9.6	6.0E-04	--	(e)	1.0E-04	2E-01	1.1E-05	2E-02	8.8E-06		3.8E-06			8.8E-05	1E-01	9.5E-06	2E-02	7.6E-06		3.2E-06		
	Vanadium	7440622	33.7	20.4	20.7	24.9	7.0E-03	--		3.3E-04	5E-02	3.6E-05	5E-03	2.8E-05		1.2E-05			2.0E-04	3E-02	2.2E-05	3E-03	1.7E-05		7.4E-06		
	Zinc	7440666	55	36	34	42	3.0E-01	--		5.5E-04	2E-03	5.9E-05	2E-04	4.7E-05		2.0E-05			3.6E-04	1E-03	3.8E-05	1E-04	3.1E-05		1.3E-05		
									Total		**1E+00**		**1E-01**		**3E-06**		**1E-06**	**4E-06**		**8E-01**		**8E-02**		**2E-06**		**9E-07**	**3E-06**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Subsist_Modern

Exposure Area: Kettle Falls Swim Beach

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	9.86E-06	1.06E-06
Cancer:	8.45E-07	3.62E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	10,277	5,137	4,900	6,771	1.0E+00	--		4.8E-02	5E-02	5.2E-03	5E-03	4.1E-03		1.8E-03			6.7E-02	7E-02	7.2E-03	7E-03	5.7E-03		2.5E-03		
	Antimony	7440360	0.7	1.5	1.2	1.1	4.0E-04	--		1.2E-05	3E-02	1.3E-06	3E-03	1.0E-06		4.4E-07			1.1E-05	3E-02	1.2E-06	3E-03	9.5E-07		4.1E-07		
	Arsenic	7440382	1.9	1.3	1.6	1.6	2.4E-04	1.9E+00	(j)	1.5E-05	6E-02	1.7E-06	7E-03	1.3E-06	2E-06	5.7E-07	1E-06	4E-06	1.5E-05	6E-02	1.7E-06	7E-03	1.3E-06	2E-06	5.7E-07	1E-06	4E-06
	Barium	7440393	104	40	43	62	2.0E-01	--		4.3E-04	2E-03	4.6E-05	2E-04	3.7E-05		1.6E-05			6.1E-04	3E-03	6.6E-05	3E-04	5.3E-05		2.3E-05		
	Beryllium	7440417	0.86	0.37	0.33	0.52	2.0E-03	--		3.3E-06	2E-03	3.5E-07	2E-04	2.8E-07		1.2E-07			5.1E-06	3E-03	5.5E-07	3E-04	4.4E-07		1.9E-07		
	Cadmium	7440439	0.26	0.16	0.15	0.19	1.0E-03	--	(a)	1.4E-06	1E-03	1.5E-07	2E-04	1.2E-07		5.3E-08			1.9E-06	2E-03	2.0E-07	2E-04	1.6E-07		6.8E-08		
	Calcium	7440702	8,840	2,470	2,023	4,444	--	--		2.0E-02		2.1E-03		1.7E-03		7.3E-04			4.4E-02		4.7E-03		3.8E-03		1.6E-03		
	Chromium	7440473	22.9	9.8	9.8	14.2	1.5E+00	--	(b)	9.7E-05	6E-05	1.0E-05	7E-06	8.3E-06		3.6E-06			1.4E-04	9E-05	1.5E-05	1E-05	1.2E-05		5.1E-06		
	Cobalt	7440484	8.0	3.6	3.4	5.0	3.0E-04	--		3.3E-05	1E-01	3.6E-06	1E-02	2.8E-06		1.2E-06			4.9E-05	2E-01	5.3E-06	2E-02	4.2E-06		1.8E-06		
	Copper	7440508	18	10	10	12	4.0E-02	--		1.0E-04	2E-03	1.1E-05	3E-04	8.6E-06		3.7E-06			1.2E-04	3E-03	1.3E-05	3E-04	1.0E-05		4.5E-06		
	Iron	7439896	17,433	9,647	9,530	12,203	7.0E-01	--		9.4E-02	1E-01	1.0E-02	1E-02	8.1E-03		3.5E-03			1.2E-01	2E-01	1.3E-02	2E-02	1.0E-02		4.4E-03		
	Lead	7439921	9	6	5	7			(c)																		
	Magnesium	7439954	6,343	2,883	2,887	4,038	--	--		2.8E-02		3.1E-03		2.4E-03		1.0E-03			4.0E-02		4.3E-03		3.4E-03		1.5E-03		
	Manganese	7439965	381	151	177	236	4.7E-02	--	(d)	1.7E-03	4E-02	1.9E-04	4E-03	1.5E-04		6.4E-05			2.3E-03	5E-02	2.5E-04	5E-03	2.0E-04		8.6E-05		
	Mercury	7439976	0.006	0.052	0.053	0.037	3.0E-04	--	(i)	5.2E-07	2E-03	5.6E-08	2E-04	4.5E-08		1.9E-08			3.6E-07	1E-03	3.9E-08	1E-04	3.1E-08		1.3E-08		
	Nickel	7440020	18.7	7.8	7.8	11.4	2.0E-02	--		7.7E-05	4E-03	8.2E-06	4E-04	6.6E-06		2.8E-06			1.1E-04	6E-03	1.2E-05	6E-04	9.7E-06		4.1E-06		
	Potassium	7440097	1,804	624	555	995	--	--		5.5E-03		5.9E-04		4.7E-04		2.0E-04			9.8E-03		1.1E-03		8.4E-04		3.6E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.52	0.46	0.47	0.48	5.0E-03	--		4.6E-06	9E-04	4.9E-07	1E-04	3.9E-07		1.7E-07			4.7E-06	9E-04	5.1E-07	1E-04	4.0E-07		1.7E-07		
	Sodium	7440235	262	115	97	158	--	--		9.5E-04		1.0E-04		8.2E-05		3.5E-05			1.6E-03		1.7E-04		1.3E-04		5.7E-05		
	Thallium	7440280	1.30	1.13	1.17	1.20	6.5E-05	--		1.2E-05	2E-01	1.2E-06	2E-02	9.9E-07		4.2E-07			1.2E-05	2E-01	1.3E-06	2E-02	1.0E-06		4.3E-07		
	Uranium	7440611	10.4	9.0	9.3	9.6	6.0E-04	--	(e)	9.2E-05	2E-01	9.9E-06	2E-02	7.9E-06		3.4E-06			9.4E-05	2E-01	1.0E-05	2E-02	8.1E-06		3.5E-06		
	Vanadium	7440622	33.7	20.4	20.7	24.9	7.0E-03	--		2.0E-04	3E-02	2.2E-05	3E-03	1.8E-05		7.5E-06			2.5E-04	4E-02	2.6E-05	4E-03	2.1E-05		9.0E-06		
	Zinc	7440666	55	36	34	42	3.0E-01	--		3.6E-04	1E-03	3.8E-05	1E-04	3.1E-05		1.3E-05			4.1E-04	1E-03	4.4E-05	1E-04	3.5E-05		1.5E-05		
									Total		**8E-01**		**9E-02**		**2E-06**		**1E-06**	**4E-06**		**9E-01**		**1E-01**		**2E-06**		**1E-06**	**4E-06**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:

(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Subsist_Modern

Exposure Area: Lincoln Mill Boat Ramp

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	9.86E-06	1.06E-06
Cancer:	8.45E-07	3.62E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	5,070	6,900	7,160	6,377	1.0E+00	--		5.0E-02	5E-02	5.4E-03	5E-03	4.3E-03		1.8E-03			6.8E-02	7E-02	7.3E-03	7E-03	5.8E-03		2.5E-03		
	Antimony	7440360	#N/A	#N/A	#N/A	#N/A	4.0E-04	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Arsenic	7440382	5.9	6.7	5.9	6.2	2.4E-04	1.9E+00	(j)	5.8E-05	2E-01	6.2E-06	3E-02	5.0E-06	9E-06	2.1E-06	4E-06	1E-05	6.6E-05	3E-01	7.1E-06	3E-02	5.7E-06	1E-05	2.4E-06	5E-06	2E-05
	Barium	7440393	35	34	61	43	2.0E-01	--		3.4E-04	2E-03	3.7E-05	2E-04	3.0E-05		1.3E-05			3.3E-04	2E-03	3.6E-05	2E-04	2.8E-05		1.2E-05		
	Beryllium	7440417	0.32	0.43	0.47	0.41	2.0E-03	--		3.2E-06	2E-03	3.4E-07	2E-04	2.7E-07		1.2E-07			4.2E-06	2E-03	4.5E-07	2E-04	3.6E-07		1.6E-07		
	Cadmium	7440439	0.24	0.06	0.06	0.12	1.0E-03	--	(a)	2.3E-06	2E-03	2.5E-07	2E-04	2.0E-07		8.5E-08			5.7E-07	6E-04	6.1E-08	6E-05	4.9E-08		2.1E-08		
	Calcium	7440702	10,300	15,100	11,500	12,300	--	--		1.0E-01		1.1E-02		8.7E-03		3.7E-03			1.5E-01		1.6E-02		1.3E-02		5.5E-03		
	Chromium	7440473	6.2	9.1	9.6	8.3	1.5E+00	--	(b)	6.1E-05	4E-05	6.6E-06	4E-06	5.2E-06		2.2E-06			9.0E-05	6E-05	9.6E-06	6E-06	7.7E-06		3.3E-06		
	Cobalt	7440484	3.0	3.5	14.2	6.9	3.0E-04	--		3.0E-05	1E-01	3.2E-06	1E-02	2.5E-06		1.1E-06			3.5E-05	1E-01	3.7E-06	1E-02	3.0E-06		1.3E-06		
	Copper	7440508	7	10	12	10	4.0E-02	--		7.2E-05	2E-03	7.7E-06	2E-04	6.2E-06		2.6E-06			9.9E-05	2E-03	1.1E-05	3E-04	8.5E-06		3.6E-06		
	Iron	7439896	10,200	12,600	14,200	12,333	7.0E-01	--		1.0E-01	1E-01	1.1E-02	2E-02	8.6E-03		3.7E-03			1.2E-01	2E-01	1.3E-02	2E-02	1.1E-02		4.6E-03		
	Lead	7439921	4	5	6	5			(c)																		
	Magnesium	7439954	5,320	6,240	6,530	6,030	--	--		5.2E-02		5.6E-03		4.5E-03		1.9E-03			6.2E-02		6.6E-03		5.3E-03		2.3E-03		
	Manganese	7439965	217	224	334	258	4.7E-02	--	(d)	2.1E-03	5E-02	2.3E-04	5E-03	1.8E-04		7.9E-05			2.2E-03	5E-02	2.4E-04	5E-03	1.9E-04		8.1E-05		
	Mercury	7439976	0.049	0.055	0.050	0.051	3.0E-04	--	(i)	4.8E-07	2E-03	5.2E-08	2E-04	4.1E-08		1.8E-08			5.4E-07	2E-03	5.8E-08	2E-04	4.6E-08		2.0E-08		
	Nickel	7440020	6.1	7.8	8.5	7.5	2.0E-02	--		6.0E-05	3E-03	6.4E-06	3E-04	5.2E-06		2.2E-06			7.7E-05	4E-03	8.2E-06	4E-04	6.6E-06		2.8E-06		
	Potassium	7440097	1,140	1,410	1,350	1,300	--	--		1.1E-02		1.2E-03		9.6E-04		4.1E-04			1.4E-02		1.5E-03		1.2E-03		5.1E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.47	0.49	0.47	0.47	5.0E-03	--		4.6E-06	9E-04	5.0E-07	1E-04	4.0E-07		1.7E-07			4.8E-06	1E-03	5.1E-07	1E-04	4.1E-07		1.8E-07		
	Sodium	7440235	57	97	98	84	--	--		5.6E-04		6.0E-05		4.8E-05		2.1E-05			9.6E-04		1.0E-04		8.2E-05		3.5E-05		
	Thallium	7440280	1.15	1.20	1.15	1.17	6.5E-05	--		1.1E-05	2E-01	1.2E-06	2E-02	9.7E-07		4.2E-07			1.2E-05	2E-01	1.3E-06	2E-02	1.0E-06		4.3E-07		
	Uranium	7440611	6.3	6.4	6.9	6.5	6.0E-04	--	(e)	6.2E-05	1E-01	6.7E-06	1E-02	5.3E-06		2.3E-06			6.3E-05	1E-01	6.8E-06	1E-02	5.4E-06		2.3E-06		
	Vanadium	7440622	8.4	10.8	13.4	10.9	7.0E-03	--		8.3E-05	1E-02	8.9E-06	1E-03	7.1E-06		3.0E-06			1.1E-04	2E-02	1.1E-05	2E-03	9.1E-06		3.9E-06		
	Zinc	7440666	27	30	36	31	3.0E-01	--		2.6E-04	9E-04	2.8E-05	9E-05	2.2E-05		9.6E-06			3.0E-04	1E-03	3.2E-05	1E-04	2.5E-05		1.1E-05		
									Total		**9E-01**		**9E-02**		**9E-06**		**4E-06**	**1E-05**		**1E+00**		**1E-01**		**1E-05**		**5E-06**	**2E-05**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**			

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Subsist_Modern

Exposure Area: Lincoln Mill Boat Ramp

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	9.86E-06	1.06E-06
Cancer:	8.45E-07	3.62E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	5,070	6,900	7,160	6,377	1.0E+00	--		7.1E-02	7E-02	7.6E-03	8E-03	6.1E-03		2.6E-03			6.3E-02	6E-02	6.7E-03	7E-03	5.4E-03		2.3E-03		
	Antimony	7440360	#N/A	#N/A	#N/A	#N/A	4.0E-04	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Arsenic	7440382	5.9	6.7	5.9	6.2	2.4E-04	1.9E+00	(j)	5.8E-05	2E-01	6.2E-06	3E-02	5.0E-06	9E-06	2.1E-06	4E-06	1E-05	6.1E-05	3E-01	6.5E-06	3E-02	5.2E-06	1E-05	2.2E-06	4E-06	1E-05
	Barium	7440393	35	34	61	43	2.0E-01	--		6.0E-04	3E-03	6.4E-05	3E-04	5.2E-05		2.2E-05			4.3E-04	2E-03	4.6E-05	2E-04	3.6E-05		1.6E-05		
	Beryllium	7440417	0.32	0.43	0.47	0.41	2.0E-03	--		4.6E-06	2E-03	5.0E-07	2E-04	4.0E-07		1.7E-07			4.0E-06	2E-03	4.3E-07	2E-04	3.4E-07		1.5E-07		
	Cadmium	7440439	0.24	0.06	0.06	0.12	1.0E-03	--	(a)	6.3E-07	6E-04	6.8E-08	7E-05	5.4E-08		2.3E-08			1.2E-06	1E-03	1.3E-07	1E-04	1.0E-07		4.3E-08		
	Calcium	7440702	10,300	15,100	11,500	12,300	--	--		1.1E-01		1.2E-02		9.7E-03		4.2E-03			1.2E-01		1.3E-02		1.0E-02		4.5E-03		
	Chromium	7440473	6.2	9.1	9.6	8.3	1.5E+00	--	(b)	9.5E-05	6E-05	1.0E-05	7E-06	8.1E-06		3.5E-06			8.2E-05	5E-05	8.8E-06	6E-06	7.0E-06		3.0E-06		
	Cobalt	7440484	3.0	3.5	14.2	6.9	3.0E-04	--		1.4E-04	5E-01	1.5E-05	5E-02	1.2E-05		5.1E-06			6.8E-05	2E-01	7.3E-06	2E-02	5.8E-06		2.5E-06		
	Copper	7440508	7	10	12	10	4.0E-02	--		1.1E-04	3E-03	1.2E-05	3E-04	9.7E-06		4.2E-06			9.5E-05	2E-03	1.0E-05	3E-04	8.1E-06		3.5E-06		
	Iron	7439896	10,200	12,600	14,200	12,333	7.0E-01	--		1.4E-01	2E-01	1.5E-02	2E-02	1.2E-02		5.1E-03			1.2E-01	2E-01	1.3E-02	2E-02	1.0E-02		4.5E-03		
	Lead	7439921	4	5	6	5			(c)																		
	Magnesium	7439954	5,320	6,240	6,530	6,030	--	--		6.4E-02		6.9E-03		5.5E-03		2.4E-03			5.9E-02		6.4E-03		5.1E-03		2.2E-03		
	Manganese	7439965	217	224	334	258	4.7E-02	--	(d)	3.3E-03	7E-02	3.5E-04	8E-03	2.8E-04		1.2E-04			2.5E-03	5E-02	2.7E-04	6E-03	2.2E-04		9.4E-05		
	Mercury	7439976	0.049	0.055	0.050	0.051	3.0E-04	--	(i)	4.9E-07	2E-03	5.3E-08	2E-04	4.2E-08		1.8E-08			5.1E-07	2E-03	5.4E-08	2E-04	4.3E-08		1.9E-08		
	Nickel	7440020	6.1	7.8	8.5	7.5	2.0E-02	--		8.4E-05	4E-03	9.0E-06	4E-04	7.2E-06		3.1E-06			7.4E-05	4E-03	7.9E-06	4E-04	6.3E-06		2.7E-06		
	Potassium	7440097	1,140	1,410	1,350	1,300	--	--		1.3E-02		1.4E-03		1.1E-03		4.9E-04			1.3E-02		1.4E-03		1.1E-03		4.7E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.47	0.49	0.47	0.47	5.0E-03	--		4.6E-06	9E-04	4.9E-07	1E-04	3.9E-07		1.7E-07			4.7E-06	9E-04	5.0E-07	1E-04	4.0E-07		1.7E-07		
	Sodium	7440235	57	97	98	84	--	--		9.6E-04		1.0E-04		8.3E-05		3.5E-05			8.3E-04		8.9E-05		7.1E-05		3.0E-05		
	Thallium	7440280	1.15	1.20	1.15	1.17	6.5E-05	--		1.1E-05	2E-01	1.2E-06	2E-02	9.7E-07		4.2E-07			1.2E-05	2E-01	1.2E-06	2E-02	9.9E-07		4.2E-07		
	Uranium	7440611	6.3	6.4	6.9	6.5	6.0E-04	--	(e)	6.8E-05	1E-01	7.3E-06	1E-02	5.8E-06		2.5E-06			6.4E-05	1E-01	6.9E-06	1E-02	5.5E-06		2.4E-06		
	Vanadium	7440622	8.4	10.8	13.4	10.9	7.0E-03	--		1.3E-04	2E-02	1.4E-05	2E-03	1.1E-05		4.9E-06			1.1E-04	2E-02	1.1E-05	2E-03	9.2E-06		3.9E-06		
	Zinc	7440666	27	30	36	31	3.0E-01	--		3.0E-04	1E-03	3.2E-05	1E-04	2.5E-05		1.1E-05			3.0E-04	1E-03	3.2E-05	1E-04	2.6E-05		1.1E-05		
									Total		**1E+00**		**1E-01**		**9E-06**		**4E-06**	**1E-05**									
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:

(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Subsist_Modern

Exposure Area: Marcus Island Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	9.86E-06	1.06E-06
Cancer:	8.45E-07	3.62E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	8,600	9,890	7,310	8,600	1.0E+00	--		8.5E-02	8E-02	9.1E-03	9E-03	7.3E-03		3.1E-03			9.8E-02	1E-01	1.0E-02	1E-02	8.4E-03		3.6E-03		
	Antimony	7440360	4.1	2.0	3.1	3.1	4.0E-04	--		4.0E-05	1E-01	4.3E-06	1E-02	3.4E-06		1.5E-06			2.0E-05	5E-02	2.1E-06	5E-03	1.7E-06		7.2E-07		
	Arsenic	7440382	6.5	8.6	3.9	6.3	2.4E-04	1.9E+00	(j)	6.4E-05	3E-01	6.9E-06	3E-02	5.5E-06	1E-05	2.4E-06	4E-06	1E-05	8.5E-05	4E-01	9.1E-06	4E-02	7.3E-06	1E-05	3.1E-06	6E-06	2E-05
	Barium	7440393	258	264	101	208	2.0E-01	--		2.5E-03	1E-02	2.7E-04	1E-03	2.2E-04		9.3E-05			2.6E-03	1E-02	2.8E-04	1E-03	2.2E-04		9.6E-05		
	Beryllium	7440417	0.48	0.56	0.36	0.47	2.0E-03	--		4.7E-06	2E-03	5.1E-07	3E-04	4.1E-07		1.7E-07			5.5E-06	3E-03	5.9E-07	3E-04	4.7E-07		2.0E-07		
	Cadmium	7440439	7.30	5.60	1.60	4.83	1.0E-03	--	(a)	7.2E-05	7E-02	7.7E-06	8E-03	6.2E-06		2.6E-06			5.5E-05	6E-02	5.9E-06	6E-03	4.7E-06		2.0E-06		
	Calcium	7440702	7,520	6,920	7,110	7,183	--	--		7.4E-02		7.9E-03		6.4E-03		2.7E-03			6.8E-02		7.3E-03		5.9E-03		2.5E-03		
	Chromium	7440473	19.7	19.9	14.0	17.9	1.5E+00	--	(b)	1.9E-04	1E-04	2.1E-05	1E-05	1.7E-05		7.1E-06			2.0E-04	1E-04	2.1E-05	1E-05	1.7E-05		7.2E-06		
	Cobalt	7440484	6.8	7.1	5.2	6.4	3.0E-04	--		6.7E-05	2E-01	7.2E-06	2E-02	5.7E-06		2.5E-06			7.0E-05	2E-01	7.5E-06	3E-02	6.0E-06		2.6E-06		
	Copper	7440508	50	58	14	41	4.0E-02	--		5.0E-04	1E-02	5.3E-05	1E-03	4.3E-05		1.8E-05			5.7E-04	1E-02	6.1E-05	2E-03	4.9E-05		2.1E-05		
	Iron	7439896	17,600	23,400	12,700	17,900	7.0E-01	--		1.7E-01	2E-01	1.9E-02	3E-02	1.5E-02		6.4E-03			2.3E-01	3E-01	2.5E-02	4E-02	2.0E-02		8.5E-03		
	Lead	7439921	297	202	52	184			(c)																		
	Magnesium	7439954	6,070	5,390	4,220	5,227	--	--		6.0E-02		6.4E-03		5.1E-03		2.2E-03			5.3E-02		5.7E-03		4.6E-03		2.0E-03		
	Manganese	7439965	214	246	170	210	4.7E-02	--	(d)	2.1E-03	5E-02	2.3E-04	5E-03	1.8E-04		7.8E-05			2.4E-03	5E-02	2.6E-04	6E-03	2.1E-04		8.9E-05		
	Mercury	7439976	0.810	0.470	0.078	0.453	3.0E-04	--	(i)	8.0E-06	3E-02	8.6E-07	3E-03	6.8E-07		2.9E-07			4.6E-06	2E-02	5.0E-07	2E-03	4.0E-07		1.7E-07		
	Nickel	7440020	16.3	16.8	12.9	15.3	2.0E-02	--		1.6E-04	8E-03	1.7E-05	9E-04	1.4E-05		5.9E-06			1.7E-04	8E-03	1.8E-05	9E-04	1.4E-05		6.1E-06		
	Potassium	7440097	1,010	1,020	1,070	1,033	--	--		1.0E-02		1.1E-03		8.5E-04		3.7E-04			1.0E-02		1.1E-03		8.6E-04		3.7E-04		
	Selenium	7782492	2.30	4.30	1.80	2.80	5.0E-03	--		2.3E-05	5E-03	2.4E-06	5E-04	1.9E-06		8.3E-07			4.2E-05	8E-03	4.5E-06	9E-04	3.6E-06		1.6E-06		
	Silver	7440224	0.70	0.65	0.50	0.62	5.0E-03	--		6.9E-06	1E-03	7.4E-07	1E-04	5.9E-07		2.5E-07			6.4E-06	1E-03	6.9E-07	1E-04	5.5E-07		2.4E-07		
	Sodium	7440235	86	134	96	105	--	--		8.5E-04		9.1E-05		7.3E-05		3.1E-05			1.3E-03		1.4E-04		1.1E-04		4.9E-05		
	Thallium	7440280	1.70	1.60	1.30	1.53	6.5E-05	--		1.7E-05	3E-01	1.8E-06	3E-02	1.4E-06		6.2E-07			1.6E-05	2E-01	1.7E-06	3E-02	1.4E-06		5.8E-07		
	Uranium	7440611	13.6	6.7	7.5	9.3	6.0E-04	--	(e)	1.3E-04	2E-01	1.4E-05	2E-02	1.1E-05		4.9E-06			6.6E-05	1E-01	7.1E-06	1E-02	5.7E-06		2.4E-06		
	Vanadium	7440622	24.4	28.5	18.6	23.8	7.0E-03	--		2.4E-04	3E-02	2.6E-05	4E-03	2.1E-05		8.8E-06			2.8E-04	4E-02	3.0E-05	4E-03	2.4E-05		1.0E-05		
	Zinc	7440666	915	620	186	574	3.0E-01	--		9.0E-03	3E-02	9.7E-04	3E-03	7.7E-04		3.3E-04			6.1E-03	2E-02	6.6E-04	2E-03	5.2E-04		2.2E-04		
									Total		**2E+00**		**2E-01**		**1E-05**		**4E-06**	**1E-05**		**2E+00**		**2E-01**		**1E-05**		**6E-06**	**2E-05**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Subsist_Modern

Exposure Area: Marcus Island Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	9.86E-06	1.06E-06
Cancer:	8.45E-07	3.62E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	8,600	9,890	7,310	8,600	1.0E+00	--		7.2E-02	7E-02	7.7E-03	8E-03	6.2E-03		2.6E-03			8.5E-02	8E-02	9.1E-03	9E-03	7.3E-03		3.1E-03		
	Antimony	7440360	4.1	2.0	3.1	3.1	4.0E-04	--		3.1E-05	8E-02	3.3E-06	8E-03	2.6E-06		1.1E-06			3.0E-05	8E-02	3.2E-06	8E-03	2.6E-06		1.1E-06		
	Arsenic	7440382	6.5	8.6	3.9	6.3	2.4E-04	1.9E+00	(j)	3.8E-05	2E-01	4.1E-06	2E-02	3.3E-06	6E-06	1.4E-06	3E-06	9E-06	6.2E-05	3E-01	6.7E-06	3E-02	5.4E-06	1E-05	2.3E-06	4E-06	1E-05
	Barium	7440393	258	264	101	208	2.0E-01	--		1.0E-03	5E-03	1.1E-04	5E-04	8.5E-05		3.7E-05			2.0E-03	1E-02	2.2E-04	1E-03	1.8E-04		7.5E-05		
	Beryllium	7440417	0.48	0.56	0.36	0.47	2.0E-03	--		3.6E-06	2E-03	3.8E-07	2E-04	3.0E-07		1.3E-07			4.6E-06	2E-03	4.9E-07	2E-04	3.9E-07		1.7E-07		
	Cadmium	7440439	7.30	5.60	1.60	4.83	1.0E-03	--	(a)	1.6E-05	2E-02	1.7E-06	2E-03	1.4E-06		5.8E-07			4.8E-05	5E-02	5.1E-06	5E-03	4.1E-06		1.8E-06		
	Calcium	7440702	7,520	6,920	7,110	7,183	--	--		7.0E-02		7.5E-03		6.0E-03		2.6E-03			7.1E-02		7.6E-03		6.1E-03		2.6E-03		
	Chromium	7440473	19.7	19.9	14.0	17.9	1.5E+00	--	(b)	1.4E-04	9E-05	1.5E-05	1E-05	1.2E-05		5.1E-06			1.8E-04	1E-04	1.9E-05	1E-05	1.5E-05		6.5E-06		
	Cobalt	7440484	6.8	7.1	5.2	6.4	3.0E-04	--		5.1E-05	2E-01	5.5E-06	2E-02	4.4E-06		1.9E-06			6.3E-05	2E-01	6.7E-06	2E-02	5.4E-06		2.3E-06		
	Copper	7440508	50	58	14	41	4.0E-02	--		1.4E-04	3E-03	1.5E-05	4E-04	1.2E-05		5.1E-06			4.0E-04	1E-02	4.3E-05	1E-03	3.4E-05		1.5E-05		
	Iron	7439896	17,600	23,400	12,700	17,900	7.0E-01	--		1.3E-01	2E-01	1.3E-02	2E-02	1.1E-02		4.6E-03			1.8E-01	3E-01	1.9E-02	3E-02	1.5E-02		6.5E-03		
	Lead	7439921	297	202	52	184			(c)																		
	Magnesium	7439954	6,070	5,390	4,220	5,227	--	--		4.2E-02		4.5E-03		3.6E-03		1.5E-03			5.2E-02		5.5E-03		4.4E-03		1.9E-03		
	Manganese	7439965	214	246	170	210	4.7E-02	--	(d)	1.7E-03	4E-02	1.8E-04	4E-03	1.4E-04		6.2E-05			2.1E-03	4E-02	2.2E-04	5E-03	1.8E-04		7.6E-05		
	Mercury	7439976	0.810	0.470	0.078	0.453	3.0E-04	--	(i)	7.7E-07	3E-03	8.2E-08	3E-04	6.6E-08		2.8E-08			4.5E-06	1E-02	4.8E-07	2E-03	3.8E-07		1.6E-07		
	Nickel	7440020	16.3	16.8	12.9	15.3	2.0E-02	--		1.3E-04	6E-03	1.4E-05	7E-04	1.1E-05		4.7E-06			1.5E-04	8E-03	1.6E-05	8E-04	1.3E-05		5.6E-06		
	Potassium	7440097	1,010	1,020	1,070	1,033	--	--		1.1E-02		1.1E-03		9.0E-04		3.9E-04			1.0E-02		1.1E-03		8.7E-04		3.7E-04		
	Selenium	7782492	2.30	4.30	1.80	2.80	5.0E-03	--		1.8E-05	4E-03	1.9E-06	4E-04	1.5E-06		6.5E-07			2.8E-05	6E-03	3.0E-06	6E-04	2.4E-06		1.0E-06		
	Silver	7440224	0.70	0.65	0.50	0.62	5.0E-03	--		4.9E-06	1E-03	5.3E-07	1E-04	4.2E-07		1.8E-07			6.1E-06	1E-03	6.5E-07	1E-04	5.2E-07		2.2E-07		
	Sodium	7440235	86	134	96	105	--	--		9.5E-04		1.0E-04		8.1E-05		3.5E-05			1.0E-03		1.1E-04		8.9E-05		3.8E-05		
	Thallium	7440280	1.70	1.60	1.30	1.53	6.5E-05	--		1.3E-05	2E-01	1.4E-06	2E-02	1.1E-06		4.7E-07			1.5E-05	2E-01	1.6E-06	2E-02	1.3E-06		5.6E-07		
	Uranium	7440611	13.6	6.7	7.5	9.3	6.0E-04	--	(e)	7.4E-05	1E-01	7.9E-06	1E-02	6.3E-06		2.7E-06			9.1E-05	2E-01	9.8E-06	2E-02	7.8E-06		3.4E-06		
	Vanadium	7440622	24.4	28.5	18.6	23.8	7.0E-03	--		1.8E-04	3E-02	2.0E-05	3E-03	1.6E-05		6.7E-06			2.4E-04	3E-02	2.5E-05	4E-03	2.0E-05		8.6E-06		
	Zinc	7440666	915	620	186	574	3.0E-01	--		6.1E-03	2E-02	6.6E-04	2E-03	5.2E-04		2.2E-04			5.7E-03	2E-02	6.1E-04	2E-03	4.8E-04		2.1E-04		
									Total		**1E+00**		**1E-01**		**6E-06**		**3E-06**	**9E-06**		**1E+00**		**2E-01**		**1E-05**		**4E-06**	**1E-05**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:

(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Subsist_Modern

Exposure Area: North Gorge Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	9.86E-06	1.06E-06
Cancer:	8.45E-07	3.62E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	7,060	7,880	4,350	6,430	1.0E+00	--		7.0E-02	7E-02	7.5E-03	7E-03	6.0E-03		2.6E-03			7.8E-02	8E-02	8.3E-03	8E-03	6.7E-03		2.9E-03		
	Antimony	7440360	6.4	3.6	0.5	3.5	4.0E-04	--		6.3E-05	2E-01	6.8E-06	2E-02	5.4E-06		2.3E-06			3.6E-05	9E-02	3.8E-06	1E-02	3.0E-06		1.3E-06		
	Arsenic	7440382	10.7	9.6	5.0	8.4	2.4E-04	1.9E+00	(j)	1.1E-04	4E-01	1.1E-05	5E-02	9.0E-06	2E-05	3.9E-06	7E-06	2E-05	9.5E-05	4E-01	1.0E-05	4E-02	8.1E-06	2E-05	3.5E-06	7E-06	2E-05
	Barium	7440393	407	315	102	275	2.0E-01	--		4.0E-03	2E-02	4.3E-04	2E-03	3.4E-04		1.5E-04			3.1E-03	2E-02	3.3E-04	2E-03	2.7E-04		1.1E-04		
	Beryllium	7440417	0.48	0.53	0.28	0.43	2.0E-03	--		4.7E-06	2E-03	5.1E-07	3E-04	4.1E-07		1.7E-07			5.2E-06	3E-03	5.6E-07	3E-04	4.5E-07		1.9E-07		
	Cadmium	7440439	4.20	4.20	1.10	3.17	1.0E-03	--	(a)	4.1E-05	4E-02	4.4E-06	4E-03	3.6E-06		1.5E-06			4.1E-05	4E-02	4.4E-06	4E-03	3.6E-06		1.5E-06		
	Calcium	7440702	24,700	15,400	6,090	15,397	--	--		2.4E-01		2.6E-02		2.1E-02		8.9E-03			1.5E-01		1.6E-02		1.3E-02		5.6E-03		
	Chromium	7440473	24.9	22.8	15.1	20.9	1.5E+00	--	(b)	2.5E-04	2E-04	2.6E-05	2E-05	2.1E-05		9.0E-06			2.2E-04	1E-04	2.4E-05	2E-05	1.9E-05		8.3E-06		
	Cobalt	7440484	9.8	8.5	4.3	7.5	3.0E-04	--		9.7E-05	3E-01	1.0E-05	3E-02	8.3E-06		3.6E-06			8.4E-05	3E-01	9.0E-06	3E-02	7.2E-06		3.1E-06		
	Copper	7440508	216	132	23	124	4.0E-02	--		2.1E-03	5E-02	2.3E-04	6E-03	1.8E-04		7.8E-05			1.3E-03	3E-02	1.4E-04	3E-03	1.1E-04		4.8E-05		
	Iron	7439896	29,500	23,500	16,000	23,000	7.0E-01	--		2.9E-01	4E-01	3.1E-02	4E-02	2.5E-02		1.1E-02			2.3E-01	3E-01	2.5E-02	4E-02	2.0E-02		8.5E-03		
	Lead	7439921	216	223	69	169			(c)																		
	Magnesium	7439954	13,900	10,200	4,140	9,413	--	--		1.4E-01		1.5E-02		1.2E-02		5.0E-03			1.0E-01		1.1E-02		8.6E-03		3.7E-03		
	Manganese	7439965	434	270	171	292	4.7E-02	--	(d)	4.3E-03	9E-02	4.6E-04	1E-02	3.7E-04		1.6E-04			2.7E-03	6E-02	2.9E-04	6E-03	2.3E-04		9.8E-05		
	Mercury	7439976	0.370	0.400	0.068	0.279	3.0E-04	--	(i)	3.6E-06	1E-02	3.9E-07	1E-03	3.1E-07		1.3E-07			3.9E-06	1E-02	4.2E-07	1E-03	3.4E-07		1.4E-07		
	Nickel	7440020	15.3	17.2	9.6	14.0	2.0E-02	--		1.5E-04	8E-03	1.6E-05	8E-04	1.3E-05		5.5E-06			1.7E-04	8E-03	1.8E-05	9E-04	1.5E-05		6.2E-06		
	Potassium	7440097	1,190	1,220	624	1,011	--	--		1.2E-02		1.3E-03		1.0E-03		4.3E-04			1.2E-02		1.3E-03		1.0E-03		4.4E-04		
	Selenium	7782492	3.00	2.70	1.10	2.27	5.0E-03	--		3.0E-05	6E-03	3.2E-06	6E-04	2.5E-06		1.1E-06			2.7E-05	5E-03	2.9E-06	6E-04	2.3E-06		9.8E-07		
	Silver	7440224	0.60	0.70	0.50	0.60	5.0E-03	--		5.9E-06	1E-03	6.3E-07	1E-04	5.1E-07		2.2E-07			6.9E-06	1E-03	7.4E-07	1E-04	5.9E-07		2.5E-07		
	Sodium	7440235	170	134	89	131	--	--		1.7E-03		1.8E-04		1.4E-04		6.2E-05			1.3E-03		1.4E-04		1.1E-04		4.9E-05		
	Thallium	7440280	1.55	1.70	1.30	1.52	6.5E-05	--		1.5E-05	2E-01	1.6E-06	3E-02	1.3E-06		5.6E-07			1.7E-05	3E-01	1.8E-06	3E-02	1.4E-06		6.2E-07		
	Uranium	7440611	14.2	11.2	5.7	10.4	6.0E-04	--	(e)	1.4E-04	2E-01	1.5E-05	3E-02	1.2E-05		5.1E-06			1.1E-04	2E-01	1.2E-05	2E-02	9.5E-06		4.1E-06		
	Vanadium	7440622	26.9	27.4	27.9	27.4	7.0E-03	--		2.7E-04	4E-02	2.8E-05	4E-03	2.3E-05		9.7E-06			2.7E-04	4E-02	2.9E-05	4E-03	2.3E-05		9.9E-06		
	Zinc	7440666	1,700	1,060	352	1,037	3.0E-01	--		1.7E-02	6E-02	1.8E-03	6E-03	1.4E-03		6.2E-04			1.0E-02	3E-02	1.1E-03	4E-03	9.0E-04		3.8E-04		
									Total		2E+00		2E-01		2E-05		7E-06	2E-05		2E+00		2E-01		2E-05		7E-06	2E-05
										Total HQ or Risks > LOPC?: Yes									Total HQ or Risks > LOPC?: Yes								

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Subsist_Modern

Exposure Area: North Gorge Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	9.86E-06	1.06E-06
Cancer:	8.45E-07	3.62E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	7,060	7,880	4,350	6,430	1.0E+00	--		4.3E-02	4E-02	4.6E-03	5E-03	3.7E-03		1.6E-03			6.3E-02	6E-02	6.8E-03	7E-03	5.4E-03		2.3E-03		
	Antimony	7440360	6.4	3.6	0.5	3.5	4.0E-04	--		4.6E-06	1E-02	5.0E-07	1E-03	4.0E-07		1.7E-07			3.4E-05	9E-02	3.7E-06	9E-03	3.0E-06		1.3E-06		
	Arsenic	7440382	10.7	9.6	5.0	8.4	2.4E-04	1.9E+00	(j)	4.9E-05	2E-01	5.3E-06	2E-02	4.2E-06	8E-06	1.8E-06	3E-06	1E-05	8.3E-05	3E-01	8.9E-06	4E-02	7.1E-06	1E-05	3.1E-06	6E-06	2E-05
	Barium	7440393	407	315	102	275	2.0E-01	--		1.0E-03	5E-03	1.1E-04	5E-04	8.6E-05		3.7E-05			2.7E-03	1E-02	2.9E-04	1E-03	2.3E-04		1.0E-04		
	Beryllium	7440417	0.48	0.53	0.28	0.43	2.0E-03	--		2.8E-06	1E-03	3.0E-07	1E-04	2.4E-07		1.0E-07			4.2E-06	2E-03	4.5E-07	2E-04	3.6E-07		1.6E-07		
	Cadmium	7440439	4.20	4.20	1.10	3.17	1.0E-03	--	(a)	1.1E-05	1E-02	1.2E-06	1E-03	9.3E-07		4.0E-07			3.1E-05	3E-02	3.3E-06	3E-03	2.7E-06		1.1E-06		
	Calcium	7440702	24,700	15,400	6,090	15,397	--	--		6.0E-02		6.4E-03		5.1E-03		2.2E-03			1.5E-01		1.6E-02		1.3E-02		5.6E-03		
	Chromium	7440473	24.9	22.8	15.1	20.9	1.5E+00	--	(b)	1.5E-04	1E-04	1.6E-05	1E-05	1.3E-05		5.5E-06			2.1E-04	1E-04	2.2E-05	1E-05	1.8E-05		7.6E-06		
	Cobalt	7440484	9.8	8.5	4.3	7.5	3.0E-04	--		4.2E-05	1E-01	4.5E-06	2E-02	3.6E-06		1.6E-06			7.4E-05	2E-01	8.0E-06	3E-02	6.4E-06		2.7E-06		
	Copper	7440508	216	132	23	124	4.0E-02	--		2.3E-04	6E-03	2.4E-05	6E-04	1.9E-05		8.3E-06			1.2E-03	3E-02	1.3E-04	3E-03	1.0E-04		4.5E-05		
	Iron	7439896	29,500	23,500	16,000	23,000	7.0E-01	--		1.6E-01	2E-01	1.7E-02	2E-02	1.4E-02		5.8E-03			2.3E-01	3E-01	2.4E-02	3E-02	1.9E-02		8.3E-03		
	Lead	7439921	216	223	69	169			(c)																		
	Magnesium	7439954	13,900	10,200	4,140	9,413	--	--		4.1E-02		4.4E-03		3.5E-03		1.5E-03			9.3E-02		9.9E-03		8.0E-03		3.4E-03		
	Manganese	7439965	434	270	171	292	4.7E-02	--	(d)	1.7E-03	4E-02	1.8E-04	4E-03	1.4E-04		6.2E-05			2.9E-03	6E-02	3.1E-04	7E-03	2.5E-04		1.1E-04		
	Mercury	7439976	0.370	0.400	0.068	0.279	3.0E-04	--	(i)	6.7E-07	2E-03	7.2E-08	2E-04	5.7E-08		2.5E-08			2.8E-06	9E-03	3.0E-07	1E-03	2.4E-07		1.0E-07		
	Nickel	7440020	15.3	17.2	9.6	14.0	2.0E-02	--		9.5E-05	5E-03	1.0E-05	5E-04	8.1E-06		3.5E-06			1.4E-04	7E-03	1.5E-05	7E-04	1.2E-05		5.1E-06		
	Potassium	7440097	1,190	1,220	624	1,011	--	--		6.2E-03		6.6E-04		5.3E-04		2.3E-04			1.0E-02		1.1E-03		8.5E-04		3.7E-04		
	Selenium	7782492	3.00	2.70	1.10	2.27	5.0E-03	--		1.1E-05	2E-03	1.2E-06	2E-04	9.3E-07		4.0E-07			2.2E-05	4E-03	2.4E-06	5E-04	1.9E-06		8.2E-07		
	Silver	7440224	0.60	0.70	0.50	0.60	5.0E-03	--		4.9E-06	1E-03	5.3E-07	1E-04	4.2E-07		1.8E-07			5.9E-06	1E-03	6.3E-07	1E-04	5.1E-07		2.2E-07		
	Sodium	7440235	170	134	89	131	--	--		8.7E-04		9.4E-05		7.5E-05		3.2E-05			1.3E-03		1.4E-04		1.1E-04		4.7E-05		
	Thallium	7440280	1.55	1.70	1.30	1.52	6.5E-05	--		1.3E-05	2E-01	1.4E-06	2E-02	1.1E-06		4.7E-07			1.5E-05	2E-01	1.6E-06	2E-02	1.3E-06		5.5E-07		
	Uranium	7440611	14.2	11.2	5.7	10.4	6.0E-04	--	(e)	5.6E-05	9E-02	6.0E-06	1E-02	4.8E-06		2.1E-06			1.0E-04	2E-01	1.1E-05	2E-02	8.8E-06		3.8E-06		
	Vanadium	7440622	26.9	27.4	27.9	27.4	7.0E-03	--		2.8E-04	4E-02	2.9E-05	4E-03	2.4E-05		1.0E-05			2.7E-04	4E-02	2.9E-05	4E-03	2.3E-05		9.9E-06		
	Zinc	7440666	1,700	1,060	352	1,037	3.0E-01	--		1.0E-02	3E-02	1.1E-03	4E-03	9.0E-04		3.8E-04			1.0E-02	3E-02	1.1E-03	4E-03	8.8E-04		3.8E-04		
									Total		**1E+00**		**1E-01**		**8E-06**		**3E-06**	**1E-05**		**2E+00**		**2E-01**		**1E-05**		**6E-06**	**2E-05**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**			

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Subsist_Modern

Exposure Area: Northport Boat Launch

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	9.86E-06	1.06E-06
Cancer:	8.45E-07	3.62E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	11,923	12,493	9,843	11,420	1.0E+00	--		1.2E-01	1E-01	1.3E-02	1E-02	1.0E-02		4.3E-03			1.2E-01	1E-01	1.3E-02	1E-02	1.1E-02		4.5E-03		
	Antimony	7440360	22.9	27.2	21.5	23.9	4.0E-04	--		2.3E-04	6E-01	2.4E-05	6E-02	1.9E-05		8.3E-06			2.7E-04	7E-01	2.9E-05	7E-02	2.3E-05		9.9E-06		
	Arsenic	7440382	17.3	14.3	10.7	14.1	2.4E-04	1.9E+00	(j)	1.7E-04	7E-01	1.8E-05	8E-02	1.5E-05	3E-05	6.3E-06	1E-05	4E-05	1.4E-04	6E-01	1.5E-05	6E-02	1.2E-05	2E-05	5.2E-06	1E-05	3E-05
	Barium	7440393	1,062	1,036	848	982	2.0E-01	--		1.0E-02	5E-02	1.1E-03	6E-03	9.0E-04		3.8E-04			1.0E-02	5E-02	1.1E-03	5E-03	8.8E-04		3.8E-04		
	Beryllium	7440417	0.94	0.94	0.82	0.90	2.0E-03	--		9.2E-06	5E-03	9.9E-07	5E-04	7.9E-07		3.4E-07			9.3E-06	5E-03	9.9E-07	5E-04	7.9E-07		3.4E-07		
	Cadmium	7440439	2.99	2.39	2.25	2.54	1.0E-03	--	(a)	3.0E-05	3E-02	3.2E-06	3E-03	2.5E-06		1.1E-06			2.4E-05	2E-02	2.5E-06	3E-03	2.0E-06		8.7E-07		
	Calcium	7440702	52,267	49,967	37,967	46,733	--	--		5.2E-01		5.5E-02		4.4E-02		1.9E-02			4.9E-01		5.3E-02		4.2E-02		1.8E-02		
	Chromium	7440473	68.4	66.2	50.7	61.8	1.5E+00	--	(b)	6.7E-04	4E-04	7.2E-05	5E-05	5.8E-05		2.5E-05			6.5E-04	4E-04	7.0E-05	5E-05	5.6E-05		2.4E-05		
	Cobalt	7440484	27.4	27.5	21.5	25.5	3.0E-04	--		2.7E-04	9E-01	2.9E-05	1E-01	2.3E-05		9.9E-06			2.7E-04	9E-01	2.9E-05	1E-01	2.3E-05		1.0E-05		
	Copper	7440508	1,382	1,182	833	1,132	4.0E-02	--		1.4E-02	3E-01	1.5E-03	4E-02	1.2E-03		5.0E-04			1.2E-02	3E-01	1.2E-03	3E-02	1.0E-03		4.3E-04		
	Iron	7439896	113,367	108,233	75,267	98,956	7.0E-01	--		1.1E+00	2E+00	1.2E-01	2E-01	9.6E-02		4.1E-02			1.1E+00	2E+00	1.1E-01	2E-01	9.2E-02		3.9E-02		
	Lead	7439921	309	256	186	250			(c)																		
	Magnesium	7439954	12,000	12,357	11,447	11,934	--	--		1.2E-01		1.3E-02		1.0E-02		4.3E-03			1.2E-01		1.3E-02		1.0E-02		4.5E-03		
	Manganese	7439965	2,138	2,004	1,446	1,862	4.7E-02	--	(d)	2.1E-02	5E-01	2.3E-03	5E-02	1.8E-03		7.7E-04			2.0E-02	4E-01	2.1E-03	5E-02	1.7E-03		7.3E-04		
	Mercury	7439976	0.102	0.099	0.075	0.092	3.0E-04	--	(i)	1.0E-06	3E-03	1.1E-07	4E-04	8.7E-08		3.7E-08			9.8E-07	3E-03	1.0E-07	3E-04	8.4E-08		3.6E-08		
	Nickel	7440020	13.3	13.0	12.8	13.1	2.0E-02	--		1.3E-04	7E-03	1.4E-05	7E-04	1.1E-05		4.8E-06			1.3E-04	6E-03	1.4E-05	7E-04	1.1E-05		4.7E-06		
	Potassium	7440097	2,410	2,403	1,943	2,252	--	--		2.4E-02		2.5E-03		2.0E-03		8.7E-04			2.4E-02		2.5E-03		2.0E-03		8.7E-04		
	Selenium	7782492	1.82	1.75	1.90	1.82	5.0E-03	--		1.8E-05	4E-03	1.9E-06	4E-04	1.5E-06		6.6E-07			1.7E-05	3E-03	1.8E-06	4E-04	1.5E-06		6.3E-07		
	Silver	7440224	0.53	0.51	0.53	0.52	5.0E-03	--		5.2E-06	1E-03	5.5E-07	1E-04	4.4E-07		1.9E-07			5.0E-06	1E-03	5.4E-07	1E-04	4.3E-07		1.8E-07		
	Sodium	7440235	1,130	1,147	767	1,015	--	--		1.1E-02		1.2E-03		9.6E-04		4.1E-04			1.1E-02		1.2E-03		9.7E-04		4.2E-04		
	Thallium	7440280	1.30	1.27	1.37	1.31	6.5E-05	--		1.3E-05	2E-01	1.4E-06	2E-02	1.1E-06		4.7E-07			1.2E-05	2E-01	1.3E-06	2E-02	1.1E-06		4.6E-07		
	Uranium	7440611	10.5	10.1	10.9	10.5	6.0E-04	--	(e)	1.0E-04	2E-01	1.1E-05	2E-02	8.8E-06		3.8E-06			9.9E-05	2E-01	1.1E-05	2E-02	8.5E-06		3.7E-06		
	Vanadium	7440622	28.4	31.2	27.9	29.1	7.0E-03	--		2.8E-04	4E-02	3.0E-05	4E-03	2.4E-05		1.0E-05			3.1E-04	4E-02	3.3E-05	5E-03	2.6E-05		1.1E-05		
	Zinc	7440666	9,623	8,543	5,947	8,038	3.0E-01	--		9.5E-02	3E-01	1.0E-02	3E-02	8.1E-03		3.5E-03			8.4E-02	3E-01	9.0E-03	3E-02	7.2E-03		3.1E-03		
									Total		**6E+00**		**6E-01**		**3E-05**		**1E-05**	**4E-05**		**5E+00**		**6E-01**		**2E-05**		**1E-05**	**3E-05**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Subsist_Modern

Exposure Area: Northport Boat Launch

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	9.86E-06	1.06E-06
Cancer:	8.45E-07	3.62E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	11,923	12,493	9,843	11,420	1.0E+00	--		9.7E-02	1E-01	1.0E-02	1E-02	8.3E-03		3.6E-03			1.1E-01	1E-01	1.2E-02	1E-02	9.7E-03		4.1E-03		
	Antimony	7440360	22.9	27.2	21.5	23.9	4.0E-04	--		2.1E-04	5E-01	2.3E-05	6E-02	1.8E-05		7.8E-06			2.4E-04	6E-01	2.5E-05	6E-02	2.0E-05		8.7E-06		
	Arsenic	7440382	17.3	14.3	10.7	14.1	2.4E-04	1.9E+00	(j)	1.1E-04	4E-01	1.1E-05	5E-02	9.0E-06	2E-05	3.9E-06	7E-06	2E-05	1.4E-04	6E-01	1.5E-05	6E-02	1.2E-05	2E-05	5.1E-06	1E-05	3E-05
	Barium	7440393	1,062	1,036	848	982	2.0E-01	--		8.4E-03	4E-02	9.0E-04	4E-03	7.2E-04		3.1E-04			9.7E-03	5E-02	1.0E-03	5E-03	8.3E-04		3.6E-04		
	Beryllium	7440417	0.94	0.94	0.82	0.90	2.0E-03	--		8.1E-06	4E-03	8.7E-07	4E-04	6.9E-07		3.0E-07			8.9E-06	4E-03	9.5E-07	5E-04	7.6E-07		3.3E-07		
	Cadmium	7440439	2.99	2.39	2.25	2.54	1.0E-03	--	(a)	2.2E-05	2E-02	2.4E-06	2E-03	1.9E-06		8.1E-07			2.5E-05	3E-02	2.7E-06	3E-03	2.2E-06		9.2E-07		
	Calcium	7440702	52,267	49,967	37,967	46,733	--	--		3.7E-01		4.0E-02		3.2E-02		1.4E-02			4.6E-01		4.9E-02		4.0E-02		1.7E-02		
	Chromium	7440473	68.4	66.2	50.7	61.8	1.5E+00	--	(b)	5.0E-04	3E-04	5.4E-05	4E-05	4.3E-05		1.8E-05			6.1E-04	4E-04	6.5E-05	4E-05	5.2E-05		2.2E-05		
	Cobalt	7440484	27.4	27.5	21.5	25.5	3.0E-04	--		2.1E-04	7E-01	2.3E-05	8E-02	1.8E-05		7.8E-06			2.5E-04	8E-01	2.7E-05	9E-02	2.2E-05		9.2E-06		
	Copper	7440508	1,382	1,182	833	1,132	4.0E-02	--		8.2E-03	2E-01	8.8E-04	2E-02	7.0E-04		3.0E-04			1.1E-02	3E-01	1.2E-03	3E-02	9.6E-04		4.1E-04		
	Iron	7439896	113,367	108,233	75,267	98,956	7.0E-01	--		7.4E-01	1E+00	8.0E-02	1E-01	6.4E-02		2.7E-02			9.8E-01	1E+00	1.0E-01	1E-01	8.4E-02		3.6E-02		
	Lead	7439921	309	256	186	250			(c)																		
	Magnesium	7439954	12,000	12,357	11,447	11,934	--	--		1.1E-01		1.2E-02		9.7E-03		4.1E-03			1.2E-01		1.3E-02		1.0E-02		4.3E-03		
	Manganese	7439965	2,138	2,004	1,446	1,862	4.7E-02	--	(d)	1.4E-02	3E-01	1.5E-03	3E-02	1.2E-03		5.2E-04			1.8E-02	4E-01	2.0E-03	4E-02	1.6E-03		6.7E-04		
	Mercury	7439976	0.102	0.099	0.075	0.092	3.0E-04	--	(i)	7.4E-07	2E-03	7.9E-08	3E-04	6.3E-08		2.7E-08			9.1E-07	3E-03	9.7E-08	3E-04	7.8E-08		3.3E-08		
	Nickel	7440020	13.3	13.0	12.8	13.1	2.0E-02	--		1.3E-04	6E-03	1.4E-05	7E-04	1.1E-05		4.6E-06			1.3E-04	6E-03	1.4E-05	7E-04	1.1E-05		4.7E-06		
	Potassium	7440097	2,410	2,403	1,943	2,252	--	--		1.9E-02		2.1E-03		1.6E-03		7.0E-04			2.2E-02		2.4E-03		1.9E-03		8.2E-04		
	Selenium	7782492	1.82	1.75	1.90	1.82	5.0E-03	--		1.9E-05	4E-03	2.0E-06	4E-04	1.6E-06		6.9E-07			1.8E-05	4E-03	1.9E-06	4E-04	1.5E-06		6.6E-07		
	Silver	7440224	0.53	0.51	0.53	0.52	5.0E-03	--		5.3E-06	1E-03	5.6E-07	1E-04	4.5E-07		1.9E-07			5.2E-06	1E-03	5.5E-07	1E-04	4.4E-07		1.9E-07		
	Sodium	7440235	1,130	1,147	767	1,015	--	--		7.6E-03		8.1E-04		6.5E-04		2.8E-04			1.0E-02		1.1E-03		8.6E-04		3.7E-04		
	Thallium	7440280	1.30	1.27	1.37	1.31	6.5E-05	--		1.3E-05	2E-01	1.4E-06	2E-02	1.2E-06		5.0E-07			1.3E-05	2E-01	1.4E-06	2E-02	1.1E-06		4.8E-07		
	Uranium	7440611	10.5	10.1	10.9	10.5	6.0E-04	--	(e)	1.1E-04	2E-01	1.2E-05	2E-02	9.2E-06		3.9E-06			1.0E-04	2E-01	1.1E-05	2E-02	8.9E-06		3.8E-06		
	Vanadium	7440622	28.4	31.2	27.9	29.1	7.0E-03	--		2.7E-04	4E-02	2.9E-05	4E-03	2.4E-05		1.0E-05			2.9E-04	4E-02	3.1E-05	4E-03	2.5E-05		1.1E-05		
	Zinc	7440666	9,623	8,543	5,947	8,038	3.0E-01	--		8.4E-02	3E-01	9.0E-03	3E-02	7.2E-03		3.1E-03			7.9E-02	3E-01	8.5E-03	3E-02	6.8E-03		2.9E-03		
									Total		4E+00		4E-01		2E-05		7E-06	2E-05		5E+00		5E-01		2E-05		1E-05	3E-05
										Total HQ or Risks > LOPC?:				Yes					Total HQ or Risks > LOPC?:				Yes				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Subsist_Modern

Exposure Area: Rogers Bar Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	9.86E-06	1.06E-06
Cancer:	8.45E-07	3.62E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	2,760	5,810	4,810	4,460	1.0E+00	--		2.7E-02	3E-02	2.9E-03	3E-03	2.3E-03		1.0E-03			5.7E-02	6E-02	6.1E-03	6E-03	4.9E-03		2.1E-03		
	Antimony	7440360	#N/A	#N/A	#N/A	#N/A	4.0E-04	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Arsenic	7440382	0.5	1.9	2.2	1.5	2.4E-04	1.9E+00	(j)	4.8E-06	2E-02	5.1E-07	2E-03	4.1E-07	8E-07	1.8E-07	3E-07	1E-06	1.9E-05	8E-02	2.0E-06	8E-03	1.6E-06	3E-06	6.9E-07	1E-06	4E-06
	Barium	7440393	21	53	38	37	2.0E-01	--		2.0E-04	1E-03	2.2E-05	1E-04	1.7E-05		7.5E-06			5.3E-04	3E-03	5.6E-05	3E-04	4.5E-05		1.9E-05		
	Beryllium	7440417	0.21	0.44	0.37	0.34	2.0E-03	--		2.1E-06	1E-03	2.2E-07	1E-04	1.8E-07		7.6E-08			4.3E-06	2E-03	4.6E-07	2E-04	3.7E-07		1.6E-07		
	Cadmium	7440439	0.06	0.11	0.22	0.13	1.0E-03	--	(a)	5.5E-07	6E-04	5.9E-08	6E-05	4.7E-08		2.0E-08			1.1E-06	1E-03	1.2E-07	1E-04	9.3E-08		4.0E-08		
	Calcium	7440702	1,670	1,700	1,580	1,650	--	--		1.6E-02		1.8E-03		1.4E-03		6.1E-04			1.7E-02		1.8E-03		1.4E-03		6.2E-04		
	Chromium	7440473	5.7	13.2	9.6	9.5	1.5E+00	--	(b)	5.6E-05	4E-05	6.0E-06	4E-06	4.8E-06		2.1E-06			1.3E-04	9E-05	1.4E-05	9E-06	1.1E-05		4.8E-06		
	Cobalt	7440484	2.1	4.1	3.7	3.3	3.0E-04	--		2.1E-05	7E-02	2.2E-06	7E-03	1.8E-06		7.6E-07			4.0E-05	1E-01	4.3E-06	1E-02	3.5E-06		1.5E-06		
	Copper	7440508	5	9	7	7	4.0E-02	--		4.8E-05	1E-03	5.2E-06	1E-04	4.1E-06		1.8E-06			8.9E-05	2E-03	9.5E-06	2E-04	7.6E-06		3.3E-06		
	Iron	7439896	4,930	9,800	9,720	8,150	7.0E-01	--		4.9E-02	7E-02	5.2E-03	7E-03	4.2E-03		1.8E-03			9.7E-02	1E-01	1.0E-02	1E-02	8.3E-03		3.6E-03		
	Lead	7439921	3	5	5	5			(c)																		
	Magnesium	7439954	1,540	2,590	2,390	2,173	--	--		1.5E-02		1.6E-03		1.3E-03		5.6E-04			2.6E-02		2.7E-03		2.2E-03		9.4E-04		
	Manganese	7439965	95	157	134	129	4.7E-02	--	(d)	9.4E-04	2E-02	1.0E-04	2E-03	8.1E-05		3.5E-05			1.5E-03	3E-02	1.7E-04	4E-03	1.3E-04		5.7E-05		
	Mercury	7439976	0.050	0.055	0.050	0.052	3.0E-04	--	(i)	4.9E-07	2E-03	5.3E-08	2E-04	4.2E-08		1.8E-08			5.4E-07	2E-03	5.8E-08	2E-04	4.6E-08		2.0E-08		
	Nickel	7440020	5.1	10.2	9.0	8.1	2.0E-02	--		5.0E-05	3E-03	5.4E-06	3E-04	4.3E-06		1.8E-06			1.0E-04	5E-03	1.1E-05	5E-04	8.6E-06		3.7E-06		
	Potassium	7440097	317	719	519	518	--	--		3.1E-03		3.3E-04		2.7E-04		1.1E-04			7.1E-03		7.6E-04		6.1E-04		2.6E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.49	0.55	0.50	0.51	5.0E-03	--		4.8E-06	1E-03	5.1E-07	1E-04	4.1E-07		1.8E-07			5.4E-06	1E-03	5.8E-07	1E-04	4.6E-07		2.0E-07		
	Sodium	7440235	58	98	88	81	--	--		5.8E-04		6.2E-05		4.9E-05		2.1E-05			9.6E-04		1.0E-04		8.3E-05		3.5E-05		
	Thallium	7440280	1.20	1.35	1.25	1.27	6.5E-05	--		1.2E-05	2E-01	1.3E-06	2E-02	1.0E-06		4.3E-07			1.3E-05	2E-01	1.4E-06	2E-02	1.1E-06		4.9E-07		
	Uranium	7440611	9.7	9.8	10.1	9.9	6.0E-04	--	(e)	9.6E-05	2E-01	1.0E-05	2E-02	8.2E-06		3.5E-06			9.7E-05	2E-01	1.0E-05	2E-02	8.3E-06		3.6E-06		
	Vanadium	7440622	8.7	16.2	16.7	13.9	7.0E-03	--		8.6E-05	1E-02	9.2E-06	1E-03	7.4E-06		3.2E-06			1.6E-04	2E-02	1.7E-05	2E-03	1.4E-05		5.9E-06		
	Zinc	7440666	21	33	47	34	3.0E-01	--		2.1E-04	7E-04	2.3E-05	8E-05	1.8E-05		7.7E-06			3.3E-04	1E-03	3.5E-05	1E-04	2.8E-05		1.2E-05		
									Total		**6E-01**		**6E-02**		**8E-07**		**3E-07**	**1E-06**						**3E-06**		**1E-06**	**4E-06**
										Total HQ or Risks > LOPC?:		**Yes**							**Total HQ or Risks > LOPC?:**		**Yes**						

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Subsist_Modern

Exposure Area: Rogers Bar Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	9.86E-06	1.06E-06
Cancer:	8.45E-07	3.62E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	2,760	5,810	4,810	4,460	1.0E+00	--		4.7E-02	5E-02	5.1E-03	5E-03	4.1E-03		1.7E-03			4.4E-02	4E-02	4.7E-03	5E-03	3.8E-03		1.6E-03		
	Antimony	7440360	#N/A	#N/A	#N/A	#N/A	4.0E-04	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Arsenic	7440382	0.5	1.9	2.2	1.5	2.4E-04	1.9E+00	(j)	2.2E-05	9E-02	2.3E-06	1E-02	1.9E-06	3E-06	8.0E-07	1E-06	5E-06	1.5E-05	6E-02	1.6E-06	7E-03	1.3E-06	2E-06	5.5E-07	1E-06	3E-06
	Barium	7440393	21	53	38	37	2.0E-01	--		3.7E-04	2E-03	4.0E-05	2E-04	3.2E-05		1.4E-05			3.7E-04	2E-03	3.9E-05	2E-04	3.1E-05		1.3E-05		
	Beryllium	7440417	0.21	0.44	0.37	0.34	2.0E-03	--		3.6E-06	2E-03	3.9E-07	2E-04	3.1E-07		1.3E-07			3.4E-06	2E-03	3.6E-07	2E-04	2.9E-07		1.2E-07		
	Cadmium	7440439	0.06	0.11	0.22	0.13	1.0E-03	--	(a)	2.2E-06	2E-03	2.3E-07	2E-04	1.9E-07		8.0E-08			1.3E-06	1E-03	1.4E-07	1E-04	1.1E-07		4.7E-08		
	Calcium	7440702	1,670	1,700	1,580	1,650	--	--		1.6E-02		1.7E-03		1.3E-03		5.7E-04			1.6E-02		1.7E-03		1.4E-03		6.0E-04		
	Chromium	7440473	5.7	13.2	9.6	9.5	1.5E+00	--	(b)	9.5E-05	6E-05	1.0E-05	7E-06	8.1E-06		3.5E-06			9.4E-05	6E-05	1.0E-05	7E-06	8.0E-06		3.4E-06		
	Cobalt	7440484	2.1	4.1	3.7	3.3	3.0E-04	--		3.6E-05	1E-01	3.9E-06	1E-02	3.1E-06		1.3E-06			3.3E-05	1E-01	3.5E-06	1E-02	2.8E-06		1.2E-06		
	Copper	7440508	5	9	7	7	4.0E-02	--		7.3E-05	2E-03	7.8E-06	2E-04	6.3E-06		2.7E-06			7.0E-05	2E-03	7.5E-06	2E-04	6.0E-06		2.6E-06		
	Iron	7439896	4,930	9,800	9,720	8,150	7.0E-01	--		9.6E-02	1E-01	1.0E-02	1E-02	8.2E-03		3.5E-03			8.0E-02	1E-01	8.6E-03	1E-02	6.9E-03		3.0E-03		
	Lead	7439921	3	5	5	5			(c)																		
	Magnesium	7439954	1,540	2,590	2,390	2,173	--	--		2.4E-02		2.5E-03		2.0E-03		8.7E-04			2.1E-02		2.3E-03		1.8E-03		7.9E-04		
	Manganese	7439965	95	157	134	129	4.7E-02	--	(d)	1.3E-03	3E-02	1.4E-04	3E-03	1.1E-04		4.9E-05			1.3E-03	3E-02	1.4E-04	3E-03	1.1E-04		4.7E-05		
	Mercury	7439976	0.050	0.055	0.050	0.052	3.0E-04	--	(i)	4.9E-07	2E-03	5.3E-08	2E-04	4.2E-08		1.8E-08			5.1E-07	2E-03	5.5E-08	2E-04	4.4E-08		1.9E-08		
	Nickel	7440020	5.1	10.2	9.0	8.1	2.0E-02	--		8.9E-05	4E-03	9.5E-06	5E-04	7.6E-06		3.3E-06			8.0E-05	4E-03	8.6E-06	4E-04	6.8E-06		2.9E-06		
	Potassium	7440097	317	719	519	518	--	--		5.1E-03		5.5E-04		4.4E-04		1.9E-04			5.1E-03		5.5E-04		4.4E-04		1.9E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.49	0.55	0.50	0.51	5.0E-03	--		4.9E-06	1E-03	5.3E-07	1E-04	4.2E-07		1.8E-07			5.0E-06	1E-03	5.4E-07	1E-04	4.3E-07		1.9E-07		
	Sodium	7440235	58	98	88	81	--	--		8.6E-04		9.3E-05		7.4E-05		3.2E-05			8.0E-04		8.6E-05		6.9E-05		2.9E-05		
	Thallium	7440280	1.20	1.35	1.25	1.27	6.5E-05	--		1.2E-05	2E-01	1.3E-06	2E-02	1.1E-06		4.5E-07			1.2E-05	2E-01	1.3E-06	2E-02	1.1E-06		4.6E-07		
	Uranium	7440611	9.7	9.8	10.1	9.9	6.0E-04	--	(e)	1.0E-04	2E-01	1.1E-05	2E-02	8.5E-06		3.7E-06			9.7E-05	2E-01	1.0E-05	2E-02	8.3E-06		3.6E-06		
	Vanadium	7440622	8.7	16.2	16.7	13.9	7.0E-03	--		1.6E-04	2E-02	1.8E-05	3E-03	1.4E-05		6.1E-06			1.4E-04	2E-02	1.5E-05	2E-03	1.2E-05		5.0E-06		
	Zinc	7440666	21	33	47	34	3.0E-01	--		3.3E-04	1E-03	3.5E-05	1E-04	2.8E-05		1.2E-05			3.3E-04	1E-03	3.6E-05	1E-04	2.9E-05		1.2E-05		
									Total		**8E-01**		**9E-02**		**3E-06**		**1E-06**	**5E-06**		**7E-01**		**8E-02**		**2E-06**		**1E-06**	**3E-06**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:

(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Subsist_Modern

Exposure Area: Spring Canyon Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	9.86E-06	1.06E-06
Cancer:	8.45E-07	3.62E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	8,310	7,800	7,150	7,753	1.0E+00	--		8.2E-02	8E-02	8.8E-03	9E-03	7.0E-03		3.0E-03			7.7E-02	8E-02	8.2E-03	8E-03	6.6E-03		2.8E-03		
	Antimony	7440360	0.8	1.1	1.0	1.0	4.0E-04	--		7.8E-06	2E-02	8.3E-07	2E-03	6.7E-07		2.9E-07			1.1E-05	3E-02	1.2E-06	3E-03	9.3E-07		4.0E-07		
	Arsenic	7440382	10.3	7.5	8.5	8.8	2.4E-04	1.9E+00	(j)	1.0E-04	4E-01	1.1E-05	5E-02	8.7E-06	2E-05	3.7E-06	7E-06	2E-05	7.4E-05	3E-01	7.9E-06	3E-02	6.3E-06	1E-05	2.7E-06	5E-06	2E-05
	Barium	7440393	51	52	41	48	2.0E-01	--		5.0E-04	3E-03	5.4E-05	3E-04	4.3E-05		1.8E-05			5.1E-04	3E-03	5.4E-05	3E-04	4.4E-05		1.9E-05		
	Beryllium	7440417	0.64	0.60	0.53	0.59	2.0E-03	--		6.3E-06	3E-03	6.8E-07	3E-04	5.4E-07		2.3E-07			5.9E-06	3E-03	6.3E-07	3E-04	5.1E-07		2.2E-07		
	Cadmium	7440439	0.26	0.26	0.26	0.26	1.0E-03	--	(a)	2.6E-06	3E-03	2.7E-07	3E-04	2.2E-07		9.4E-08			2.5E-06	3E-03	2.7E-07	3E-04	2.2E-07		9.2E-08		
	Calcium	7440702	1,960	1,810	5,990	3,253	--	--		1.9E-02		2.1E-03		1.7E-03		7.1E-04			1.8E-02		1.9E-03		1.5E-03		6.6E-04		
	Chromium	7440473	9.6	9.7	9.0	9.4	1.5E+00	--	(b)	9.5E-05	6E-05	1.0E-05	7E-06	8.1E-06		3.5E-06			9.6E-05	6E-05	1.0E-05	7E-06	8.2E-06		3.5E-06		
	Cobalt	7440484	4.4	4.1	3.7	4.1	3.0E-04	--		4.3E-05	1E-01	4.6E-06	2E-02	3.7E-06		1.6E-06			4.0E-05	1E-01	4.3E-06	1E-02	3.5E-06		1.5E-06		
	Copper	7440508	7	6	7	6	4.0E-02	--		7.0E-05	2E-03	7.5E-06	2E-04	6.0E-06		2.6E-06			5.4E-05	1E-03	5.8E-06	1E-04	4.6E-06		2.0E-06		
	Iron	7439896	15,400	14,900	14,300	14,867	7.0E-01	--		1.5E-01	2E-01	1.6E-02	2E-02	1.3E-02		5.6E-03			1.5E-01	2E-01	1.6E-02	2E-02	1.3E-02		5.4E-03		
	Lead	7439921	7	7	6	7			(c)																		
	Magnesium	7439954	5,880	5,590	5,360	5,610	--	--		5.8E-02		6.2E-03		5.0E-03		2.1E-03			5.5E-02		5.9E-03		4.7E-03		2.0E-03		
	Manganese	7439965	227	208	226	220	4.7E-02	--	(d)	2.2E-03	5E-02	2.4E-04	5E-03	1.9E-04		8.2E-05			2.1E-03	4E-02	2.2E-04	5E-03	1.8E-04		7.5E-05		
	Mercury	7439976	0.055	0.055	0.050	0.053	3.0E-04	--	(i)	5.4E-07	2E-03	5.8E-08	2E-04	4.6E-08		2.0E-08			5.4E-07	2E-03	5.8E-08	2E-04	4.6E-08		2.0E-08		
	Nickel	7440020	8.2	7.5	7.5	7.7	2.0E-02	--		8.1E-05	4E-03	8.7E-06	4E-04	6.9E-06		3.0E-06			7.4E-05	4E-03	7.9E-06	4E-04	6.3E-06		2.7E-06		
	Potassium	7440097	1,610	1,470	1,230	1,437	--	--		1.6E-02		1.7E-03		1.4E-03		5.8E-04			1.4E-02		1.6E-03		1.2E-03		5.3E-04		
	Selenium	7782492	1.80	1.80	1.80	1.80	5.0E-03	--		1.8E-05	4E-03	1.9E-06	4E-04	1.5E-06		6.5E-07			1.8E-05	4E-03	1.9E-06	4E-04	1.5E-06		6.5E-07		
	Silver	7440224	0.50	0.50	0.50	0.50	5.0E-03	--		4.9E-06	1E-03	5.3E-07	1E-04	4.2E-07		1.8E-07			4.9E-06	1E-03	5.3E-07	1E-04	4.2E-07		1.8E-07		
	Sodium	7440235	66	54	74	64	--	--		6.5E-04		6.9E-05		5.6E-05		2.4E-05			5.3E-04		5.7E-05		4.5E-05		1.9E-05		
	Thallium	7440280	1.30	1.30	1.30	1.30	6.5E-05	--		1.3E-05	2E-01	1.4E-06	2E-02	1.1E-06		4.7E-07			1.3E-05	2E-01	1.4E-06	2E-02	1.1E-06		4.7E-07		
	Uranium	7440611	10.4	5.2	10.3	8.6	6.0E-04	--	(e)	1.0E-04	2E-01	1.1E-05	2E-02	8.8E-06		3.8E-06			5.1E-05	9E-02	5.5E-06	9E-03	4.4E-06		1.9E-06		
	Vanadium	7440622	14.8	14.0	13.9	14.2	7.0E-03	--		1.5E-04	2E-02	1.6E-05	2E-03	1.3E-05		5.4E-06			1.4E-04	2E-02	1.5E-05	2E-03	1.2E-05		5.1E-06		
	Zinc	7440666	48	55	40	47	3.0E-01	--		4.7E-04	2E-03	5.1E-05	2E-04	4.1E-05		1.7E-05			5.4E-04	2E-03	5.8E-05	2E-04	4.6E-05		2.0E-05		
									Total		**1E+00**		**1E-01**		**2E-05**		**7E-06**	**2E-05**		**1E+00**		**1E-01**		**1E-05**		**5E-06**	**2E-05**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**			

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Subsist_Modern

Exposure Area: Spring Canyon Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	9.86E-06	1.06E-06
Cancer:	8.45E-07	3.62E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	8,310	7,800	7,150	7,753	1.0E+00	--		7.1E-02	7E-02	7.6E-03	8E-03	6.0E-03		2.6E-03			7.6E-02	8E-02	8.2E-03	8E-03	6.6E-03		2.8E-03		
	Antimony	7440360	0.8	1.1	1.0	1.0	4.0E-04	--		9.9E-06	2E-02	1.1E-06	3E-03	8.5E-07		3.6E-07			9.5E-06	2E-02	1.0E-06	3E-03	8.1E-07		3.5E-07		
	Arsenic	7440382	10.3	7.5	8.5	8.8	2.4E-04	1.9E+00	(j)	8.4E-05	3E-01	9.0E-06	4E-02	7.2E-06	1E-05	3.1E-06	6E-06	2E-05	8.6E-05	4E-01	9.3E-06	4E-02	7.4E-06	1E-05	3.2E-06	6E-06	2E-05
	Barium	7440393	51	52	41	48	2.0E-01	--		4.1E-04	2E-03	4.3E-05	2E-04	3.5E-05		1.5E-05			4.7E-04	2E-03	5.1E-05	3E-04	4.0E-05		1.7E-05		
	Beryllium	7440417	0.64	0.60	0.53	0.59	2.0E-03	--		5.2E-06	3E-03	5.6E-07	3E-04	4.5E-07		1.9E-07			5.8E-06	3E-03	6.2E-07	3E-04	5.0E-07		2.1E-07		
	Cadmium	7440439	0.26	0.26	0.26	0.26	1.0E-03	--	(a)	2.6E-06	3E-03	2.7E-07	3E-04	2.2E-07		9.4E-08			2.5E-06	3E-03	2.7E-07	3E-04	2.2E-07		9.4E-08		
	Calcium	7440702	1,960	1,810	5,990	3,253	--	--		5.9E-02		6.3E-03		5.1E-03		2.2E-03			3.2E-02		3.4E-03		2.8E-03		1.2E-03		
	Chromium	7440473	9.6	9.7	9.0	9.4	1.5E+00	--	(b)	8.9E-05	6E-05	9.5E-06	6E-06	7.6E-06		3.3E-06			9.3E-05	6E-05	1.0E-05	7E-06	8.0E-06		3.4E-06		
	Cobalt	7440484	4.4	4.1	3.7	4.1	3.0E-04	--		3.6E-05	1E-01	3.9E-06	1E-02	3.1E-06		1.3E-06			4.0E-05	1E-01	4.3E-06	1E-02	3.4E-06		1.5E-06		
	Copper	7440508	7	6	7	6	4.0E-02	--		6.4E-05	2E-03	6.9E-06	2E-04	5.5E-06		2.4E-06			6.3E-05	2E-03	6.7E-06	2E-04	5.4E-06		2.3E-06		
	Iron	7439896	15,400	14,900	14,300	14,867	7.0E-01	--		1.4E-01	2E-01	1.5E-02	2E-02	1.2E-02		5.2E-03			1.5E-01	2E-01	1.6E-02	2E-02	1.3E-02		5.4E-03		
	Lead	7439921	7	7	6	7			(c)																		
	Magnesium	7439954	5,880	5,590	5,360	5,610	--	--		5.3E-02		5.7E-03		4.5E-03		1.9E-03			5.5E-02		5.9E-03		4.7E-03		2.0E-03		
	Manganese	7439965	227	208	226	220	4.7E-02	--	(d)	2.2E-03	5E-02	2.4E-04	5E-03	1.9E-04		8.2E-05			2.2E-03	5E-02	2.3E-04	5E-03	1.9E-04		8.0E-05		
	Mercury	7439976	0.055	0.055	0.050	0.053	3.0E-04	--	(i)	4.9E-07	2E-03	5.3E-08	2E-04	4.2E-08		1.8E-08			5.3E-07	2E-03	5.6E-08	2E-04	4.5E-08		1.9E-08		
	Nickel	7440020	8.2	7.5	7.5	7.7	2.0E-02	--		7.4E-05	4E-03	7.9E-06	4E-04	6.3E-06		2.7E-06			7.6E-05	4E-03	8.2E-06	4E-04	6.5E-06		2.8E-06		
	Potassium	7440097	1,610	1,470	1,230	1,437	--	--		1.2E-02		1.3E-03		1.0E-03		4.5E-04			1.4E-02		1.5E-03		1.2E-03		5.2E-04		
	Selenium	7782492	1.80	1.80	1.80	1.80	5.0E-03	--		1.8E-05	4E-03	1.9E-06	4E-04	1.5E-06		6.5E-07			1.8E-05	4E-03	1.9E-06	4E-04	1.5E-06		6.5E-07		
	Silver	7440224	0.50	0.50	0.50	0.50	5.0E-03	--		4.9E-06	1E-03	5.3E-07	1E-04	4.2E-07		1.8E-07			4.9E-06	1E-03	5.3E-07	1E-04	4.2E-07		1.8E-07		
	Sodium	7440235	66	54	74	64	--	--		7.2E-04		7.8E-05		6.2E-05		2.7E-05			6.3E-04		6.8E-05		5.4E-05		2.3E-05		
	Thallium	7440280	1.30	1.30	1.30	1.30	6.5E-05	--		1.3E-05	2E-01	1.4E-06	2E-02	1.1E-06		4.7E-07			1.3E-05	2E-01	1.4E-06	2E-02	1.1E-06		4.7E-07		
	Uranium	7440611	10.4	5.2	10.3	8.6	6.0E-04	--	(e)	1.0E-04	2E-01	1.1E-05	2E-02	8.7E-06		3.7E-06			8.5E-05	1E-01	9.1E-06	2E-02	7.3E-06		3.1E-06		
	Vanadium	7440622	14.8	14.0	13.9	14.2	7.0E-03	--		1.4E-04	2E-02	1.5E-05	2E-03	1.2E-05		5.0E-06			1.4E-04	2E-02	1.5E-05	2E-03	1.2E-05		5.2E-06		
	Zinc	7440666	48	55	40	47	3.0E-01	--		5.4E-04	2E-03	5.8E-05	2E-04	4.6E-05		2.0E-05			4.7E-04	2E-03	5.0E-05	2E-04	4.0E-05		1.7E-05		
									Total		**1E+00**		**1E-01**		**1E-05**		**6E-06**	**2E-05**		**1E+00**		**1E-01**		**1E-05**		**6E-06**	**2E-05**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:

(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Subsist_Traditional

Exposure Area: AA Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	2.00E-05	4.29E-06
Cancer:	1.71E-06	3.92E-06

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	10,200	12,200	9,080	10,493	1.0E+00	--		2.0E-01	2E-01	4.4E-02	4E-02	1.7E-02		4.0E-02			2.4E-01	2E-01	5.2E-02	5E-02	2.1E-02		4.8E-02		
	Antimony	7440360	1.1	1.5	1.2	1.3	4.0E-04	--		2.2E-05	6E-02	4.7E-06	1E-02	1.9E-06		4.3E-06			3.0E-05	8E-02	6.4E-06	2E-02	2.6E-06		5.9E-06		
	Arsenic	7440382	3.6	5.3	4.1	4.3	2.4E-04	1.9E+00	(j)	7.2E-05	3E-01	1.5E-05	6E-02	6.2E-06	1E-05	1.4E-05	3E-05	4E-05	1.1E-04	4E-01	2.3E-05	9E-02	9.1E-06	2E-05	2.1E-05	4E-05	6E-05
	Barium	7440393	78	117	78	91	2.0E-01	--		1.6E-03	8E-03	3.3E-04	2E-03	1.3E-04		3.0E-04			2.3E-03	1E-02	5.0E-04	3E-03	2.0E-04		4.6E-04		
	Beryllium	7440417	0.68	0.90	0.66	0.75	2.0E-03	--		1.4E-05	7E-03	2.9E-06	1E-03	1.2E-06		2.7E-06			1.8E-05	9E-03	3.9E-06	2E-03	1.5E-06		3.5E-06		
	Cadmium	7440439	1.00	0.74	0.17	0.64	1.0E-03	--	(a)	2.0E-05	2E-02	4.3E-06	4E-03	1.7E-06		3.9E-06			1.5E-05	1E-02	3.2E-06	3E-03	1.3E-06		2.9E-06		
	Calcium	7440702	2,520	4,120	2,990	3,210	--	--		5.0E-02		1.1E-02		4.3E-03		9.9E-03			8.2E-02		1.8E-02		7.1E-03		1.6E-02		
	Chromium	7440473	18.0	24.2	14.8	19.0	1.5E+00	--	(b)	3.6E-04	2E-04	7.7E-05	5E-05	3.1E-05		7.1E-05			4.8E-04	3E-04	1.0E-04	7E-05	4.1E-05		9.5E-05		
	Cobalt	7440484	6.9	10.4	6.4	7.9	3.0E-04	--		1.4E-04	5E-01	3.0E-05	1E-01	1.2E-05		2.7E-05			2.1E-04	7E-01	4.5E-05	1E-01	1.8E-05		4.1E-05		
	Copper	7440508	15	20	12	16	4.0E-02	--		2.9E-04	7E-03	6.3E-05	2E-03	2.5E-05		5.8E-05			4.0E-04	1E-02	8.6E-05	2E-03	3.4E-05		7.8E-05		
	Iron	7439896	16,000	21,100	14,800	17,300	7.0E-01	--		3.2E-01	5E-01	6.9E-02	1E-01	2.7E-02		6.3E-02			4.2E-01	6E-01	9.0E-02	1E-01	3.6E-02		8.3E-02		
	Lead	7439921	34	20	7	20			(c)																		
	Magnesium	7439954	3,700	4,970	3,550	4,073	--	--		7.4E-02		1.6E-02		6.3E-03		1.4E-02			9.9E-02		2.1E-02		8.5E-03		1.9E-02		
	Manganese	7439965	167	383	248	266	4.7E-02	--	(d)	3.3E-03	7E-02	7.2E-04	2E-02	2.9E-04		6.5E-04			7.7E-03	2E-01	1.6E-03	4E-02	6.6E-04		1.5E-03		
	Mercury	7439976	0.053	0.031	0.010	0.031	3.0E-04	--	(i)	1.1E-06	4E-03	2.3E-07	8E-04	9.1E-08		2.1E-07			6.2E-07	2E-03	1.3E-07	4E-04	5.3E-08		1.2E-07		
	Nickel	7440020	15.5	21.1	12.8	16.5	2.0E-02	--		3.1E-04	2E-02	6.6E-05	3E-03	2.7E-05		6.1E-05			4.2E-04	2E-02	9.0E-05	5E-03	3.6E-05		8.3E-05		
	Potassium	7440097	1,220	2,020	1,160	1,467	--	--		2.4E-02		5.2E-03		2.1E-03		4.8E-03			4.0E-02		8.7E-03		3.5E-03		7.9E-03		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.60	0.60	0.55	0.58	5.0E-03	--		1.2E-05	2E-03	2.6E-06	5E-04	1.0E-06		2.4E-06			1.2E-05	2E-03	2.6E-06	5E-04	1.0E-06		2.4E-06		
	Sodium	7440235	115	173	129	139	--	--		2.3E-03		4.9E-04		2.0E-04		4.5E-04			3.5E-03		7.4E-04		3.0E-04		6.8E-04		
	Thallium	7440280	1.50	1.55	1.45	1.50	6.5E-05	--		3.0E-05	5E-01	6.4E-06	1E-01	2.6E-06		5.9E-06			3.1E-05	5E-01	6.6E-06	1E-01	2.7E-06		6.1E-06		
	Uranium	7440611	12.0	12.3	11.4	11.9	6.0E-04	--	(e)	2.4E-04	4E-01	5.1E-05	9E-02	2.0E-05		4.7E-05			2.5E-04	4E-01	5.3E-05	9E-02	2.1E-05		4.8E-05		
	Vanadium	7440622	27.2	32.6	26.3	28.7	7.0E-03	--		5.4E-04	8E-02	1.2E-04	2E-02	4.7E-05		1.1E-04			6.5E-04	9E-02	1.4E-04	2E-02	5.6E-05		1.3E-04		
	Zinc	7440666	158	118	49	108	3.0E-01	--		3.2E-03	1E-02	6.8E-04	2E-03	2.7E-04		6.2E-04			2.4E-03	8E-03	5.1E-04	2E-03	2.0E-04		4.6E-04		
									Total		**3E+00**		**5E-01**		**1E-05**		**3E-05**	**4E-05**		**3E+00**		**7E-01**		**2E-05**		**4E-05**	**6E-05**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Subsist_Traditional

Exposure Area: AA Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	2.00E-05	4.29E-06
Cancer:	1.71E-06	3.92E-06

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	10,200	12,200	9,080	10,493	1.0E+00	--		1.8E-01	2E-01	3.9E-02	4E-02	1.6E-02		3.6E-02			2.1E-01	2E-01	4.5E-02	4E-02	1.8E-02		4.1E-02		
	Antimony	7440360	1.1	1.5	1.2	1.3	4.0E-04	--		2.4E-05	6E-02	5.1E-06	1E-02	2.1E-06		4.7E-06			2.5E-05	6E-02	5.4E-06	1E-02	2.2E-06		5.0E-06		
	Arsenic	7440382	3.6	5.3	4.1	4.3	2.4E-04	1.9E+00	(j)	8.2E-05	3E-01	1.8E-05	7E-02	7.0E-06	1E-05	1.6E-05	3E-05	4E-05	8.7E-05	4E-01	1.9E-05	8E-02	7.4E-06	1E-05	1.7E-05	3E-05	5E-05
	Barium	7440393	78	117	78	91	2.0E-01	--		1.6E-03	8E-03	3.3E-04	2E-03	1.3E-04		3.1E-04			1.8E-03	9E-03	3.9E-04	2E-03	1.6E-04		3.6E-04		
	Beryllium	7440417	0.68	0.90	0.66	0.75	2.0E-03	--		1.3E-05	7E-03	2.8E-06	1E-03	1.1E-06		2.6E-06			1.5E-05	7E-03	3.2E-06	2E-03	1.3E-06		2.9E-06		
	Cadmium	7440439	1.00	0.74	0.17	0.64	1.0E-03	--	(a)	3.4E-06	3E-03	7.3E-07	7E-04	2.9E-07		6.7E-07			1.3E-05	1E-02	2.7E-06	3E-03	1.1E-06		2.5E-06		
	Calcium	7440702	2,520	4,120	2,990	3,210	--	--		6.0E-02		1.3E-02		5.1E-03		1.2E-02			6.4E-02		1.4E-02		5.5E-03		1.3E-02		
	Chromium	7440473	18.0	24.2	14.8	19.0	1.5E+00	--	(b)	3.0E-04	2E-04	6.3E-05	4E-05	2.5E-05		5.8E-05			3.8E-04	3E-04	8.1E-05	5E-05	3.3E-05		7.4E-05		
	Cobalt	7440484	6.9	10.4	6.4	7.9	3.0E-04	--		1.3E-04	4E-01	2.7E-05	9E-02	1.1E-05		2.5E-05			1.6E-04	5E-01	3.4E-05	1E-01	1.4E-05		3.1E-05		
	Copper	7440508	15	20	12	16	4.0E-02	--		2.4E-04	6E-03	5.2E-05	1E-03	2.1E-05		4.7E-05			3.1E-04	8E-03	6.7E-05	2E-03	2.7E-05		6.1E-05		
	Iron	7439896	16,000	21,100	14,800	17,300	7.0E-01	--		3.0E-01	4E-01	6.3E-02	9E-02	2.5E-02		5.8E-02			3.5E-01	5E-01	7.4E-02	1E-01	3.0E-02		6.8E-02		
	Lead	7439921	34	20	7	20			(c)																		
	Magnesium	7439954	3,700	4,970	3,550	4,073	--	--		7.1E-02		1.5E-02		6.1E-03		1.4E-02			8.1E-02		1.7E-02		7.0E-03		1.6E-02		
	Manganese	7439965	167	383	248	266	4.7E-02	--	(d)	5.0E-03	1E-01	1.1E-03	2E-02	4.3E-04		9.7E-04			5.3E-03	1E-01	1.1E-03	2E-02	4.6E-04		1.0E-03		
	Mercury	7439976	0.053	0.031	0.010	0.031	3.0E-04	--	(i)	2.0E-07	7E-04	4.3E-08	1E-04	1.7E-08		3.9E-08			6.3E-07	2E-03	1.3E-07	4E-04	5.4E-08		1.2E-07		
	Nickel	7440020	15.5	21.1	12.8	16.5	2.0E-02	--		2.6E-04	1E-02	5.5E-05	3E-03	2.2E-05		5.0E-05			3.3E-04	2E-02	7.1E-05	4E-03	2.8E-05		6.5E-05		
	Potassium	7440097	1,220	2,020	1,160	1,467	--	--		2.3E-02		5.0E-03		2.0E-03		4.5E-03			2.9E-02		6.3E-03		2.5E-03		5.7E-03		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.60	0.60	0.55	0.58	5.0E-03	--		1.1E-05	2E-03	2.4E-06	5E-04	9.4E-07		2.2E-06			1.2E-05	2E-03	2.5E-06	5E-04	1.0E-06		2.3E-06		
	Sodium	7440235	115	173	129	139	--	--		2.6E-03		5.5E-04		2.2E-04		5.1E-04			2.8E-03		6.0E-04		2.4E-04		5.4E-04		
	Thallium	7440280	1.50	1.55	1.45	1.50	6.5E-05	--		2.9E-05	4E-01	6.2E-06	1E-01	2.5E-06		5.7E-06			3.0E-05	5E-01	6.4E-06	1E-01	2.6E-06		5.9E-06		
	Uranium	7440611	12.0	12.3	11.4	11.9	6.0E-04	--	(e)	2.3E-04	4E-01	4.9E-05	8E-02	2.0E-05		4.5E-05			2.4E-04	4E-01	5.1E-05	8E-02	2.0E-05		4.7E-05		
	Vanadium	7440622	27.2	32.6	26.3	28.7	7.0E-03	--		5.3E-04	8E-02	1.1E-04	2E-02	4.5E-05		1.0E-04			5.7E-04	8E-02	1.2E-04	2E-02	4.9E-05		1.1E-04		
	Zinc	7440666	158	118	49	108	3.0E-01	--		2.4E-03	8E-03	5.1E-04	2E-03	2.0E-04		4.6E-04			2.2E-03	7E-03	4.6E-04	2E-03	1.9E-04		4.2E-04		
									Total		**2E+00**		**5E-01**		**1E-05**		**3E-05**	**4E-05**		**3E+00**		**6E-01**		**1E-05**		**3E-05**	**5E-05**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Subsist_Traditional

Exposure Area: Black Sand Beach

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	2.00E-05	4.29E-06
Cancer:	1.71E-06	3.92E-06

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	19,000	18,600	18,600	18,733	1.0E+00	--		3.8E-01	4E-01	8.1E-02	8E-02	3.3E-02		7.4E-02			3.7E-01	4E-01	8.0E-02	8E-02	3.2E-02		7.3E-02		
	Antimony	7440360	18.6	52.3	47.7	39.5	4.0E-04	--		3.7E-04	9E-01	8.0E-05	2E-01	3.2E-05		7.3E-05			1.0E-03	3E+00	2.2E-04	6E-01	9.0E-05		2.0E-04		
	Arsenic	7440382	16.1	25.2	27.3	22.9	2.4E-04	1.9E+00	(j)	3.2E-04	1E+00	6.9E-05	3E-01	2.8E-05	5E-05	6.3E-05	1E-04	2E-04	5.0E-04	2E+00	1.1E-04	5E-01	4.3E-05	8E-05	9.9E-05	2E-04	3E-04
	Barium	7440393	1,280	1,680	1,750	1,570	2.0E-01	--		2.6E-02	1E-01	5.5E-03	3E-02	2.2E-03		5.0E-03			3.4E-02	2E-01	7.2E-03	4E-02	2.9E-03		6.6E-03		
	Beryllium	7440417	1.20	1.30	1.30	1.27	2.0E-03	--		2.4E-05	1E-02	5.1E-06	3E-03	2.1E-06		4.7E-06			2.6E-05	1E-02	5.6E-06	3E-03	2.2E-06		5.1E-06		
	Cadmium	7440439	1.00	1.20	1.40	1.20	1.0E-03	--	(a)	2.0E-05	2E-02	4.3E-06	4E-03	1.7E-06		3.9E-06			2.4E-05	2E-02	5.1E-06	5E-03	2.1E-06		4.7E-06		
	Calcium	7440702	58,700	63,300	66,900	62,967	--	--		1.2E+00		2.5E-01		1.0E-01		2.3E-01			1.3E+00		2.7E-01		1.1E-01		2.5E-01		
	Chromium	7440473	101.0	123.0	128.0	117.3	1.5E+00	--	(b)	2.0E-03	1E-03	4.3E-04	3E-04	1.7E-04		4.0E-04			2.5E-03	2E-03	5.3E-04	4E-04	2.1E-04		4.8E-04		
	Cobalt	7440484	29.5	48.6	51.0	43.0	3.0E-04	--		5.9E-04	2E+00	1.3E-04	4E-01	5.1E-05		1.2E-04			9.7E-04	3E+00	2.1E-04	7E-01	8.3E-05		1.9E-04		
	Copper	7440508	1,620	2,240	2,350	2,070	4.0E-02	--		3.2E-02	8E-01	6.9E-03	2E-01	2.8E-03		6.3E-03			4.5E-02	1E+00	9.6E-03	2E-01	3.8E-03		8.8E-03		
	Iron	7439896	197,000	187,000	211,000	198,333	7.0E-01	--		3.9E+00	6E+00	8.4E-01	1E+00	3.4E-01		7.7E-01			3.7E+00	5E+00	8.0E-01	1E+00	3.2E-01		7.3E-01		
	Lead	7439921	276	231	266	258			(c)																		
	Magnesium	7439954	6,670	7,070	8,290	7,343	--	--		1.3E-01		2.9E-02		1.1E-02		2.6E-02			1.4E-01		3.0E-02		1.2E-02		2.8E-02		
	Manganese	7439965	3,080	3,680	3,680	3,480	4.7E-02	--	(d)	6.2E-02	1E+00	1.3E-02	3E-01	5.3E-03		1.2E-02			7.4E-02	2E+00	1.6E-02	3E-01	6.3E-03		1.4E-02		
	Mercury	7439976	0.028	0.030	0.650	0.236	3.0E-04	--	(i)	5.6E-07	2E-03	1.2E-07	4E-04	4.8E-08		1.1E-07			6.0E-07	2E-03	1.3E-07	4E-04	5.1E-08		1.2E-07		
	Nickel	7440020	9.3	12.1	12.4	11.3	2.0E-02	--		1.9E-04	9E-03	4.0E-05	2E-03	1.6E-05		3.6E-05			2.4E-04	1E-02	5.2E-05	3E-03	2.1E-05		4.7E-05		
	Potassium	7440097	3,500	3,610	3,750	3,620	--	--		7.0E-02		1.5E-02		6.0E-03		1.4E-02			7.2E-02		1.5E-02		6.2E-03		1.4E-02		
	Selenium	7782492	#N/A	#N/A	1.70	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.55	0.47	0.49	0.50	5.0E-03	--		1.1E-05	2E-03	2.4E-06	5E-04	9.4E-07		2.2E-06			9.3E-06	2E-03	2.0E-06	4E-04	8.0E-07		1.8E-06		
	Sodium	7440235	1,300	1,770	1,840	1,637	--	--		2.6E-02		5.6E-03		2.2E-03		5.1E-03			3.5E-02		7.6E-03		3.0E-03		6.9E-03		
	Thallium	7440280	1.35	1.15	1.20	1.23	6.5E-05	--		2.7E-05	4E-01	5.8E-06	9E-02	2.3E-06		5.3E-06			2.3E-05	4E-01	4.9E-06	8E-02	2.0E-06		4.5E-06		
	Uranium	7440611	64.8	84.3	81.6	76.9	6.0E-04	--	(e)	1.3E-03	2E+00	2.8E-04	5E-01	1.1E-04		2.5E-04			1.7E-03	3E+00	3.6E-04	6E-01	1.4E-04		3.3E-04		
	Vanadium	7440622	36.6	38.3	39.8	38.2	7.0E-03	--		7.3E-04	1E-01	1.6E-04	2E-02	6.3E-05		1.4E-04			7.7E-04	1E-01	1.6E-04	2E-02	6.6E-05		1.5E-04		
	Zinc	7440666	14,900	15,200	16,900	15,667	3.0E-01	--		3.0E-01	1E+00	6.4E-02	2E-01	2.6E-02		5.8E-02			3.0E-01	1E+00	6.5E-02	2E-01	2.6E-02		6.0E-02		
									Total		**2E+01**		**3E+00**		**5E-05**		**1E-04**	**2E-04**		**2E+01**		**4E+00**		**8E-05**		**2E-04**	**3E-04**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:

(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Subsist_Traditional

Exposure Area: Black Sand Beach

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	2.00E-05	4.29E-06
Cancer:	1.71E-06	3.92E-06

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	19,000	18,600	18,600	18,733	1.0E+00	--		3.7E-01	4E-01	8.0E-02	8E-02	3.2E-02		7.3E-02			3.7E-01	4E-01	8.0E-02	8E-02	3.2E-02		7.3E-02		
	Antimony	7440360	18.6	52.3	47.7	39.5	4.0E-04	--		9.5E-04	2E+00	2.0E-04	5E-01	8.2E-05		1.9E-04			7.9E-04	2E+00	1.7E-04	4E-01	6.8E-05		1.5E-04		
	Arsenic	7440382	16.1	25.2	27.3	22.9	2.4E-04	1.9E+00	(j)	5.5E-04	2E+00	1.2E-04	5E-01	4.7E-05	9E-05	1.1E-04	2E-04	3E-04	4.6E-04	2E+00	9.8E-05	4E-01	3.9E-05	7E-05	9.0E-05	2E-04	2E-04
	Barium	7440393	1,280	1,680	1,750	1,570	2.0E-01	--		3.5E-02	2E-01	7.5E-03	4E-02	3.0E-03		6.9E-03			3.1E-02	2E-01	6.7E-03	3E-02	2.7E-03		6.2E-03		
	Beryllium	7440417	1.20	1.30	1.30	1.27	2.0E-03	--		2.6E-05	1E-02	5.6E-06	3E-03	2.2E-06		5.1E-06			2.5E-05	1E-02	5.4E-06	3E-03	2.2E-06		5.0E-06		
	Cadmium	7440439	1.00	1.20	1.40	1.20	1.0E-03	--	(a)	2.8E-05	3E-02	6.0E-06	6E-03	2.4E-06		5.5E-06			2.4E-05	2E-02	5.1E-06	5E-03	2.1E-06		4.7E-06		
	Calcium	7440702	58,700	63,300	66,900	62,967	--	--		1.3E+00		2.9E-01		1.1E-01		2.6E-01			1.3E+00		2.7E-01		1.1E-01		2.5E-01		
	Chromium	7440473	101.0	123.0	128.0	117.3	1.5E+00	--	(b)	2.6E-03	2E-03	5.5E-04	4E-04	2.2E-04		5.0E-04			2.3E-03	2E-03	5.0E-04	3E-04	2.0E-04		4.6E-04		
	Cobalt	7440484	29.5	48.6	51.0	43.0	3.0E-04	--		1.0E-03	3E+00	2.2E-04	7E-01	8.7E-05		2.0E-04			8.6E-04	3E+00	1.8E-04	6E-01	7.4E-05		1.7E-04		
	Copper	7440508	1,620	2,240	2,350	2,070	4.0E-02	--		4.7E-02	1E+00	1.0E-02	3E-01	4.0E-03		9.2E-03			4.1E-02	1E+00	8.9E-03	2E-01	3.5E-03		8.1E-03		
	Iron	7439896	197,000	187,000	211,000	198,333	7.0E-01	--		4.2E+00	6E+00	9.0E-01	1E+00	3.6E-01		8.3E-01			4.0E+00	6E+00	8.5E-01	1E+00	3.4E-01		7.8E-01		
	Lead	7439921	276	231	266	258			(c)																		
	Magnesium	7439954	6,670	7,070	8,290	7,343	--	--		1.7E-01		3.6E-02		1.4E-02		3.2E-02			1.5E-01		3.1E-02		1.3E-02		2.9E-02		
	Manganese	7439965	3,080	3,680	3,680	3,480	4.7E-02	--	(d)	7.4E-02	2E+00	1.6E-02	3E-01	6.3E-03		1.4E-02			7.0E-02	1E+00	1.5E-02	3E-01	6.0E-03		1.4E-02		
	Mercury	7439976	0.028	0.030	0.650	0.236	3.0E-04	--	(i)	1.3E-05	4E-02	2.8E-06	9E-03	1.1E-06		2.5E-06			4.7E-06	2E-02	1.0E-06	3E-03	4.0E-07		9.2E-07		
	Nickel	7440020	9.3	12.1	12.4	11.3	2.0E-02	--		2.5E-04	1E-02	5.3E-05	3E-03	2.1E-05		4.9E-05			2.3E-04	1E-02	4.8E-05	2E-03	1.9E-05		4.4E-05		
	Potassium	7440097	3,500	3,610	3,750	3,620	--	--		7.5E-02		1.6E-02		6.4E-03		1.5E-02			7.2E-02		1.6E-02		6.2E-03		1.4E-02		
	Selenium	7782492	#N/A	#N/A	1.70	#N/A	5.0E-03	--		3.4E-05	7E-03	7.3E-06	1E-03	2.9E-06		6.7E-06			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.55	0.47	0.49	0.50	5.0E-03	--		9.7E-06	2E-03	2.1E-06	4E-04	8.3E-07		1.9E-06			1.0E-05	2E-03	2.1E-06	4E-04	8.6E-07		2.0E-06		
	Sodium	7440235	1,300	1,770	1,840	1,637	--	--		3.7E-02		7.9E-03		3.2E-03		7.2E-03			3.3E-02		7.0E-03		2.8E-03		6.4E-03		
	Thallium	7440280	1.35	1.15	1.20	1.23	6.5E-05	--		2.4E-05	4E-01	5.1E-06	8E-02	2.1E-06		4.7E-06			2.5E-05	4E-01	5.3E-06	8E-02	2.1E-06		4.8E-06		
	Uranium	7440611	64.8	84.3	81.6	76.9	6.0E-04	--	(e)	1.6E-03	3E+00	3.5E-04	6E-01	1.4E-04		3.2E-04			1.5E-03	3E+00	3.3E-04	5E-01	1.3E-04		3.0E-04		
	Vanadium	7440622	36.6	38.3	39.8	38.2	7.0E-03	--		8.0E-04	1E-01	1.7E-04	2E-02	6.8E-05		1.6E-04			7.6E-04	1E-01	1.6E-04	2E-02	6.6E-05		1.5E-04		
	Zinc	7440666	14,900	15,200	16,900	15,667	3.0E-01	--		3.0E-01	1E+00	6.5E-02	2E-01	2.6E-02		6.0E-02			3.1E-01	1E+00	6.7E-02	2E-01	2.7E-02		6.1E-02		
									Total		**2E+01**		**5E+00**		**9E-05**		**2E-04**	**3E-04**		**2E+01**		**4E+00**		**7E-05**		**2E-04**	**2E-04**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Subsist_Traditional

Exposure Area: Cloverleaf Branch

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	2.00E-05	4.29E-06
Cancer:	1.71E-06	3.92E-06

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	12,300	7,520	7,780	9,200	1.0E+00	--		2.5E-01	2E-01	5.3E-02	5E-02	2.1E-02		4.8E-02			1.5E-01	2E-01	3.2E-02	3E-02	1.3E-02		2.9E-02		
	Antimony	7440360	1.6	1.1	1.0	1.2	4.0E-04	--		3.2E-05	8E-02	6.9E-06	2E-02	2.7E-06		6.3E-06			2.2E-05	6E-02	4.7E-06	1E-02	1.9E-06		4.3E-06		
	Arsenic	7440382	7.0	3.6	2.3	4.3	2.4E-04	1.9E+00	(j)	1.4E-04	6E-01	3.0E-05	1E-01	1.2E-05	2E-05	2.7E-05	5E-05	7E-05	7.2E-05	3E-01	1.5E-05	6E-02	6.2E-06	1E-05	1.4E-05	3E-05	4E-05
	Barium	7440393	152	80	66	99	2.0E-01	--		3.0E-03	2E-02	6.5E-04	3E-03	2.6E-04		6.0E-04			1.6E-03	8E-03	3.4E-04	2E-03	1.4E-04		3.1E-04		
	Beryllium	7440417	0.93	0.59	0.63	0.72	2.0E-03	--		1.9E-05	9E-03	4.0E-06	2E-03	1.6E-06		3.6E-06			1.2E-05	6E-03	2.5E-06	1E-03	1.0E-06		2.3E-06		
	Cadmium	7440439	2.40	0.63	3.10	2.04	1.0E-03	--	(a)	4.8E-05	5E-02	1.0E-05	1E-02	4.1E-06		9.4E-06			1.3E-05	1E-02	2.7E-06	3E-03	1.1E-06		2.5E-06		
	Calcium	7440702	5,200	6,050	3,100	4,783	--	--		1.0E-01		2.2E-02		8.9E-03		2.0E-02			1.2E-01		2.6E-02		1.0E-02		2.4E-02		
	Chromium	7440473	28.0	17.7	19.5	21.7	1.5E+00	--	(b)	5.6E-04	4E-04	1.2E-04	8E-05	4.8E-05		1.1E-04			3.5E-04	2E-04	7.6E-05	5E-05	3.0E-05		6.9E-05		
	Cobalt	7440484	10.0	6.7	5.6	7.4	3.0E-04	--		2.0E-04	7E-01	4.3E-05	1E-01	1.7E-05		3.9E-05			1.3E-04	4E-01	2.9E-05	1E-01	1.1E-05		2.6E-05		
	Copper	7440508	29	16	15	20	4.0E-02	--		5.7E-04	1E-02	1.2E-04	3E-03	4.9E-05		1.1E-04			3.2E-04	8E-03	6.9E-05	2E-03	2.8E-05		6.3E-05		
	Iron	7439896	22,600	15,200	13,300	17,033	7.0E-01	--		4.5E-01	6E-01	9.7E-02	1E-01	3.9E-02		8.9E-02			3.0E-01	4E-01	6.5E-02	9E-02	2.6E-02		6.0E-02		
	Lead	7439921	102	16	51	56			(c)																		
	Magnesium	7439954	6,530	4,520	4,040	5,030	--	--		1.3E-01		2.8E-02		1.1E-02		2.6E-02			9.0E-02		1.9E-02		7.7E-03		1.8E-02		
	Manganese	7439965	526	194	145	288	4.7E-02	--	(d)	1.1E-02	2E-01	2.3E-03	5E-02	9.0E-04		2.1E-03			3.9E-03	8E-02	8.3E-04	2E-02	3.3E-04		7.6E-04		
	Mercury	7439976	0.210	0.030	0.062	0.101	3.0E-04	--	(i)	4.2E-06	1E-02	9.0E-07	3E-03	3.6E-07		8.2E-07			6.0E-07	2E-03	1.3E-07	4E-04	5.1E-08		1.2E-07		
	Nickel	7440020	23.8	15.9	14.0	17.9	2.0E-02	--		4.8E-04	2E-02	1.0E-04	5E-03	4.1E-05		9.3E-05			3.2E-04	2E-02	6.8E-05	3E-03	2.7E-05		6.2E-05		
	Potassium	7440097	2,190	1,210	1,200	1,533	--	--		4.4E-02		9.4E-03		3.8E-03		8.6E-03			2.4E-02		5.2E-03		2.1E-03		4.7E-03		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.60	0.55	0.60	0.58	5.0E-03	--		1.2E-05	2E-03	2.6E-06	5E-04	1.0E-06		2.4E-06			1.1E-05	2E-03	2.4E-06	5E-04	9.4E-07		2.2E-06		
	Sodium	7440235	245	147	94	162	--	--		4.9E-03		1.1E-03		4.2E-04		9.6E-04			2.9E-03		6.3E-04		2.5E-04		5.8E-04		
	Thallium	7440280	1.55	1.35	1.55	1.48	6.5E-05	--		3.1E-05	5E-01	6.6E-06	1E-01	2.7E-06		6.1E-06			2.7E-05	4E-01	5.8E-06	9E-02	2.3E-06		5.3E-06		
	Uranium	7440611	12.3	10.7	12.2	11.7	6.0E-04	--	(e)	2.5E-04	4E-01	5.3E-05	9E-02	2.1E-05		4.8E-05			2.1E-04	4E-01	4.6E-05	8E-02	1.8E-05		4.2E-05		
	Vanadium	7440622	35.6	26.6	21.9	28.0	7.0E-03	--		7.1E-04	1E-01	1.5E-04	2E-02	6.1E-05		1.4E-04			5.3E-04	8E-02	1.1E-04	2E-02	4.6E-05		1.0E-04		
	Zinc	7440666	295	90	220	202	3.0E-01	--		5.9E-03	2E-02	1.3E-03	4E-03	5.1E-04		1.2E-03			1.8E-03	6E-03	3.9E-04	1E-03	1.5E-04		3.5E-04		
									Total		**4E+00**		**8E-01**		**2E-05**		**5E-05**	**7E-05**		**2E+00**		**5E-01**		**1E-05**		**3E-05**	**4E-05**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Subsist_Traditional

Exposure Area: Cloverleaf Branch

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	2.00E-05	4.29E-06
Cancer:	1.71E-06	3.92E-06

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	12,300	7,520	7,780	9,200	1.0E+00	--		1.6E-01	2E-01	3.3E-02	3E-02	1.3E-02		3.0E-02			1.8E-01	2E-01	3.9E-02	4E-02	1.6E-02		3.6E-02		
	Antimony	7440360	1.6	1.1	1.0	1.2	4.0E-04	--		2.0E-05	5E-02	4.3E-06	1E-02	1.7E-06		3.9E-06			2.5E-05	6E-02	5.3E-06	1E-02	2.1E-06		4.8E-06		
	Arsenic	7440382	7.0	3.6	2.3	4.3	2.4E-04	1.9E+00	(j)	4.6E-05	2E-01	9.9E-06	4E-02	3.9E-06	7E-06	9.0E-06	2E-05	2E-05	8.6E-05	4E-01	1.8E-05	8E-02	7.4E-06	1E-05	1.7E-05	3E-05	5E-05
	Barium	7440393	152	80	66	99	2.0E-01	--		1.3E-03	7E-03	2.8E-04	1E-03	1.1E-04		2.6E-04			2.0E-03	1E-02	4.3E-04	2E-03	1.7E-04		3.9E-04		
	Beryllium	7440417	0.93	0.59	0.63	0.72	2.0E-03	--		1.3E-05	6E-03	2.7E-06	1E-03	1.1E-06		2.5E-06			1.4E-05	7E-03	3.1E-06	2E-03	1.2E-06		2.8E-06		
	Cadmium	7440439	2.40	0.63	3.10	2.04	1.0E-03	--	(a)	6.2E-05	6E-02	1.3E-05	1E-02	5.3E-06		1.2E-05			4.1E-05	4E-02	8.8E-06	9E-03	3.5E-06		8.0E-06		
	Calcium	7440702	5,200	6,050	3,100	4,783	--	--		6.2E-02		1.3E-02		5.3E-03		1.2E-02			9.6E-02		2.1E-02		8.2E-03		1.9E-02		
	Chromium	7440473	28.0	17.7	19.5	21.7	1.5E+00	--	(b)	3.9E-04	3E-04	8.4E-05	6E-05	3.3E-05		7.6E-05			4.3E-04	3E-04	9.3E-05	6E-05	3.7E-05		8.5E-05		
	Cobalt	7440484	10.0	6.7	5.6	7.4	3.0E-04	--		1.1E-04	4E-01	2.4E-05	8E-02	9.6E-06		2.2E-05			1.5E-04	5E-01	3.2E-05	1E-01	1.3E-05		2.9E-05		
	Copper	7440508	29	16	15	20	4.0E-02	--		3.0E-04	7E-03	6.3E-05	2E-03	2.5E-05		5.8E-05			4.0E-04	1E-02	8.5E-05	2E-03	3.4E-05		7.8E-05		
	Iron	7439896	22,600	15,200	13,300	17,033	7.0E-01	--		2.7E-01	4E-01	5.7E-02	8E-02	2.3E-02		5.2E-02			3.4E-01	5E-01	7.3E-02	1E-01	2.9E-02		6.7E-02		
	Lead	7439921	102	16	51	56			(c)																		
	Magnesium	7439954	6,530	4,520	4,040	5,030	--	--		8.1E-02		1.7E-02		6.9E-03		1.6E-02			1.0E-01		2.2E-02		8.6E-03		2.0E-02		
	Manganese	7439965	526	194	145	288	4.7E-02	--	(d)	2.9E-03	6E-02	6.2E-04	1E-02	2.5E-04		5.7E-04			5.8E-03	1E-01	1.2E-03	3E-02	4.9E-04		1.1E-03		
	Mercury	7439976	0.210	0.030	0.062	0.101	3.0E-04	--	(i)	1.2E-06	4E-03	2.7E-07	9E-04	1.1E-07		2.4E-07			2.0E-06	7E-03	4.3E-07	1E-03	1.7E-07		3.9E-07		
	Nickel	7440020	23.8	15.9	14.0	17.9	2.0E-02	--		2.8E-04	1E-02	6.0E-05	3E-03	2.4E-05		5.5E-05			3.6E-04	2E-02	7.7E-05	4E-03	3.1E-05		7.0E-05		
	Potassium	7440097	2,190	1,210	1,200	1,533	--	--		2.4E-02		5.1E-03		2.1E-03		4.7E-03			3.1E-02		6.6E-03		2.6E-03		6.0E-03		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.60	0.55	0.60	0.58	5.0E-03	--		1.2E-05	2E-03	2.6E-06	5E-04	1.0E-06		2.4E-06			1.2E-05	2E-03	2.5E-06	5E-04	1.0E-06		2.3E-06		
	Sodium	7440235	245	147	94	162	--	--		1.9E-03		4.0E-04		1.6E-04		3.7E-04			3.2E-03		6.9E-04		2.8E-04		6.3E-04		
	Thallium	7440280	1.55	1.35	1.55	1.48	6.5E-05	--		3.1E-05	5E-01	6.6E-06	1E-01	2.7E-06		6.1E-06			3.0E-05	5E-01	6.4E-06	1E-01	2.5E-06		5.8E-06		
	Uranium	7440611	12.3	10.7	12.2	11.7	6.0E-04	--	(e)	2.4E-04	4E-01	5.2E-05	9E-02	2.1E-05		4.8E-05			2.3E-04	4E-01	5.0E-05	8E-02	2.0E-05		4.6E-05		
	Vanadium	7440622	35.6	26.6	21.9	28.0	7.0E-03	--		4.4E-04	6E-02	9.4E-05	1E-02	3.8E-05		8.6E-05			5.6E-04	8E-02	1.2E-04	2E-02	4.8E-05		1.1E-04		
	Zinc	7440666	295	90	220	202	3.0E-01	--		1.8E-03	6E-03	3.9E-04	1E-03	1.5E-04		3.5E-04			4.0E-03	1E-02	8.6E-04	3E-03	3.5E-04		7.9E-04		
									Total		**2E+00**		**5E-01**		**7E-06**		**2E-05**	**2E-05**		**3E+00**		**6E-01**		**1E-05**		**3E-05**	**5E-05**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Subsist_Traditional

Exposure Area: Columbia Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	2.00E-05	4.29E-06
Cancer:	1.71E-06	3.92E-06

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	11,617	10,660	8,947	10,408	1.0E+00	--		2.3E-01	2E-01	5.0E-02	5E-02	2.0E-02		4.6E-02			2.1E-01	2E-01	4.6E-02	5E-02	1.8E-02		4.2E-02		
	Antimony	7440360	1.1	1.0	1.0	1.0	4.0E-04	--		2.3E-05	6E-02	4.8E-06	1E-02	1.9E-06		4.4E-06			1.9E-05	5E-02	4.1E-06	1E-02	1.6E-06		3.8E-06		
	Arsenic	7440382	4.7	5.4	3.8	4.6	2.4E-04	1.9E+00	(j)	9.4E-05	4E-01	2.0E-05	8E-02	8.1E-06	2E-05	1.8E-05	3E-05	5E-05	1.1E-04	5E-01	2.3E-05	1E-01	9.3E-06	2E-05	2.1E-05	4E-05	6E-05
	Barium	7440393	116	100	81	99	2.0E-01	--		2.3E-03	1E-02	5.0E-04	2E-03	2.0E-04		4.5E-04			2.0E-03	1E-02	4.3E-04	2E-03	1.7E-04		3.9E-04		
	Beryllium	7440417	0.86	0.71	0.57	0.71	2.0E-03	--		1.7E-05	9E-03	3.7E-06	2E-03	1.5E-06		3.4E-06			1.4E-05	7E-03	3.0E-06	2E-03	1.2E-06		2.8E-06		
	Cadmium	7440439	1.63	0.45	0.33	0.80	1.0E-03	--	(a)	3.3E-05	3E-02	7.0E-06	7E-03	2.8E-06		6.4E-06			8.9E-06	9E-03	1.9E-06	2E-03	7.7E-07		1.8E-06		
	Calcium	7440702	2,980	2,333	2,017	2,443	--	--		6.0E-02		1.3E-02		5.1E-03		1.2E-02			4.7E-02		1.0E-02		4.0E-03		9.1E-03		
	Chromium	7440473	16.9	14.3	12.1	14.4	1.5E+00	--	(b)	3.4E-04	2E-04	7.3E-05	5E-05	2.9E-05		6.6E-05			2.9E-04	2E-04	6.1E-05	4E-05	2.4E-05		5.6E-05		
	Cobalt	7440484	7.7	6.3	5.4	6.5	3.0E-04	--		1.5E-04	5E-01	3.3E-05	1E-01	1.3E-05		3.0E-05			1.3E-04	4E-01	2.7E-05	9E-02	1.1E-05		2.5E-05		
	Copper	7440508	19	11	9	13	4.0E-02	--		3.8E-04	1E-02	8.2E-05	2E-03	3.3E-05		7.5E-05			2.3E-04	6E-03	4.9E-05	1E-03	2.0E-05		4.5E-05		
	Iron	7439896	16,700	15,933	14,400	15,678	7.0E-01	--		3.3E-01	5E-01	7.2E-02	1E-01	2.9E-02		6.5E-02			3.2E-01	5E-01	6.8E-02	1E-01	2.7E-02		6.2E-02		
	Lead	7439921	58	18	11	29			(c)																		
	Magnesium	7439954	4,107	3,890	3,487	3,828	--	--		8.2E-02		1.8E-02		7.0E-03		1.6E-02			7.8E-02		1.7E-02		6.7E-03		1.5E-02		
	Manganese	7439965	283	190	167	214	4.7E-02	--	(d)	5.7E-03	1E-01	1.2E-03	3E-02	4.9E-04		1.1E-03			3.8E-03	8E-02	8.2E-04	2E-02	3.3E-04		7.5E-04		
	Mercury	7439976	0.136	0.029	0.017	0.061	3.0E-04	--	(i)	2.7E-06	9E-03	5.8E-07	2E-03	2.3E-07		5.3E-07			5.7E-07	2E-03	1.2E-07	4E-04	4.9E-08		1.1E-07		
	Nickel	7440020	14.6	11.8	10.2	12.2	2.0E-02	--		2.9E-04	1E-02	6.2E-05	3E-03	2.5E-05		5.7E-05			2.4E-04	1E-02	5.0E-05	3E-03	2.0E-05		4.6E-05		
	Potassium	7440097	2,210	1,840	1,413	1,821	--	--		4.4E-02		9.5E-03		3.8E-03		8.7E-03			3.7E-02		7.9E-03		3.2E-03		7.2E-03		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.55	0.52	0.53	0.54	5.0E-03	--		1.1E-05	2E-03	2.4E-06	5E-04	9.4E-07		2.2E-06			1.0E-05	2E-03	2.2E-06	4E-04	8.9E-07		2.0E-06		
	Sodium	7440235	144	103	93	113	--	--		2.9E-03		6.2E-04		2.5E-04		5.6E-04			2.1E-03		4.4E-04		1.8E-04		4.0E-04		
	Thallium	7440280	1.37	1.32	1.33	1.34	6.5E-05	--		2.7E-05	4E-01	5.9E-06	9E-02	2.3E-06		5.4E-06			2.6E-05	4E-01	5.6E-06	9E-02	2.3E-06		5.2E-06		
	Uranium	7440611	10.2	10.5	10.6	10.4	6.0E-04	--	(e)	2.0E-04	3E-01	4.4E-05	7E-02	1.7E-05		4.0E-05			2.1E-04	4E-01	4.5E-05	8E-02	1.8E-05		4.1E-05		
	Vanadium	7440622	23.0	21.0	18.0	20.7	7.0E-03	--		4.6E-04	7E-02	9.8E-05	1E-02	3.9E-05		9.0E-05			4.2E-04	6E-02	9.0E-05	1E-02	3.6E-05		8.2E-05		
	Zinc	7440666	233	143	120	165	3.0E-01	--		4.7E-03	2E-02	1.0E-03	3E-03	4.0E-04		9.1E-04			2.9E-03	1E-02	6.1E-04	2E-03	2.4E-04		5.6E-04		
									Total		**3E+00**		**6E-01**		**2E-05**		**3E-05**	**5E-05**		**3E+00**		**5E-01**		**2E-05**		**4E-05**	**6E-05**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Subsist_Traditional

Exposure Area: Columbia Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	2.00E-05	4.29E-06
Cancer:	1.71E-06	3.92E-06

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	11,617	10,660	8,947	10,408	1.0E+00	--		1.8E-01	2E-01	3.8E-02	4E-02	1.5E-02		3.5E-02			2.1E-01	2E-01	4.5E-02	4E-02	1.8E-02		4.1E-02		
	Antimony	7440360	1.1	1.0	1.0	1.0	4.0E-04	--		2.1E-05	5E-02	4.5E-06	1E-02	1.8E-06		4.1E-06			2.1E-05	5E-02	4.5E-06	1E-02	1.8E-06		4.1E-06		
	Arsenic	7440382	4.7	5.4	3.8	4.6	2.4E-04	1.9E+00	(j)	7.7E-05	3E-01	1.6E-05	7E-02	6.6E-06	1E-05	1.5E-05	3E-05	4E-05	9.3E-05	4E-01	2.0E-05	8E-02	8.0E-06	1E-05	1.8E-05	3E-05	5E-05
	Barium	7440393	116	100	81	99	2.0E-01	--		1.6E-03	8E-03	3.5E-04	2E-03	1.4E-04		3.2E-04			2.0E-03	1E-02	4.2E-04	2E-03	1.7E-04		3.9E-04		
	Beryllium	7440417	0.86	0.71	0.57	0.71	2.0E-03	--		1.1E-05	6E-03	2.4E-06	1E-03	9.7E-07		2.2E-06			1.4E-05	7E-03	3.0E-06	2E-03	1.2E-06		2.8E-06		
	Cadmium	7440439	1.63	0.45	0.33	0.80	1.0E-03	--	(a)	6.7E-06	7E-03	1.4E-06	1E-03	5.7E-07		1.3E-06			1.6E-05	2E-02	3.4E-06	3E-03	1.4E-06		3.1E-06		
	Calcium	7440702	2,980	2,333	2,017	2,443	--	--		4.0E-02		8.6E-03		3.5E-03		7.9E-03			4.9E-02		1.0E-02		4.2E-03		9.6E-03		
	Chromium	7440473	16.9	14.3	12.1	14.4	1.5E+00	--	(b)	2.4E-04	2E-04	5.2E-05	3E-05	2.1E-05		4.8E-05			2.9E-04	2E-04	6.2E-05	4E-05	2.5E-05		5.7E-05		
	Cobalt	7440484	7.7	6.3	5.4	6.5	3.0E-04	--		1.1E-04	4E-01	2.3E-05	8E-02	9.3E-06		2.1E-05			1.3E-04	4E-01	2.8E-05	9E-02	1.1E-05		2.5E-05		
	Copper	7440508	19	11	9	13	4.0E-02	--		1.7E-04	4E-03	3.7E-05	9E-04	1.5E-05		3.4E-05			2.6E-04	7E-03	5.6E-05	1E-03	2.2E-05		5.1E-05		
	Iron	7439896	16,700	15,933	14,400	15,678	7.0E-01	--		2.9E-01	4E-01	6.2E-02	9E-02	2.5E-02		5.6E-02			3.1E-01	4E-01	6.7E-02	1E-01	2.7E-02		6.1E-02		
	Lead	7439921	58	18	11	29			(c)																		
	Magnesium	7439954	4,107	3,890	3,487	3,828	--	--		7.0E-02		1.5E-02		6.0E-03		1.4E-02			7.7E-02		1.6E-02		6.6E-03		1.5E-02		
	Manganese	7439965	283	190	167	214	4.7E-02	--	(d)	3.3E-03	7E-02	7.2E-04	2E-02	2.9E-04		6.5E-04			4.3E-03	9E-02	9.2E-04	2E-02	3.7E-04		8.4E-04		
	Mercury	7439976	0.136	0.029	0.017	0.061	3.0E-04	--	(i)	3.4E-07	1E-03	7.3E-08	2E-04	2.9E-08		6.7E-08			1.2E-06	4E-03	2.6E-07	9E-04	1.0E-07		2.4E-07		
	Nickel	7440020	14.6	11.8	10.2	12.2	2.0E-02	--		2.0E-04	1E-02	4.4E-05	2E-03	1.8E-05		4.0E-05			2.4E-04	1E-02	5.2E-05	3E-03	2.1E-05		4.8E-05		
	Potassium	7440097	2,210	1,840	1,413	1,821	--	--		2.8E-02		6.1E-03		2.4E-03		5.5E-03			3.6E-02		7.8E-03		3.1E-03		7.1E-03		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.55	0.52	0.53	0.54	5.0E-03	--		1.1E-05	2E-03	2.3E-06	5E-04	9.1E-07		2.1E-06			1.1E-05	2E-03	2.3E-06	5E-04	9.2E-07		2.1E-06		
	Sodium	7440235	144	103	93	113	--	--		1.9E-03		4.0E-04		1.6E-04		3.7E-04			2.3E-03		4.9E-04		1.9E-04		4.4E-04		
	Thallium	7440280	1.37	1.32	1.33	1.34	6.5E-05	--		2.7E-05	4E-01	5.7E-06	9E-02	2.3E-06		5.2E-06			2.7E-05	4E-01	5.7E-06	9E-02	2.3E-06		5.2E-06		
	Uranium	7440611	10.2	10.5	10.6	10.4	6.0E-04	--	(e)	2.1E-04	4E-01	4.5E-05	8E-02	1.8E-05		4.1E-05			2.1E-04	3E-01	4.5E-05	7E-02	1.8E-05		4.1E-05		
	Vanadium	7440622	23.0	21.0	18.0	20.7	7.0E-03	--		3.6E-04	5E-02	7.7E-05	1E-02	3.1E-05		7.0E-05			4.1E-04	6E-02	8.9E-05	1E-02	3.5E-05		8.1E-05		
	Zinc	7440666	233	143	120	165	3.0E-01	--		2.9E-03	1E-02	6.1E-04	2E-03	2.4E-04		5.6E-04			3.3E-03	1E-02	7.1E-04	2E-03	2.8E-04		6.5E-04		
									Total		**2E+00**		**5E-01**		**1E-05**		**3E-05**	**4E-05**		**3E+00**		**5E-01**		**1E-05**		**3E-05**	**5E-05**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:

(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Subsist_Traditional

Exposure Area: Dalles Orchard

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	2.00E-05	4.29E-06
Cancer:	1.71E-06	3.92E-06

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	11,300	11,900	10,700	11,300	1.0E+00	--		2.3E-01	2E-01	4.8E-02	5E-02	1.9E-02		4.4E-02			2.4E-01	2E-01	5.1E-02	5E-02	2.0E-02		4.7E-02		
	Antimony	7440360	24.8	32.4	11.2	22.8	4.0E-04	--		5.0E-04	1E+00	1.1E-04	3E-01	4.3E-05		9.7E-05			6.5E-04	2E+00	1.4E-04	3E-01	5.6E-05		1.3E-04		
	Arsenic	7440382	18.1	22.5	13.7	18.1	2.4E-04	1.9E+00	(j)	3.6E-04	2E+00	7.8E-05	3E-01	3.1E-05	6E-05	7.1E-05	1E-04	2E-04	4.5E-04	2E+00	9.6E-05	4E-01	3.9E-05	7E-05	8.8E-05	2E-04	2E-04
	Barium	7440393	1,020	1,070	686	925	2.0E-01	--		2.0E-02	1E-01	4.4E-03	2E-02	1.7E-03		4.0E-03			2.1E-02	1E-01	4.6E-03	2E-02	1.8E-03		4.2E-03		
	Beryllium	7440417	0.84	0.88	0.77	0.83	2.0E-03	--		1.7E-05	8E-03	3.6E-06	2E-03	1.4E-06		3.3E-06			1.8E-05	9E-03	3.8E-06	2E-03	1.5E-06		3.4E-06		
	Cadmium	7440439	2.10	1.90	2.50	2.17	1.0E-03	--	(a)	4.2E-05	4E-02	9.0E-06	9E-03	3.6E-06		8.2E-06			3.8E-05	4E-02	8.1E-06	8E-03	3.3E-06		7.4E-06		
	Calcium	7440702	37,700	39,900	35,100	37,567	--	--		7.5E-01		1.6E-01		6.5E-02		1.5E-01			8.0E-01		1.7E-01		6.8E-02		1.6E-01		
	Chromium	7440473	71.9	77.6	51.3	66.9	1.5E+00	--	(b)	1.4E-03	1E-03	3.1E-04	2E-04	1.2E-04		2.8E-04			1.6E-03	1E-03	3.3E-04	2E-04	1.3E-04		3.0E-04		
	Cobalt	7440484	35.1	36.8	22.4	31.4	3.0E-04	--		7.0E-04	2E+00	1.5E-04	5E-01	6.0E-05		1.4E-04			7.4E-04	2E+00	1.6E-04	5E-01	6.3E-05		1.4E-04		
	Copper	7440508	1,300	1,380	802	1,161	4.0E-02	--		2.6E-02	7E-01	5.6E-03	1E-01	2.2E-03		5.1E-03			2.8E-02	7E-01	5.9E-03	1E-01	2.4E-03		5.4E-03		
	Iron	7439896	108,000	110,000	82,100	100,033	7.0E-01	--		2.2E+00	3E+00	4.6E-01	7E-01	1.9E-01		4.2E-01			2.2E+00	3E+00	4.7E-01	7E-01	1.9E-01		4.3E-01		
	Lead	7439921	205	190	214	203			(c)																		
	Magnesium	7439954	5,640	6,450	9,090	7,060	--	--		1.1E-01		2.4E-02		9.7E-03		2.2E-02			1.3E-01		2.8E-02		1.1E-02		2.5E-02		
	Manganese	7439965	2,110	2,200	1,660	1,990	4.7E-02	--	(d)	4.2E-02	9E-01	9.0E-03	2E-01	3.6E-03		8.3E-03			4.4E-02	9E-01	9.4E-03	2E-01	3.8E-03		8.6E-03		
	Mercury	7439976	0.034	0.044	0.073	0.050	3.0E-04	--	(i)	6.8E-07	2E-03	1.5E-07	5E-04	5.8E-08		1.3E-07			8.8E-07	3E-03	1.9E-07	6E-04	7.5E-08		1.7E-07		
	Nickel	7440020	10.4	12.1	10.4	11.0	2.0E-02	--		2.1E-04	1E-02	4.5E-05	2E-03	1.8E-05		4.1E-05			2.4E-04	1E-02	5.2E-05	3E-03	2.1E-05		4.7E-05		
	Potassium	7440097	2,270	2,300	2,030	2,200	--	--		4.5E-02		9.7E-03		3.9E-03		8.9E-03			4.6E-02		9.9E-03		3.9E-03		9.0E-03		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.50	0.49	0.50	0.50	5.0E-03	--		1.0E-05	2E-03	2.1E-06	4E-04	8.6E-07		2.0E-06			9.7E-06	2E-03	2.1E-06	4E-04	8.3E-07		1.9E-06		
	Sodium	7440235	1,200	1,300	811	1,104	--	--		2.4E-02		5.1E-03		2.1E-03		4.7E-03			2.6E-02		5.6E-03		2.2E-03		5.1E-03		
	Thallium	7440280	0.83	1.10	1.30	1.08	6.5E-05	--		1.7E-05	3E-01	3.6E-06	5E-02	1.4E-06		3.3E-06			2.2E-05	3E-01	4.7E-06	7E-02	1.9E-06		4.3E-06		
	Uranium	7440611	10.2	9.7	10.5	10.1	6.0E-04	--	(e)	2.0E-04	3E-01	4.4E-05	7E-02	1.7E-05		4.0E-05			1.9E-04	3E-01	4.2E-05	7E-02	1.7E-05		3.8E-05		
	Vanadium	7440622	28.2	29.2	27.2	28.2	7.0E-03	--		5.6E-04	8E-02	1.2E-04	2E-02	4.8E-05		1.1E-04			5.8E-04	8E-02	1.3E-04	2E-02	5.0E-05		1.1E-04		
	Zinc	7440666	8,700	8,410	6,560	7,890	3.0E-01	--		1.7E-01	6E-01	3.7E-02	1E-01	1.5E-02		3.4E-02			1.7E-01	6E-01	3.6E-02	1E-01	1.4E-02		3.3E-02		
									Total		**1E+01**		**2E+00**		**6E-05**		**1E-04**	**2E-04**		**1E+01**		**3E+00**		**7E-05**		**2E-04**	**2E-04**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Subsist_Traditional

Exposure Area: Dalles Orchard

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	2.00E-05	4.29E-06
Cancer:	1.71E-06	3.92E-06

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	11,300	11,900	10,700	11,300	1.0E+00	--		2.1E-01	2E-01	4.6E-02	5E-02	1.8E-02		4.2E-02			2.3E-01	2E-01	4.8E-02	5E-02	1.9E-02		4.4E-02		
	Antimony	7440360	24.8	32.4	11.2	22.8	4.0E-04	--		2.2E-04	6E-01	4.8E-05	1E-01	1.9E-05		4.4E-05			4.6E-04	1E+00	9.8E-05	2E-01	3.9E-05		8.9E-05		
	Arsenic	7440382	18.1	22.5	13.7	18.1	2.4E-04	1.9E+00	(j)	2.7E-04	1E+00	5.9E-05	2E-01	2.3E-05	4E-05	5.4E-05	1E-04	1E-04	3.6E-04	2E+00	7.8E-05	3E-01	3.1E-05	6E-05	7.1E-05	1E-04	2E-04
	Barium	7440393	1,020	1,070	686	925	2.0E-01	--		1.4E-02	7E-02	2.9E-03	1E-02	1.2E-03		2.7E-03			1.9E-02	9E-02	4.0E-03	2E-02	1.6E-03		3.6E-03		
	Beryllium	7440417	0.84	0.88	0.77	0.83	2.0E-03	--		1.5E-05	8E-03	3.3E-06	2E-03	1.3E-06		3.0E-06			1.7E-05	8E-03	3.6E-06	2E-03	1.4E-06		3.3E-06		
	Cadmium	7440439	2.10	1.90	2.50	2.17	1.0E-03	--	(a)	5.0E-05	5E-02	1.1E-05	1E-02	4.3E-06		9.8E-06			4.3E-05	4E-02	9.3E-06	9E-03	3.7E-06		8.5E-06		
	Calcium	7440702	37,700	39,900	35,100	37,567	--	--		7.0E-01		1.5E-01		6.0E-02		1.4E-01			7.5E-01		1.6E-01		6.4E-02		1.5E-01		
	Chromium	7440473	71.9	77.6	51.3	66.9	1.5E+00	--	(b)	1.0E-03	7E-04	2.2E-04	1E-04	8.8E-05		2.0E-04			1.3E-03	9E-04	2.9E-04	2E-04	1.1E-04		2.6E-04		
	Cobalt	7440484	35.1	36.8	22.4	31.4	3.0E-04	--		4.5E-04	1E+00	9.6E-05	3E-01	3.8E-05		8.8E-05			6.3E-04	2E+00	1.3E-04	4E-01	5.4E-05		1.2E-04		
	Copper	7440508	1,300	1,380	802	1,161	4.0E-02	--		1.6E-02	4E-01	3.4E-03	9E-02	1.4E-03		3.1E-03			2.3E-02	6E-01	5.0E-03	1E-01	2.0E-03		4.5E-03		
	Iron	7439896	108,000	110,000	82,100	100,033	7.0E-01	--		1.6E+00	2E+00	3.5E-01	5E-01	1.4E-01		3.2E-01			2.0E+00	3E+00	4.3E-01	6E-01	1.7E-01		3.9E-01		
	Lead	7439921	205	190	214	203			(c)																		
	Magnesium	7439954	5,640	6,450	9,090	7,060	--	--		1.8E-01		3.9E-02		1.6E-02		3.6E-02			1.4E-01		3.0E-02		1.2E-02		2.8E-02		
	Manganese	7439965	2,110	2,200	1,660	1,990	4.7E-02	--	(d)	3.3E-02	7E-01	7.1E-03	2E-01	2.8E-03		6.5E-03			4.0E-02	9E-01	8.5E-03	2E-01	3.4E-03		7.8E-03		
	Mercury	7439976	0.034	0.044	0.073	0.050	3.0E-04	--	(i)	1.5E-06	5E-03	3.1E-07	1E-03	1.3E-07		2.9E-07			1.0E-06	3E-03	2.2E-07	7E-04	8.6E-08		2.0E-07		
	Nickel	7440020	10.4	12.1	10.4	11.0	2.0E-02	--		2.1E-04	1E-02	4.5E-05	2E-03	1.8E-05		4.1E-05			2.2E-04	1E-02	4.7E-05	2E-03	1.9E-05		4.3E-05		
	Potassium	7440097	2,270	2,300	2,030	2,200	--	--		4.1E-02		8.7E-03		3.5E-03		8.0E-03			4.4E-02		9.4E-03		3.8E-03		8.6E-03		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.50	0.49	0.50	0.50	5.0E-03	--		1.0E-05	2E-03	2.1E-06	4E-04	8.6E-07		2.0E-06			9.9E-06	2E-03	2.1E-06	4E-04	8.5E-07		1.9E-06		
	Sodium	7440235	1,200	1,300	811	1,104	--	--		1.6E-02		3.5E-03		1.4E-03		3.2E-03			2.2E-02		4.7E-03		1.9E-03		4.3E-03		
	Thallium	7440280	0.83	1.10	1.30	1.08	6.5E-05	--		2.6E-05	4E-01	5.6E-06	9E-02	2.2E-06		5.1E-06			2.2E-05	3E-01	4.6E-06	7E-02	1.8E-06		4.2E-06		
	Uranium	7440611	10.2	9.7	10.5	10.1	6.0E-04	--	(e)	2.1E-04	4E-01	4.5E-05	8E-02	1.8E-05		4.1E-05			2.0E-04	3E-01	4.3E-05	7E-02	1.7E-05		4.0E-05		
	Vanadium	7440622	28.2	29.2	27.2	28.2	7.0E-03	--		5.4E-04	8E-02	1.2E-04	2E-02	4.7E-05		1.1E-04			5.6E-04	8E-02	1.2E-04	2E-02	4.8E-05		1.1E-04		
	Zinc	7440666	8,700	8,410	6,560	7,890	3.0E-01	--		1.7E-01	6E-01	3.6E-02	1E-01	1.4E-02		3.3E-02			1.6E-01	5E-01	3.4E-02	1E-01	1.4E-02		3.1E-02		
									Total		**8E+00**		**2E+00**		**4E-05**		**1E-04**	**1E-04**		**1E+01**		**2E+00**		**6E-05**		**1E-04**	**2E-04**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:

(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Subsist_Traditional

Exposure Area: French Rocks Boat Launch

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	2.00E-05	4.29E-06
Cancer:	1.71E-06	3.92E-06

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	6,370	6,050	6,550	6,323	1.0E+00	--		1.3E-01	1E-01	2.7E-02	3E-02	1.1E-02		2.5E-02			1.2E-01	1E-01	2.6E-02	3E-02	1.0E-02		2.4E-02		
	Antimony	7440360	1.0	1.0	0.4	0.8	4.0E-04	--		1.9E-05	5E-02	4.1E-06	1E-02	1.6E-06		3.7E-06			2.0E-05	5E-02	4.3E-06	1E-02	1.7E-06		3.9E-06		
	Arsenic	7440382	2.6	2.4	2.4	2.5	2.4E-04	1.9E+00	(j)	5.2E-05	2E-01	1.1E-05	5E-02	4.5E-06	8E-06	1.0E-05	2E-05	3E-05	4.8E-05	2E-01	1.0E-05	4E-02	4.1E-06	8E-06	9.4E-06	2E-05	3E-05
	Barium	7440393	56	58	62	59	2.0E-01	--		1.1E-03	6E-03	2.4E-04	1E-03	9.7E-05		2.2E-04			1.2E-03	6E-03	2.5E-04	1E-03	9.9E-05		2.3E-04		
	Beryllium	7440417	0.52	0.51	0.46	0.50	2.0E-03	--		1.0E-05	5E-03	2.2E-06	1E-03	8.9E-07		2.0E-06			1.0E-05	5E-03	2.2E-06	1E-03	8.7E-07		2.0E-06		
	Cadmium	7440439	0.45	0.33	0.51	0.43	1.0E-03	--	(a)	9.0E-06	9E-03	1.9E-06	2E-03	7.7E-07		1.8E-06			6.6E-06	7E-03	1.4E-06	1E-03	5.7E-07		1.3E-06		
	Calcium	7440702	3,050	2,430	4,830	3,437	--	--		6.1E-02		1.3E-02		5.2E-03		1.2E-02			4.9E-02		1.0E-02		4.2E-03		9.5E-03		
	Chromium	7440473	12.7	12.4	12.8	12.6	1.5E+00	--	(b)	2.5E-04	2E-04	5.4E-05	4E-05	2.2E-05		5.0E-05			2.5E-04	2E-04	5.3E-05	4E-05	2.1E-05		4.9E-05		
	Cobalt	7440484	4.9	4.3	4.5	4.6	3.0E-04	--		9.8E-05	3E-01	2.1E-05	7E-02	8.4E-06		1.9E-05			8.6E-05	3E-01	1.8E-05	6E-02	7.4E-06		1.7E-05		
	Copper	7440508	14	15	11	13	4.0E-02	--		2.8E-04	7E-03	5.9E-05	1E-03	2.4E-05		5.4E-05			2.9E-04	7E-03	6.2E-05	2E-03	2.5E-05		5.7E-05		
	Iron	7439896	12,000	9,960	11,000	10,987	7.0E-01	--		2.4E-01	3E-01	5.1E-02	7E-02	2.1E-02		4.7E-02			2.0E-01	3E-01	4.3E-02	6E-02	1.7E-02		3.9E-02		
	Lead	7439921	22	19	21	20			(c)																		
	Magnesium	7439954	3,980	2,770	4,590	3,780	--	--		8.0E-02		1.7E-02		6.8E-03		1.6E-02			5.5E-02		1.2E-02		4.7E-03		1.1E-02		
	Manganese	7439965	260	171	208	213	4.7E-02	--	(d)	5.2E-03	1E-01	1.1E-03	2E-02	4.5E-04		1.0E-03			3.4E-03	7E-02	7.3E-04	2E-02	2.9E-04		6.7E-04		
	Mercury	7439976	0.030	0.019	0.050	0.033	3.0E-04	--	(i)	6.0E-07	2E-03	1.3E-07	4E-04	5.1E-08		1.2E-07			3.8E-07	1E-03	8.1E-08	3E-04	3.3E-08		7.4E-08		
	Nickel	7440020	10.9	9.6	15.0	11.8	2.0E-02	--		2.2E-04	1E-02	4.7E-05	2E-03	1.9E-05		4.3E-05			1.9E-04	1E-02	4.1E-05	2E-03	1.6E-05		3.8E-05		
	Potassium	7440097	775	843	749	789	--	--		1.6E-02		3.3E-03		1.3E-03		3.0E-03			1.7E-02		3.6E-03		1.4E-03		3.3E-03		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.55	0.50	0.45	0.50	5.0E-03	--		1.1E-05	2E-03	2.4E-06	5E-04	9.4E-07		2.2E-06			1.0E-05	2E-03	2.1E-06	4E-04	8.6E-07		2.0E-06		
	Sodium	7440235	155	131	134	140	--	--		3.1E-03		6.6E-04		2.7E-04		6.1E-04			2.6E-03		5.6E-04		2.2E-04		5.1E-04		
	Thallium	7440280	1.40	1.30	1.10	1.27	6.5E-05	--		2.8E-05	4E-01	6.0E-06	9E-02	2.4E-06		5.5E-06			2.6E-05	4E-01	5.6E-06	9E-02	2.2E-06		5.1E-06		
	Uranium	7440611	11.1	8.4	8.9	9.4	6.0E-04	--	(e)	2.2E-04	4E-01	4.7E-05	8E-02	1.9E-05		4.3E-05			1.7E-04	3E-01	3.6E-05	6E-02	1.4E-05		3.3E-05		
	Vanadium	7440622	21.7	19.6	21.9	21.1	7.0E-03	--		4.3E-04	6E-02	9.3E-05	1E-02	3.7E-05		8.5E-05			3.9E-04	6E-02	8.4E-05	1E-02	3.4E-05		7.7E-05		
	Zinc	7440666	97	67	92	85	3.0E-01	--		1.9E-03	6E-03	4.2E-04	1E-03	1.7E-04		3.8E-04			1.3E-03	4E-03	2.9E-04	1E-03	1.2E-04		2.6E-04		
									Total		**2E+00**		**4E-01**		**8E-06**		**2E-05**	**3E-05**		**2E+00**		**4E-01**		**8E-06**		**2E-05**	**3E-05**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Subsist_Traditional

Exposure Area: French Rocks Boat Launch

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	2.00E-05	4.29E-06
Cancer:	1.71E-06	3.92E-06

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	6,370	6,050	6,550	6,323	1.0E+00	--		1.3E-01	1E-01	2.8E-02	3E-02	1.1E-02		2.6E-02			1.3E-01	1E-01	2.7E-02	3E-02	1.1E-02		2.5E-02		
	Antimony	7440360	1.0	1.0	0.4	0.8	4.0E-04	--		8.4E-06	2E-02	1.8E-06	5E-03	7.2E-07		1.6E-06			1.6E-05	4E-02	3.4E-06	8E-03	1.4E-06		3.1E-06		
	Arsenic	7440382	2.6	2.4	2.4	2.5	2.4E-04	1.9E+00	(j)	4.8E-05	2E-01	1.0E-05	4E-02	4.1E-06	8E-06	9.4E-06	2E-05	3E-05	4.9E-05	2E-01	1.1E-05	4E-02	4.2E-06	8E-06	9.7E-06	2E-05	3E-05
	Barium	7440393	56	58	62	59	2.0E-01	--		1.2E-03	6E-03	2.6E-04	1E-03	1.1E-04		2.4E-04			1.2E-03	6E-03	2.5E-04	1E-03	1.0E-04		2.3E-04		
	Beryllium	7440417	0.52	0.51	0.46	0.50	2.0E-03	--		9.2E-06	5E-03	2.0E-06	1E-03	7.9E-07		1.8E-06			9.9E-06	5E-03	2.1E-06	1E-03	8.5E-07		1.9E-06		
	Cadmium	7440439	0.45	0.33	0.51	0.43	1.0E-03	--	(a)	1.0E-05	1E-02	2.2E-06	2E-03	8.7E-07		2.0E-06			8.6E-06	9E-03	1.8E-06	2E-03	7.4E-07		1.7E-06		
	Calcium	7440702	3,050	2,430	4,830	3,437	--	--		9.7E-02		2.1E-02		8.3E-03		1.9E-02			6.9E-02		1.5E-02		5.9E-03		1.3E-02		
	Chromium	7440473	12.7	12.4	12.8	12.6	1.5E+00	--	(b)	2.6E-04	2E-04	5.5E-05	4E-05	2.2E-05		5.0E-05			2.5E-04	2E-04	5.4E-05	4E-05	2.2E-05		5.0E-05		
	Cobalt	7440484	4.9	4.3	4.5	4.6	3.0E-04	--		9.0E-05	3E-01	1.9E-05	6E-02	7.7E-06		1.8E-05			9.1E-05	3E-01	2.0E-05	7E-02	7.8E-06		1.8E-05		
	Copper	7440508	14	15	11	13	4.0E-02	--		2.2E-04	5E-03	4.7E-05	1E-03	1.9E-05		4.3E-05			2.6E-04	7E-03	5.6E-05	1E-03	2.2E-05		5.1E-05		
	Iron	7439896	12,000	9,960	11,000	10,987	7.0E-01	--		2.2E-01	3E-01	4.7E-02	7E-02	1.9E-02		4.3E-02			2.2E-01	3E-01	4.7E-02	7E-02	1.9E-02		4.3E-02		
	Lead	7439921	22	19	21	20			(c)																		
	Magnesium	7439954	3,980	2,770	4,590	3,780	--	--		9.2E-02		2.0E-02		7.9E-03		1.8E-02			7.6E-02		1.6E-02		6.5E-03		1.5E-02		
	Manganese	7439965	260	171	208	213	4.7E-02	--	(d)	4.2E-03	9E-02	8.9E-04	2E-02	3.6E-04		8.2E-04			4.3E-03	9E-02	9.1E-04	2E-02	3.7E-04		8.3E-04		
	Mercury	7439976	0.030	0.019	0.050	0.033	3.0E-04	--	(i)	9.9E-07	3E-03	2.1E-07	7E-04	8.5E-08		1.9E-07			6.6E-07	2E-03	1.4E-07	5E-04	5.6E-08		1.3E-07		
	Nickel	7440020	10.9	9.6	15.0	11.8	2.0E-02	--		3.0E-04	2E-02	6.4E-05	3E-03	2.6E-05		5.9E-05			2.4E-04	1E-02	5.1E-05	3E-03	2.0E-05		4.6E-05		
	Potassium	7440097	775	843	749	789	--	--		1.5E-02		3.2E-03		1.3E-03		2.9E-03			1.6E-02		3.4E-03		1.4E-03		3.1E-03		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.55	0.50	0.45	0.50	5.0E-03	--		8.9E-06	2E-03	1.9E-06	4E-04	7.6E-07		1.7E-06			1.0E-05	2E-03	2.1E-06	4E-04	8.5E-07		2.0E-06		
	Sodium	7440235	155	131	134	140	--	--		2.7E-03		5.7E-04		2.3E-04		5.3E-04			2.8E-03		6.0E-04		2.4E-04		5.5E-04		
	Thallium	7440280	1.40	1.30	1.10	1.27	6.5E-05	--		2.2E-05	3E-01	4.7E-06	7E-02	1.9E-06		4.3E-06			2.5E-05	4E-01	5.4E-06	8E-02	2.2E-06		5.0E-06		
	Uranium	7440611	11.1	8.4	8.9	9.4	6.0E-04	--	(e)	1.8E-04	3E-01	3.8E-05	6E-02	1.5E-05		3.5E-05			1.9E-04	3E-01	4.0E-05	7E-02	1.6E-05		3.7E-05		
	Vanadium	7440622	21.7	19.6	21.9	21.1	7.0E-03	--		4.4E-04	6E-02	9.4E-05	1E-02	3.8E-05		8.6E-05			4.2E-04	6E-02	9.0E-05	1E-02	3.6E-05		8.3E-05		
	Zinc	7440666	97	67	92	85	3.0E-01	--		1.3E-03	4E-03	2.9E-04	1E-03	1.2E-04		2.6E-04			1.7E-03	6E-03	3.7E-04	1E-03	1.5E-04		3.3E-04		
									Total		**2E+00**		**4E-01**		**8E-06**		**2E-05**	**3E-05**		**2E+00**		**4E-01**		**8E-06**		**2E-05**	**3E-05**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:

(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Subsist_Traditional

Exposure Area: Haag Cove

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	2.00E-05	4.29E-06
Cancer:	1.71E-06	3.92E-06

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	13,000	7,660	3,000	7,887	1.0E+00	--		2.6E-01	3E-01	5.6E-02	6E-02	2.2E-02		5.1E-02			1.5E-01	2E-01	3.3E-02	3E-02	1.3E-02		3.0E-02		
	Antimony	7440360	1.8	1.8	0.3	1.3	4.0E-04	--		3.6E-05	9E-02	7.7E-06	2E-02	3.1E-06		7.1E-06			3.6E-05	9E-02	7.7E-06	2E-02	3.1E-06		7.1E-06		
	Arsenic	7440382	2.3	1.4	1.0	1.6	2.4E-04	1.9E+00	(j)	4.6E-05	2E-01	9.9E-06	4E-02	3.9E-06	7E-06	9.0E-06	2E-05	2E-05	2.8E-05	1E-01	6.0E-06	3E-02	2.4E-06	5E-06	5.5E-06	1E-05	1E-05
	Barium	7440393	232	102	30	121	2.0E-01	--		4.6E-03	2E-02	9.9E-04	5E-03	4.0E-04		9.1E-04			2.0E-03	1E-02	4.4E-04	2E-03	1.7E-04		4.0E-04		
	Beryllium	7440417	1.20	0.69	0.28	0.72	2.0E-03	--		2.4E-05	1E-02	5.1E-06	3E-03	2.1E-06		4.7E-06			1.4E-05	7E-03	3.0E-06	1E-03	1.2E-06		2.7E-06		
	Cadmium	7440439	7.80	4.40	0.32	4.17	1.0E-03	--	(a)	1.6E-04	2E-01	3.3E-05	3E-02	1.3E-05		3.1E-05			8.8E-05	9E-02	1.9E-05	2E-02	7.5E-06		1.7E-05		
	Calcium	7440702	5,670	2,550	879	3,033	--	--		1.1E-01		2.4E-02		9.7E-03		2.2E-02			5.1E-02		1.1E-02		4.4E-03		1.0E-02		
	Chromium	7440473	24.8	14.6	5.6	15.0	1.5E+00	--	(b)	5.0E-04	3E-04	1.1E-04	7E-05	4.3E-05		9.7E-05			2.9E-04	2E-04	6.3E-05	4E-05	2.5E-05		5.7E-05		
	Cobalt	7440484	8.7	5.2	2.3	5.4	3.0E-04	--		1.7E-04	6E-01	3.7E-05	1E-01	1.5E-05		3.4E-05			1.0E-04	3E-01	2.2E-05	7E-02	8.9E-06		2.0E-05		
	Copper	7440508	34	17	4	18	4.0E-02	--		6.8E-04	2E-02	1.5E-04	4E-03	5.8E-05		1.3E-04			3.3E-04	8E-03	7.1E-05	2E-03	2.8E-05		6.5E-05		
	Iron	7439896	18,100	11,800	5,180	11,693	7.0E-01	--		3.6E-01	5E-01	7.8E-02	1E-01	3.1E-02		7.1E-02			2.4E-01	3E-01	5.1E-02	7E-02	2.0E-02		4.6E-02		
	Lead	7439921	222	136	17	125			(c)																		
	Magnesium	7439954	5,220	3,210	1,390	3,273	--	--		1.0E-01		2.2E-02		8.9E-03		2.0E-02			6.4E-02		1.4E-02		5.5E-03		1.3E-02		
	Manganese	7439965	267	158	111	179	4.7E-02	--	(d)	5.3E-03	1E-01	1.1E-03	2E-02	4.6E-04		1.0E-03			3.2E-03	7E-02	6.8E-04	1E-02	2.7E-04		6.2E-04		
	Mercury	7439976	0.800	0.290	0.050	0.380	3.0E-04	--	(i)	1.6E-05	5E-02	3.4E-06	1E-02	1.4E-06		3.1E-06			5.8E-06	2E-02	1.2E-06	4E-03	5.0E-07		1.1E-06		
	Nickel	7440020	19.7	11.2	4.1	11.7	2.0E-02	--		3.9E-04	2E-02	8.4E-05	4E-03	3.4E-05		7.7E-05			2.2E-04	1E-02	4.8E-05	2E-03	1.9E-05		4.4E-05		
	Potassium	7440097	2,260	1,120	483	1,288	--	--		4.5E-02		9.7E-03		3.9E-03		8.9E-03			2.2E-02		4.8E-03		1.9E-03		4.4E-03		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.75	0.60	0.43	0.59	5.0E-03	--		1.5E-05	3E-03	3.2E-06	6E-04	1.3E-06		2.9E-06			1.2E-05	2E-03	2.6E-06	5E-04	1.0E-06		2.4E-06		
	Sodium	7440235	242	125	60	142	--	--		4.8E-03		1.0E-03		4.1E-04		9.5E-04			2.5E-03		5.4E-04		2.1E-04		4.9E-04		
	Thallium	7440280	1.90	1.45	1.10	1.48	6.5E-05	--		3.8E-05	6E-01	8.1E-06	1E-01	3.3E-06		7.4E-06			2.9E-05	4E-01	6.2E-06	1E-01	2.5E-06		5.7E-06		
	Uranium	7440611	15.1	11.6	8.7	11.8	6.0E-04	--	(e)	3.0E-04	5E-01	6.5E-05	1E-01	2.6E-05		5.9E-05			2.3E-04	4E-01	5.0E-05	8E-02	2.0E-05		4.5E-05		
	Vanadium	7440622	29.0	19.8	9.1	19.3	7.0E-03	--		5.8E-04	8E-02	1.2E-04	2E-02	5.0E-05		1.1E-04			4.0E-04	6E-02	8.5E-05	1E-02	3.4E-05		7.8E-05		
	Zinc	7440666	700	391	54	382	3.0E-01	--		1.4E-02	5E-02	3.0E-03	1E-02	1.2E-03		2.7E-03			7.8E-03	3E-02	1.7E-03	6E-03	6.7E-04		1.5E-03		
									Total		**3E+00**		**7E-01**		**7E-06**		**2E-05**	**2E-05**		**2E+00**		**5E-01**		**5E-06**		**1E-05**	**1E-05**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Subsist_Traditional

Exposure Area: Haag Cove

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	2.00E-05	4.29E-06
Cancer:	1.71E-06	3.92E-06

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	13,000	7,660	3,000	7,887	1.0E+00	--		6.0E-02	6E-02	1.3E-02	1E-02	5.1E-03		1.2E-02			1.6E-01	2E-01	3.4E-02	3E-02	1.4E-02		3.1E-02		
	Antimony	7440360	1.8	1.8	0.3	1.3	4.0E-04	--		5.8E-06	1E-02	1.2E-06	3E-03	5.0E-07		1.1E-06			2.6E-05	6E-02	5.6E-06	1E-02	2.2E-06		5.1E-06		
	Arsenic	7440382	2.3	1.4	1.0	1.6	2.4E-04	1.9E+00	(j)	2.0E-05	8E-02	4.3E-06	2E-02	1.7E-06	3E-06	3.9E-06	7E-06	1E-05	3.1E-05	1E-01	6.7E-06	3E-02	2.7E-06	5E-06	6.1E-06	1E-05	2E-05
	Barium	7440393	232	102	30	121	2.0E-01	--		6.0E-04	3E-03	1.3E-04	6E-04	5.1E-05		1.2E-04			2.4E-03	1E-02	5.2E-04	3E-03	2.1E-04		4.8E-04		
	Beryllium	7440417	1.20	0.69	0.28	0.72	2.0E-03	--		5.6E-06	3E-03	1.2E-06	6E-04	4.8E-07		1.1E-06			1.4E-05	7E-03	3.1E-06	2E-03	1.2E-06		2.8E-06		
	Cadmium	7440439	7.80	4.40	0.32	4.17	1.0E-03	--	(a)	6.4E-06	6E-03	1.4E-06	1E-03	5.5E-07		1.3E-06			8.3E-05	8E-02	1.8E-05	2E-02	7.2E-06		1.6E-05		
	Calcium	7440702	5,670	2,550	879	3,033	--	--		1.8E-02		3.8E-03		1.5E-03		3.4E-03			6.1E-02		1.3E-02		5.2E-03		1.2E-02		
	Chromium	7440473	24.8	14.6	5.6	15.0	1.5E+00	--	(b)	1.1E-04	7E-05	2.4E-05	2E-05	9.6E-06		2.2E-05			3.0E-04	2E-04	6.4E-05	4E-05	2.6E-05		5.9E-05		
	Cobalt	7440484	8.7	5.2	2.3	5.4	3.0E-04	--		4.6E-05	2E-01	9.9E-06	3E-02	3.9E-06		9.0E-06			1.1E-04	4E-01	2.3E-05	8E-02	9.3E-06		2.1E-05		
	Copper	7440508	34	17	4	18	4.0E-02	--		8.4E-05	2E-03	1.8E-05	5E-04	7.2E-06		1.6E-05			3.6E-04	9E-03	7.8E-05	2E-03	3.1E-05		7.1E-05		
	Iron	7439896	18,100	11,800	5,180	11,693	7.0E-01	--		1.0E-01	1E-01	2.2E-02	3E-02	8.9E-03		2.0E-02			2.3E-01	3E-01	5.0E-02	7E-02	2.0E-02		4.6E-02		
	Lead	7439921	222	136	17	125			(c)																		
	Magnesium	7439954	5,220	3,210	1,390	3,273	--	--		2.8E-02		6.0E-03		2.4E-03		5.4E-03			6.5E-02		1.4E-02		5.6E-03		1.3E-02		
	Manganese	7439965	267	158	111	179	4.7E-02	--	(d)	2.2E-03	5E-02	4.8E-04	1E-02	1.9E-04		4.3E-04			3.6E-03	8E-02	7.7E-04	2E-02	3.1E-04		7.0E-04		
	Mercury	7439976	0.800	0.290	0.050	0.380	3.0E-04	--	(i)	9.9E-07	3E-03	2.1E-07	7E-04	8.5E-08		1.9E-07			7.6E-06	3E-02	1.6E-06	5E-03	6.5E-07		1.5E-06		
	Nickel	7440020	19.7	11.2	4.1	11.7	2.0E-02	--		8.2E-05	4E-03	1.8E-05	9E-04	7.0E-06		1.6E-05			2.3E-04	1E-02	5.0E-05	3E-03	2.0E-05		4.6E-05		
	Potassium	7440097	2,260	1,120	483	1,288	--	--		9.7E-03		2.1E-03		8.3E-04		1.9E-03			2.6E-02		5.5E-03		2.2E-03		5.0E-03		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.75	0.60	0.43	0.59	5.0E-03	--		8.6E-06	2E-03	1.8E-06	4E-04	7.4E-07		1.7E-06			1.2E-05	2E-03	2.5E-06	5E-04	1.0E-06		2.3E-06		
	Sodium	7440235	242	125	60	142	--	--		1.2E-03		2.6E-04		1.0E-04		2.4E-04			2.8E-03		6.1E-04		2.4E-04		5.6E-04		
	Thallium	7440280	1.90	1.45	1.10	1.48	6.5E-05	--		2.2E-05	3E-01	4.7E-06	7E-02	1.9E-06		4.3E-06			3.0E-05	5E-01	6.4E-06	1E-01	2.5E-06		5.8E-06		
	Uranium	7440611	15.1	11.6	8.7	11.8	6.0E-04	--	(e)	1.7E-04	3E-01	3.7E-05	6E-02	1.5E-05		3.4E-05			2.4E-04	4E-01	5.0E-05	8E-02	2.0E-05		4.6E-05		
	Vanadium	7440622	29.0	19.8	9.1	19.3	7.0E-03	--		1.8E-04	3E-02	3.9E-05	6E-03	1.6E-05		3.6E-05			3.9E-04	6E-02	8.3E-05	1E-02	3.3E-05		7.6E-05		
	Zinc	7440666	700	391	54	382	3.0E-01	--		7.8E-03	3E-02	1.7E-03	6E-03	6.7E-04		1.5E-03			7.6E-03	3E-02	1.6E-03	5E-03	6.5E-04		1.5E-03		
									Total		**1E+00**		**3E-01**		**3E-06**		**7E-06**	**1E-05**		**2E+00**		**5E-01**		**5E-06**		**1E-05**	**2E-05**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Subsist_Traditional

Exposure Area: Keller Ferry No. 2

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	2.00E-05	4.29E-06
Cancer:	1.71E-06	3.92E-06

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	8,620	8,030	6,270	7,640	1.0E+00	--		1.7E-01	2E-01	3.7E-02	4E-02	1.5E-02		3.4E-02			1.6E-01	2E-01	3.4E-02	3E-02	1.4E-02		3.1E-02		
	Antimony	7440360	#N/A	#N/A	#N/A	#N/A	4.0E-04	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Arsenic	7440382	4.7	4.9	4.0	4.5	2.4E-04	1.9E+00	(j)	9.4E-05	4E-01	2.0E-05	8E-02	8.1E-06	2E-05	1.8E-05	3E-05	5E-05	9.8E-05	4E-01	2.1E-05	9E-02	8.4E-06	2E-05	1.9E-05	4E-05	5E-05
	Barium	7440393	69	59	46	58	2.0E-01	--		1.4E-03	7E-03	2.9E-04	1E-03	1.2E-04		2.7E-04			1.2E-03	6E-03	2.5E-04	1E-03	1.0E-04		2.3E-04		
	Beryllium	7440417	0.74	0.68	0.51	0.64	2.0E-03	--		1.5E-05	7E-03	3.2E-06	2E-03	1.3E-06		2.9E-06			1.4E-05	7E-03	2.9E-06	1E-03	1.2E-06		2.7E-06		
	Cadmium	7440439	0.25	0.24	0.25	0.25	1.0E-03	--	(a)	5.0E-06	5E-03	1.1E-06	1E-03	4.3E-07		9.8E-07			4.8E-06	5E-03	1.0E-06	1E-03	4.1E-07		9.4E-07		
	Calcium	7440702	1,940	1,760	3,880	2,527	--	--		3.9E-02		8.3E-03		3.3E-03		7.6E-03			3.5E-02		7.5E-03		3.0E-03		6.9E-03		
	Chromium	7440473	12.5	11.2	9.8	11.2	1.5E+00	--	(b)	2.5E-04	2E-04	5.4E-05	4E-05	2.1E-05		4.9E-05			2.2E-04	1E-04	4.8E-05	3E-05	1.9E-05		4.4E-05		
	Cobalt	7440484	5.4	5.0	3.9	4.8	3.0E-04	--		1.1E-04	4E-01	2.3E-05	8E-02	9.3E-06		2.1E-05			1.0E-04	3E-01	2.1E-05	7E-02	8.6E-06		2.0E-05		
	Copper	7440508	9	9	7	8	4.0E-02	--		1.8E-04	5E-03	3.9E-05	1E-03	1.6E-05		3.6E-05			1.7E-04	4E-03	3.7E-05	9E-04	1.5E-05		3.4E-05		
	Iron	7439896	15,600	15,500	13,100	14,733	7.0E-01	--		3.1E-01	4E-01	6.7E-02	1E-01	2.7E-02		6.1E-02			3.1E-01	4E-01	6.6E-02	9E-02	2.7E-02		6.1E-02		
	Lead	7439921	6	6	5	6			(c)																		
	Magnesium	7439954	4,210	4,390	4,330	4,310	--	--		8.4E-02		1.8E-02		7.2E-03		1.6E-02			8.8E-02		1.9E-02		7.5E-03		1.7E-02		
	Manganese	7439965	248	230	214	231	4.7E-02	--	(d)	5.0E-03	1E-01	1.1E-03	2E-02	4.3E-04		9.7E-04			4.6E-03	1E-01	9.9E-04	2E-02	3.9E-04		9.0E-04		
	Mercury	7439976	0.055	0.055	0.055	0.055	3.0E-04	--	(i)	1.1E-06	4E-03	2.4E-07	8E-04	9.4E-08		2.2E-07			1.1E-06	4E-03	2.4E-07	8E-04	9.4E-08		2.2E-07		
	Nickel	7440020	10.1	9.4	8.5	9.3	2.0E-02	--		2.0E-04	1E-02	4.3E-05	2E-03	1.7E-05		4.0E-05			1.9E-04	9E-03	4.0E-05	2E-03	1.6E-05		3.7E-05		
	Potassium	7440097	1,640	1,410	1,080	1,377	--	--		3.3E-02		7.0E-03		2.8E-03		6.4E-03			2.8E-02		6.0E-03		2.4E-03		5.5E-03		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.50	0.48	0.50	0.49	5.0E-03	--		1.0E-05	2E-03	2.1E-06	4E-04	8.6E-07		2.0E-06			9.6E-06	2E-03	2.1E-06	4E-04	8.2E-07		1.9E-06		
	Sodium	7440235	75	58	49	61	--	--		1.5E-03		3.2E-04		1.3E-04		2.9E-04			1.2E-03		2.5E-04		9.9E-05		2.3E-04		
	Thallium	7440280	1.25	1.20	1.25	1.23	6.5E-05	--		2.5E-05	4E-01	5.4E-06	8E-02	2.1E-06		4.9E-06			2.4E-05	4E-01	5.1E-06	8E-02	2.1E-06		4.7E-06		
	Uranium	7440611	5.4	4.6	10.1	6.7	6.0E-04	--	(e)	1.1E-04	2E-01	2.3E-05	4E-02	9.3E-06		2.1E-05			9.2E-05	2E-01	2.0E-05	3E-02	7.9E-06		1.8E-05		
	Vanadium	7440622	19.5	17.2	14.0	16.9	7.0E-03	--		3.9E-04	6E-02	8.4E-05	1E-02	3.3E-05		7.6E-05			3.4E-04	5E-02	7.4E-05	1E-02	2.9E-05		6.7E-05		
	Zinc	7440666	39	44	37	40	3.0E-01	--		7.8E-04	3E-03	1.7E-04	6E-04	6.7E-05		1.5E-04			8.8E-04	3E-03	1.9E-04	6E-04	7.6E-05		1.7E-04		
								Total			**2E+00**		**5E-01**		**2E-05**		**3E-05**	**5E-05**		**2E+00**		**4E-01**		**2E-05**		**4E-05**	**5E-05**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Subsist_Traditional

Exposure Area: Keller Ferry No. 2

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	2.00E-05	4.29E-06
Cancer:	1.71E-06	3.92E-06

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	8,620	8,030	6,270	7,640	1.0E+00	--		1.3E-01	1E-01	2.7E-02	3E-02	1.1E-02		2.5E-02			1.5E-01	2E-01	3.3E-02	3E-02	1.3E-02		3.0E-02		
	Antimony	7440360	#N/A	#N/A	#N/A	#N/A	4.0E-04	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Arsenic	7440382	4.7	4.9	4.0	4.5	2.4E-04	1.9E+00	(j)	8.0E-05	3E-01	1.7E-05	7E-02	6.9E-06	1E-05	1.6E-05	3E-05	4E-05	9.1E-05	4E-01	1.9E-05	8E-02	7.8E-06	1E-05	1.8E-05	3E-05	5E-05
	Barium	7440393	69	59	46	58	2.0E-01	--		9.1E-04	5E-03	2.0E-04	1E-03	7.8E-05		1.8E-04			1.2E-03	6E-03	2.5E-04	1E-03	9.9E-05		2.3E-04		
	Beryllium	7440417	0.74	0.68	0.51	0.64	2.0E-03	--		1.0E-05	5E-03	2.2E-06	1E-03	8.7E-07		2.0E-06			1.3E-05	6E-03	2.8E-06	1E-03	1.1E-06		2.5E-06		
	Cadmium	7440439	0.25	0.24	0.25	0.25	1.0E-03	--	(a)	5.0E-06	5E-03	1.1E-06	1E-03	4.3E-07		9.8E-07			4.9E-06	5E-03	1.1E-06	1E-03	4.2E-07		9.7E-07		
	Calcium	7440702	1,940	1,760	3,880	2,527	--	--		7.8E-02		1.7E-02		6.7E-03		1.5E-02			5.1E-02		1.1E-02		4.3E-03		9.9E-03		
	Chromium	7440473	12.5	11.2	9.8	11.2	1.5E+00	--	(b)	2.0E-04	1E-04	4.2E-05	3E-05	1.7E-05		3.8E-05			2.2E-04	1E-04	4.8E-05	3E-05	1.9E-05		4.4E-05		
	Cobalt	7440484	5.4	5.0	3.9	4.8	3.0E-04	--		7.8E-05	3E-01	1.7E-05	6E-02	6.7E-06		1.5E-05			9.5E-05	3E-01	2.0E-05	7E-02	8.2E-06		1.9E-05		
	Copper	7440508	9	9	7	8	4.0E-02	--		1.3E-04	3E-03	2.9E-05	7E-04	1.1E-05		2.6E-05			1.6E-04	4E-03	3.5E-05	9E-04	1.4E-05		3.2E-05		
	Iron	7439896	15,600	15,500	13,100	14,733	7.0E-01	--		2.6E-01	4E-01	5.6E-02	8E-02	2.2E-02		5.1E-02			2.9E-01	4E-01	6.3E-02	9E-02	2.5E-02		5.8E-02		
	Lead	7439921	6	6	5	6			(c)																		
	Magnesium	7439954	4,210	4,390	4,330	4,310	--	--		8.7E-02		1.9E-02		7.4E-03		1.7E-02			8.6E-02		1.8E-02		7.4E-03		1.7E-02		
	Manganese	7439965	248	230	214	231	4.7E-02	--	(d)	4.3E-03	9E-02	9.2E-04	2E-02	3.7E-04		8.4E-04			4.6E-03	1E-01	9.9E-04	2E-02	4.0E-04		9.0E-04		
	Mercury	7439976	0.055	0.055	0.055	0.055	3.0E-04	--	(i)	1.1E-06	4E-03	2.4E-07	8E-04	9.4E-08		2.2E-07			1.1E-06	4E-03	2.4E-07	8E-04	9.4E-08		2.2E-07		
	Nickel	7440020	10.1	9.4	8.5	9.3	2.0E-02	--		1.7E-04	9E-03	3.6E-05	2E-03	1.5E-05		3.3E-05			1.9E-04	9E-03	4.0E-05	2E-03	1.6E-05		3.7E-05		
	Potassium	7440097	1,640	1,410	1,080	1,377	--	--		2.2E-02		4.6E-03		1.9E-03		4.2E-03			2.8E-02		5.9E-03		2.4E-03		5.4E-03		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.50	0.48	0.50	0.49	5.0E-03	--		1.0E-05	2E-03	2.1E-06	4E-04	8.6E-07		2.0E-06			9.9E-06	2E-03	2.1E-06	4E-04	8.5E-07		1.9E-06		
	Sodium	7440235	75	58	49	61	--	--		9.9E-04		2.1E-04		8.5E-05		1.9E-04			1.2E-03		2.6E-04		1.0E-04		2.4E-04		
	Thallium	7440280	1.25	1.20	1.25	1.23	6.5E-05	--		2.5E-05	4E-01	5.4E-06	8E-02	2.1E-06		4.9E-06			2.5E-05	4E-01	5.3E-06	8E-02	2.1E-06		4.8E-06		
	Uranium	7440611	5.4	4.6	10.1	6.7	6.0E-04	--	(e)	2.0E-04	3E-01	4.3E-05	7E-02	1.7E-05		4.0E-05			1.3E-04	2E-01	2.9E-05	5E-02	1.1E-05		2.6E-05		
	Vanadium	7440622	19.5	17.2	14.0	16.9	7.0E-03	--		2.8E-04	4E-02	6.0E-05	9E-03	2.4E-05		5.5E-05			3.4E-04	5E-02	7.2E-05	1E-02	2.9E-05		6.6E-05		
	Zinc	7440666	39	44	37	40	3.0E-01	--		8.8E-04	3E-03	1.9E-04	6E-04	7.6E-05		1.7E-04			8.0E-04	3E-03	1.7E-04	6E-04	6.9E-05		1.6E-04		
									Total		**2E+00**		**4E-01**		**1E-05**		**3E-05**	**4E-05**		**2E+00**		**4E-01**		**1E-05**		**3E-05**	**5E-05**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Subsist_Traditional

Exposure Area: Kettle Falls Swim Beach

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	2.00E-05	4.29E-06
Cancer:	1.71E-06	3.92E-06

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	10,277	5,137	4,900	6,771	1.0E+00	--		2.1E-01	2E-01	4.4E-02	4E-02	1.8E-02		4.0E-02			1.0E-01	1E-01	2.2E-02	2E-02	8.8E-03		2.0E-02		
	Antimony	7440360	0.7	1.5	1.2	1.1	4.0E-04	--		1.4E-05	3E-02	2.9E-06	7E-03	1.2E-06		2.7E-06			3.0E-05	7E-02	6.4E-06	2E-02	2.5E-06		5.8E-06		
	Arsenic	7440382	1.9	1.3	1.6	1.6	2.4E-04	1.9E+00	(j)	3.7E-05	2E-01	8.0E-06	3E-02	3.2E-06	6E-06	7.3E-06	1E-05	2E-05	2.5E-05	1E-01	5.4E-06	2E-02	2.2E-06	4E-06	5.0E-06	9E-06	1E-05
	Barium	7440393	104	40	43	62	2.0E-01	--		2.1E-03	1E-02	4.5E-04	2E-03	1.8E-04		4.1E-04			7.9E-04	4E-03	1.7E-04	9E-04	6.8E-05		1.6E-04		
	Beryllium	7440417	0.86	0.37	0.33	0.52	2.0E-03	--		1.7E-05	9E-03	3.7E-06	2E-03	1.5E-06		3.4E-06			7.4E-06	4E-03	1.6E-06	8E-04	6.3E-07		1.4E-06		
	Cadmium	7440439	0.26	0.16	0.15	0.19	1.0E-03	--	(a)	5.1E-06	5E-03	1.1E-06	1E-03	4.4E-07		1.0E-06			3.3E-06	3E-03	7.0E-07	7E-04	2.8E-07		6.4E-07		
	Calcium	7440702	8,840	2,470	2,023	4,444	--	--		1.8E-01		3.8E-02		1.5E-02		3.5E-02			4.9E-02		1.1E-02		4.2E-03		9.7E-03		
	Chromium	7440473	22.9	9.8	9.8	14.2	1.5E+00	--	(b)	4.6E-04	3E-04	9.8E-05	7E-05	3.9E-05		9.0E-05			2.0E-04	1E-04	4.2E-05	3E-05	1.7E-05		3.8E-05		
	Cobalt	7440484	8.0	3.6	3.4	5.0	3.0E-04	--		1.6E-04	5E-01	3.4E-05	1E-01	1.4E-05		3.1E-05			7.2E-05	2E-01	1.5E-05	5E-02	6.2E-06		1.4E-05		
	Copper	7440508	18	10	10	12	4.0E-02	--		3.5E-04	9E-03	7.5E-05	2E-03	3.0E-05		6.9E-05			1.9E-04	5E-03	4.1E-05	1E-03	1.6E-05		3.7E-05		
	Iron	7439896	17,433	9,647	9,530	12,203	7.0E-01	--		3.5E-01	5E-01	7.5E-02	1E-01	3.0E-02		6.8E-02			1.9E-01	3E-01	4.1E-02	6E-02	1.7E-02		3.8E-02		
	Lead	7439921	9	6	5	7			(c)																		
	Magnesium	7439954	6,343	2,883	2,887	4,038	--	--		1.3E-01		2.7E-02		1.1E-02		2.5E-02			5.8E-02		1.2E-02		4.9E-03		1.1E-02		
	Manganese	7439965	381	151	177	236	4.7E-02	--	(d)	7.6E-03	2E-01	1.6E-03	3E-02	6.5E-04		1.5E-03			3.0E-03	6E-02	6.5E-04	1E-02	2.6E-04		5.9E-04		
	Mercury	7439976	0.006	0.052	0.053	0.037	3.0E-04	--	(i)	1.2E-07	4E-04	2.5E-08	8E-05	1.0E-08		2.3E-08			1.0E-06	3E-03	2.2E-07	7E-04	8.9E-08		2.0E-07		
	Nickel	7440020	18.7	7.8	7.8	11.4	2.0E-02	--		3.7E-04	2E-02	8.0E-05	4E-03	3.2E-05		7.3E-05			1.6E-04	8E-03	3.3E-05	2E-03	1.3E-05		3.0E-05		
	Potassium	7440097	1,804	624	555	995	--	--		3.6E-02		7.7E-03		3.1E-03		7.1E-03			1.2E-02		2.7E-03		1.1E-03		2.4E-03		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.52	0.46	0.47	0.48	5.0E-03	--		1.0E-05	2E-03	2.2E-06	4E-04	8.8E-07		2.0E-06			9.1E-06	2E-03	2.0E-06	4E-04	7.8E-07		1.8E-06		
	Sodium	7440235	262	115	97	158	--	--		5.2E-03		1.1E-03		4.5E-04		1.0E-03			2.3E-03		4.9E-04		2.0E-04		4.5E-04		
	Thallium	7440280	1.30	1.13	1.17	1.20	6.5E-05	--		2.6E-05	4E-01	5.6E-06	9E-02	2.2E-06		5.1E-06			2.3E-05	3E-01	4.9E-06	7E-02	1.9E-06		4.4E-06		
	Uranium	7440611	10.4	9.0	9.3	9.6	6.0E-04	--	(e)	2.1E-04	3E-01	4.5E-05	7E-02	1.8E-05		4.1E-05			1.8E-04	3E-01	3.8E-05	6E-02	1.5E-05		3.5E-05		
	Vanadium	7440622	33.7	20.4	20.7	24.9	7.0E-03	--		6.7E-04	1E-01	1.4E-04	2E-02	5.8E-05		1.3E-04			4.1E-04	6E-02	8.7E-05	1E-02	3.5E-05		8.0E-05		
	Zinc	7440666	55	36	34	42	3.0E-01	--		1.1E-03	4E-03	2.4E-04	8E-04	9.5E-05		2.2E-04			7.2E-04	2E-03	1.6E-04	5E-04	6.2E-05		1.4E-04		
									Total		**2E+00**		**5E-01**		**6E-06**		**1E-05**	**2E-05**		**2E+00**		**3E-01**		**4E-06**		**9E-06**	**1E-05**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Subsist_Traditional

Exposure Area: Kettle Falls Swim Beach

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	2.00E-05	4.29E-06
Cancer:	1.71E-06	3.92E-06

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	10,277	5,137	4,900	6,771	1.0E+00	--		9.8E-02	1E-01	2.1E-02	2E-02	8.4E-03		1.9E-02			1.4E-01	1E-01	2.9E-02	3E-02	1.2E-02		2.7E-02		
	Antimony	7440360	0.7	1.5	1.2	1.1	4.0E-04	--		2.4E-05	6E-02	5.2E-06	1E-02	2.1E-06		4.7E-06			2.3E-05	6E-02	4.8E-06	1E-02	1.9E-06		4.4E-06		
	Arsenic	7440382	1.9	1.3	1.6	1.6	2.4E-04	1.9E+00	(j)	3.1E-05	1E-01	6.7E-06	3E-02	2.7E-06	5E-06	6.1E-06	1E-05	2E-05	3.1E-05	1E-01	6.7E-06	3E-02	2.7E-06	5E-06	6.1E-06	1E-05	2E-05
	Barium	7440393	104	40	43	62	2.0E-01	--		8.7E-04	4E-03	1.9E-04	9E-04	7.4E-05		1.7E-04			1.2E-03	6E-03	2.7E-04	1E-03	1.1E-04		2.4E-04		
	Beryllium	7440417	0.86	0.37	0.33	0.52	2.0E-03	--		6.6E-06	3E-03	1.4E-06	7E-04	5.7E-07		1.3E-06			1.0E-05	5E-03	2.2E-06	1E-03	8.9E-07		2.0E-06		
	Cadmium	7440439	0.26	0.16	0.15	0.19	1.0E-03	--	(a)	2.9E-06	3E-03	6.3E-07	6E-04	2.5E-07		5.7E-07			3.8E-06	4E-03	8.1E-07	8E-04	3.2E-07		7.4E-07		
	Calcium	7440702	8,840	2,470	2,023	4,444	--	--		4.0E-02		8.7E-03		3.5E-03		7.9E-03			8.9E-02		1.9E-02		7.6E-03		1.7E-02		
	Chromium	7440473	22.9	9.8	9.8	14.2	1.5E+00	--	(b)	2.0E-04	1E-04	4.2E-05	3E-05	1.7E-05		3.8E-05			2.8E-04	2E-04	6.1E-05	4E-05	2.4E-05		5.6E-05		
	Cobalt	7440484	8.0	3.6	3.4	5.0	3.0E-04	--		6.7E-05	2E-01	1.4E-05	5E-02	5.8E-06		1.3E-05			1.0E-04	3E-01	2.1E-05	7E-02	8.6E-06		2.0E-05		
	Copper	7440508	18	10	10	12	4.0E-02	--		2.0E-04	5E-03	4.3E-05	1E-03	1.7E-05		4.0E-05			2.5E-04	6E-03	5.3E-05	1E-03	2.1E-05		4.9E-05		
	Iron	7439896	17,433	9,647	9,530	12,203	7.0E-01	--		1.9E-01	3E-01	4.1E-02	6E-02	1.6E-02		3.7E-02			2.4E-01	3E-01	5.2E-02	7E-02	2.1E-02		4.8E-02		
	Lead	7439921	9	6	5	7			(c)																		
	Magnesium	7439954	6,343	2,883	2,887	4,038	--	--		5.8E-02		1.2E-02		4.9E-03		1.1E-02			8.1E-02		1.7E-02		6.9E-03		1.6E-02		
	Manganese	7439965	381	151	177	236	4.7E-02	--	(d)	3.5E-03	8E-02	7.6E-04	2E-02	3.0E-04		6.9E-04			4.7E-03	1E-01	1.0E-03	2E-02	4.0E-04		9.3E-04		
	Mercury	7439976	0.006	0.052	0.053	0.037	3.0E-04	--	(i)	1.1E-06	4E-03	2.3E-07	8E-04	9.1E-08		2.1E-07			7.4E-07	2E-03	1.6E-07	5E-04	6.3E-08		1.4E-07		
	Nickel	7440020	18.7	7.8	7.8	11.4	2.0E-02	--		1.6E-04	8E-03	3.3E-05	2E-03	1.3E-05		3.0E-05			2.3E-04	1E-02	4.9E-05	2E-03	2.0E-05		4.5E-05		
	Potassium	7440097	1,804	624	555	995	--	--		1.1E-02		2.4E-03		9.5E-04		2.2E-03			2.0E-02		4.3E-03		1.7E-03		3.9E-03		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.52	0.46	0.47	0.48	5.0E-03	--		9.3E-06	2E-03	2.0E-06	4E-04	8.0E-07		1.8E-06			9.6E-06	2E-03	2.1E-06	4E-04	8.2E-07		1.9E-06		
	Sodium	7440235	262	115	97	158	--	--		1.9E-03		4.1E-04		1.7E-04		3.8E-04			3.2E-03		6.8E-04		2.7E-04		6.2E-04		
	Thallium	7440280	1.30	1.13	1.17	1.20	6.5E-05	--		2.3E-05	4E-01	5.0E-06	8E-02	2.0E-06		4.6E-06			2.4E-05	4E-01	5.1E-06	8E-02	2.1E-06		4.7E-06		
	Uranium	7440611	10.4	9.0	9.3	9.6	6.0E-04	--	(e)	1.9E-04	3E-01	4.0E-05	7E-02	1.6E-05		3.7E-05			1.9E-04	3E-01	4.1E-05	7E-02	1.6E-05		3.8E-05		
	Vanadium	7440622	33.7	20.4	20.7	24.9	7.0E-03	--		4.1E-04	6E-02	8.9E-05	1E-02	3.6E-05		8.1E-05			5.0E-04	7E-02	1.1E-04	2E-02	4.3E-05		9.8E-05		
	Zinc	7440666	55	36	34	42	3.0E-01	--		7.2E-04	2E-03	1.6E-04	5E-04	6.2E-05		1.4E-04			8.4E-04	3E-03	1.8E-04	6E-04	7.2E-05		1.6E-04		
									Total		**2E+00**		**3E-01**		**5E-06**		**1E-05**	**2E-05**		**2E+00**		**4E-01**		**5E-06**		**1E-05**	**2E-05**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Subsist_Traditional

Exposure Area: Lincoln Mill Boat Ramp

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	2.00E-05	4.29E-06
Cancer:	1.71E-06	3.92E-06

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	5,070	6,900	7,160	6,377	1.0E+00	--		1.0E-01	1E-01	2.2E-02	2E-02	8.7E-03		2.0E-02			1.4E-01	1E-01	3.0E-02	3E-02	1.2E-02		2.7E-02		
	Antimony	7440360	#N/A	#N/A	#N/A	#N/A	4.0E-04	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Arsenic	7440382	5.9	6.7	5.9	6.2	2.4E-04	1.9E+00	(j)	1.2E-04	5E-01	2.5E-05	1E-01	1.0E-05	2E-05	2.3E-05	4E-05	6E-05	1.3E-04	6E-01	2.9E-05	1E-01	1.1E-05	2E-05	2.6E-05	5E-05	7E-05
	Barium	7440393	35	34	61	43	2.0E-01	--		7.0E-04	3E-03	1.5E-04	7E-04	6.0E-05		1.4E-04			6.7E-04	3E-03	1.4E-04	7E-04	5.8E-05		1.3E-04		
	Beryllium	7440417	0.32	0.43	0.47	0.41	2.0E-03	--		6.4E-06	3E-03	1.4E-06	7E-04	5.5E-07		1.3E-06			8.6E-06	4E-03	1.8E-06	9E-04	7.4E-07		1.7E-06		
	Cadmium	7440439	0.24	0.06	0.06	0.12	1.0E-03	--	(a)	4.7E-06	5E-03	1.0E-06	1E-03	4.0E-07		9.2E-07			1.2E-06	1E-03	2.5E-07	2E-04	9.9E-08		2.3E-07		
	Calcium	7440702	10,300	15,100	11,500	12,300	--	--		2.1E-01		4.4E-02		1.8E-02		4.0E-02			3.0E-01		6.5E-02		2.6E-02		5.9E-02		
	Chromium	7440473	6.2	9.1	9.6	8.3	1.5E+00	--	(b)	1.2E-04	8E-05	2.7E-05	2E-05	1.1E-05		2.4E-05			1.8E-04	1E-04	3.9E-05	3E-05	1.6E-05		3.6E-05		
	Cobalt	7440484	3.0	3.5	14.2	6.9	3.0E-04	--		6.0E-05	2E-01	1.3E-05	4E-02	5.1E-06		1.2E-05			7.0E-05	2E-01	1.5E-05	5E-02	6.0E-06		1.4E-05		
	Copper	7440508	7	10	12	10	4.0E-02	--		1.5E-04	4E-03	3.1E-05	8E-04	1.3E-05		2.9E-05			2.0E-04	5E-03	4.3E-05	1E-03	1.7E-05		3.9E-05		
	Iron	7439896	10,200	12,600	14,200	12,333	7.0E-01	--		2.0E-01	3E-01	4.4E-02	6E-02	1.7E-02		4.0E-02			2.5E-01	4E-01	5.4E-02	8E-02	2.2E-02		4.9E-02		
	Lead	7439921	4	5	6	5			(c)																		
	Magnesium	7439954	5,320	6,240	6,530	6,030	--	--		1.1E-01		2.3E-02		9.1E-03		2.1E-02			1.2E-01		2.7E-02		1.1E-02		2.4E-02		
	Manganese	7439965	217	224	334	258	4.7E-02	--	(d)	4.3E-03	9E-02	9.3E-04	2E-02	3.7E-04		8.5E-04			4.5E-03	1E-01	9.6E-04	2E-02	3.8E-04		8.8E-04		
	Mercury	7439976	0.049	0.055	0.050	0.051	3.0E-04	--	(i)	9.8E-07	3E-03	2.1E-07	7E-04	8.4E-08		1.9E-07			1.1E-06	4E-03	2.4E-07	8E-04	9.4E-08		2.2E-07		
	Nickel	7440020	6.1	7.8	8.5	7.5	2.0E-02	--		1.2E-04	6E-03	2.6E-05	1E-03	1.0E-05		2.4E-05			1.6E-04	8E-03	3.3E-05	2E-03	1.3E-05		3.1E-05		
	Potassium	7440097	1,140	1,410	1,350	1,300	--	--		2.3E-02		4.9E-03		2.0E-03		4.5E-03			2.8E-02		6.0E-03		2.4E-03		5.5E-03		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.47	0.49	0.47	0.47	5.0E-03	--		9.4E-06	2E-03	2.0E-06	4E-04	8.1E-07		1.8E-06			9.7E-06	2E-03	2.1E-06	4E-04	8.3E-07		1.9E-06		
	Sodium	7440235	57	97	98	84	--	--		1.1E-03		2.5E-04		9.8E-05		2.2E-04			1.9E-03		4.2E-04		1.7E-04		3.8E-04		
	Thallium	7440280	1.15	1.20	1.15	1.17	6.5E-05	--		2.3E-05	4E-01	4.9E-06	8E-02	2.0E-06		4.5E-06			2.4E-05	4E-01	5.1E-06	8E-02	2.1E-06		4.7E-06		
	Uranium	7440611	6.3	6.4	6.9	6.5	6.0E-04	--	(e)	1.3E-04	2E-01	2.7E-05	5E-02	1.1E-05		2.5E-05			1.3E-04	2E-01	2.7E-05	5E-02	1.1E-05		2.5E-05		
	Vanadium	7440622	8.4	10.8	13.4	10.9	7.0E-03	--		1.7E-04	2E-02	3.6E-05	5E-03	1.4E-05		3.3E-05			2.2E-04	3E-02	4.6E-05	7E-03	1.9E-05		4.2E-05		
	Zinc	7440666	27	30	36	31	3.0E-01	--		5.3E-04	2E-03	1.1E-04	4E-04	4.5E-05		1.0E-04			6.0E-04	2E-03	1.3E-04	4E-04	5.2E-05		1.2E-04		
									Total		2E+00		4E-01		2E-05		4E-05	6E-05		2E+00		4E-01		2E-05		5E-05	7E-05
										Total HQ or Risks > LOPC?: Yes									Total HQ or Risks > LOPC?: Yes								

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Subsist_Traditional

Exposure Area: Lincoln Mill Boat Ramp

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	2.00E-05	4.29E-06
Cancer:	1.71E-06	3.92E-06

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	5,070	6,900	7,160	6,377	1.0E+00	--		1.4E-01	1E-01	3.1E-02	3E-02	1.2E-02		2.8E-02			1.3E-01	1E-01	2.7E-02	3E-02	1.1E-02		2.5E-02		
	Antimony	7440360	#N/A	#N/A	#N/A	#N/A	4.0E-04	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Arsenic	7440382	5.9	6.7	5.9	6.2	2.4E-04	1.9E+00	(j)	1.2E-04	5E-01	2.5E-05	1E-01	1.0E-05	2E-05	2.3E-05	4E-05	6E-05	1.2E-04	5E-01	2.6E-05	1E-01	1.1E-05	2E-05	2.4E-05	5E-05	7E-05
	Barium	7440393	35	34	61	43	2.0E-01	--		1.2E-03	6E-03	2.6E-04	1E-03	1.0E-04		2.4E-04			8.6E-04	4E-03	1.9E-04	9E-04	7.4E-05		1.7E-04		
	Beryllium	7440417	0.32	0.43	0.47	0.41	2.0E-03	--		9.4E-06	5E-03	2.0E-06	1E-03	8.1E-07		1.8E-06			8.1E-06	4E-03	1.7E-06	9E-04	7.0E-07		1.6E-06		
	Cadmium	7440439	0.24	0.06	0.06	0.12	1.0E-03	--	(a)	1.3E-06	1E-03	2.7E-07	3E-04	1.1E-07		2.5E-07			2.4E-06	2E-03	5.1E-07	5E-04	2.0E-07		4.7E-07		
	Calcium	7440702	10,300	15,100	11,500	12,300	--	--		2.3E-01		4.9E-02		2.0E-02		4.5E-02			2.5E-01		5.3E-02		2.1E-02		4.8E-02		
	Chromium	7440473	6.2	9.1	9.6	8.3	1.5E+00	--	(b)	1.9E-04	1E-04	4.1E-05	3E-05	1.6E-05		3.8E-05			1.7E-04	1E-04	3.6E-05	2E-05	1.4E-05		3.3E-05		
	Cobalt	7440484	3.0	3.5	14.2	6.9	3.0E-04	--		2.8E-04	9E-01	6.1E-05	2E-01	2.4E-05		5.6E-05			1.4E-04	5E-01	3.0E-05	1E-01	1.2E-05		2.7E-05		
	Copper	7440508	7	10	12	10	4.0E-02	--		2.3E-04	6E-03	4.9E-05	1E-03	2.0E-05		4.5E-05			1.9E-04	5E-03	4.1E-05	1E-03	1.6E-05		3.8E-05		
	Iron	7439896	10,200	12,600	14,200	12,333	7.0E-01	--		2.8E-01	4E-01	6.1E-02	9E-02	2.4E-02		5.6E-02			2.5E-01	4E-01	5.3E-02	8E-02	2.1E-02		4.8E-02		
	Lead	7439921	4	5	6	5			(c)																		
	Magnesium	7439954	5,320	6,240	6,530	6,030	--	--		1.3E-01		2.8E-02		1.1E-02		2.6E-02			1.2E-01		2.6E-02		1.0E-02		2.4E-02		
	Manganese	7439965	217	224	334	258	4.7E-02	--	(d)	6.7E-03	1E-01	1.4E-03	3E-02	5.7E-04		1.3E-03			5.2E-03	1E-01	1.1E-03	2E-02	4.4E-04		1.0E-03		
	Mercury	7439976	0.049	0.055	0.050	0.051	3.0E-04	--	(i)	1.0E-06	3E-03	2.1E-07	7E-04	8.6E-08		2.0E-07			1.0E-06	3E-03	2.2E-07	7E-04	8.8E-08		2.0E-07		
	Nickel	7440020	6.1	7.8	8.5	7.5	2.0E-02	--		1.7E-04	9E-03	3.6E-05	2E-03	1.5E-05		3.3E-05			1.5E-04	7E-03	3.2E-05	2E-03	1.3E-05		2.9E-05		
	Potassium	7440097	1,140	1,410	1,350	1,300	--	--		2.7E-02		5.8E-03		2.3E-03		5.3E-03			2.6E-02		5.6E-03		2.2E-03		5.1E-03		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.47	0.49	0.47	0.47	5.0E-03	--		9.3E-06	2E-03	2.0E-06	4E-04	8.0E-07		1.8E-06			9.5E-06	2E-03	2.0E-06	4E-04	8.1E-07		1.9E-06		
	Sodium	7440235	57	97	98	84	--	--		2.0E-03		4.2E-04		1.7E-04		3.8E-04			1.7E-03		3.6E-04		1.4E-04		3.3E-04		
	Thallium	7440280	1.15	1.20	1.15	1.17	6.5E-05	--		2.3E-05	4E-01	4.9E-06	8E-02	2.0E-06		4.5E-06			2.3E-05	4E-01	5.0E-06	8E-02	2.0E-06		4.6E-06		
	Uranium	7440611	6.3	6.4	6.9	6.5	6.0E-04	--	(e)	1.4E-04	2E-01	3.0E-05	5E-02	1.2E-05		2.7E-05			1.3E-04	2E-01	2.8E-05	5E-02	1.1E-05		2.6E-05		
	Vanadium	7440622	8.4	10.8	13.4	10.9	7.0E-03	--		2.7E-04	4E-02	5.7E-05	8E-03	2.3E-05		5.3E-05			2.2E-04	3E-02	4.7E-05	7E-03	1.9E-05		4.3E-05		
	Zinc	7440666	27	30	36	31	3.0E-01	--		6.0E-04	2E-03	1.3E-04	4E-04	5.2E-05		1.2E-04			6.1E-04	2E-03	1.3E-04	4E-04	5.3E-05		1.2E-04		
									Total		**3E+00**		**6E-01**		**2E-05**		**4E-05**	**6E-05**		**2E+00**		**5E-01**		**2E-05**		**5E-05**	**7E-05**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:

(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Subsist_Traditional

Exposure Area: Marcus Island Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	2.00E-05	4.29E-06
Cancer:	1.71E-06	3.92E-06

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	8,600	9,890	7,310	8,600	1.0E+00	--		1.7E-01	2E-01	3.7E-02	4E-02	1.5E-02		3.4E-02			2.0E-01	2E-01	4.2E-02	4E-02	1.7E-02		3.9E-02		
	Antimony	7440360	4.1	2.0	3.1	3.1	4.0E-04	--		8.1E-05	2E-01	1.7E-05	4E-02	6.9E-06		1.6E-05			4.0E-05	1E-01	8.6E-06	2E-02	3.4E-06		7.8E-06		
	Arsenic	7440382	6.5	8.6	3.9	6.3	2.4E-04	1.9E+00	(j)	1.3E-04	5E-01	2.8E-05	1E-01	1.1E-05	2E-05	2.5E-05	5E-05	7E-05	1.7E-04	7E-01	3.7E-05	2E-01	1.5E-05	3E-05	3.4E-05	6E-05	9E-05
	Barium	7440393	258	264	101	208	2.0E-01	--		5.2E-03	3E-02	1.1E-03	6E-03	4.4E-04		1.0E-03			5.3E-03	3E-02	1.1E-03	6E-03	4.5E-04		1.0E-03		
	Beryllium	7440417	0.48	0.56	0.36	0.47	2.0E-03	--		9.6E-06	5E-03	2.1E-06	1E-03	8.2E-07		1.9E-06			1.1E-05	6E-03	2.4E-06	1E-03	9.6E-07		2.2E-06		
	Cadmium	7440439	7.30	5.60	1.60	4.83	1.0E-03	--	(a)	1.5E-04	1E-01	3.1E-05	3E-02	1.3E-05		2.9E-05			1.1E-04	1E-01	2.4E-05	2E-02	9.6E-06		2.2E-05		
	Calcium	7440702	7,520	6,920	7,110	7,183	--	--		1.5E-01		3.2E-02		1.3E-02		2.9E-02			1.4E-01		3.0E-02		1.2E-02		2.7E-02		
	Chromium	7440473	19.7	19.9	14.0	17.9	1.5E+00	--	(b)	3.9E-04	3E-04	8.4E-05	6E-05	3.4E-05		7.7E-05			4.0E-04	3E-04	8.5E-05	6E-05	3.4E-05		7.8E-05		
	Cobalt	7440484	6.8	7.1	5.2	6.4	3.0E-04	--		1.4E-04	5E-01	2.9E-05	1E-01	1.2E-05		2.7E-05			1.4E-04	5E-01	3.0E-05	1E-01	1.2E-05		2.8E-05		
	Copper	7440508	50	58	14	41	4.0E-02	--		1.0E-03	3E-02	2.2E-04	5E-03	8.6E-05		2.0E-04			1.2E-03	3E-02	2.5E-04	6E-03	9.9E-05		2.3E-04		
	Iron	7439896	17,600	23,400	12,700	17,900	7.0E-01	--		3.5E-01	5E-01	7.5E-02	1E-01	3.0E-02		6.9E-02			4.7E-01	7E-01	1.0E-01	1E-01	4.0E-02		9.2E-02		
	Lead	7439921	297	202	52	184			(c)																		
	Magnesium	7439954	6,070	5,390	4,220	5,227	--	--		1.2E-01		2.6E-02		1.0E-02		2.4E-02			1.1E-01		2.3E-02		9.2E-03		2.1E-02		
	Manganese	7439965	214	246	170	210	4.7E-02	--	(d)	4.3E-03	9E-02	9.2E-04	2E-02	3.7E-04		8.4E-04			4.9E-03	1E-01	1.1E-03	2E-02	4.2E-04		9.6E-04		
	Mercury	7439976	0.810	0.470	0.078	0.453	3.0E-04	--	(i)	1.6E-05	5E-02	3.5E-06	1E-02	1.4E-06		3.2E-06			9.4E-06	3E-02	2.0E-06	7E-03	8.1E-07		1.8E-06		
	Nickel	7440020	16.3	16.8	12.9	15.3	2.0E-02	--		3.3E-04	2E-02	7.0E-05	3E-03	2.8E-05		6.4E-05			3.4E-04	2E-02	7.2E-05	4E-03	2.9E-05		6.6E-05		
	Potassium	7440097	1,010	1,020	1,070	1,033	--	--		2.0E-02		4.3E-03		1.7E-03		4.0E-03			2.0E-02		4.4E-03		1.7E-03		4.0E-03		
	Selenium	7782492	2.30	4.30	1.80	2.80	5.0E-03	--		4.6E-05	9E-03	9.9E-06	2E-03	3.9E-06		9.0E-06			8.6E-05	2E-02	1.8E-05	4E-03	7.4E-06		1.7E-05		
	Silver	7440224	0.70	0.65	0.50	0.62	5.0E-03	--		1.4E-05	3E-03	3.0E-06	6E-04	1.2E-06		2.7E-06			1.3E-05	3E-03	2.8E-06	6E-04	1.1E-06		2.5E-06		
	Sodium	7440235	86	134	96	105	--	--		1.7E-03		3.7E-04		1.5E-04		3.4E-04			2.7E-03		5.7E-04		2.3E-04		5.3E-04		
	Thallium	7440280	1.70	1.60	1.30	1.53	6.5E-05	--		3.4E-05	5E-01	7.3E-06	1E-01	2.9E-06		6.7E-06			3.2E-05	5E-01	6.9E-06	1E-01	2.7E-06		6.3E-06		
	Uranium	7440611	13.6	6.7	7.5	9.3	6.0E-04	--	(e)	2.7E-04	5E-01	5.8E-05	1E-01	2.3E-05		5.3E-05			1.3E-04	2E-01	2.9E-05	5E-02	1.1E-05		2.6E-05		
	Vanadium	7440622	24.4	28.5	18.6	23.8	7.0E-03	--		4.9E-04	7E-02	1.0E-04	1E-02	4.2E-05		9.6E-05			5.7E-04	8E-02	1.2E-04	2E-02	4.9E-05		1.1E-04		
	Zinc	7440666	915	620	186	574	3.0E-01	--		1.8E-02	6E-02	3.9E-03	1E-02	1.6E-03		3.6E-03			1.2E-02	4E-02	2.7E-03	9E-03	1.1E-03		2.4E-03		
								Total			**3E+00**		**7E-01**		**2E-05**		**5E-05**	**7E-05**		**3E+00**		**7E-01**		**3E-05**		**6E-05**	**9E-05**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Subsist_Traditional

Exposure Area: Marcus Island Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	2.00E-05	4.29E-06
Cancer:	1.71E-06	3.92E-06

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	8,600	9,890	7,310	8,600	1.0E+00	--		1.5E-01	1E-01	3.1E-02	3E-02	1.3E-02		2.9E-02			1.7E-01	2E-01	3.7E-02	4E-02	1.5E-02		3.4E-02		
	Antimony	7440360	4.1	2.0	3.1	3.1	4.0E-04	--		6.2E-05	2E-01	1.3E-05	3E-02	5.3E-06		1.2E-05			6.1E-05	2E-01	1.3E-05	3E-02	5.2E-06		1.2E-05		
	Arsenic	7440382	6.5	8.6	3.9	6.3	2.4E-04	1.9E+00	(j)	7.8E-05	3E-01	1.7E-05	7E-02	6.7E-06	1E-05	1.5E-05	3E-05	4E-05	1.3E-04	5E-01	2.7E-05	1E-01	1.1E-05	2E-05	2.5E-05	5E-05	7E-05
	Barium	7440393	258	264	101	208	2.0E-01	--		2.0E-03	1E-02	4.3E-04	2E-03	1.7E-04		4.0E-04			4.2E-03	2E-02	8.9E-04	4E-03	3.6E-04		8.1E-04		
	Beryllium	7440417	0.48	0.56	0.36	0.47	2.0E-03	--		7.2E-06	4E-03	1.5E-06	8E-04	6.2E-07		1.4E-06			9.3E-06	5E-03	2.0E-06	1E-03	8.0E-07		1.8E-06		
	Cadmium	7440439	7.30	5.60	1.60	4.83	1.0E-03	--	(a)	3.2E-05	3E-02	6.9E-06	7E-03	2.7E-06		6.3E-06			9.7E-05	1E-01	2.1E-05	2E-02	8.3E-06		1.9E-05		
	Calcium	7440702	7,520	6,920	7,110	7,183	--	--		1.4E-01		3.0E-02		1.2E-02		2.8E-02			1.4E-01		3.1E-02		1.2E-02		2.8E-02		
	Chromium	7440473	19.7	19.9	14.0	17.9	1.5E+00	--	(b)	2.8E-04	2E-04	6.0E-05	4E-05	2.4E-05		5.5E-05			3.6E-04	2E-04	7.7E-05	5E-05	3.1E-05		7.0E-05		
	Cobalt	7440484	6.8	7.1	5.2	6.4	3.0E-04	--		1.0E-04	3E-01	2.2E-05	7E-02	8.9E-06		2.0E-05			1.3E-04	4E-01	2.7E-05	9E-02	1.1E-05		2.5E-05		
	Copper	7440508	50	58	14	41	4.0E-02	--		2.8E-04	7E-03	6.0E-05	2E-03	2.4E-05		5.5E-05			8.1E-04	2E-02	1.7E-04	4E-03	7.0E-05		1.6E-04		
	Iron	7439896	17,600	23,400	12,700	17,900	7.0E-01	--		2.5E-01	4E-01	5.4E-02	8E-02	2.2E-02		5.0E-02			3.6E-01	5E-01	7.7E-02	1E-01	3.1E-02		7.0E-02		
	Lead	7439921	297	202	52	184			(c)																		
	Magnesium	7439954	6,070	5,390	4,220	5,227	--	--		8.4E-02		1.8E-02		7.2E-03		1.7E-02			1.0E-01		2.2E-02		9.0E-03		2.0E-02		
	Manganese	7439965	214	246	170	210	4.7E-02	--	(d)	3.4E-03	7E-02	7.3E-04	2E-02	2.9E-04		6.7E-04			4.2E-03	9E-02	9.0E-04	2E-02	3.6E-04		8.2E-04		
	Mercury	7439976	0.810	0.470	0.078	0.453	3.0E-04	--	(i)	1.6E-06	5E-03	3.3E-07	1E-03	1.3E-07		3.1E-07			9.1E-06	3E-02	1.9E-06	6E-03	7.8E-07		1.8E-06		
	Nickel	7440020	16.3	16.8	12.9	15.3	2.0E-02	--		2.6E-04	1E-02	5.5E-05	3E-03	2.2E-05		5.1E-05			3.1E-04	2E-02	6.6E-05	3E-03	2.6E-05		6.0E-05		
	Potassium	7440097	1,010	1,020	1,070	1,033	--	--		2.1E-02		4.6E-03		1.8E-03		4.2E-03			2.1E-02		4.4E-03		1.8E-03		4.0E-03		
	Selenium	7782492	2.30	4.30	1.80	2.80	5.0E-03	--		3.6E-05	7E-03	7.7E-06	2E-03	3.1E-06		7.1E-06			5.6E-05	1E-02	1.2E-05	2E-03	4.8E-06		1.1E-05		
	Silver	7440224	0.70	0.65	0.50	0.62	5.0E-03	--		1.0E-05	2E-03	2.1E-06	4E-04	8.6E-07		2.0E-06			1.2E-05	2E-03	2.6E-06	5E-04	1.1E-06		2.4E-06		
	Sodium	7440235	86	134	96	105	--	--		1.9E-03		4.1E-04		1.6E-04		3.8E-04			2.1E-03		4.5E-04		1.8E-04		4.1E-04		
	Thallium	7440280	1.70	1.60	1.30	1.53	6.5E-05	--		2.6E-05	4E-01	5.6E-06	9E-02	2.2E-06		5.1E-06			3.1E-05	5E-01	6.6E-06	1E-01	2.6E-06		6.0E-06		
	Uranium	7440611	13.6	6.7	7.5	9.3	6.0E-04	--	(e)	1.5E-04	3E-01	3.2E-05	5E-02	1.3E-05		2.9E-05			1.9E-04	3E-01	4.0E-05	7E-02	1.6E-05		3.6E-05		
	Vanadium	7440622	24.4	28.5	18.6	23.8	7.0E-03	--		3.7E-04	5E-02	8.0E-05	1E-02	3.2E-05		7.3E-05			4.8E-04	7E-02	1.0E-04	1E-02	4.1E-05		9.3E-05		
	Zinc	7440666	915	620	186	574	3.0E-01	--		1.2E-02	4E-02	2.7E-03	9E-03	1.1E-03		2.4E-03			1.1E-02	4E-02	2.5E-03	8E-03	9.8E-04		2.2E-03		
									Total		**2E+00**		**5E-01**		**1E-05**		**3E-05**	**4E-05**		**3E+00**		**6E-01**		**2E-05**		**5E-05**	**7E-05**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:

(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Subsist_Traditional

Exposure Area: North Gorge Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	2.00E-05	4.29E-06
Cancer:	1.71E-06	3.92E-06

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	7,060	7,880	4,350	6,430	1.0E+00	--		1.4E-01	1E-01	3.0E-02	3E-02	1.2E-02		2.8E-02			1.6E-01	2E-01	3.4E-02	3E-02	1.4E-02		3.1E-02		
	Antimony	7440360	6.4	3.6	0.5	3.5	4.0E-04	--		1.3E-04	3E-01	2.7E-05	7E-02	1.1E-05		2.5E-05			7.2E-05	2E-01	1.5E-05	4E-02	6.2E-06		1.4E-05		
	Arsenic	7440382	10.7	9.6	5.0	8.4	2.4E-04	1.9E+00	(j)	2.1E-04	9E-01	4.6E-05	2E-01	1.8E-05	3E-05	4.2E-05	8E-05	1E-04	1.9E-04	8E-01	4.1E-05	2E-01	1.6E-05	3E-05	3.8E-05	7E-05	1E-04
	Barium	7440393	407	315	102	275	2.0E-01	--		8.1E-03	4E-02	1.7E-03	9E-03	7.0E-04		1.6E-03			6.3E-03	3E-02	1.4E-03	7E-03	5.4E-04		1.2E-03		
	Beryllium	7440417	0.48	0.53	0.28	0.43	2.0E-03	--		9.6E-06	5E-03	2.1E-06	1E-03	8.2E-07		1.9E-06			1.1E-05	5E-03	2.3E-06	1E-03	9.1E-07		2.1E-06		
	Cadmium	7440439	4.20	4.20	1.10	3.17	1.0E-03	--	(a)	8.4E-05	8E-02	1.8E-05	2E-02	7.2E-06		1.6E-05			8.4E-05	8E-02	1.8E-05	2E-02	7.2E-06		1.6E-05		
	Calcium	7440702	24,700	15,400	6,090	15,397	--	--		4.9E-01		1.1E-01		4.2E-02		9.7E-02			3.1E-01		6.6E-02		2.6E-02		6.0E-02		
	Chromium	7440473	24.9	22.8	15.1	20.9	1.5E+00	--	(b)	5.0E-04	3E-04	1.1E-04	7E-05	4.3E-05		9.8E-05			4.6E-04	3E-04	9.8E-05	7E-05	3.9E-05		8.9E-05		
	Cobalt	7440484	9.8	8.5	4.3	7.5	3.0E-04	--		2.0E-04	7E-01	4.2E-05	1E-01	1.7E-05		3.8E-05			1.7E-04	6E-01	3.6E-05	1E-01	1.5E-05		3.3E-05		
	Copper	7440508	216	132	23	124	4.0E-02	--		4.3E-03	1E-01	9.3E-04	2E-02	3.7E-04		8.5E-04			2.6E-03	7E-02	5.7E-04	1E-02	2.3E-04		5.2E-04		
	Iron	7439896	29,500	23,500	16,000	23,000	7.0E-01	--		5.9E-01	8E-01	1.3E-01	2E-01	5.1E-02		1.2E-01			4.7E-01	7E-01	1.0E-01	1E-01	4.0E-02		9.2E-02		
	Lead	7439921	216	223	69	169			(c)																		
	Magnesium	7439954	13,900	10,200	4,140	9,413	--	--		2.8E-01		6.0E-02		2.4E-02		5.4E-02			2.0E-01		4.4E-02		1.7E-02		4.0E-02		
	Manganese	7439965	434	270	171	292	4.7E-02	--	(d)	8.7E-03	2E-01	1.9E-03	4E-02	7.4E-04		1.7E-03			5.4E-03	1E-01	1.2E-03	2E-02	4.6E-04		1.1E-03		
	Mercury	7439976	0.370	0.400	0.068	0.279	3.0E-04	--	(i)	7.4E-06	2E-02	1.6E-06	5E-03	6.3E-07		1.4E-06			8.0E-06	3E-02	1.7E-06	6E-03	6.9E-07		1.6E-06		
	Nickel	7440020	15.3	17.2	9.6	14.0	2.0E-02	--		3.1E-04	2E-02	6.6E-05	3E-03	2.6E-05		6.0E-05			3.4E-04	2E-02	7.4E-05	4E-03	2.9E-05		6.7E-05		
	Potassium	7440097	1,190	1,220	624	1,011	--	--		2.4E-02		5.1E-03		2.0E-03		4.7E-03			2.4E-02		5.2E-03		2.1E-03		4.8E-03		
	Selenium	7782492	3.00	2.70	1.10	2.27	5.0E-03	--		6.0E-05	1E-02	1.3E-05	3E-03	5.1E-06		1.2E-05			5.4E-05	1E-02	1.2E-05	2E-03	4.6E-06		1.1E-05		
	Silver	7440224	0.60	0.70	0.50	0.60	5.0E-03	--		1.2E-05	2E-03	2.6E-06	5E-04	1.0E-06		2.4E-06			1.4E-05	3E-03	3.0E-06	6E-04	1.2E-06		2.7E-06		
	Sodium	7440235	170	134	89	131	--	--		3.4E-03		7.3E-04		2.9E-04		6.7E-04			2.7E-03		5.7E-04		2.3E-04		5.3E-04		
	Thallium	7440280	1.55	1.70	1.30	1.52	6.5E-05	--		3.1E-05	5E-01	6.6E-06	1E-01	2.7E-06		6.1E-06			3.4E-05	5E-01	7.3E-06	1E-01	2.9E-06		6.7E-06		
	Uranium	7440611	14.2	11.2	5.7	10.4	6.0E-04	--	(e)	2.8E-04	5E-01	6.1E-05	1E-01	2.4E-05		5.6E-05			2.2E-04	4E-01	4.8E-05	8E-02	1.9E-05		4.4E-05		
	Vanadium	7440622	26.9	27.4	27.9	27.4	7.0E-03	--		5.4E-04	8E-02	1.2E-04	2E-02	4.6E-05		1.1E-04			5.5E-04	8E-02	1.2E-04	2E-02	4.7E-05		1.1E-04		
	Zinc	7440666	1,700	1,060	352	1,037	3.0E-01	--		3.4E-02	1E-01	7.3E-03	2E-02	2.9E-03		6.7E-03			2.1E-02	7E-02	4.5E-03	2E-02	1.8E-03		4.2E-03		
									Total		**4E+00**		**1E+00**		**3E-05**		**8E-05**	**1E-04**		**4E+00**		**8E-01**		**3E-05**		**7E-05**	**1E-04**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Subsist_Traditional

Exposure Area: North Gorge Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	2.00E-05	4.29E-06
Cancer:	1.71E-06	3.92E-06

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	7,060	7,880	4,350	6,430	1.0E+00	--		8.7E-02	9E-02	1.9E-02	2E-02	7.5E-03		1.7E-02			1.3E-01	1E-01	2.8E-02	3E-02	1.1E-02		2.5E-02		
	Antimony	7440360	6.4	3.6	0.5	3.5	4.0E-04	--		9.4E-06	2E-02	2.0E-06	5E-03	8.1E-07		1.8E-06			7.0E-05	2E-01	1.5E-05	4E-02	6.0E-06		1.4E-05		
	Arsenic	7440382	10.7	9.6	5.0	8.4	2.4E-04	1.9E+00	(j)	1.0E-04	4E-01	2.1E-05	9E-02	8.6E-06	2E-05	2.0E-05	4E-05	5E-05	1.7E-04	7E-01	3.6E-05	2E-01	1.4E-05	3E-05	3.3E-05	6E-05	9E-05
	Barium	7440393	407	315	102	275	2.0E-01	--		2.0E-03	1E-02	4.4E-04	2E-03	1.7E-04		4.0E-04			5.5E-03	3E-02	1.2E-03	6E-03	4.7E-04		1.1E-03		
	Beryllium	7440417	0.48	0.53	0.28	0.43	2.0E-03	--		5.6E-06	3E-03	1.2E-06	6E-04	4.8E-07		1.1E-06			8.6E-06	4E-03	1.8E-06	9E-04	7.4E-07		1.7E-06		
	Cadmium	7440439	4.20	4.20	1.10	3.17	1.0E-03	--	(a)	2.2E-05	2E-02	4.7E-06	5E-03	1.9E-06		4.3E-06			6.3E-05	6E-02	1.4E-05	1E-02	5.4E-06		1.2E-05		
	Calcium	7440702	24,700	15,400	6,090	15,397	--	--		1.2E-01		2.6E-02		1.0E-02		2.4E-02			3.1E-01		6.6E-02		2.6E-02		6.0E-02		
	Chromium	7440473	24.9	22.8	15.1	20.9	1.5E+00	--	(b)	3.0E-04	2E-04	6.5E-05	4E-05	2.6E-05		5.9E-05			4.2E-04	3E-04	9.0E-05	6E-05	3.6E-05		8.2E-05		
	Cobalt	7440484	9.8	8.5	4.3	7.5	3.0E-04	--		8.6E-05	3E-01	1.8E-05	6E-02	7.4E-06		1.7E-05			1.5E-04	5E-01	3.2E-05	1E-01	1.3E-05		3.0E-05		
	Copper	7440508	216	132	23	124	4.0E-02	--		4.6E-04	1E-02	9.8E-05	2E-03	3.9E-05		9.0E-05			2.5E-03	6E-02	5.3E-04	1E-02	2.1E-04		4.8E-04		
	Iron	7439896	29,500	23,500	16,000	23,000	7.0E-01	--		3.2E-01	5E-01	6.9E-02	1E-01	2.7E-02		6.3E-02			4.6E-01	7E-01	9.9E-02	1E-01	3.9E-02		9.0E-02		
	Lead	7439921	216	223	69	169			(c)																		
	Magnesium	7439954	13,900	10,200	4,140	9,413	--	--		8.3E-02		1.8E-02		7.1E-03		1.6E-02			1.9E-01		4.0E-02		1.6E-02		3.7E-02		
	Manganese	7439965	434	270	171	292	4.7E-02	--	(d)	3.4E-03	7E-02	7.3E-04	2E-02	2.9E-04		6.7E-04			5.8E-03	1E-01	1.3E-03	3E-02	5.0E-04		1.1E-03		
	Mercury	7439976	0.370	0.400	0.068	0.279	3.0E-04	--	(i)	1.4E-06	5E-03	2.9E-07	1E-03	1.2E-07		2.7E-07			5.6E-06	2E-02	1.2E-06	4E-03	4.8E-07		1.1E-06		
	Nickel	7440020	15.3	17.2	9.6	14.0	2.0E-02	--		1.9E-04	1E-02	4.1E-05	2E-03	1.6E-05		3.8E-05			2.8E-04	1E-02	6.0E-05	3E-03	2.4E-05		5.5E-05		
	Potassium	7440097	1,190	1,220	624	1,011	--	--		1.2E-02		2.7E-03		1.1E-03		2.4E-03			2.0E-02		4.3E-03		1.7E-03		4.0E-03		
	Selenium	7782492	3.00	2.70	1.10	2.27	5.0E-03	--		2.2E-05	4E-03	4.7E-06	9E-04	1.9E-06		4.3E-06			4.5E-05	9E-03	9.7E-06	2E-03	3.9E-06		8.9E-06		
	Silver	7440224	0.60	0.70	0.50	0.60	5.0E-03	--		1.0E-05	2E-03	2.1E-06	4E-04	8.6E-07		2.0E-06			1.2E-05	2E-03	2.6E-06	5E-04	1.0E-06		2.4E-06		
	Sodium	7440235	170	134	89	131	--	--		1.8E-03		3.8E-04		1.5E-04		3.5E-04			2.6E-03		5.6E-04		2.2E-04		5.1E-04		
	Thallium	7440280	1.55	1.70	1.30	1.52	6.5E-05	--		2.6E-05	4E-01	5.6E-06	9E-02	2.2E-06		5.1E-06			3.0E-05	5E-01	6.5E-06	1E-01	2.6E-06		5.9E-06		
	Uranium	7440611	14.2	11.2	5.7	10.4	6.0E-04	--	(e)	1.1E-04	2E-01	2.4E-05	4E-02	9.8E-06		2.2E-05			2.1E-04	3E-01	4.4E-05	7E-02	1.8E-05		4.1E-05		
	Vanadium	7440622	26.9	27.4	27.9	27.4	7.0E-03	--		5.6E-04	8E-02	1.2E-04	2E-02	4.8E-05		1.1E-04			5.5E-04	8E-02	1.2E-04	2E-02	4.7E-05		1.1E-04		
	Zinc	7440666	1,700	1,060	352	1,037	3.0E-01	--		2.1E-02	7E-02	4.5E-03	2E-02	1.8E-03		4.2E-03			2.1E-02	7E-02	4.4E-03	1E-02	1.8E-03		4.1E-03		
									Total		**2E+00**		**5E-01**		**2E-05**		**4E-05**	**5E-05**		**3E+00**		**7E-01**		**3E-05**		**6E-05**	**9E-05**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Subsist_Traditional

Exposure Area: Northport Boat Launch

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	2.00E-05	4.29E-06
Cancer:	1.71E-06	3.92E-06

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	11,923	12,493	9,843	11,420	1.0E+00	--		2.4E-01	2E-01	5.1E-02	5E-02	2.0E-02		4.7E-02			2.5E-01	2E-01	5.4E-02	5E-02	2.1E-02		4.9E-02		
	Antimony	7440360	22.9	27.2	21.5	23.9	4.0E-04	--		4.6E-04	1E+00	9.8E-05	2E-01	3.9E-05		9.0E-05			5.4E-04	1E+00	1.2E-04	3E-01	4.7E-05		1.1E-04		
	Arsenic	7440382	17.3	14.3	10.7	14.1	2.4E-04	1.9E+00	(j)	3.5E-04	1E+00	7.4E-05	3E-01	3.0E-05	6E-05	6.8E-05	1E-04	2E-04	2.9E-04	1E+00	6.1E-05	3E-01	2.5E-05	5E-05	5.6E-05	1E-04	2E-04
	Barium	7440393	1,062	1,036	848	982	2.0E-01	--		2.1E-02	1E-01	4.6E-03	2E-02	1.8E-03		4.2E-03			2.1E-02	1E-01	4.4E-03	2E-02	1.8E-03		4.1E-03		
	Beryllium	7440417	0.94	0.94	0.82	0.90	2.0E-03	--		1.9E-05	9E-03	4.0E-06	2E-03	1.6E-06		3.7E-06			1.9E-05	9E-03	4.0E-06	2E-03	1.6E-06		3.7E-06		
	Cadmium	7440439	2.99	2.39	2.25	2.54	1.0E-03	--	(a)	6.0E-05	6E-02	1.3E-05	1E-02	5.1E-06		1.2E-05			4.8E-05	5E-02	1.0E-05	1E-02	4.1E-06		9.4E-06		
	Calcium	7440702	52,267	49,967	37,967	46,733	--	--		1.0E+00		2.2E-01		9.0E-02		2.0E-01			1.0E+00		2.1E-01		8.6E-02		2.0E-01		
	Chromium	7440473	68.4	66.2	50.7	61.8	1.5E+00	--	(b)	1.4E-03	9E-04	2.9E-04	2E-04	1.2E-04		2.7E-04			1.3E-03	9E-04	2.8E-04	2E-04	1.1E-04		2.6E-04		
	Cobalt	7440484	27.4	27.5	21.5	25.5	3.0E-04	--		5.5E-04	2E+00	1.2E-04	4E-01	4.7E-05		1.1E-04			5.5E-04	2E+00	1.2E-04	4E-01	4.7E-05		1.1E-04		
	Copper	7440508	1,382	1,182	833	1,132	4.0E-02	--		2.8E-02	7E-01	5.9E-03	1E-01	2.4E-03		5.4E-03			2.4E-02	6E-01	5.1E-03	1E-01	2.0E-03		4.6E-03		
	Iron	7439896	113,367	108,233	75,267	98,956	7.0E-01	--		2.3E+00	3E+00	4.9E-01	7E-01	1.9E-01		4.4E-01			2.2E+00	3E+00	4.6E-01	7E-01	1.9E-01		4.2E-01		
	Lead	7439921	309	256	186	250			(c)																		
	Magnesium	7439954	12,000	12,357	11,447	11,934	--	--		2.4E-01		5.1E-02		2.1E-02		4.7E-02			2.5E-01		5.3E-02		2.1E-02		4.8E-02		
	Manganese	7439965	2,138	2,004	1,446	1,862	4.7E-02	--	(d)	4.3E-02	9E-01	9.2E-03	2E-01	3.7E-03		8.4E-03			4.0E-02	9E-01	8.6E-03	2E-01	3.4E-03		7.9E-03		
	Mercury	7439976	0.102	0.099	0.075	0.092	3.0E-04	--	(i)	2.0E-06	7E-03	4.4E-07	1E-03	1.8E-07		4.0E-07			2.0E-06	7E-03	4.2E-07	1E-03	1.7E-07		3.9E-07		
	Nickel	7440020	13.3	13.0	12.8	13.1	2.0E-02	--		2.7E-04	1E-02	5.7E-05	3E-03	2.3E-05		5.2E-05			2.6E-04	1E-02	5.6E-05	3E-03	2.2E-05		5.1E-05		
	Potassium	7440097	2,410	2,403	1,943	2,252	--	--		4.8E-02		1.0E-02		4.1E-03		9.4E-03			4.8E-02		1.0E-02		4.1E-03		9.4E-03		
	Selenium	7782492	1.82	1.75	1.90	1.82	5.0E-03	--		3.6E-05	7E-03	7.8E-06	2E-03	3.1E-06		7.1E-06			3.5E-05	7E-03	7.5E-06	2E-03	3.0E-06		6.9E-06		
	Silver	7440224	0.53	0.51	0.53	0.52	5.0E-03	--		1.1E-05	2E-03	2.3E-06	5E-04	9.0E-07		2.1E-06			1.0E-05	2E-03	2.2E-06	4E-04	8.7E-07		2.0E-06		
	Sodium	7440235	1,130	1,147	767	1,015	--	--		2.3E-02		4.8E-03		1.9E-03		4.4E-03			2.3E-02		4.9E-03		2.0E-03		4.5E-03		
	Thallium	7440280	1.30	1.27	1.37	1.31	6.5E-05	--		2.6E-05	4E-01	5.6E-06	9E-02	2.2E-06		5.1E-06			2.5E-05	4E-01	5.4E-06	8E-02	2.2E-06		5.0E-06		
	Uranium	7440611	10.5	10.1	10.9	10.5	6.0E-04	--	(e)	2.1E-04	3E-01	4.5E-05	7E-02	1.8E-05		4.1E-05			2.0E-04	3E-01	4.3E-05	7E-02	1.7E-05		4.0E-05		
	Vanadium	7440622	28.4	31.2	27.9	29.1	7.0E-03	--		5.7E-04	8E-02	1.2E-04	2E-02	4.9E-05		1.1E-04			6.2E-04	9E-02	1.3E-04	2E-02	5.3E-05		1.2E-04		
	Zinc	7440666	9,623	8,543	5,947	8,038	3.0E-01	--		1.9E-01	6E-01	4.1E-02	1E-01	1.6E-02		3.8E-02			1.7E-01	6E-01	3.7E-02	1E-01	1.5E-02		3.3E-02		
									Total		**1E+01**		**2E+00**		**6E-05**		**1E-04**	**2E-04**		**1E+01**		**2E+00**		**5E-05**		**1E-04**	**2E-04**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Subsist_Traditional

Exposure Area: Northport Boat Launch

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	2.00E-05	4.29E-06
Cancer:	1.71E-06	3.92E-06

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	11,923	12,493	9,843	11,420	1.0E+00	--		2.0E-01	2E-01	4.2E-02	4E-02	1.7E-02		3.9E-02			2.3E-01	2E-01	4.9E-02	5E-02	2.0E-02		4.5E-02		
	Antimony	7440360	22.9	27.2	21.5	23.9	4.0E-04	--		4.3E-04	1E+00	9.2E-05	2E-01	3.7E-05		8.4E-05			4.8E-04	1E+00	1.0E-04	3E-01	4.1E-05		9.4E-05		
	Arsenic	7440382	17.3	14.3	10.7	14.1	2.4E-04	1.9E+00	(j)	2.1E-04	9E-01	4.6E-05	2E-01	1.8E-05	3E-05	4.2E-05	8E-05	1E-04	2.8E-04	1E+00	6.0E-05	3E-01	2.4E-05	5E-05	5.5E-05	1E-04	1E-04
	Barium	7440393	1,062	1,036	848	982	2.0E-01	--		1.7E-02	8E-02	3.6E-03	2E-02	1.5E-03		3.3E-03			2.0E-02	1E-01	4.2E-03	2E-02	1.7E-03		3.8E-03		
	Beryllium	7440417	0.94	0.94	0.82	0.90	2.0E-03	--		1.6E-05	8E-03	3.5E-06	2E-03	1.4E-06		3.2E-06			1.8E-05	9E-03	3.9E-06	2E-03	1.5E-06		3.5E-06		
	Cadmium	7440439	2.99	2.39	2.25	2.54	1.0E-03	--	(a)	4.5E-05	4E-02	9.6E-06	1E-02	3.9E-06		8.8E-06			5.1E-05	5E-02	1.1E-05	1E-02	4.4E-06		1.0E-05		
	Calcium	7440702	52,267	49,967	37,967	46,733	--	--		7.6E-01		1.6E-01		6.5E-02		1.5E-01			9.3E-01		2.0E-01		8.0E-02		1.8E-01		
	Chromium	7440473	68.4	66.2	50.7	61.8	1.5E+00	--	(b)	1.0E-03	7E-04	2.2E-04	1E-04	8.7E-05		2.0E-04			1.2E-03	8E-04	2.6E-04	2E-04	1.1E-04		2.4E-04		
	Cobalt	7440484	27.4	27.5	21.5	25.5	3.0E-04	--		4.3E-04	1E+00	9.2E-05	3E-01	3.7E-05		8.4E-05			5.1E-04	2E+00	1.1E-04	4E-01	4.4E-05		1.0E-04		
	Copper	7440508	1,382	1,182	833	1,132	4.0E-02	--		1.7E-02	4E-01	3.6E-03	9E-02	1.4E-03		3.3E-03			2.3E-02	6E-01	4.9E-03	1E-01	1.9E-03		4.4E-03		
	Iron	7439896	113,367	108,233	75,267	98,956	7.0E-01	--		1.5E+00	2E+00	3.2E-01	5E-01	1.3E-01		2.9E-01			2.0E+00	3E+00	4.2E-01	6E-01	1.7E-01		3.9E-01		
	Lead	7439921	309	256	186	250			(c)																		
	Magnesium	7439954	12,000	12,357	11,447	11,934	--	--		2.3E-01		4.9E-02		2.0E-02		4.5E-02			2.4E-01		5.1E-02		2.0E-02		4.7E-02		
	Manganese	7439965	2,138	2,004	1,446	1,862	4.7E-02	--	(d)	2.9E-02	6E-01	6.2E-03	1E-01	2.5E-03		5.7E-03			3.7E-02	8E-01	8.0E-03	2E-01	3.2E-03		7.3E-03		
	Mercury	7439976	0.102	0.099	0.075	0.092	3.0E-04	--	(i)	1.5E-06	5E-03	3.2E-07	1E-03	1.3E-07		2.9E-07			1.8E-06	6E-03	3.9E-07	1E-03	1.6E-07		3.6E-07		
	Nickel	7440020	13.3	13.0	12.8	13.1	2.0E-02	--		2.6E-04	1E-02	5.5E-05	3E-03	2.2E-05		5.0E-05			2.6E-04	1E-02	5.6E-05	3E-03	2.2E-05		5.1E-05		
	Potassium	7440097	2,410	2,403	1,943	2,252	--	--		3.9E-02		8.3E-03		3.3E-03		7.6E-03			4.5E-02		9.7E-03		3.9E-03		8.8E-03		
	Selenium	7782492	1.82	1.75	1.90	1.82	5.0E-03	--		3.8E-05	8E-03	8.1E-06	2E-03	3.3E-06		7.4E-06			3.6E-05	7E-03	7.8E-06	2E-03	3.1E-06		7.1E-06		
	Silver	7440224	0.53	0.51	0.53	0.52	5.0E-03	--		1.1E-05	2E-03	2.3E-06	5E-04	9.1E-07		2.1E-06			1.0E-05	2E-03	2.2E-06	4E-04	9.0E-07		2.0E-06		
	Sodium	7440235	1,130	1,147	767	1,015	--	--		1.5E-02		3.3E-03		1.3E-03		3.0E-03			2.0E-02		4.3E-03		1.7E-03		4.0E-03		
	Thallium	7440280	1.30	1.27	1.37	1.31	6.5E-05	--		2.7E-05	4E-01	5.9E-06	9E-02	2.3E-06		5.4E-06			2.6E-05	4E-01	5.6E-06	9E-02	2.2E-06		5.1E-06		
	Uranium	7440611	10.5	10.1	10.9	10.5	6.0E-04	--	(e)	2.2E-04	4E-01	4.7E-05	8E-02	1.9E-05		4.3E-05			2.1E-04	3E-01	4.5E-05	7E-02	1.8E-05		4.1E-05		
	Vanadium	7440622	28.4	31.2	27.9	29.1	7.0E-03	--		5.6E-04	8E-02	1.2E-04	2E-02	4.8E-05		1.1E-04			5.8E-04	8E-02	1.2E-04	2E-02	5.0E-05		1.1E-04		
	Zinc	7440666	9,623	8,543	5,947	8,038	3.0E-01	--		1.7E-01	6E-01	3.7E-02	1E-01	1.5E-02		3.3E-02			1.6E-01	5E-01	3.4E-02	1E-01	1.4E-02		3.1E-02		
									Total		**8E+00**		**2E+00**		**3E-05**		**8E-05**	**1E-04**		**1E+01**		**2E+00**		**5E-05**		**1E-04**	**1E-04**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Subsist_Traditional

Exposure Area: Rogers Bar Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	2.00E-05	4.29E-06
Cancer:	1.71E-06	3.92E-06

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	2,760	5,810	4,810	4,460	1.0E+00	--		5.5E-02	6E-02	1.2E-02	1E-02	4.7E-03		1.1E-02			1.2E-01	1E-01	2.5E-02	2E-02	1.0E-02		2.3E-02		
	Antimony	7440360	#N/A	#N/A	#N/A	#N/A	4.0E-04	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Arsenic	7440382	0.5	1.9	2.2	1.5	2.4E-04	1.9E+00	(j)	9.7E-06	4E-02	2.1E-06	9E-03	8.3E-07	2E-06	1.9E-06	4E-06	5E-06	3.8E-05	2E-01	8.1E-06	3E-02	3.3E-06	6E-06	7.4E-06	1E-05	2E-05
	Barium	7440393	21	53	38	37	2.0E-01	--		4.1E-04	2E-03	8.8E-05	4E-04	3.5E-05		8.1E-05			1.1E-03	5E-03	2.3E-04	1E-03	9.1E-05		2.1E-04		
	Beryllium	7440417	0.21	0.44	0.37	0.34	2.0E-03	--		4.2E-06	2E-03	9.0E-07	5E-04	3.6E-07		8.2E-07			8.8E-06	4E-03	1.9E-06	9E-04	7.5E-07		1.7E-06		
	Cadmium	7440439	0.06	0.11	0.22	0.13	1.0E-03	--	(a)	1.1E-06	1E-03	2.4E-07	2E-04	9.6E-08		2.2E-07			2.2E-06	2E-03	4.7E-07	5E-04	1.9E-07		4.3E-07		
	Calcium	7440702	1,670	1,700	1,580	1,650	--	--		3.3E-02		7.2E-03		2.9E-03		6.5E-03			3.4E-02		7.3E-03		2.9E-03		6.7E-03		
	Chromium	7440473	5.7	13.2	9.6	9.5	1.5E+00	--	(b)	1.1E-04	8E-05	2.4E-05	2E-05	9.8E-06		2.2E-05			2.6E-04	2E-04	5.7E-05	4E-05	2.3E-05		5.2E-05		
	Cobalt	7440484	2.1	4.1	3.7	3.3	3.0E-04	--		4.2E-05	1E-01	9.0E-06	3E-02	3.6E-06		8.2E-06			8.2E-05	3E-01	1.8E-05	6E-02	7.0E-06		1.6E-05		
	Copper	7440508	5	9	7	7	4.0E-02	--		9.8E-05	2E-03	2.1E-05	5E-04	8.4E-06		1.9E-05			1.8E-04	5E-03	3.9E-05	1E-03	1.5E-05		3.5E-05		
	Iron	7439896	4,930	9,800	9,720	8,150	7.0E-01	--		9.9E-02	1E-01	2.1E-02	3E-02	8.5E-03		1.9E-02			2.0E-01	3E-01	4.2E-02	6E-02	1.7E-02		3.8E-02		
	Lead	7439921	3	5	5	5			(c)																		
	Magnesium	7439954	1,540	2,590	2,390	2,173	--	--		3.1E-02		6.6E-03		2.6E-03		6.0E-03			5.2E-02		1.1E-02		4.4E-03		1.0E-02		
	Manganese	7439965	95	157	134	129	4.7E-02	--	(d)	1.9E-03	4E-02	4.1E-04	9E-03	1.6E-04		3.7E-04			3.1E-03	7E-02	6.7E-04	1E-02	2.7E-04		6.2E-04		
	Mercury	7439976	0.050	0.055	0.050	0.052	3.0E-04	--	(i)	1.0E-06	3E-03	2.1E-07	7E-04	8.6E-08		2.0E-07			1.1E-06	4E-03	2.4E-07	8E-04	9.4E-08		2.2E-07		
	Nickel	7440020	5.1	10.2	9.0	8.1	2.0E-02	--		1.0E-04	5E-03	2.2E-05	1E-03	8.7E-06		2.0E-05			2.0E-04	1E-02	4.4E-05	2E-03	1.7E-05		4.0E-05		
	Potassium	7440097	317	719	519	518	--	--		6.3E-03		1.4E-03		5.4E-04		1.2E-03			1.4E-02		3.1E-03		1.2E-03		2.8E-03		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.49	0.55	0.50	0.51	5.0E-03	--		9.7E-06	2E-03	2.1E-06	4E-04	8.3E-07		1.9E-06			1.1E-05	2E-03	2.4E-06	5E-04	9.4E-07		2.2E-06		
	Sodium	7440235	58	98	88	81	--	--		1.2E-03		2.5E-04		1.0E-04		2.3E-04			2.0E-03		4.2E-04		1.7E-04		3.8E-04		
	Thallium	7440280	1.20	1.35	1.25	1.27	6.5E-05	--		2.4E-05	4E-01	5.1E-06	8E-02	2.1E-06		4.7E-06			2.7E-05	4E-01	5.8E-06	9E-02	2.3E-06		5.3E-06		
	Uranium	7440611	9.7	9.8	10.1	9.9	6.0E-04	--	(e)	1.9E-04	3E-01	4.2E-05	7E-02	1.7E-05		3.8E-05			2.0E-04	3E-01	4.2E-05	7E-02	1.7E-05		3.8E-05		
	Vanadium	7440622	8.7	16.2	16.7	13.9	7.0E-03	--		1.7E-04	2E-02	3.7E-05	5E-03	1.5E-05		3.4E-05			3.2E-04	5E-02	6.9E-05	1E-02	2.8E-05		6.3E-05		
	Zinc	7440666	21	33	47	34	3.0E-01	--		4.3E-04	1E-03	9.1E-05	3E-04	3.7E-05		8.3E-05			6.6E-04	2E-03	1.4E-04	5E-04	5.7E-05		1.3E-04		
									Total		**1E+00**		**2E-01**		**2E-06**		**4E-06**	**5E-06**		**2E+00**		**4E-01**		**6E-06**		**1E-05**	**2E-05**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Subsist_Traditional

Exposure Area: Rogers Bar Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	2.00E-05	4.29E-06
Cancer:	1.71E-06	3.92E-06

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	2,760	5,810	4,810	4,460	1.0E+00	--		9.6E-02	1E-01	2.1E-02	2E-02	8.2E-03		1.9E-02			8.9E-02	9E-02	1.9E-02	2E-02	7.6E-03		1.7E-02		
	Antimony	7440360	#N/A	#N/A	#N/A	#N/A	4.0E-04	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Arsenic	7440382	0.5	1.9	2.2	1.5	2.4E-04	1.9E+00	(j)	4.4E-05	2E-01	9.4E-06	4E-02	3.8E-06	7E-06	8.6E-06	2E-05	2E-05	3.1E-05	1E-01	6.6E-06	3E-02	2.6E-06	5E-06	6.0E-06	1E-05	2E-05
	Barium	7440393	21	53	38	37	2.0E-01	--		7.5E-04	4E-03	1.6E-04	8E-04	6.5E-05		1.5E-04			7.4E-04	4E-03	1.6E-04	8E-04	6.4E-05		1.5E-04		
	Beryllium	7440417	0.21	0.44	0.37	0.34	2.0E-03	--		7.4E-06	4E-03	1.6E-06	8E-04	6.3E-07		1.4E-06			6.8E-06	3E-03	1.5E-06	7E-04	5.8E-07		1.3E-06		
	Cadmium	7440439	0.06	0.11	0.22	0.13	1.0E-03	--	(a)	4.4E-06	4E-03	9.4E-07	9E-04	3.8E-07		8.6E-07			2.6E-06	3E-03	5.5E-07	6E-04	2.2E-07		5.0E-07		
	Calcium	7440702	1,670	1,700	1,580	1,650	--	--		3.2E-02		6.8E-03		2.7E-03		6.2E-03			3.3E-02		7.1E-03		2.8E-03		6.5E-03		
	Chromium	7440473	5.7	13.2	9.6	9.5	1.5E+00	--	(b)	1.9E-04	1E-04	4.1E-05	3E-05	1.6E-05		3.8E-05			1.9E-04	1E-04	4.1E-05	3E-05	1.6E-05		3.7E-05		
	Cobalt	7440484	2.1	4.1	3.7	3.3	3.0E-04	--		7.4E-05	2E-01	1.6E-05	5E-02	6.3E-06		1.4E-05			6.6E-05	2E-01	1.4E-05	5E-02	5.7E-06		1.3E-05		
	Copper	7440508	5	9	7	7	4.0E-02	--		1.5E-04	4E-03	3.2E-05	8E-04	1.3E-05		2.9E-05			1.4E-04	4E-03	3.0E-05	8E-04	1.2E-05		2.8E-05		
	Iron	7439896	4,930	9,800	9,720	8,150	7.0E-01	--		1.9E-01	3E-01	4.2E-02	6E-02	1.7E-02		3.8E-02			1.6E-01	2E-01	3.5E-02	5E-02	1.4E-02		3.2E-02		
	Lead	7439921	3	5	5	5			(c)																		
	Magnesium	7439954	1,540	2,590	2,390	2,173	--	--		4.8E-02		1.0E-02		4.1E-03		9.4E-03			4.3E-02		9.3E-03		3.7E-03		8.5E-03		
	Manganese	7439965	95	157	134	129	4.7E-02	--	(d)	2.7E-03	6E-02	5.7E-04	1E-02	2.3E-04		5.3E-04			2.6E-03	6E-02	5.5E-04	1E-02	2.2E-04		5.0E-04		
	Mercury	7439976	0.050	0.055	0.050	0.052	3.0E-04	--	(i)	1.0E-06	3E-03	2.1E-07	7E-04	8.6E-08		2.0E-07			1.0E-06	3E-03	2.2E-07	7E-04	8.9E-08		2.0E-07		
	Nickel	7440020	5.1	10.2	9.0	8.1	2.0E-02	--		1.8E-04	9E-03	3.9E-05	2E-03	1.5E-05		3.5E-05			1.6E-04	8E-03	3.5E-05	2E-03	1.4E-05		3.2E-05		
	Potassium	7440097	317	719	519	518	--	--		1.0E-02		2.2E-03		8.9E-04		2.0E-03			1.0E-02		2.2E-03		8.9E-04		2.0E-03		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.49	0.55	0.50	0.51	5.0E-03	--		1.0E-05	2E-03	2.1E-06	4E-04	8.6E-07		2.0E-06			1.0E-05	2E-03	2.2E-06	4E-04	8.8E-07		2.0E-06		
	Sodium	7440235	58	98	88	81	--	--		1.8E-03		3.8E-04		1.5E-04		3.4E-04			1.6E-03		3.5E-04		1.4E-04		3.2E-04		
	Thallium	7440280	1.20	1.35	1.25	1.27	6.5E-05	--		2.5E-05	4E-01	5.4E-06	8E-02	2.1E-06		4.9E-06			2.5E-05	4E-01	5.4E-06	8E-02	2.2E-06		5.0E-06		
	Uranium	7440611	9.7	9.8	10.1	9.9	6.0E-04	--	(e)	2.0E-04	3E-01	4.3E-05	7E-02	1.7E-05		4.0E-05			2.0E-04	3E-01	4.2E-05	7E-02	1.7E-05		3.9E-05		
	Vanadium	7440622	8.7	16.2	16.7	13.9	7.0E-03	--		3.3E-04	5E-02	7.2E-05	1E-02	2.9E-05		6.5E-05			2.8E-04	4E-02	5.9E-05	8E-03	2.4E-05		5.4E-05		
	Zinc	7440666	21	33	47	34	3.0E-01	--		6.6E-04	2E-03	1.4E-04	5E-04	5.7E-05		1.3E-04			6.8E-04	2E-03	1.5E-04	5E-04	5.8E-05		1.3E-04		
									Total		**2E+00**		**4E-01**		**7E-06**		**2E-05**	**2E-05**		**2E+00**		**3E-01**		**5E-06**		**1E-05**	**2E-05**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Subsist_Traditional

Exposure Area: Spring Canyon Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	2.00E-05	4.29E-06
Cancer:	1.71E-06	3.92E-06

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	8,310	7,800	7,150	7,753	1.0E+00	--		1.7E-01	2E-01	3.6E-02	4E-02	1.4E-02		3.3E-02			1.6E-01	2E-01	3.3E-02	3E-02	1.3E-02		3.1E-02		
	Antimony	7440360	0.8	1.1	1.0	1.0	4.0E-04	--		1.6E-05	4E-02	3.4E-06	8E-03	1.4E-06		3.1E-06			2.2E-05	6E-02	4.7E-06	1E-02	1.9E-06		4.3E-06		
	Arsenic	7440382	10.3	7.5	8.5	8.8	2.4E-04	1.9E+00	(j)	2.1E-04	9E-01	4.4E-05	2E-01	1.8E-05	3E-05	4.0E-05	8E-05	1E-04	1.5E-04	6E-01	3.2E-05	1E-01	1.3E-05	2E-05	2.9E-05	6E-05	8E-05
	Barium	7440393	51	52	41	48	2.0E-01	--		1.0E-03	5E-03	2.2E-04	1E-03	8.7E-05		2.0E-04			1.0E-03	5E-03	2.2E-04	1E-03	8.8E-05		2.0E-04		
	Beryllium	7440417	0.64	0.60	0.53	0.59	2.0E-03	--		1.3E-05	6E-03	2.7E-06	1E-03	1.1E-06		2.5E-06			1.2E-05	6E-03	2.6E-06	1E-03	1.0E-06		2.4E-06		
	Cadmium	7440439	0.26	0.26	0.26	0.26	1.0E-03	--	(a)	5.2E-06	5E-03	1.1E-06	1E-03	4.5E-07		1.0E-06			5.1E-06	5E-03	1.1E-06	1E-03	4.4E-07		1.0E-06		
	Calcium	7440702	1,960	1,810	5,990	3,253	--	--		3.9E-02		8.4E-03		3.4E-03		7.7E-03			3.6E-02		7.8E-03		3.1E-03		7.1E-03		
	Chromium	7440473	9.6	9.7	9.0	9.4	1.5E+00	--	(b)	1.9E-04	1E-04	4.1E-05	3E-05	1.6E-05		3.8E-05			1.9E-04	1E-04	4.2E-05	3E-05	1.7E-05		3.8E-05		
	Cobalt	7440484	4.4	4.1	3.7	4.1	3.0E-04	--		8.8E-05	3E-01	1.9E-05	6E-02	7.5E-06		1.7E-05			8.2E-05	3E-01	1.8E-05	6E-02	7.0E-06		1.6E-05		
	Copper	7440508	7	6	7	6	4.0E-02	--		1.4E-04	4E-03	3.0E-05	8E-04	1.2E-05		2.8E-05			1.1E-04	3E-03	2.4E-05	6E-04	9.4E-06		2.2E-05		
	Iron	7439896	15,400	14,900	14,300	14,867	7.0E-01	--		3.1E-01	4E-01	6.6E-02	9E-02	2.6E-02		6.0E-02			3.0E-01	4E-01	6.4E-02	9E-02	2.6E-02		5.8E-02		
	Lead	7439921	7	7	6	7			(c)																		
	Magnesium	7439954	5,880	5,590	5,360	5,610	--	--		1.2E-01		2.5E-02		1.0E-02		2.3E-02			1.1E-01		2.4E-02		9.6E-03		2.2E-02		
	Manganese	7439965	227	208	226	220	4.7E-02	--	(d)	4.5E-03	1E-01	9.7E-04	2E-02	3.9E-04		8.9E-04			4.2E-03	9E-02	8.9E-04	2E-02	3.6E-04		8.2E-04		
	Mercury	7439976	0.055	0.055	0.050	0.053	3.0E-04	--	(i)	1.1E-06	4E-03	2.4E-07	8E-04	9.4E-08		2.2E-07			1.1E-06	4E-03	2.4E-07	8E-04	9.4E-08		2.2E-07		
	Nickel	7440020	8.2	7.5	7.5	7.7	2.0E-02	--		1.6E-04	8E-03	3.5E-05	2E-03	1.4E-05		3.2E-05			1.5E-04	8E-03	3.2E-05	2E-03	1.3E-05		2.9E-05		
	Potassium	7440097	1,610	1,470	1,230	1,437	--	--		3.2E-02		6.9E-03		2.8E-03		6.3E-03			2.9E-02		6.3E-03		2.5E-03		5.8E-03		
	Selenium	7782492	1.80	1.80	1.80	1.80	5.0E-03	--		3.6E-05	7E-03	7.7E-06	2E-03	3.1E-06		7.1E-06			3.6E-05	7E-03	7.7E-06	2E-03	3.1E-06		7.1E-06		
	Silver	7440224	0.50	0.50	0.50	0.50	5.0E-03	--		1.0E-05	2E-03	2.1E-06	4E-04	8.6E-07		2.0E-06			1.0E-05	2E-03	2.1E-06	4E-04	8.6E-07		2.0E-06		
	Sodium	7440235	66	54	74	64	--	--		1.3E-03		2.8E-04		1.1E-04		2.6E-04			1.1E-03		2.3E-04		9.2E-05		2.1E-04		
	Thallium	7440280	1.30	1.30	1.30	1.30	6.5E-05	--		2.6E-05	4E-01	5.6E-06	9E-02	2.2E-06		5.1E-06			2.6E-05	4E-01	5.6E-06	9E-02	2.2E-06		5.1E-06		
	Uranium	7440611	10.4	5.2	10.3	8.6	6.0E-04	--	(e)	2.1E-04	3E-01	4.5E-05	7E-02	1.8E-05		4.1E-05			1.0E-04	2E-01	2.2E-05	4E-02	8.9E-06		2.0E-05		
	Vanadium	7440622	14.8	14.0	13.9	14.2	7.0E-03	--		3.0E-04	4E-02	6.3E-05	9E-03	2.5E-05		5.8E-05			2.8E-04	4E-02	6.0E-05	9E-03	2.4E-05		5.5E-05		
	Zinc	7440666	48	55	40	47	3.0E-01	--		9.6E-04	3E-03	2.1E-04	7E-04	8.2E-05		1.9E-04			1.1E-03	4E-03	2.3E-04	8E-04	9.4E-05		2.1E-04		
								Total			**3E+00**		**6E-01**		**3E-05**		**8E-05**	**1E-04**		**2E+00**		**5E-01**		**2E-05**		**6E-05**	**8E-05**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Subsist_Traditional

Exposure Area: Spring Canyon Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	2.00E-05	4.29E-06
Cancer:	1.71E-06	3.92E-06

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	8,310	7,800	7,150	7,753	1.0E+00	--		1.4E-01	1E-01	3.1E-02	3E-02	1.2E-02		2.8E-02			1.6E-01	2E-01	3.3E-02	3E-02	1.3E-02		3.0E-02		
	Antimony	7440360	0.8	1.1	1.0	1.0	4.0E-04	--		2.0E-05	5E-02	4.3E-06	1E-02	1.7E-06		3.9E-06			1.9E-05	5E-02	4.1E-06	1E-02	1.7E-06		3.8E-06		
	Arsenic	7440382	10.3	7.5	8.5	8.8	2.4E-04	1.9E+00	(j)	1.7E-04	7E-01	3.6E-05	2E-01	1.5E-05	3E-05	3.3E-05	6E-05	9E-05	1.8E-04	7E-01	3.8E-05	2E-01	1.5E-05	3E-05	3.4E-05	6E-05	9E-05
	Barium	7440393	51	52	41	48	2.0E-01	--		8.2E-04	4E-03	1.8E-04	9E-04	7.0E-05		1.6E-04			9.6E-04	5E-03	2.1E-04	1E-03	8.2E-05		1.9E-04		
	Beryllium	7440417	0.64	0.60	0.53	0.59	2.0E-03	--		1.1E-05	5E-03	2.3E-06	1E-03	9.1E-07		2.1E-06			1.2E-05	6E-03	2.5E-06	1E-03	1.0E-06		2.3E-06		
	Cadmium	7440439	0.26	0.26	0.26	0.26	1.0E-03	--	(a)	5.2E-06	5E-03	1.1E-06	1E-03	4.5E-07		1.0E-06			5.2E-06	5E-03	1.1E-06	1E-03	4.4E-07		1.0E-06		
	Calcium	7440702	1,960	1,810	5,990	3,253	--	--		1.2E-01		2.6E-02		1.0E-02		2.3E-02			6.5E-02		1.4E-02		5.6E-03		1.3E-02		
	Chromium	7440473	9.6	9.7	9.0	9.4	1.5E+00	--	(b)	1.8E-04	1E-04	3.9E-05	3E-05	1.5E-05		3.5E-05			1.9E-04	1E-04	4.0E-05	3E-05	1.6E-05		3.7E-05		
	Cobalt	7440484	4.4	4.1	3.7	4.1	3.0E-04	--		7.4E-05	2E-01	1.6E-05	5E-02	6.3E-06		1.4E-05			8.1E-05	3E-01	1.7E-05	6E-02	7.0E-06		1.6E-05		
	Copper	7440508	7	6	7	6	4.0E-02	--		1.3E-04	3E-03	2.8E-05	7E-04	1.1E-05		2.5E-05			1.3E-04	3E-03	2.7E-05	7E-04	1.1E-05		2.5E-05		
	Iron	7439896	15,400	14,900	14,300	14,867	7.0E-01	--		2.9E-01	4E-01	6.1E-02	9E-02	2.5E-02		5.6E-02			3.0E-01	4E-01	6.4E-02	9E-02	2.5E-02		5.8E-02		
	Lead	7439921	7	7	6	7			(c)																		
	Magnesium	7439954	5,880	5,590	5,360	5,610	--	--		1.1E-01		2.3E-02		9.2E-03		2.1E-02			1.1E-01		2.4E-02		9.6E-03		2.2E-02		
	Manganese	7439965	227	208	226	220	4.7E-02	--	(d)	4.5E-03	1E-01	9.7E-04	2E-02	3.9E-04		8.9E-04			4.4E-03	9E-02	9.4E-04	2E-02	3.8E-04		8.6E-04		
	Mercury	7439976	0.055	0.055	0.050	0.053	3.0E-04	--	(i)	1.0E-06	3E-03	2.1E-07	7E-04	8.6E-08		2.0E-07			1.1E-06	4E-03	2.3E-07	8E-04	9.1E-08		2.1E-07		
	Nickel	7440020	8.2	7.5	7.5	7.7	2.0E-02	--		1.5E-04	8E-03	3.2E-05	2E-03	1.3E-05		2.9E-05			1.5E-04	8E-03	3.3E-05	2E-03	1.3E-05		3.0E-05		
	Potassium	7440097	1,610	1,470	1,230	1,437	--	--		2.5E-02		5.3E-03		2.1E-03		4.8E-03			2.9E-02		6.2E-03		2.5E-03		5.6E-03		
	Selenium	7782492	1.80	1.80	1.80	1.80	5.0E-03	--		3.6E-05	7E-03	7.7E-06	2E-03	3.1E-06		7.1E-06			3.6E-05	7E-03	7.7E-06	2E-03	3.1E-06		7.1E-06		
	Silver	7440224	0.50	0.50	0.50	0.50	5.0E-03	--		1.0E-05	2E-03	2.1E-06	4E-04	8.6E-07		2.0E-06			1.0E-05	2E-03	2.1E-06	4E-04	8.6E-07		2.0E-06		
	Sodium	7440235	66	54	74	64	--	--		1.5E-03		3.2E-04		1.3E-04		2.9E-04			1.3E-03		2.8E-04		1.1E-04		2.5E-04		
	Thallium	7440280	1.30	1.30	1.30	1.30	6.5E-05	--		2.6E-05	4E-01	5.6E-06	9E-02	2.2E-06		5.1E-06			2.6E-05	4E-01	5.6E-06	9E-02	2.2E-06		5.1E-06		
	Uranium	7440611	10.4	5.2	10.3	8.6	6.0E-04	--	(e)	2.1E-04	3E-01	4.4E-05	7E-02	1.8E-05		4.0E-05			1.7E-04	3E-01	3.7E-05	6E-02	1.5E-05		3.4E-05		
	Vanadium	7440622	14.8	14.0	13.9	14.2	7.0E-03	--		2.8E-04	4E-02	6.0E-05	9E-03	2.4E-05		5.4E-05			2.8E-04	4E-02	6.1E-05	9E-03	2.4E-05		5.6E-05		
	Zinc	7440666	48	55	40	47	3.0E-01	--		1.1E-03	4E-03	2.3E-04	8E-04	9.4E-05		2.1E-04			9.5E-04	3E-03	2.0E-04	7E-04	8.1E-05		1.9E-04		
									Total		**2E+00**		**5E-01**		**3E-05**		**6E-05**	**9E-05**		**2E+00**		**5E-01**		**3E-05**		**6E-05**	**9E-05**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:

(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Worker_Contact Intensive

Exposure Area: AA Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	#N/A	1.42E-06
Cancer:	#N/A	5.07E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER										MIDDLE								
										Non-Cancer				Cancer						Non-Cancer				Cancer				
										Child		Adult		Child		Adult				Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	10,200	12,200	9,080	10,493	1.0E+00	--		#N/A		1.4E-02	1E-02	#N/A		5.2E-03				#N/A		1.7E-02	2E-02	#N/A		6.2E-03		
	Antimony	7440360	1.1	1.5	1.2	1.3	4.0E-04	--		#N/A		1.6E-06	4E-03	#N/A		5.6E-07				#N/A		2.1E-06	5E-03	#N/A		7.6E-07		
	Arsenic	7440382	3.6	5.3	4.1	4.3	2.4E-04	1.9E+00	(j)	#N/A		5.1E-06	2E-02	#N/A		1.8E-06	3E-06	3E-06		#N/A		7.5E-06	3E-02	#N/A		2.7E-06	5E-06	5E-06
	Barium	7440393	78	117	78	91	2.0E-01	--		#N/A		1.1E-04	6E-04	#N/A		3.9E-05				#N/A		1.7E-04	8E-04	#N/A		5.9E-05		
	Beryllium	7440417	0.68	0.90	0.66	0.75	2.0E-03	--		#N/A		9.7E-07	5E-04	#N/A		3.5E-07				#N/A		1.3E-06	6E-04	#N/A		4.6E-07		
	Cadmium	7440439	1.00	0.74	0.17	0.64	1.0E-03	--	(a)	#N/A		1.4E-06	1E-03	#N/A		5.1E-07				#N/A		1.1E-06	1E-03	#N/A		3.8E-07		
	Calcium	7440702	2,520	4,120	2,990	3,210	--	--		#N/A		3.6E-03		#N/A		1.3E-03				#N/A		5.9E-03		#N/A		2.1E-03		
	Chromium	7440473	18.0	24.2	14.8	19.0	1.5E+00	--	(b)	#N/A		2.6E-05	2E-05	#N/A		9.1E-06				#N/A		3.4E-05	2E-05	#N/A		1.2E-05		
	Cobalt	7440484	6.9	10.4	6.4	7.9	3.0E-04	--		#N/A		9.8E-06	3E-02	#N/A		3.5E-06				#N/A		1.5E-05	5E-02	#N/A		5.3E-06		
	Copper	7440508	15	20	12	16	4.0E-02	--		#N/A		2.1E-05	5E-04	#N/A		7.5E-06				#N/A		2.8E-05	7E-04	#N/A		1.0E-05		
	Iron	7439896	16,000	21,100	14,800	17,300	7.0E-01	--		#N/A		2.3E-02	3E-02	#N/A		8.1E-03				#N/A		3.0E-02	4E-02	#N/A		1.1E-02		
	Lead	7439921	34	20	7	20			(c)																			
	Magnesium	7439954	3,700	4,970	3,550	4,073	--	--		#N/A		5.3E-03		#N/A		1.9E-03				#N/A		7.1E-03		#N/A		2.5E-03		
	Manganese	7439965	167	383	248	266	4.7E-02	--	(d)	#N/A		2.4E-04	5E-03	#N/A		8.5E-05				#N/A		5.4E-04	1E-02	#N/A		1.9E-04		
	Mercury	7439976	0.053	0.031	0.010	0.031	3.0E-04	--	(i)	#N/A		7.5E-08	3E-04	#N/A		2.7E-08				#N/A		4.4E-08	1E-04	#N/A		1.6E-08		
	Nickel	7440020	15.5	21.1	12.8	16.5	2.0E-02	--		#N/A		2.2E-05	1E-03	#N/A		7.9E-06				#N/A		3.0E-05	1E-03	#N/A		1.1E-05		
	Potassium	7440097	1,220	2,020	1,160	1,467	--	--		#N/A		1.7E-03		#N/A		6.2E-04				#N/A		2.9E-03		#N/A		1.0E-03		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A				#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.60	0.60	0.55	0.58	5.0E-03	--		#N/A		8.5E-07	2E-04	#N/A		3.0E-07				#N/A		8.5E-07	2E-04	#N/A		3.0E-07		
	Sodium	7440235	115	173	129	139	--	--		#N/A		1.6E-04		#N/A		5.8E-05				#N/A		2.5E-04		#N/A		8.8E-05		
	Thallium	7440280	1.50	1.55	1.45	1.50	6.5E-05	--		#N/A		2.1E-06	3E-02	#N/A		7.6E-07				#N/A		2.2E-06	3E-02	#N/A		7.9E-07		
	Uranium	7440611	12.0	12.3	11.4	11.9	6.0E-04	--	(e)	#N/A		1.7E-05	3E-02	#N/A		6.1E-06				#N/A		1.7E-05	3E-02	#N/A		6.2E-06		
	Vanadium	7440622	27.2	32.6	26.3	28.7	7.0E-03	--		#N/A		3.9E-05	6E-03	#N/A		1.4E-05				#N/A		4.6E-05	7E-03	#N/A		1.7E-05		
	Zinc	7440666	158	118	49	108	3.0E-01	--		#N/A		2.2E-04	7E-04	#N/A		8.0E-05				#N/A		1.7E-04	6E-04	#N/A		6.0E-05		
									Total		**0E+00**		**2E-01**		**0E+00**		**3E-06**	**3E-06**			**0E+00**		**2E-01**		**0E+00**		**5E-06**	**5E-06**
										Total HQ or Risks > LOPC?:				**Yes**						**Total HQ or Risks > LOPC?:**				**Yes**			

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:

(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Worker_Contact Intensive

Exposure Area: AA Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	#N/A	1.42E-06
Cancer:	#N/A	5.07E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	10,200	12,200	9,080	10,493	1.0E+00	--		#N/A		1.3E-02	1E-02	#N/A		4.6E-03			#N/A		1.5E-02	1E-02	#N/A		5.3E-03		
	Antimony	7440360	1.1	1.5	1.2	1.3	4.0E-04	--		#N/A		1.7E-06	4E-03	#N/A		6.1E-07			#N/A		1.8E-06	4E-03	#N/A		6.4E-07		
	Arsenic	7440382	3.6	5.3	4.1	4.3	2.4E-04	1.9E+00	(j)	#N/A		5.8E-06	2E-02	#N/A		2.1E-06	4E-06	4E-06	#N/A		6.2E-06	3E-02	#N/A		2.2E-06	4E-06	4E-06
	Barium	7440393	78	117	78	91	2.0E-01	--		#N/A		1.1E-04	6E-04	#N/A		4.0E-05			#N/A		1.3E-04	6E-04	#N/A		4.6E-05		
	Beryllium	7440417	0.68	0.90	0.66	0.75	2.0E-03	--		#N/A		9.4E-07	5E-04	#N/A		3.3E-07			#N/A		1.1E-06	5E-04	#N/A		3.8E-07		
	Cadmium	7440439	1.00	0.74	0.17	0.64	1.0E-03	--	(a)	#N/A		2.4E-07	2E-04	#N/A		8.6E-08			#N/A		9.0E-07	9E-04	#N/A		3.2E-07		
	Calcium	7440702	2,520	4,120	2,990	3,210	--	--		#N/A		4.2E-03		#N/A		1.5E-03			#N/A		4.6E-03		#N/A		1.6E-03		
	Chromium	7440473	18.0	24.2	14.8	19.0	1.5E+00	--	(b)	#N/A		2.1E-05	1E-05	#N/A		7.5E-06			#N/A		2.7E-05	2E-05	#N/A		9.6E-06		
	Cobalt	7440484	6.9	10.4	6.4	7.9	3.0E-04	--		#N/A		9.1E-06	3E-02	#N/A		3.2E-06			#N/A		1.1E-05	4E-02	#N/A		4.0E-06		
	Copper	7440508	15	20	12	16	4.0E-02	--		#N/A		1.7E-05	4E-04	#N/A		6.1E-06			#N/A		2.2E-05	6E-04	#N/A		7.9E-06		
	Iron	7439896	16,000	21,100	14,800	17,300	7.0E-01	--		#N/A		2.1E-02	3E-02	#N/A		7.5E-03			#N/A		2.5E-02	4E-02	#N/A		8.8E-03		
	Lead	7439921	34	20	7	20			(c)																		
	Magnesium	7439954	3,700	4,970	3,550	4,073	--	--		#N/A		5.0E-03		#N/A		1.8E-03			#N/A		5.8E-03		#N/A		2.1E-03		
	Manganese	7439965	167	383	248	266	4.7E-02	--	(d)	#N/A		3.5E-04	8E-03	#N/A		1.3E-04			#N/A		3.8E-04	8E-03	#N/A		1.3E-04		
	Mercury	7439976	0.053	0.031	0.010	0.031	3.0E-04	--	(i)	#N/A		1.4E-08	5E-05	#N/A		5.1E-09			#N/A		4.5E-08	1E-04	#N/A		1.6E-08		
	Nickel	7440020	15.5	21.1	12.8	16.5	2.0E-02	--		#N/A		1.8E-05	9E-04	#N/A		6.5E-06			#N/A		2.3E-05	1E-03	#N/A		8.4E-06		
	Potassium	7440097	1,220	2,020	1,160	1,467	--	--		#N/A		1.6E-03		#N/A		5.9E-04			#N/A		2.1E-03		#N/A		7.4E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.60	0.60	0.55	0.58	5.0E-03	--		#N/A		7.8E-07	2E-04	#N/A		2.8E-07			#N/A		8.3E-07	2E-04	#N/A		3.0E-07		
	Sodium	7440235	115	173	129	139	--	--		#N/A		1.8E-04		#N/A		6.5E-05			#N/A		2.0E-04		#N/A		7.1E-05		
	Thallium	7440280	1.50	1.55	1.45	1.50	6.5E-05	--		#N/A		2.1E-06	3E-02	#N/A		7.4E-07			#N/A		2.1E-06	3E-02	#N/A		7.6E-07		
	Uranium	7440611	12.0	12.3	11.4	11.9	6.0E-04	--	(e)	#N/A		1.6E-05	3E-02	#N/A		5.8E-06			#N/A		1.7E-05	3E-02	#N/A		6.0E-06		
	Vanadium	7440622	27.2	32.6	26.3	28.7	7.0E-03	--		#N/A		3.7E-05	5E-03	#N/A		1.3E-05			#N/A		4.1E-05	6E-03	#N/A		1.5E-05		
	Zinc	7440666	158	118	49	108	3.0E-01	--		#N/A		1.7E-04	6E-04	#N/A		6.0E-05			#N/A		1.5E-04	5E-04	#N/A		5.5E-05		
									Total		**0E+00**		**2E-01**		**0E+00**		**4E-06**	**4E-06**		**0E+00**		**2E-01**		**0E+00**		**4E-06**	**4E-06**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:

(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Worker_Contact Intensive

Exposure Area: Black Sand Beach

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	#N/A	1.42E-06
Cancer:	#N/A	5.07E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	19,000	18,600	18,600	18,733	1.0E+00	--		#N/A		2.7E-02	3E-02	#N/A		9.6E-03			#N/A		2.6E-02	3E-02	#N/A		9.4E-03		
	Antimony	7440360	18.6	52.3	47.7	39.5	4.0E-04	--		#N/A		2.6E-05	7E-02	#N/A		9.4E-06			#N/A		7.4E-05	2E-01	#N/A		2.7E-05		
	Arsenic	7440382	16.1	25.2	27.3	22.9	2.4E-04	1.9E+00	(j)	#N/A		2.3E-05	1E-01	#N/A		8.2E-06	2E-05	2E-05	#N/A		3.6E-05	1E-01	#N/A		1.3E-05	2E-05	2E-05
	Barium	7440393	1,280	1,680	1,750	1,570	2.0E-01	--		#N/A		1.8E-03	9E-03	#N/A		6.5E-04			#N/A		2.4E-03	1E-02	#N/A		8.5E-04		
	Beryllium	7440417	1.20	1.30	1.30	1.27	2.0E-03	--		#N/A		1.7E-06	9E-04	#N/A		6.1E-07			#N/A		1.8E-06	9E-04	#N/A		6.6E-07		
	Cadmium	7440439	1.00	1.20	1.40	1.20	1.0E-03	--	(a)	#N/A		1.4E-06	1E-03	#N/A		5.1E-07			#N/A		1.7E-06	2E-03	#N/A		6.1E-07		
	Calcium	7440702	58,700	63,300	66,900	62,967	--	--		#N/A		8.3E-02		#N/A		3.0E-02			#N/A		9.0E-02		#N/A		3.2E-02		
	Chromium	7440473	101.0	123.0	128.0	117.3	1.5E+00	--	(b)	#N/A		1.4E-04	1E-04	#N/A		5.1E-05			#N/A		1.7E-04	1E-04	#N/A		6.2E-05		
	Cobalt	7440484	29.5	48.6	51.0	43.0	3.0E-04	--		#N/A		4.2E-05	1E-01	#N/A		1.5E-05			#N/A		6.9E-05	2E-01	#N/A		2.5E-05		
	Copper	7440508	1,620	2,240	2,350	2,070	4.0E-02	--		#N/A		2.3E-03	6E-02	#N/A		8.2E-04			#N/A		3.2E-03	8E-02	#N/A		1.1E-03		
	Iron	7439896	197,000	187,000	211,000	198,333	7.0E-01	--		#N/A		2.8E-01	4E-01	#N/A		1.0E-01			#N/A		2.7E-01	4E-01	#N/A		9.5E-02		
	Lead	7439921	276	231	266	258			(c)																		
	Magnesium	7439954	6,670	7,070	8,290	7,343	--	--		#N/A		9.5E-03		#N/A		3.4E-03			#N/A		1.0E-02		#N/A		3.6E-03		
	Manganese	7439965	3,080	3,680	3,680	3,480	4.7E-02	--	(d)	#N/A		4.4E-03	9E-02	#N/A		1.6E-03			#N/A		5.2E-03	1E-01	#N/A		1.9E-03		
	Mercury	7439976	0.028	0.030	0.650	0.236	3.0E-04	--	(i)	#N/A		4.0E-08	1E-04	#N/A		1.4E-08			#N/A		4.3E-08	1E-04	#N/A		1.5E-08		
	Nickel	7440020	9.3	12.1	12.4	11.3	2.0E-02	--		#N/A		1.3E-05	7E-04	#N/A		4.7E-06			#N/A		1.7E-05	9E-04	#N/A		6.1E-06		
	Potassium	7440097	3,500	3,610	3,750	3,620	--	--		#N/A		5.0E-03		#N/A		1.8E-03			#N/A		5.1E-03		#N/A		1.8E-03		
	Selenium	7782492	#N/A	#N/A	1.70	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.55	0.47	0.49	0.50	5.0E-03	--		#N/A		7.8E-07	2E-04	#N/A		2.8E-07			#N/A		6.6E-07	1E-04	#N/A		2.4E-07		
	Sodium	7440235	1,300	1,770	1,840	1,637	--	--		#N/A		1.8E-03		#N/A		6.6E-04			#N/A		2.5E-03		#N/A		9.0E-04		
	Thallium	7440280	1.35	1.15	1.20	1.23	6.5E-05	--		#N/A		1.9E-06	3E-02	#N/A		6.9E-07			#N/A		1.6E-06	3E-02	#N/A		5.8E-07		
	Uranium	7440611	64.8	84.3	81.6	76.9	6.0E-04	--	(e)	#N/A		9.2E-05	2E-01	#N/A		3.3E-05			#N/A		1.2E-04	2E-01	#N/A		4.3E-05		
	Vanadium	7440622	36.6	38.3	39.8	38.2	7.0E-03	--		#N/A		5.2E-05	7E-03	#N/A		1.9E-05			#N/A		5.4E-05	8E-03	#N/A		1.9E-05		
	Zinc	7440666	14,900	15,200	16,900	15,667	3.0E-01	--		#N/A		2.1E-02	7E-02	#N/A		7.6E-03			#N/A		2.2E-02	7E-02	#N/A		7.7E-03		
									Total		**0E+00**		**1E+00**		**0E+00**		**2E-05**	**2E-05**		**0E+00**		**1E+00**			**0E+00**		**2E-05**	**2E-05**
										Total HQ or Risks > LOPC?:			**Yes**						**Total HQ or Risks > LOPC?:**			**Yes**					

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:

(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Worker_Contact Intensive

Exposure Area: Black Sand Beach

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	#N/A	1.42E-06
Cancer:	#N/A	5.07E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	19,000	18,600	18,600	18,733	1.0E+00	--		#N/A		2.6E-02	3E-02	#N/A		9.4E-03			#N/A		2.7E-02	3E-02	#N/A		9.5E-03		
	Antimony	7440360	18.6	52.3	47.7	39.5	4.0E-04	--		#N/A		6.8E-05	2E-01	#N/A		2.4E-05			#N/A		5.6E-05	1E-01	#N/A		2.0E-05		
	Arsenic	7440382	16.1	25.2	27.3	22.9	2.4E-04	1.9E+00	(j)	#N/A		3.9E-05	2E-01	#N/A		1.4E-05	3E-05	3E-05	#N/A		3.2E-05	1E-01	#N/A		1.2E-05	2E-05	2E-05
	Barium	7440393	1,280	1,680	1,750	1,570	2.0E-01	--		#N/A		2.5E-03	1E-02	#N/A		8.9E-04			#N/A		2.2E-03	1E-02	#N/A		8.0E-04		
	Beryllium	7440417	1.20	1.30	1.30	1.27	2.0E-03	--		#N/A		1.8E-06	9E-04	#N/A		6.6E-07			#N/A		1.8E-06	9E-04	#N/A		6.4E-07		
	Cadmium	7440439	1.00	1.20	1.40	1.20	1.0E-03	--	(a)	#N/A		2.0E-06	2E-03	#N/A		7.1E-07			#N/A		1.7E-06	2E-03	#N/A		6.1E-07		
	Calcium	7440702	58,700	63,300	66,900	62,967	--	--		#N/A		9.5E-02		#N/A		3.4E-02			#N/A		8.9E-02		#N/A		3.2E-02		
	Chromium	7440473	101.0	123.0	128.0	117.3	1.5E+00	--	(b)	#N/A		1.8E-04	1E-04	#N/A		6.5E-05			#N/A		1.7E-04	1E-04	#N/A		6.0E-05		
	Cobalt	7440484	29.5	48.6	51.0	43.0	3.0E-04	--		#N/A		7.2E-05	2E-01	#N/A		2.6E-05			#N/A		6.1E-05	2E-01	#N/A		2.2E-05		
	Copper	7440508	1,620	2,240	2,350	2,070	4.0E-02	--		#N/A		3.3E-03	8E-02	#N/A		1.2E-03			#N/A		2.9E-03	7E-02	#N/A		1.1E-03		
	Iron	7439896	197,000	187,000	211,000	198,333	7.0E-01	--		#N/A		3.0E-01	4E-01	#N/A		1.1E-01			#N/A		2.8E-01	4E-01	#N/A		1.0E-01		
	Lead	7439921	276	231	266	258			(c)																		
	Magnesium	7439954	6,670	7,070	8,290	7,343	--	--		#N/A		1.2E-02		#N/A		4.2E-03			#N/A		1.0E-02		#N/A		3.7E-03		
	Manganese	7439965	3,080	3,680	3,680	3,480	4.7E-02	--	(d)	#N/A		5.2E-03	1E-01	#N/A		1.9E-03			#N/A		4.9E-03	1E-01	#N/A		1.8E-03		
	Mercury	7439976	0.028	0.030	0.650	0.236	3.0E-04	--	(i)	#N/A		9.2E-07	3E-03	#N/A		3.3E-07			#N/A		3.4E-07	1E-03	#N/A		1.2E-07		
	Nickel	7440020	9.3	12.1	12.4	11.3	2.0E-02	--		#N/A		1.8E-05	9E-04	#N/A		6.3E-06			#N/A		1.6E-05	8E-04	#N/A		5.7E-06		
	Potassium	7440097	3,500	3,610	3,750	3,620	--	--		#N/A		5.3E-03		#N/A		1.9E-03			#N/A		5.1E-03		#N/A		1.8E-03		
	Selenium	7782492	#N/A	#N/A	1.70	#N/A	5.0E-03	--		#N/A		2.4E-06	5E-04	#N/A		8.6E-07			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.55	0.47	0.49	0.50	5.0E-03	--		#N/A		6.9E-07	1E-04	#N/A		2.5E-07			#N/A		7.1E-07	1E-04	#N/A		2.5E-07		
	Sodium	7440235	1,300	1,770	1,840	1,637	--	--		#N/A		2.6E-03		#N/A		9.3E-04			#N/A		2.3E-03		#N/A		8.3E-04		
	Thallium	7440280	1.35	1.15	1.20	1.23	6.5E-05	--		#N/A		1.7E-06	3E-02	#N/A		6.1E-07			#N/A		1.8E-06	3E-02	#N/A		6.3E-07		
	Uranium	7440611	64.8	84.3	81.6	76.9	6.0E-04	--	(e)	#N/A		1.2E-04	2E-01	#N/A		4.1E-05			#N/A		1.1E-04	2E-01	#N/A		3.9E-05		
	Vanadium	7440622	36.6	38.3	39.8	38.2	7.0E-03	--		#N/A		5.7E-05	8E-03	#N/A		2.0E-05			#N/A		5.4E-05	8E-03	#N/A		1.9E-05		
	Zinc	7440666	14,900	15,200	16,900	15,667	3.0E-01	--		#N/A		2.2E-02	7E-02	#N/A		7.7E-03			#N/A		2.2E-02	7E-02	#N/A		7.9E-03		
									Total		**0E+00**		**2E+00**		**0E+00**		**3E-05**	**3E-05**		**0E+00**		**1E+00**		**0E+00**		**2E-05**	**2E-05**
										Total HQ or Risks > LOPC?:			**Yes**						**Total HQ or Risks > LOPC?:**			**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:

(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Worker_Contact Intensive

Exposure Area: Cloverleaf Branch

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	#N/A	1.42E-06
Cancer:	#N/A	5.07E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	12,300	7,520	7,780	9,200	1.0E+00	--		#N/A		1.7E-02	2E-02	#N/A		6.2E-03			#N/A		1.1E-02	1E-02	#N/A		3.8E-03		
	Antimony	7440360	1.6	1.1	1.0	1.2	4.0E-04	--		#N/A		2.3E-06	6E-03	#N/A		8.1E-07			#N/A		1.6E-06	4E-03	#N/A		5.6E-07		
	Arsenic	7440382	7.0	3.6	2.3	4.3	2.4E-04	1.9E+00	(j)	#N/A		9.9E-06	4E-02	#N/A		3.6E-06	7E-06	7E-06	#N/A		5.1E-06	2E-02	#N/A		1.8E-06	3E-06	3E-06
	Barium	7440393	152	80	66	99	2.0E-01	--		#N/A		2.2E-04	1E-03	#N/A		7.7E-05			#N/A		1.1E-04	6E-04	#N/A		4.1E-05		
	Beryllium	7440417	0.93	0.59	0.63	0.72	2.0E-03	--		#N/A		1.3E-06	7E-04	#N/A		4.7E-07			#N/A		8.4E-07	4E-04	#N/A		3.0E-07		
	Cadmium	7440439	2.40	0.63	3.10	2.04	1.0E-03	--	(a)	#N/A		3.4E-06	3E-03	#N/A		1.2E-06			#N/A		9.0E-07	9E-04	#N/A		3.2E-07		
	Calcium	7440702	5,200	6,050	3,100	4,783	--	--		#N/A		7.4E-03		#N/A		2.6E-03			#N/A		8.6E-03		#N/A		3.1E-03		
	Chromium	7440473	28.0	17.7	19.5	21.7	1.5E+00	--	(b)	#N/A		4.0E-05	3E-05	#N/A		1.4E-05			#N/A		2.5E-05	2E-05	#N/A		9.0E-06		
	Cobalt	7440484	10.0	6.7	5.6	7.4	3.0E-04	--		#N/A		1.4E-05	5E-02	#N/A		5.1E-06			#N/A		9.5E-06	3E-02	#N/A		3.4E-06		
	Copper	7440508	29	16	15	20	4.0E-02	--		#N/A		4.1E-05	1E-03	#N/A		1.5E-05			#N/A		2.3E-05	6E-04	#N/A		8.2E-06		
	Iron	7439896	22,600	15,200	13,300	17,033	7.0E-01	--		#N/A		3.2E-02	5E-02	#N/A		1.1E-02			#N/A		2.2E-02	3E-02	#N/A		7.7E-03		
	Lead	7439921	102	16	51	56			(c)																		
	Magnesium	7439954	6,530	4,520	4,040	5,030	--	--		#N/A		9.3E-03		#N/A		3.3E-03			#N/A		6.4E-03		#N/A		2.3E-03		
	Manganese	7439965	526	194	145	288	4.7E-02	--	(d)	#N/A		7.5E-04	2E-02	#N/A		2.7E-04			#N/A		2.8E-04	6E-03	#N/A		9.8E-05		
	Mercury	7439976	0.210	0.030	0.062	0.101	3.0E-04	--	(i)	#N/A		3.0E-07	1E-03	#N/A		1.1E-07			#N/A		4.3E-08	1E-04	#N/A		1.5E-08		
	Nickel	7440020	23.8	15.9	14.0	17.9	2.0E-02	--		#N/A		3.4E-05	2E-03	#N/A		1.2E-05			#N/A		2.3E-05	1E-03	#N/A		8.1E-06		
	Potassium	7440097	2,190	1,210	1,200	1,533	--	--		#N/A		3.1E-03		#N/A		1.1E-03			#N/A		1.7E-03		#N/A		6.1E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.60	0.55	0.60	0.58	5.0E-03	--		#N/A		8.5E-07	2E-04	#N/A		3.0E-07			#N/A		7.8E-07	2E-04	#N/A		2.8E-07		
	Sodium	7440235	245	147	94	162	--	--		#N/A		3.5E-04		#N/A		1.2E-04			#N/A		2.1E-04		#N/A		7.5E-05		
	Thallium	7440280	1.55	1.35	1.55	1.48	6.5E-05	--		#N/A		2.2E-06	3E-02	#N/A		7.9E-07			#N/A		1.9E-06	3E-02	#N/A		6.9E-07		
	Uranium	7440611	12.3	10.7	12.2	11.7	6.0E-04	--	(e)	#N/A		1.7E-05	3E-02	#N/A		6.2E-06			#N/A		1.5E-05	3E-02	#N/A		5.4E-06		
	Vanadium	7440622	35.6	26.6	21.9	28.0	7.0E-03	--		#N/A		5.1E-05	7E-03	#N/A		1.8E-05			#N/A		3.8E-05	5E-03	#N/A		1.3E-05		
	Zinc	7440666	295	90	220	202	3.0E-01	--		#N/A		4.2E-04	1E-03	#N/A		1.5E-04			#N/A		1.3E-04	4E-04	#N/A		4.6E-05		
									Total		**0E+00**		**3E-01**		**0E+00**		**7E-06**	**7E-06**		**0E+00**		**2E-01**		**0E+00**		**3E-06**	**3E-06**
										Total HQ or Risks > LOPC?:			**Yes**						**Total HQ or Risks > LOPC?:**			**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Worker_Contact Intensive

Exposure Area: Cloverleaf Branch

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	#N/A	1.42E-06
Cancer:	#N/A	5.07E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	12,300	7,520	7,780	9,200	1.0E+00	--		#N/A		1.1E-02	1E-02	#N/A		3.9E-03			#N/A		1.3E-02	1E-02	#N/A		4.7E-03		
	Antimony	7440360	1.6	1.1	1.0	1.2	4.0E-04	--		#N/A		1.4E-06	4E-03	#N/A		5.1E-07			#N/A		1.8E-06	4E-03	#N/A		6.3E-07		
	Arsenic	7440382	7.0	3.6	2.3	4.3	2.4E-04	1.9E+00	(j)	#N/A		3.3E-06	1E-02	#N/A		1.2E-06	2E-06	2E-06	#N/A		6.1E-06	3E-02	#N/A		2.2E-06	4E-06	4E-06
	Barium	7440393	152	80	66	99	2.0E-01	--		#N/A		9.3E-05	5E-04	#N/A		3.3E-05			#N/A		1.4E-04	7E-04	#N/A		5.0E-05		
	Beryllium	7440417	0.93	0.59	0.63	0.72	2.0E-03	--		#N/A		9.0E-07	4E-04	#N/A		3.2E-07			#N/A		1.0E-06	5E-04	#N/A		3.6E-07		
	Cadmium	7440439	2.40	0.63	3.10	2.04	1.0E-03	--	(a)	#N/A		4.4E-06	4E-03	#N/A		1.6E-06			#N/A		2.9E-06	3E-03	#N/A		1.0E-06		
	Calcium	7440702	5,200	6,050	3,100	4,783	--	--		#N/A		4.4E-03		#N/A		1.6E-03			#N/A		6.8E-03		#N/A		2.4E-03		
	Chromium	7440473	28.0	17.7	19.5	21.7	1.5E+00	--	(b)	#N/A		2.8E-05	2E-05	#N/A		9.9E-06			#N/A		3.1E-05	2E-05	#N/A		1.1E-05		
	Cobalt	7440484	10.0	6.7	5.6	7.4	3.0E-04	--		#N/A		8.0E-06	3E-02	#N/A		2.8E-06			#N/A		1.1E-05	4E-02	#N/A		3.8E-06		
	Copper	7440508	29	16	15	20	4.0E-02	--		#N/A		2.1E-05	5E-04	#N/A		7.5E-06			#N/A		2.8E-05	7E-04	#N/A		1.0E-05		
	Iron	7439896	22,600	15,200	13,300	17,033	7.0E-01	--		#N/A		1.9E-02	3E-02	#N/A		6.7E-03			#N/A		2.4E-02	3E-02	#N/A		8.6E-03		
	Lead	7439921	102	16	51	56			(c)																		
	Magnesium	7439954	6,530	4,520	4,040	5,030	--	--		#N/A		5.7E-03		#N/A		2.0E-03			#N/A		7.1E-03		#N/A		2.6E-03		
	Manganese	7439965	526	194	145	288	4.7E-02	--	(d)	#N/A		2.1E-04	4E-03	#N/A		7.4E-05			#N/A		4.1E-04	9E-03	#N/A		1.5E-04		
	Mercury	7439976	0.210	0.030	0.062	0.101	3.0E-04	--	(i)	#N/A		8.8E-08	3E-04	#N/A		3.1E-08			#N/A		1.4E-07	5E-04	#N/A		5.1E-08		
	Nickel	7440020	23.8	15.9	14.0	17.9	2.0E-02	--		#N/A		2.0E-05	1E-03	#N/A		7.1E-06			#N/A		2.5E-05	1E-03	#N/A		9.1E-06		
	Potassium	7440097	2,190	1,210	1,200	1,533	--	--		#N/A		1.7E-03		#N/A		6.1E-04			#N/A		2.2E-03		#N/A		7.8E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.60	0.55	0.60	0.58	5.0E-03	--		#N/A		8.5E-07	2E-04	#N/A		3.0E-07			#N/A		8.3E-07	2E-04	#N/A		3.0E-07		
	Sodium	7440235	245	147	94	162	--	--		#N/A		1.3E-04		#N/A		4.8E-05			#N/A		2.3E-04		#N/A		8.2E-05		
	Thallium	7440280	1.55	1.35	1.55	1.48	6.5E-05	--		#N/A		2.2E-06	3E-02	#N/A		7.9E-07			#N/A		2.1E-06	3E-02	#N/A		7.5E-07		
	Uranium	7440611	12.3	10.7	12.2	11.7	6.0E-04	--	(e)	#N/A		1.7E-05	3E-02	#N/A		6.2E-06			#N/A		1.7E-05	3E-02	#N/A		6.0E-06		
	Vanadium	7440622	35.6	26.6	21.9	28.0	7.0E-03	--		#N/A		3.1E-05	4E-03	#N/A		1.1E-05			#N/A		4.0E-05	6E-03	#N/A		1.4E-05		
	Zinc	7440666	295	90	220	202	3.0E-01	--		#N/A		1.3E-04	4E-04	#N/A		4.6E-05			#N/A		2.9E-04	1E-03	#N/A		1.0E-04		
									Total		**0E+00**		**2E-01**		**0E+00**		**2E-06**	**2E-06**		**0E+00**		**2E-01**		**0E+00**		**4E-06**	**4E-06**
										Total HQ or Risks > LOPC?:		**Yes**							**Total HQ or Risks > LOPC?:**		**Yes**					

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:

(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Worker_Contact Intensive

Exposure Area: Columbia Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	#N/A	1.42E-06
Cancer:	#N/A	5.07E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	11,617	10,660	8,947	10,408	1.0E+00	--		#N/A		1.7E-02	2E-02	#N/A		5.9E-03			#N/A		1.5E-02	2E-02	#N/A		5.4E-03		
	Antimony	7440360	1.1	1.0	1.0	1.0	4.0E-04	--		#N/A		1.6E-06	4E-03	#N/A		5.7E-07			#N/A		1.4E-06	3E-03	#N/A		4.9E-07		
	Arsenic	7440382	4.7	5.4	3.8	4.6	2.4E-04	1.9E+00	(j)	#N/A		6.7E-06	3E-02	#N/A		2.4E-06	4E-06	4E-06	#N/A		7.7E-06	3E-02	#N/A		2.7E-06	5E-06	5E-06
	Barium	7440393	116	100	81	99	2.0E-01	--		#N/A		1.6E-04	8E-04	#N/A		5.9E-05			#N/A		1.4E-04	7E-04	#N/A		5.1E-05		
	Beryllium	7440417	0.86	0.71	0.57	0.71	2.0E-03	--		#N/A		1.2E-06	6E-04	#N/A		4.3E-07			#N/A		1.0E-06	5E-04	#N/A		3.6E-07		
	Cadmium	7440439	1.63	0.45	0.33	0.80	1.0E-03	--	(a)	#N/A		2.3E-06	2E-03	#N/A		8.3E-07			#N/A		6.3E-07	6E-04	#N/A		2.3E-07		
	Calcium	7440702	2,980	2,333	2,017	2,443	--	--		#N/A		4.2E-03		#N/A		1.5E-03			#N/A		3.3E-03		#N/A		1.2E-03		
	Chromium	7440473	16.9	14.3	12.1	14.4	1.5E+00	--	(b)	#N/A		2.4E-05	2E-05	#N/A		8.6E-06			#N/A		2.0E-05	1E-05	#N/A		7.2E-06		
	Cobalt	7440484	7.7	6.3	5.4	6.5	3.0E-04	--		#N/A		1.1E-05	4E-02	#N/A		3.9E-06			#N/A		9.0E-06	3E-02	#N/A		3.2E-06		
	Copper	7440508	19	11	9	13	4.0E-02	--		#N/A		2.7E-05	7E-04	#N/A		9.7E-06			#N/A		1.6E-05	4E-04	#N/A		5.8E-06		
	Iron	7439896	16,700	15,933	14,400	15,678	7.0E-01	--		#N/A		2.4E-02	3E-02	#N/A		8.5E-03			#N/A		2.3E-02	3E-02	#N/A		8.1E-03		
	Lead	7439921	58	18	11	29			(c)																		
	Magnesium	7439954	4,107	3,890	3,487	3,828	--	--		#N/A		5.8E-03		#N/A		2.1E-03			#N/A		5.5E-03		#N/A		2.0E-03		
	Manganese	7439965	283	190	167	214	4.7E-02	--	(d)	#N/A		4.0E-04	9E-03	#N/A		1.4E-04			#N/A		2.7E-04	6E-03	#N/A		9.7E-05		
	Mercury	7439976	0.136	0.029	0.017	0.061	3.0E-04	--	(i)	#N/A		1.9E-07	6E-04	#N/A		6.9E-08			#N/A		4.1E-08	1E-04	#N/A		1.5E-08		
	Nickel	7440020	14.6	11.8	10.2	12.2	2.0E-02	--		#N/A		2.1E-05	1E-03	#N/A		7.4E-06			#N/A		1.7E-05	8E-04	#N/A		6.0E-06		
	Potassium	7440097	2,210	1,840	1,413	1,821	--	--		#N/A		3.1E-03		#N/A		1.1E-03			#N/A		2.6E-03		#N/A		9.3E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.55	0.52	0.53	0.54	5.0E-03	--		#N/A		7.8E-07	2E-04	#N/A		2.8E-07			#N/A		7.4E-07	1E-04	#N/A		2.6E-07		
	Sodium	7440235	144	103	93	113	--	--		#N/A		2.0E-04		#N/A		7.3E-05			#N/A		1.5E-04		#N/A		5.2E-05		
	Thallium	7440280	1.37	1.32	1.33	1.34	6.5E-05	--		#N/A		1.9E-06	3E-02	#N/A		6.9E-07			#N/A		1.9E-06	3E-02	#N/A		6.7E-07		
	Uranium	7440611	10.2	10.5	10.6	10.4	6.0E-04	--	(e)	#N/A		1.4E-05	2E-02	#N/A		5.2E-06			#N/A		1.5E-05	2E-02	#N/A		5.3E-06		
	Vanadium	7440622	23.0	21.0	18.0	20.7	7.0E-03	--		#N/A		3.3E-05	5E-03	#N/A		1.2E-05			#N/A		3.0E-05	4E-03	#N/A		1.1E-05		
	Zinc	7440666	233	143	120	165	3.0E-01	--		#N/A		3.3E-04	1E-03	#N/A		1.2E-04			#N/A		2.0E-04	7E-04	#N/A		7.2E-05		
									Total		**0E+00**		**2E-01**		**0E+00**		**4E-06**	**4E-06**		**0E+00**		**2E-01**		**0E+00**		**5E-06**	**5E-06**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Worker_Contact Intensive

Exposure Area: Columbia Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	#N/A	1.42E-06
Cancer:	#N/A	5.07E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	11,617	10,660	8,947	10,408	1.0E+00	--		#N/A		1.3E-02	1E-02	#N/A		4.5E-03			#N/A		1.5E-02	1E-02	#N/A		5.3E-03		
	Antimony	7440360	1.1	1.0	1.0	1.0	4.0E-04	--		#N/A		1.5E-06	4E-03	#N/A		5.3E-07			#N/A		1.5E-06	4E-03	#N/A		5.3E-07		
	Arsenic	7440382	4.7	5.4	3.8	4.6	2.4E-04	1.9E+00	(j)	#N/A		5.4E-06	2E-02	#N/A		1.9E-06	4E-06	4E-06	#N/A		6.6E-06	3E-02	#N/A		2.4E-06	4E-06	4E-06
	Barium	7440393	116	100	81	99	2.0E-01	--		#N/A		1.2E-04	6E-04	#N/A		4.1E-05			#N/A		1.4E-04	7E-04	#N/A		5.0E-05		
	Beryllium	7440417	0.86	0.71	0.57	0.71	2.0E-03	--		#N/A		8.1E-07	4E-04	#N/A		2.9E-07			#N/A		1.0E-06	5E-04	#N/A		3.6E-07		
	Cadmium	7440439	1.63	0.45	0.33	0.80	1.0E-03	--	(a)	#N/A		4.7E-07	5E-04	#N/A		1.7E-07			#N/A		1.1E-06	1E-03	#N/A		4.1E-07		
	Calcium	7440702	2,980	2,333	2,017	2,443	--	--		#N/A		2.9E-03		#N/A		1.0E-03			#N/A		3.5E-03		#N/A		1.2E-03		
	Chromium	7440473	16.9	14.3	12.1	14.4	1.5E+00	--	(b)	#N/A		1.7E-05	1E-05	#N/A		6.2E-06			#N/A		2.1E-05	1E-05	#N/A		7.3E-06		
	Cobalt	7440484	7.7	6.3	5.4	6.5	3.0E-04	--		#N/A		7.7E-06	3E-02	#N/A		2.8E-06			#N/A		9.2E-06	3E-02	#N/A		3.3E-06		
	Copper	7440508	19	11	9	13	4.0E-02	--		#N/A		1.2E-05	3E-04	#N/A		4.4E-06			#N/A		1.9E-05	5E-04	#N/A		6.6E-06		
	Iron	7439896	16,700	15,933	14,400	15,678	7.0E-01	--		#N/A		2.0E-02	3E-02	#N/A		7.3E-03			#N/A		2.2E-02	3E-02	#N/A		8.0E-03		
	Lead	7439921	58	18	11	29			(c)																		
	Magnesium	7439954	4,107	3,890	3,487	3,828	--	--		#N/A		5.0E-03		#N/A		1.8E-03			#N/A		5.4E-03		#N/A		1.9E-03		
	Manganese	7439965	283	190	167	214	4.7E-02	--	(d)	#N/A		2.4E-04	5E-03	#N/A		8.5E-05			#N/A		3.0E-04	7E-03	#N/A		1.1E-04		
	Mercury	7439976	0.136	0.029	0.017	0.061	3.0E-04	--	(i)	#N/A		2.4E-08	8E-05	#N/A		8.6E-09			#N/A		8.6E-08	3E-04	#N/A		3.1E-08		
	Nickel	7440020	14.6	11.8	10.2	12.2	2.0E-02	--		#N/A		1.5E-05	7E-04	#N/A		5.2E-06			#N/A		1.7E-05	9E-04	#N/A		6.2E-06		
	Potassium	7440097	2,210	1,840	1,413	1,821	--	--		#N/A		2.0E-03		#N/A		7.2E-04			#N/A		2.6E-03		#N/A		9.2E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.55	0.52	0.53	0.54	5.0E-03	--		#N/A		7.6E-07	2E-04	#N/A		2.7E-07			#N/A		7.6E-07	2E-04	#N/A		2.7E-07		
	Sodium	7440235	144	103	93	113	--	--		#N/A		1.3E-04		#N/A		4.7E-05			#N/A		1.6E-04		#N/A		5.7E-05		
	Thallium	7440280	1.37	1.32	1.33	1.34	6.5E-05	--		#N/A		1.9E-06	3E-02	#N/A		6.8E-07			#N/A		1.9E-06	3E-02	#N/A		6.8E-07		
	Uranium	7440611	10.2	10.5	10.6	10.4	6.0E-04	--	(e)	#N/A		1.5E-05	3E-02	#N/A		5.4E-06			#N/A		1.5E-05	2E-02	#N/A		5.3E-06		
	Vanadium	7440622	23.0	21.0	18.0	20.7	7.0E-03	--		#N/A		2.6E-05	4E-03	#N/A		9.1E-06			#N/A		2.9E-05	4E-03	#N/A		1.0E-05		
	Zinc	7440666	233	143	120	165	3.0E-01	--		#N/A		2.0E-04	7E-04	#N/A		7.2E-05			#N/A		2.3E-04	8E-04	#N/A		8.4E-05		
									Total		**0E+00**		**2E-01**		**0E+00**		**4E-06**	**4E-06**		**0E+00**		**2E-01**		**0E+00**		**4E-06**	**4E-06**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:

(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Worker_Contact Intensive

Exposure Area: Dalles Orchard

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	#N/A	1.42E-06
Cancer:	#N/A	5.07E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	11,300	11,900	10,700	11,300	1.0E+00	--		#N/A		1.6E-02	2E-02	#N/A		5.7E-03			#N/A		1.7E-02	2E-02	#N/A		6.0E-03		
	Antimony	7440360	24.8	32.4	11.2	22.8	4.0E-04	--		#N/A		3.5E-05	9E-02	#N/A		1.3E-05			#N/A		4.6E-05	1E-01	#N/A		1.6E-05		
	Arsenic	7440382	18.1	22.5	13.7	18.1	2.4E-04	1.9E+00	(j)	#N/A		2.6E-05	1E-01	#N/A		9.2E-06	2E-05	2E-05	#N/A		3.2E-05	1E-01	#N/A		1.1E-05	2E-05	2E-05
	Barium	7440393	1,020	1,070	686	925	2.0E-01	--		#N/A		1.4E-03	7E-03	#N/A		5.2E-04			#N/A		1.5E-03	8E-03	#N/A		5.4E-04		
	Beryllium	7440417	0.84	0.88	0.77	0.83	2.0E-03	--		#N/A		1.2E-06	6E-04	#N/A		4.3E-07			#N/A		1.3E-06	6E-04	#N/A		4.5E-07		
	Cadmium	7440439	2.10	1.90	2.50	2.17	1.0E-03	--	(a)	#N/A		3.0E-06	3E-03	#N/A		1.1E-06			#N/A		2.7E-06	3E-03	#N/A		9.6E-07		
	Calcium	7440702	37,700	39,900	35,100	37,567	--	--		#N/A		5.4E-02		#N/A		1.9E-02			#N/A		5.7E-02		#N/A		2.0E-02		
	Chromium	7440473	71.9	77.6	51.3	66.9	1.5E+00	--	(b)	#N/A		1.0E-04	7E-05	#N/A		3.6E-05			#N/A		1.1E-04	7E-05	#N/A		3.9E-05		
	Cobalt	7440484	35.1	36.8	22.4	31.4	3.0E-04	--		#N/A		5.0E-05	2E-01	#N/A		1.8E-05			#N/A		5.2E-05	2E-01	#N/A		1.9E-05		
	Copper	7440508	1,300	1,380	802	1,161	4.0E-02	--		#N/A		1.8E-03	5E-02	#N/A		6.6E-04			#N/A		2.0E-03	5E-02	#N/A		7.0E-04		
	Iron	7439896	108,000	110,000	82,100	100,033	7.0E-01	--		#N/A		1.5E-01	2E-01	#N/A		5.5E-02			#N/A		1.6E-01	2E-01	#N/A		5.6E-02		
	Lead	7439921	205	190	214	203			(c)																		
	Magnesium	7439954	5,640	6,450	9,090	7,060	--	--		#N/A		8.0E-03		#N/A		2.9E-03			#N/A		9.2E-03		#N/A		3.3E-03		
	Manganese	7439965	2,110	2,200	1,660	1,990	4.7E-02	--	(d)	#N/A		3.0E-03	6E-02	#N/A		1.1E-03			#N/A		3.1E-03	7E-02	#N/A		1.1E-03		
	Mercury	7439976	0.034	0.044	0.073	0.050	3.0E-04	--	(i)	#N/A		4.8E-08	2E-04	#N/A		1.7E-08			#N/A		6.3E-08	2E-04	#N/A		2.2E-08		
	Nickel	7440020	10.4	12.1	10.4	11.0	2.0E-02	--		#N/A		1.5E-05	7E-04	#N/A		5.3E-06			#N/A		1.7E-05	9E-04	#N/A		6.1E-06		
	Potassium	7440097	2,270	2,300	2,030	2,200	--	--		#N/A		3.2E-03		#N/A		1.2E-03			#N/A		3.3E-03		#N/A		1.2E-03		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.50	0.49	0.50	0.50	5.0E-03	--		#N/A		7.1E-07	1E-04	#N/A		2.5E-07			#N/A		6.9E-07	1E-04	#N/A		2.5E-07		
	Sodium	7440235	1,200	1,300	811	1,104	--	--		#N/A		1.7E-03		#N/A		6.1E-04			#N/A		1.8E-03		#N/A		6.6E-04		
	Thallium	7440280	0.83	1.10	1.30	1.08	6.5E-05	--		#N/A		1.2E-06	2E-02	#N/A		4.2E-07			#N/A		1.6E-06	2E-02	#N/A		5.6E-07		
	Uranium	7440611	10.2	9.7	10.5	10.1	6.0E-04	--	(e)	#N/A		1.4E-05	2E-02	#N/A		5.2E-06			#N/A		1.4E-05	2E-02	#N/A		4.9E-06		
	Vanadium	7440622	28.2	29.2	27.2	28.2	7.0E-03	--		#N/A		4.0E-05	6E-03	#N/A		1.4E-05			#N/A		4.1E-05	6E-03	#N/A		1.5E-05		
	Zinc	7440666	8,700	8,410	6,560	7,890	3.0E-01	--		#N/A		1.2E-02	4E-02	#N/A		4.4E-03			#N/A		1.2E-02	4E-02	#N/A		4.3E-03		
									Total		**0E+00**		**8E-01**		**0E+00**		**2E-05**	**2E-05**		**0E+00**		**9E-01**		**0E+00**		**2E-05**	**2E-05**
										Total HQ or Risks > LOPC?:			**Yes**						**Total HQ or Risks > LOPC?:**			**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Worker_Contact Intensive

Exposure Area: Dalles Orchard

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	#N/A	1.42E-06
Cancer:	#N/A	5.07E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	11,300	11,900	10,700	11,300	1.0E+00	--		#N/A		1.5E-02	2E-02	#N/A		5.4E-03			#N/A		1.6E-02	2E-02	#N/A		5.7E-03		
	Antimony	7440360	24.8	32.4	11.2	22.8	4.0E-04	--		#N/A		1.6E-05	4E-02	#N/A		5.7E-06			#N/A		3.2E-05	8E-02	#N/A		1.2E-05		
	Arsenic	7440382	18.1	22.5	13.7	18.1	2.4E-04	1.9E+00	(j)	#N/A		1.9E-05	8E-02	#N/A		7.0E-06	1E-05	1E-05	#N/A		2.6E-05	1E-01	#N/A		9.2E-06	2E-05	2E-05
	Barium	7440393	1,020	1,070	686	925	2.0E-01	--		#N/A		9.7E-04	5E-03	#N/A		3.5E-04			#N/A		1.3E-03	7E-03	#N/A		4.7E-04		
	Beryllium	7440417	0.84	0.88	0.77	0.83	2.0E-03	--		#N/A		1.1E-06	5E-04	#N/A		3.9E-07			#N/A		1.2E-06	6E-04	#N/A		4.2E-07		
	Cadmium	7440439	2.10	1.90	2.50	2.17	1.0E-03	--	(a)	#N/A		3.6E-06	4E-03	#N/A		1.3E-06			#N/A		3.1E-06	3E-03	#N/A		1.1E-06		
	Calcium	7440702	37,700	39,900	35,100	37,567	--	--		#N/A		5.0E-02		#N/A		1.8E-02			#N/A		5.3E-02		#N/A		1.9E-02		
	Chromium	7440473	71.9	77.6	51.3	66.9	1.5E+00	--	(b)	#N/A		7.3E-05	5E-05	#N/A		2.6E-05			#N/A		9.5E-05	6E-05	#N/A		3.4E-05		
	Cobalt	7440484	35.1	36.8	22.4	31.4	3.0E-04	--		#N/A		3.2E-05	1E-01	#N/A		1.1E-05			#N/A		4.5E-05	1E-01	#N/A		1.6E-05		
	Copper	7440508	1,300	1,380	802	1,161	4.0E-02	--		#N/A		1.1E-03	3E-02	#N/A		4.1E-04			#N/A		1.6E-03	4E-02	#N/A		5.9E-04		
	Iron	7439896	108,000	110,000	82,100	100,033	7.0E-01	--		#N/A		1.2E-01	2E-01	#N/A		4.2E-02			#N/A		1.4E-01	2E-01	#N/A		5.1E-02		
	Lead	7439921	205	190	214	203			(c)																		
	Magnesium	7439954	5,640	6,450	9,090	7,060	--	--		#N/A		1.3E-02		#N/A		4.6E-03			#N/A		1.0E-02		#N/A		3.6E-03		
	Manganese	7439965	2,110	2,200	1,660	1,990	4.7E-02	--	(d)	#N/A		2.4E-03	5E-02	#N/A		8.4E-04			#N/A		2.8E-03	6E-02	#N/A		1.0E-03		
	Mercury	7439976	0.034	0.044	0.073	0.050	3.0E-04	--	(i)	#N/A		1.0E-07	3E-04	#N/A		3.7E-08			#N/A		7.2E-08	2E-04	#N/A		2.6E-08		
	Nickel	7440020	10.4	12.1	10.4	11.0	2.0E-02	--		#N/A		1.5E-05	7E-04	#N/A		5.3E-06			#N/A		1.6E-05	8E-04	#N/A		5.6E-06		
	Potassium	7440097	2,270	2,300	2,030	2,200	--	--		#N/A		2.9E-03		#N/A		1.0E-03			#N/A		3.1E-03		#N/A		1.1E-03		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.50	0.49	0.50	0.50	5.0E-03	--		#N/A		7.1E-07	1E-04	#N/A		2.5E-07			#N/A		7.0E-07	1E-04	#N/A		2.5E-07		
	Sodium	7440235	1,200	1,300	811	1,104	--	--		#N/A		1.2E-03		#N/A		4.1E-04			#N/A		1.6E-03		#N/A		5.6E-04		
	Thallium	7440280	0.83	1.10	1.30	1.08	6.5E-05	--		#N/A		1.8E-06	3E-02	#N/A		6.6E-07			#N/A		1.5E-06	2E-02	#N/A		5.5E-07		
	Uranium	7440611	10.2	9.7	10.5	10.1	6.0E-04	--	(e)	#N/A		1.5E-05	2E-02	#N/A		5.3E-06			#N/A		1.4E-05	2E-02	#N/A		5.1E-06		
	Vanadium	7440622	28.2	29.2	27.2	28.2	7.0E-03	--		#N/A		3.9E-05	6E-03	#N/A		1.4E-05			#N/A		4.0E-05	6E-03	#N/A		1.4E-05		
	Zinc	7440666	8,700	8,410	6,560	7,890	3.0E-01	--		#N/A		1.2E-02	4E-02	#N/A		4.3E-03			#N/A		1.1E-02	4E-02	#N/A		4.0E-03		
									Total		**0E+00**		**6E-01**		**0E+00**		**1E-05**	**1E-05**		**0E+00**		**8E-01**		**0E+00**		**2E-05**	**2E-05**
										Total HQ or Risks > LOPC?:			**Yes**						**Total HQ or Risks > LOPC?:**			**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:

(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Worker_Contact Intensive

Exposure Area: French Rocks Boat Launch

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	#N/A	1.42E-06
Cancer:	#N/A	5.07E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	6,370	6,050	6,550	6,323	1.0E+00	--		#N/A		9.1E-03	9E-03	#N/A		3.2E-03			#N/A		8.6E-03	9E-03	#N/A		3.1E-03		
	Antimony	7440360	1.0	1.0	0.4	0.8	4.0E-04	--		#N/A		1.3E-06	3E-03	#N/A		4.8E-07			#N/A		1.4E-06	4E-03	#N/A		5.1E-07		
	Arsenic	7440382	2.6	2.4	2.4	2.5	2.4E-04	1.9E+00	(j)	#N/A		3.7E-06	2E-02	#N/A		1.3E-06	2E-06	2E-06	#N/A		3.4E-06	1E-02	#N/A		1.2E-06	2E-06	2E-06
	Barium	7440393	56	58	62	59	2.0E-01	--		#N/A		8.0E-05	4E-04	#N/A		2.9E-05			#N/A		8.2E-05	4E-04	#N/A		2.9E-05		
	Beryllium	7440417	0.52	0.51	0.46	0.50	2.0E-03	--		#N/A		7.4E-07	4E-04	#N/A		2.6E-07			#N/A		7.2E-07	4E-04	#N/A		2.6E-07		
	Cadmium	7440439	0.45	0.33	0.51	0.43	1.0E-03	--	(a)	#N/A		6.4E-07	6E-04	#N/A		2.3E-07			#N/A		4.7E-07	5E-04	#N/A		1.7E-07		
	Calcium	7440702	3,050	2,430	4,830	3,437	--	--		#N/A		4.3E-03		#N/A		1.5E-03			#N/A		3.5E-03		#N/A		1.2E-03		
	Chromium	7440473	12.7	12.4	12.8	12.6	1.5E+00	--	(b)	#N/A		1.8E-05	1E-05	#N/A		6.4E-06			#N/A		1.8E-05	1E-05	#N/A		6.3E-06		
	Cobalt	7440484	4.9	4.3	4.5	4.6	3.0E-04	--		#N/A		7.0E-06	2E-02	#N/A		2.5E-06			#N/A		6.1E-06	2E-02	#N/A		2.2E-06		
	Copper	7440508	14	15	11	13	4.0E-02	--		#N/A		2.0E-05	5E-04	#N/A		7.0E-06			#N/A		2.1E-05	5E-04	#N/A		7.4E-06		
	Iron	7439896	12,000	9,960	11,000	10,987	7.0E-01	--		#N/A		1.7E-02	2E-02	#N/A		6.1E-03			#N/A		1.4E-02	2E-02	#N/A		5.1E-03		
	Lead	7439921	22	19	21	20			(c)																		
	Magnesium	7439954	3,980	2,770	4,590	3,780	--	--		#N/A		5.7E-03		#N/A		2.0E-03			#N/A		3.9E-03		#N/A		1.4E-03		
	Manganese	7439965	260	171	208	213	4.7E-02	--	(d)	#N/A		3.7E-04	8E-03	#N/A		1.3E-04			#N/A		2.4E-04	5E-03	#N/A		8.7E-05		
	Mercury	7439976	0.030	0.019	0.050	0.033	3.0E-04	--	(i)	#N/A		4.3E-08	1E-04	#N/A		1.5E-08			#N/A		2.7E-08	9E-05	#N/A		9.6E-09		
	Nickel	7440020	10.9	9.6	15.0	11.8	2.0E-02	--		#N/A		1.5E-05	8E-04	#N/A		5.5E-06			#N/A		1.4E-05	7E-04	#N/A		4.9E-06		
	Potassium	7440097	775	843	749	789	--	--		#N/A		1.1E-03		#N/A		3.9E-04			#N/A		1.2E-03		#N/A		4.3E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.55	0.50	0.45	0.50	5.0E-03	--		#N/A		7.8E-07	2E-04	#N/A		2.8E-07			#N/A		7.1E-07	1E-04	#N/A		2.5E-07		
	Sodium	7440235	155	131	134	140	--	--		#N/A		2.2E-04		#N/A		7.9E-05			#N/A		1.9E-04		#N/A		6.6E-05		
	Thallium	7440280	1.40	1.30	1.10	1.27	6.5E-05	--		#N/A		2.0E-06	3E-02	#N/A		7.1E-07			#N/A		1.8E-06	3E-02	#N/A		6.6E-07		
	Uranium	7440611	11.1	8.4	8.9	9.4	6.0E-04	--	(e)	#N/A		1.6E-05	3E-02	#N/A		5.6E-06			#N/A		1.2E-05	2E-02	#N/A		4.3E-06		
	Vanadium	7440622	21.7	19.6	21.9	21.1	7.0E-03	--		#N/A		3.1E-05	4E-03	#N/A		1.1E-05			#N/A		2.8E-05	4E-03	#N/A		9.9E-06		
	Zinc	7440666	97	67	92	85	3.0E-01	--		#N/A		1.4E-04	5E-04	#N/A		4.9E-05			#N/A		9.5E-05	3E-04	#N/A		3.4E-05		
									Total		**0E+00**		**1E-01**		**0E+00**		**2E-06**	**2E-06**		**0E+00**		**1E-01**		**0E+00**		**2E-06**	**2E-06**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:

(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Worker_Contact Intensive

Exposure Area: French Rocks Boat Launch

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	#N/A	1.42E-06
Cancer:	#N/A	5.07E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	6,370	6,050	6,550	6,323	1.0E+00	--		#N/A		9.3E-03	9E-03	#N/A		3.3E-03			#N/A		9.0E-03	9E-03	#N/A		3.2E-03		
	Antimony	7440360	1.0	1.0	0.4	0.8	4.0E-04	--		#N/A		6.0E-07	1E-03	#N/A		2.1E-07			#N/A		1.1E-06	3E-03	#N/A		4.0E-07		
	Arsenic	7440382	2.6	2.4	2.4	2.5	2.4E-04	1.9E+00	(j)	#N/A		3.4E-06	1E-02	#N/A		1.2E-06	2E-06	2E-06	#N/A		3.5E-06	1E-02	#N/A		1.3E-06	2E-06	2E-06
	Barium	7440393	56	58	62	59	2.0E-01	--		#N/A		8.8E-05	4E-04	#N/A		3.1E-05			#N/A		8.3E-05	4E-04	#N/A		3.0E-05		
	Beryllium	7440417	0.52	0.51	0.46	0.50	2.0E-03	--		#N/A		6.5E-07	3E-04	#N/A		2.3E-07			#N/A		7.1E-07	4E-04	#N/A		2.5E-07		
	Cadmium	7440439	0.45	0.33	0.51	0.43	1.0E-03	--	(a)	#N/A		7.2E-07	7E-04	#N/A		2.6E-07			#N/A		6.1E-07	6E-04	#N/A		2.2E-07		
	Calcium	7440702	3,050	2,430	4,830	3,437	--	--		#N/A		6.9E-03		#N/A		2.5E-03			#N/A		4.9E-03		#N/A		1.7E-03		
	Chromium	7440473	12.7	12.4	12.8	12.6	1.5E+00	--	(b)	#N/A		1.8E-05	1E-05	#N/A		6.5E-06			#N/A		1.8E-05	1E-05	#N/A		6.4E-06		
	Cobalt	7440484	4.9	4.3	4.5	4.6	3.0E-04	--		#N/A		6.4E-06	2E-02	#N/A		2.3E-06			#N/A		6.5E-06	2E-02	#N/A		2.3E-06		
	Copper	7440508	14	15	11	13	4.0E-02	--		#N/A		1.5E-05	4E-04	#N/A		5.5E-06			#N/A		1.9E-05	5E-04	#N/A		6.6E-06		
	Iron	7439896	12,000	9,960	11,000	10,987	7.0E-01	--		#N/A		1.6E-02	2E-02	#N/A		5.6E-03			#N/A		1.6E-02	2E-02	#N/A		5.6E-03		
	Lead	7439921	22	19	21	20			(c)																		
	Magnesium	7439954	3,980	2,770	4,590	3,780	--	--		#N/A		6.5E-03		#N/A		2.3E-03			#N/A		5.4E-03		#N/A		1.9E-03		
	Manganese	7439965	260	171	208	213	4.7E-02	--	(d)	#N/A		3.0E-04	6E-03	#N/A		1.1E-04			#N/A		3.0E-04	6E-03	#N/A		1.1E-04		
	Mercury	7439976	0.030	0.019	0.050	0.033	3.0E-04	--	(i)	#N/A		7.0E-08	2E-04	#N/A		2.5E-08			#N/A		4.7E-08	2E-04	#N/A		1.7E-08		
	Nickel	7440020	10.9	9.6	15.0	11.8	2.0E-02	--		#N/A		2.1E-05	1E-03	#N/A		7.6E-06			#N/A		1.7E-05	8E-04	#N/A		6.0E-06		
	Potassium	7440097	775	843	749	789	--	--		#N/A		1.1E-03		#N/A		3.8E-04			#N/A		1.1E-03		#N/A		4.0E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.55	0.50	0.45	0.50	5.0E-03	--		#N/A		6.3E-07	1E-04	#N/A		2.3E-07			#N/A		7.1E-07	1E-04	#N/A		2.5E-07		
	Sodium	7440235	155	131	134	140	--	--		#N/A		1.9E-04		#N/A		6.8E-05			#N/A		2.0E-04		#N/A		7.1E-05		
	Thallium	7440280	1.40	1.30	1.10	1.27	6.5E-05	--		#N/A		1.6E-06	2E-02	#N/A		5.6E-07			#N/A		1.8E-06	3E-02	#N/A		6.4E-07		
	Uranium	7440611	11.1	8.4	8.9	9.4	6.0E-04	--	(e)	#N/A		1.3E-05	2E-02	#N/A		4.5E-06			#N/A		1.3E-05	2E-02	#N/A		4.8E-06		
	Vanadium	7440622	21.7	19.6	21.9	21.1	7.0E-03	--		#N/A		3.1E-05	4E-03	#N/A		1.1E-05			#N/A		3.0E-05	4E-03	#N/A		1.1E-05		
	Zinc	7440666	97	67	92	85	3.0E-01	--		#N/A		9.5E-05	3E-04	#N/A		3.4E-05			#N/A		1.2E-04	4E-04	#N/A		4.3E-05		
									Total		**0E+00**		**1E-01**		**0E+00**		**2E-06**	**2E-06**		**0E+00**		**1E-01**		**0E+00**		**2E-06**	**2E-06**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Worker_Contact Intensive

Exposure Area: Haag Cove

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	#N/A	1.42E-06
Cancer:	#N/A	5.07E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER										MIDDLE								
										Non-Cancer				Cancer						Non-Cancer				Cancer				
										Child		Adult		Child		Adult				Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	13,000	7,660	3,000	7,887	1.0E+00	--		#N/A		1.8E-02	2E-02	#N/A		6.6E-03				#N/A		1.1E-02	1E-02	#N/A		3.9E-03		
	Antimony	7440360	1.8	1.8	0.3	1.3	4.0E-04	--		#N/A		2.6E-06	6E-03	#N/A		9.1E-07				#N/A		2.6E-06	6E-03	#N/A		9.1E-07		
	Arsenic	7440382	2.3	1.4	1.0	1.6	2.4E-04	1.9E+00	(j)	#N/A		3.3E-06	1E-02	#N/A		1.2E-06	2E-06	2E-06		#N/A		2.0E-06	8E-03	#N/A		7.1E-07	1E-06	1E-06
	Barium	7440393	232	102	30	121	2.0E-01	--		#N/A		3.3E-04	2E-03	#N/A		1.2E-04				#N/A		1.4E-04	7E-04	#N/A		5.2E-05		
	Beryllium	7440417	1.20	0.69	0.28	0.72	2.0E-03	--		#N/A		1.7E-06	9E-04	#N/A		6.1E-07				#N/A		9.8E-07	5E-04	#N/A		3.5E-07		
	Cadmium	7440439	7.80	4.40	0.32	4.17	1.0E-03	--	(a)	#N/A		1.1E-05	1E-02	#N/A		4.0E-06				#N/A		6.3E-06	6E-03	#N/A		2.2E-06		
	Calcium	7440702	5,670	2,550	879	3,033	--	--		#N/A		8.1E-03		#N/A		2.9E-03				#N/A		3.6E-03		#N/A		1.3E-03		
	Chromium	7440473	24.8	14.6	5.6	15.0	1.5E+00	--	(b)	#N/A		3.5E-05	2E-05	#N/A		1.3E-05				#N/A		2.1E-05	1E-05	#N/A		7.4E-06		
	Cobalt	7440484	8.7	5.2	2.3	5.4	3.0E-04	--		#N/A		1.2E-05	4E-02	#N/A		4.4E-06				#N/A		7.4E-06	2E-02	#N/A		2.6E-06		
	Copper	7440508	34	17	4	18	4.0E-02	--		#N/A		4.8E-05	1E-03	#N/A		1.7E-05				#N/A		2.3E-05	6E-04	#N/A		8.4E-06		
	Iron	7439896	18,100	11,800	5,180	11,693	7.0E-01	--		#N/A		2.6E-02	4E-02	#N/A		9.2E-03				#N/A		1.7E-02	2E-02	#N/A		6.0E-03		
	Lead	7439921	222	136	17	125			(c)																			
	Magnesium	7439954	5,220	3,210	1,390	3,273	--	--		#N/A		7.4E-03		#N/A		2.6E-03				#N/A		4.6E-03		#N/A		1.6E-03		
	Manganese	7439965	267	158	111	179	4.7E-02	--	(d)	#N/A		3.8E-04	8E-03	#N/A		1.4E-04				#N/A		2.2E-04	5E-03	#N/A		8.0E-05		
	Mercury	7439976	0.800	0.290	0.050	0.380	3.0E-04	--	(i)	#N/A		1.1E-06	4E-03	#N/A		4.1E-07				#N/A		4.1E-07	1E-03	#N/A		1.5E-07		
	Nickel	7440020	19.7	11.2	4.1	11.7	2.0E-02	--		#N/A		2.8E-05	1E-03	#N/A		1.0E-05				#N/A		1.6E-05	8E-04	#N/A		5.7E-06		
	Potassium	7440097	2,260	1,120	483	1,288	--	--		#N/A		3.2E-03		#N/A		1.1E-03				#N/A		1.6E-03		#N/A		5.7E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A				#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.75	0.60	0.43	0.59	5.0E-03	--		#N/A		1.1E-06	2E-04	#N/A		3.8E-07				#N/A		8.5E-07	2E-04	#N/A		3.0E-07		
	Sodium	7440235	242	125	60	142	--	--		#N/A		3.4E-04		#N/A		1.2E-04				#N/A		1.8E-04		#N/A		6.3E-05		
	Thallium	7440280	1.90	1.45	1.10	1.48	6.5E-05	--		#N/A		2.7E-06	4E-02	#N/A		9.6E-07				#N/A		2.1E-06	3E-02	#N/A		7.4E-07		
	Uranium	7440611	15.1	11.6	8.7	11.8	6.0E-04	--	(e)	#N/A		2.1E-05	4E-02	#N/A		7.7E-06				#N/A		1.6E-05	3E-02	#N/A		5.9E-06		
	Vanadium	7440622	29.0	19.8	9.1	19.3	7.0E-03	--		#N/A		4.1E-05	6E-03	#N/A		1.5E-05				#N/A		2.8E-05	4E-03	#N/A		1.0E-05		
	Zinc	7440666	700	391	54	382	3.0E-01	--		#N/A		9.9E-04	3E-03	#N/A		3.6E-04				#N/A		5.6E-04	2E-03	#N/A		2.0E-04		
									Total		**0E+00**		**2E-01**		**0E+00**		**2E-06**	**2E-06**			**0E+00**		**2E-01**		**0E+00**		**1E-06**	**1E-06**
										Total HQ or Risks > LOPC?:				**Yes**						**Total HQ or Risks > LOPC?:**				**Yes**			

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Worker_Contact Intensive

Exposure Area: Haag Cove

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	#N/A	1.42E-06
Cancer:	#N/A	5.07E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	13,000	7,660	3,000	7,887	1.0E+00	--		#N/A		4.3E-03	4E-03	#N/A		1.5E-03			#N/A		1.1E-02	1E-02	#N/A		4.0E-03		
	Antimony	7440360	1.8	1.8	0.3	1.3	4.0E-04	--		#N/A		4.1E-07	1E-03	#N/A		1.5E-07			#N/A		1.8E-06	5E-03	#N/A		6.6E-07		
	Arsenic	7440382	2.3	1.4	1.0	1.6	2.4E-04	1.9E+00	(j)	#N/A		1.4E-06	6E-03	#N/A		5.1E-07	1E-06	1E-06	#N/A		2.2E-06	9E-03	#N/A		7.9E-07	1E-06	1E-06
	Barium	7440393	232	102	30	121	2.0E-01	--		#N/A		4.2E-05	2E-04	#N/A		1.5E-05			#N/A		1.7E-04	9E-04	#N/A		6.2E-05		
	Beryllium	7440417	1.20	0.69	0.28	0.72	2.0E-03	--		#N/A		4.0E-07	2E-04	#N/A		1.4E-07			#N/A		1.0E-06	5E-04	#N/A		3.7E-07		
	Cadmium	7440439	7.80	4.40	0.32	4.17	1.0E-03	--	(a)	#N/A		4.5E-07	5E-04	#N/A		1.6E-07			#N/A		5.9E-06	6E-03	#N/A		2.1E-06		
	Calcium	7440702	5,670	2,550	879	3,033	--	--		#N/A		1.2E-03		#N/A		4.5E-04			#N/A		4.3E-03		#N/A		1.5E-03		
	Chromium	7440473	24.8	14.6	5.6	15.0	1.5E+00	--	(b)	#N/A		8.0E-06	5E-06	#N/A		2.8E-06			#N/A		2.1E-05	1E-05	#N/A		7.6E-06		
	Cobalt	7440484	8.7	5.2	2.3	5.4	3.0E-04	--		#N/A		3.3E-06	1E-02	#N/A		1.2E-06			#N/A		7.7E-06	3E-02	#N/A		2.7E-06		
	Copper	7440508	34	17	4	18	4.0E-02	--		#N/A		6.0E-06	1E-04	#N/A		2.1E-06			#N/A		2.6E-05	6E-04	#N/A		9.3E-06		
	Iron	7439896	18,100	11,800	5,180	11,693	7.0E-01	--		#N/A		7.4E-03	1E-02	#N/A		2.6E-03			#N/A		1.7E-02	2E-02	#N/A		5.9E-03		
	Lead	7439921	222	136	17	125			(c)																		
	Magnesium	7439954	5,220	3,210	1,390	3,273	--	--		#N/A		2.0E-03		#N/A		7.1E-04			#N/A		4.7E-03		#N/A		1.7E-03		
	Manganese	7439965	267	158	111	179	4.7E-02	--	(d)	#N/A		1.6E-04	3E-03	#N/A		5.6E-05			#N/A		2.5E-04	5E-03	#N/A		9.1E-05		
	Mercury	7439976	0.800	0.290	0.050	0.380	3.0E-04	--	(i)	#N/A		7.0E-08	2E-04	#N/A		2.5E-08			#N/A		5.4E-07	2E-03	#N/A		1.9E-07		
	Nickel	7440020	19.7	11.2	4.1	11.7	2.0E-02	--		#N/A		5.8E-06	3E-04	#N/A		2.1E-06			#N/A		1.7E-05	8E-04	#N/A		5.9E-06		
	Potassium	7440097	2,260	1,120	483	1,288	--	--		#N/A		6.9E-04		#N/A		2.5E-04			#N/A		1.8E-03		#N/A		6.5E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.75	0.60	0.43	0.59	5.0E-03	--		#N/A		6.1E-07	1E-04	#N/A		2.2E-07			#N/A		8.4E-07	2E-04	#N/A		3.0E-07		
	Sodium	7440235	242	125	60	142	--	--		#N/A		8.6E-05		#N/A		3.1E-05			#N/A		2.0E-04		#N/A		7.2E-05		
	Thallium	7440280	1.90	1.45	1.10	1.48	6.5E-05	--		#N/A		1.6E-06	2E-02	#N/A		5.6E-07			#N/A		2.1E-06	3E-02	#N/A		7.5E-07		
	Uranium	7440611	15.1	11.6	8.7	11.8	6.0E-04	--	(e)	#N/A		1.2E-05	2E-02	#N/A		4.4E-06			#N/A		1.7E-05	3E-02	#N/A		6.0E-06		
	Vanadium	7440622	29.0	19.8	9.1	19.3	7.0E-03	--		#N/A		1.3E-05	2E-03	#N/A		4.6E-06			#N/A		2.7E-05	4E-03	#N/A		9.8E-06		
	Zinc	7440666	700	391	54	382	3.0E-01	--		#N/A		5.6E-04	2E-03	#N/A		2.0E-04			#N/A		5.4E-04	2E-03	#N/A		1.9E-04		
									Total		**0E+00**		**9E-02**		**0E+00**		**1E-06**	**1E-06**		**0E+00**		**2E-01**		**0E+00**		**1E-06**	**1E-06**
										Total HQ or Risks > LOPC?:		**No**							**Total HQ or Risks > LOPC?:**		**Yes**					

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:

(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Worker_Contact Intensive

Exposure Area: Keller Ferry No. 2

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	#N/A	1.42E-06
Cancer:	#N/A	5.07E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	8,620	8,030	6,270	7,640	1.0E+00	--		#N/A		1.2E-02	1E-02	#N/A		4.4E-03			#N/A		1.1E-02	1E-02	#N/A		4.1E-03		
	Antimony	7440360	#N/A	#N/A	#N/A	#N/A	4.0E-04	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Arsenic	7440382	4.7	4.9	4.0	4.5	2.4E-04	1.9E+00	(j)	#N/A		6.7E-06	3E-02	#N/A		2.4E-06	4E-06	4E-06	#N/A		7.0E-06	3E-02	#N/A		2.5E-06	5E-06	5E-06
	Barium	7440393	69	59	46	58	2.0E-01	--		#N/A		9.8E-05	5E-04	#N/A		3.5E-05			#N/A		8.3E-05	4E-04	#N/A		3.0E-05		
	Beryllium	7440417	0.74	0.68	0.51	0.64	2.0E-03	--		#N/A		1.1E-06	5E-04	#N/A		3.8E-07			#N/A		9.7E-07	5E-04	#N/A		3.5E-07		
	Cadmium	7440439	0.25	0.24	0.25	0.25	1.0E-03	--	(a)	#N/A		3.6E-07	4E-04	#N/A		1.3E-07			#N/A		3.4E-07	3E-04	#N/A		1.2E-07		
	Calcium	7440702	1,940	1,760	3,880	2,527	--	--		#N/A		2.8E-03		#N/A		9.8E-04			#N/A		2.5E-03		#N/A		8.9E-04		
	Chromium	7440473	12.5	11.2	9.8	11.2	1.5E+00	--	(b)	#N/A		1.8E-05	1E-05	#N/A		6.3E-06			#N/A		1.6E-05	1E-05	#N/A		5.7E-06		
	Cobalt	7440484	5.4	5.0	3.9	4.8	3.0E-04	--		#N/A		7.7E-06	3E-02	#N/A		2.7E-06			#N/A		7.1E-06	2E-02	#N/A		2.5E-06		
	Copper	7440508	9	9	7	8	4.0E-02	--		#N/A		1.3E-05	3E-04	#N/A		4.6E-06			#N/A		1.2E-05	3E-04	#N/A		4.4E-06		
	Iron	7439896	15,600	15,500	13,100	14,733	7.0E-01	--		#N/A		2.2E-02	3E-02	#N/A		7.9E-03			#N/A		2.2E-02	3E-02	#N/A		7.9E-03		
	Lead	7439921	6	6	5	6			(c)																		
	Magnesium	7439954	4,210	4,390	4,330	4,310	--	--		#N/A		6.0E-03		#N/A		2.1E-03			#N/A		6.2E-03		#N/A		2.2E-03		
	Manganese	7439965	248	230	214	231	4.7E-02	--	(d)	#N/A		3.5E-04	8E-03	#N/A		1.3E-04			#N/A		3.3E-04	7E-03	#N/A		1.2E-04		
	Mercury	7439976	0.055	0.055	0.055	0.055	3.0E-04	--	(i)	#N/A		7.8E-08	3E-04	#N/A		2.8E-08			#N/A		7.8E-08	3E-04	#N/A		2.8E-08		
	Nickel	7440020	10.1	9.4	8.5	9.3	2.0E-02	--		#N/A		1.4E-05	7E-04	#N/A		5.1E-06			#N/A		1.3E-05	7E-04	#N/A		4.8E-06		
	Potassium	7440097	1,640	1,410	1,080	1,377	--	--		#N/A		2.3E-03		#N/A		8.3E-04			#N/A		2.0E-03		#N/A		7.2E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.50	0.48	0.50	0.49	5.0E-03	--		#N/A		7.1E-07	1E-04	#N/A		2.5E-07			#N/A		6.8E-07	1E-04	#N/A		2.4E-07		
	Sodium	7440235	75	58	49	61	--	--		#N/A		1.1E-04		#N/A		3.8E-05			#N/A		8.2E-05		#N/A		2.9E-05		
	Thallium	7440280	1.25	1.20	1.25	1.23	6.5E-05	--		#N/A		1.8E-06	3E-02	#N/A		6.3E-07			#N/A		1.7E-06	3E-02	#N/A		6.1E-07		
	Uranium	7440611	5.4	4.6	10.1	6.7	6.0E-04	--	(e)	#N/A		7.7E-06	1E-02	#N/A		2.7E-06			#N/A		6.5E-06	1E-02	#N/A		2.3E-06		
	Vanadium	7440622	19.5	17.2	14.0	16.9	7.0E-03	--		#N/A		2.8E-05	4E-03	#N/A		9.9E-06			#N/A		2.4E-05	3E-03	#N/A		8.7E-06		
	Zinc	7440666	39	44	37	40	3.0E-01	--		#N/A		5.6E-05	2E-04	#N/A		2.0E-05			#N/A		6.3E-05	2E-04	#N/A		2.2E-05		
									Total		**0E+00**		**2E-01**		**0E+00**		**4E-06**	**4E-06**		**0E+00**		**1E-01**		**0E+00**		**5E-06**	**5E-06**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**			

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Worker_Contact Intensive

Exposure Area: Keller Ferry No. 2

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	#N/A	1.42E-06
Cancer:	#N/A	5.07E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	8,620	8,030	6,270	7,640	1.0E+00	--		#N/A		8.9E-03	9E-03	#N/A		3.2E-03			#N/A		1.1E-02	1E-02	#N/A		3.9E-03		
	Antimony	7440360	#N/A	#N/A	#N/A	#N/A	4.0E-04	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Arsenic	7440382	4.7	4.9	4.0	4.5	2.4E-04	1.9E+00	(j)	#N/A		5.7E-06	2E-02	#N/A		2.0E-06	4E-06	4E-06	#N/A		6.4E-06	3E-02	#N/A		2.3E-06	4E-06	4E-06
	Barium	7440393	69	59	46	58	2.0E-01	--		#N/A		6.5E-05	3E-04	#N/A		2.3E-05			#N/A		8.2E-05	4E-04	#N/A		2.9E-05		
	Beryllium	7440417	0.74	0.68	0.51	0.64	2.0E-03	--		#N/A		7.2E-07	4E-04	#N/A		2.6E-07			#N/A		9.1E-07	5E-04	#N/A		3.3E-07		
	Cadmium	7440439	0.25	0.24	0.25	0.25	1.0E-03	--	(a)	#N/A		3.6E-07	4E-04	#N/A		1.3E-07			#N/A		3.5E-07	4E-04	#N/A		1.3E-07		
	Calcium	7440702	1,940	1,760	3,880	2,527	--	--		#N/A		5.5E-03		#N/A		2.0E-03			#N/A		3.6E-03		#N/A		1.3E-03		
	Chromium	7440473	12.5	11.2	9.8	11.2	1.5E+00	--	(b)	#N/A		1.4E-05	9E-06	#N/A		5.0E-06			#N/A		1.6E-05	1E-05	#N/A		5.7E-06		
	Cobalt	7440484	5.4	5.0	3.9	4.8	3.0E-04	--		#N/A		5.5E-06	2E-02	#N/A		2.0E-06			#N/A		6.8E-06	2E-02	#N/A		2.4E-06		
	Copper	7440508	9	9	7	8	4.0E-02	--		#N/A		9.5E-06	2E-04	#N/A		3.4E-06			#N/A		1.2E-05	3E-04	#N/A		4.1E-06		
	Iron	7439896	15,600	15,500	13,100	14,733	7.0E-01	--		#N/A		1.9E-02	3E-02	#N/A		6.6E-03			#N/A		2.1E-02	3E-02	#N/A		7.5E-03		
	Lead	7439921	6	6	5	6			(c)																		
	Magnesium	7439954	4,210	4,390	4,330	4,310	--	--		#N/A		6.2E-03		#N/A		2.2E-03			#N/A		6.1E-03		#N/A		2.2E-03		
	Manganese	7439965	248	230	214	231	4.7E-02	--	(d)	#N/A		3.0E-04	7E-03	#N/A		1.1E-04			#N/A		3.3E-04	7E-03	#N/A		1.2E-04		
	Mercury	7439976	0.055	0.055	0.055	0.055	3.0E-04	--	(i)	#N/A		7.8E-08	3E-04	#N/A		2.8E-08			#N/A		7.8E-08	3E-04	#N/A		2.8E-08		
	Nickel	7440020	10.1	9.4	8.5	9.3	2.0E-02	--		#N/A		1.2E-05	6E-04	#N/A		4.3E-06			#N/A		1.3E-05	7E-04	#N/A		4.7E-06		
	Potassium	7440097	1,640	1,410	1,080	1,377	--	--		#N/A		1.5E-03		#N/A		5.5E-04			#N/A		2.0E-03		#N/A		7.0E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.50	0.48	0.50	0.49	5.0E-03	--		#N/A		7.1E-07	1E-04	#N/A		2.5E-07			#N/A		7.0E-07	1E-04	#N/A		2.5E-07		
	Sodium	7440235	75	58	49	61	--	--		#N/A		7.0E-05		#N/A		2.5E-05			#N/A		8.6E-05		#N/A		3.1E-05		
	Thallium	7440280	1.25	1.20	1.25	1.23	6.5E-05	--		#N/A		1.8E-06	3E-02	#N/A		6.3E-07			#N/A		1.8E-06	3E-02	#N/A		6.3E-07		
	Uranium	7440611	5.4	4.6	10.1	6.7	6.0E-04	--	(e)	#N/A		1.4E-05	2E-02	#N/A		5.1E-06			#N/A		9.5E-06	2E-02	#N/A		3.4E-06		
	Vanadium	7440622	19.5	17.2	14.0	16.9	7.0E-03	--		#N/A		2.0E-05	3E-03	#N/A		7.1E-06			#N/A		2.4E-05	3E-03	#N/A		8.6E-06		
	Zinc	7440666	39	44	37	40	3.0E-01	--		#N/A		6.3E-05	2E-04	#N/A		2.2E-05			#N/A		5.7E-05	2E-04	#N/A		2.0E-05		
									Total		**0E+00**		**1E-01**		**0E+00**		**4E-06**	**4E-06**		**0E+00**		**1E-01**		**0E+00**		**4E-06**	**4E-06**
										Total HQ or Risks > LOPC?:			**Yes**						**Total HQ or Risks > LOPC?:**			**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:

(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Worker_Contact Intensive

Exposure Area: Kettle Falls Swim Beach

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	#N/A	1.42E-06
Cancer:	#N/A	5.07E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER										MIDDLE								
										Non-Cancer				Cancer						Non-Cancer				Cancer				
										Child		Adult		Child		Adult				Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	10,277	5,137	4,900	6,771	1.0E+00	--		#N/A		1.5E-02	1E-02	#N/A		5.2E-03				#N/A		7.3E-03	7E-03	#N/A		2.6E-03		
	Antimony	7440360	0.7	1.5	1.2	1.1	4.0E-04	--		#N/A		9.8E-07	2E-03	#N/A		3.5E-07				#N/A		2.1E-06	5E-03	#N/A		7.5E-07		
	Arsenic	7440382	1.9	1.3	1.6	1.6	2.4E-04	1.9E+00	(j)	#N/A		2.7E-06	1E-02	#N/A		9.5E-07	2E-06	2E-06		#N/A		1.8E-06	7E-03	#N/A		6.4E-07	1E-06	1E-06
	Barium	7440393	104	40	43	62	2.0E-01	--		#N/A		1.5E-04	7E-04	#N/A		5.3E-05				#N/A		5.6E-05	3E-04	#N/A		2.0E-05		
	Beryllium	7440417	0.86	0.37	0.33	0.52	2.0E-03	--		#N/A		1.2E-06	6E-04	#N/A		4.4E-07				#N/A		5.3E-07	3E-04	#N/A		1.9E-07		
	Cadmium	7440439	0.26	0.16	0.15	0.19	1.0E-03	--	(a)	#N/A		3.6E-07	4E-04	#N/A		1.3E-07				#N/A		2.3E-07	2E-04	#N/A		8.3E-08		
	Calcium	7440702	8,840	2,470	2,023	4,444	--	--		#N/A		1.3E-02		#N/A		4.5E-03				#N/A		3.5E-03		#N/A		1.3E-03		
	Chromium	7440473	22.9	9.8	9.8	14.2	1.5E+00	--	(b)	#N/A		3.3E-05	2E-05	#N/A		1.2E-05				#N/A		1.4E-05	9E-06	#N/A		5.0E-06		
	Cobalt	7440484	8.0	3.6	3.4	5.0	3.0E-04	--		#N/A		1.1E-05	4E-02	#N/A		4.1E-06				#N/A		5.1E-06	2E-02	#N/A		1.8E-06		
	Copper	7440508	18	10	10	12	4.0E-02	--		#N/A		2.5E-05	6E-04	#N/A		8.9E-06				#N/A		1.3E-05	3E-04	#N/A		4.8E-06		
	Iron	7439896	17,433	9,647	9,530	12,203	7.0E-01	--		#N/A		2.5E-02	4E-02	#N/A		8.8E-03				#N/A		1.4E-02	2E-02	#N/A		4.9E-03		
	Lead	7439921	9	6	5	7			(c)																			
	Magnesium	7439954	6,343	2,883	2,887	4,038	--	--		#N/A		9.0E-03		#N/A		3.2E-03				#N/A		4.1E-03		#N/A		1.5E-03		
	Manganese	7439965	381	151	177	236	4.7E-02	--	(d)	#N/A		5.4E-04	1E-02	#N/A		1.9E-04				#N/A		2.1E-04	5E-03	#N/A		7.7E-05		
	Mercury	7439976	0.006	0.052	0.053	0.037	3.0E-04	--	(i)	#N/A		8.4E-09	3E-05	#N/A		3.0E-09				#N/A		7.3E-08	2E-04	#N/A		2.6E-08		
	Nickel	7440020	18.7	7.8	7.8	11.4	2.0E-02	--		#N/A		2.7E-05	1E-03	#N/A		9.5E-06				#N/A		1.1E-05	6E-04	#N/A		3.9E-06		
	Potassium	7440097	1,804	624	555	995	--	--		#N/A		2.6E-03		#N/A		9.2E-04				#N/A		8.9E-04		#N/A		3.2E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A				#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.52	0.46	0.47	0.48	5.0E-03	--		#N/A		7.3E-07	1E-04	#N/A		2.6E-07				#N/A		6.5E-07	1E-04	#N/A		2.3E-07		
	Sodium	7440235	262	115	97	158	--	--		#N/A		3.7E-04		#N/A		1.3E-04				#N/A		1.6E-04		#N/A		5.8E-05		
	Thallium	7440280	1.30	1.13	1.17	1.20	6.5E-05	--		#N/A		1.8E-06	3E-02	#N/A		6.6E-07				#N/A		1.6E-06	2E-02	#N/A		5.8E-07		
	Uranium	7440611	10.4	9.0	9.3	9.6	6.0E-04	--	(e)	#N/A		1.5E-05	2E-02	#N/A		5.3E-06				#N/A		1.3E-05	2E-02	#N/A		4.5E-06		
	Vanadium	7440622	33.7	20.4	20.7	24.9	7.0E-03	--		#N/A		4.8E-05	7E-03	#N/A		1.7E-05				#N/A		2.9E-05	4E-03	#N/A		1.0E-05		
	Zinc	7440666	55	36	34	42	3.0E-01	--		#N/A		7.9E-05	3E-04	#N/A		2.8E-05				#N/A		5.1E-05	2E-04	#N/A		1.8E-05		
									Total		**0E+00**		**2E-01**		**0E+00**		**2E-06**	**2E-06**			**0E+00**		**1E-01**		**0E+00**		**1E-06**	**1E-06**
										Total HQ or Risks > LOPC?:			**Yes**							**Total HQ or Risks > LOPC?:**			**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Worker_Contact Intensive

Exposure Area: Kettle Falls Swim Beach

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	#N/A	1.42E-06
Cancer:	#N/A	5.07E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	10,277	5,137	4,900	6,771	1.0E+00	--		#N/A		7.0E-03	7E-03	#N/A		2.5E-03			#N/A		9.6E-03	1E-02	#N/A		3.4E-03		
	Antimony	7440360	0.7	1.5	1.2	1.1	4.0E-04	--		#N/A		1.7E-06	4E-03	#N/A		6.1E-07			#N/A		1.6E-06	4E-03	#N/A		5.7E-07		
	Arsenic	7440382	1.9	1.3	1.6	1.6	2.4E-04	1.9E+00	(j)	#N/A		2.2E-06	9E-03	#N/A		7.9E-07	1E-06	1E-06	#N/A		2.2E-06	9E-03	#N/A		7.9E-07	1E-06	1E-06
	Barium	7440393	104	40	43	62	2.0E-01	--		#N/A		6.1E-05	3E-04	#N/A		2.2E-05			#N/A		8.9E-05	4E-04	#N/A		3.2E-05		
	Beryllium	7440417	0.86	0.37	0.33	0.52	2.0E-03	--		#N/A		4.7E-07	2E-04	#N/A		1.7E-07			#N/A		7.4E-07	4E-04	#N/A		2.6E-07		
	Cadmium	7440439	0.26	0.16	0.15	0.19	1.0E-03	--	(a)	#N/A		2.1E-07	2E-04	#N/A		7.4E-08			#N/A		2.7E-07	3E-04	#N/A		9.6E-08		
	Calcium	7440702	8,840	2,470	2,023	4,444	--	--		#N/A		2.9E-03		#N/A		1.0E-03			#N/A		6.3E-03		#N/A		2.3E-03		
	Chromium	7440473	22.9	9.8	9.8	14.2	1.5E+00	--	(b)	#N/A		1.4E-05	9E-06	#N/A		5.0E-06			#N/A		2.0E-05	1E-05	#N/A		7.2E-06		
	Cobalt	7440484	8.0	3.6	3.4	5.0	3.0E-04	--		#N/A		4.8E-06	2E-02	#N/A		1.7E-06			#N/A		7.1E-06	2E-02	#N/A		2.5E-06		
	Copper	7440508	18	10	10	12	4.0E-02	--		#N/A		1.4E-05	4E-04	#N/A		5.1E-06			#N/A		1.8E-05	4E-04	#N/A		6.3E-06		
	Iron	7439896	17,433	9,647	9,530	12,203	7.0E-01	--		#N/A		1.4E-02	2E-02	#N/A		4.8E-03			#N/A		1.7E-02	2E-02	#N/A		6.2E-03		
	Lead	7439921	9	6	5	7			(c)																		
	Magnesium	7439954	6,343	2,883	2,887	4,038	--	--		#N/A		4.1E-03		#N/A		1.5E-03			#N/A		5.7E-03		#N/A		2.0E-03		
	Manganese	7439965	381	151	177	236	4.7E-02	--	(d)	#N/A		2.5E-04	5E-03	#N/A		9.0E-05			#N/A		3.4E-04	7E-03	#N/A		1.2E-04		
	Mercury	7439976	0.006	0.052	0.053	0.037	3.0E-04	--	(i)	#N/A		7.5E-08	3E-04	#N/A		2.7E-08			#N/A		5.2E-08	2E-04	#N/A		1.9E-08		
	Nickel	7440020	18.7	7.8	7.8	11.4	2.0E-02	--		#N/A		1.1E-05	6E-04	#N/A		3.9E-06			#N/A		1.6E-05	8E-04	#N/A		5.8E-06		
	Potassium	7440097	1,804	624	555	995	--	--		#N/A		7.9E-04		#N/A		2.8E-04			#N/A		1.4E-03		#N/A		5.0E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.52	0.46	0.47	0.48	5.0E-03	--		#N/A		6.6E-07	1E-04	#N/A		2.4E-07			#N/A		6.8E-07	1E-04	#N/A		2.4E-07		
	Sodium	7440235	262	115	97	158	--	--		#N/A		1.4E-04		#N/A		4.9E-05			#N/A		2.2E-04		#N/A		8.0E-05		
	Thallium	7440280	1.30	1.13	1.17	1.20	6.5E-05	--		#N/A		1.7E-06	3E-02	#N/A		5.9E-07			#N/A		1.7E-06	3E-02	#N/A		6.1E-07		
	Uranium	7440611	10.4	9.0	9.3	9.6	6.0E-04	--	(e)	#N/A		1.3E-05	2E-02	#N/A		4.7E-06			#N/A		1.4E-05	2E-02	#N/A		4.9E-06		
	Vanadium	7440622	33.7	20.4	20.7	24.9	7.0E-03	--		#N/A		2.9E-05	4E-03	#N/A		1.1E-05			#N/A		3.5E-05	5E-03	#N/A		1.3E-05		
	Zinc	7440666	55	36	34	42	3.0E-01	--		#N/A		5.1E-05	2E-04	#N/A		1.8E-05			#N/A		5.9E-05	2E-04	#N/A		2.1E-05		
									Total		**0E+00**		**1E-01**		**0E+00**		**1E-06**	**1E-06**		**0E+00**		**1E-01**		**0E+00**		**1E-06**	**1E-06**
										Total HQ or Risks > LOPC?:			**Yes**						**Total HQ or Risks > LOPC?:**			**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:

(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Worker_Contact Intensive

Exposure Area: Lincoln Mill Boat Ramp

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	#N/A	1.42E-06
Cancer:	#N/A	5.07E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER										MIDDLE								
										Non-Cancer				Cancer						Non-Cancer				Cancer				
										Child		Adult		Child		Adult				Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	5,070	6,900	7,160	6,377	1.0E+00	--		#N/A		7.2E-03	7E-03	#N/A		2.6E-03				#N/A		9.8E-03	1E-02	#N/A		3.5E-03		
	Antimony	7440360	#N/A	#N/A	#N/A	#N/A	4.0E-04	--		#N/A		#N/A		#N/A		#N/A				#N/A		#N/A		#N/A		#N/A		
	Arsenic	7440382	5.9	6.7	5.9	6.2	2.4E-04	1.9E+00	(j)	#N/A		8.4E-06	3E-02	#N/A		3.0E-06	6E-06	6E-06		#N/A		9.5E-06	4E-02	#N/A		3.4E-06	6E-06	6E-06
	Barium	7440393	35	34	61	43	2.0E-01	--		#N/A		5.0E-05	2E-04	#N/A		1.8E-05				#N/A		4.8E-05	2E-04	#N/A		1.7E-05		
	Beryllium	7440417	0.32	0.43	0.47	0.41	2.0E-03	--		#N/A		4.5E-07	2E-04	#N/A		1.6E-07				#N/A		6.1E-07	3E-04	#N/A		2.2E-07		
	Cadmium	7440439	0.24	0.06	0.06	0.12	1.0E-03	--	(a)	#N/A		3.3E-07	3E-04	#N/A		1.2E-07				#N/A		8.2E-08	8E-05	#N/A		2.9E-08		
	Calcium	7440702	10,300	15,100	11,500	12,300	--	--		#N/A		1.5E-02		#N/A		5.2E-03				#N/A		2.1E-02		#N/A		7.7E-03		
	Chromium	7440473	6.2	9.1	9.6	8.3	1.5E+00	--	(b)	#N/A		8.8E-06	6E-06	#N/A		3.1E-06				#N/A		1.3E-05	9E-06	#N/A		4.6E-06		
	Cobalt	7440484	3.0	3.5	14.2	6.9	3.0E-04	--		#N/A		4.3E-06	1E-02	#N/A		1.5E-06				#N/A		5.0E-06	2E-02	#N/A		1.8E-06		
	Copper	7440508	7	10	12	10	4.0E-02	--		#N/A		1.0E-05	3E-04	#N/A		3.7E-06				#N/A		1.4E-05	4E-04	#N/A		5.1E-06		
	Iron	7439896	10,200	12,600	14,200	12,333	7.0E-01	--		#N/A		1.4E-02	2E-02	#N/A		5.2E-03				#N/A		1.8E-02	3E-02	#N/A		6.4E-03		
	Lead	7439921	4	5	6	5			(c)																			
	Magnesium	7439954	5,320	6,240	6,530	6,030	--	--		#N/A		7.6E-03		#N/A		2.7E-03				#N/A		8.9E-03		#N/A		3.2E-03		
	Manganese	7439965	217	224	334	258	4.7E-02	--	(d)	#N/A		3.1E-04	7E-03	#N/A		1.1E-04				#N/A		3.2E-04	7E-03	#N/A		1.1E-04		
	Mercury	7439976	0.049	0.055	0.050	0.051	3.0E-04	--	(i)	#N/A		7.0E-08	2E-04	#N/A		2.5E-08				#N/A		7.8E-08	3E-04	#N/A		2.8E-08		
	Nickel	7440020	6.1	7.8	8.5	7.5	2.0E-02	--		#N/A		8.7E-06	4E-04	#N/A		3.1E-06				#N/A		1.1E-05	6E-04	#N/A		4.0E-06		
	Potassium	7440097	1,140	1,410	1,350	1,300	--	--		#N/A		1.6E-03		#N/A		5.8E-04				#N/A		2.0E-03		#N/A		7.2E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A				#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.47	0.49	0.47	0.47	5.0E-03	--		#N/A		6.7E-07	1E-04	#N/A		2.4E-07				#N/A		6.9E-07	1E-04	#N/A		2.5E-07		
	Sodium	7440235	57	97	98	84	--	--		#N/A		8.1E-05		#N/A		2.9E-05				#N/A		1.4E-04		#N/A		4.9E-05		
	Thallium	7440280	1.15	1.20	1.15	1.17	6.5E-05	--		#N/A		1.6E-06	3E-02	#N/A		5.8E-07				#N/A		1.7E-06	3E-02	#N/A		6.1E-07		
	Uranium	7440611	6.3	6.4	6.9	6.5	6.0E-04	--	(e)	#N/A		9.0E-06	1E-02	#N/A		3.2E-06				#N/A		9.1E-06	2E-02	#N/A		3.2E-06		
	Vanadium	7440622	8.4	10.8	13.4	10.9	7.0E-03	--		#N/A		1.2E-05	2E-03	#N/A		4.3E-06				#N/A		1.5E-05	2E-03	#N/A		5.5E-06		
	Zinc	7440666	27	30	36	31	3.0E-01	--		#N/A		3.8E-05	1E-04	#N/A		1.3E-05				#N/A		4.3E-05	1E-04	#N/A		1.5E-05		
									Total		**0E+00**		**1E-01**		**0E+00**		**6E-06**	**6E-06**			**0E+00**		**1E-01**		**0E+00**		**6E-06**	**6E-06**
										Total HQ or Risks > LOPC?:				**Yes**						**Total HQ or Risks > LOPC?:**				**Yes**			

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:

(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Worker_Contact Intensive

Exposure Area: Lincoln Mill Boat Ramp

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	#N/A	1.42E-06
Cancer:	#N/A	5.07E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	5,070	6,900	7,160	6,377	1.0E+00	--		#N/A		1.0E-02	1E-02	#N/A		3.6E-03			#N/A		9.1E-03	9E-03	#N/A		3.2E-03		
	Antimony	7440360	#N/A	#N/A	#N/A	#N/A	4.0E-04	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Arsenic	7440382	5.9	6.7	5.9	6.2	2.4E-04	1.9E+00	(j)	#N/A		8.4E-06	3E-02	#N/A		3.0E-06	6E-06	6E-06	#N/A		8.8E-06	4E-02	#N/A		3.1E-06	6E-06	6E-06
	Barium	7440393	35	34	61	43	2.0E-01	--		#N/A		8.7E-05	4E-04	#N/A		3.1E-05			#N/A		6.1E-05	3E-04	#N/A		2.2E-05		
	Beryllium	7440417	0.32	0.43	0.47	0.41	2.0E-03	--		#N/A		6.7E-07	3E-04	#N/A		2.4E-07			#N/A		5.8E-07	3E-04	#N/A		2.1E-07		
	Cadmium	7440439	0.24	0.06	0.06	0.12	1.0E-03	--	(a)	#N/A		9.1E-08	9E-05	#N/A		3.2E-08			#N/A		1.7E-07	2E-04	#N/A		6.0E-08		
	Calcium	7440702	10,300	15,100	11,500	12,300	--	--		#N/A		1.6E-02		#N/A		5.8E-03			#N/A		1.7E-02		#N/A		6.2E-03		
	Chromium	7440473	6.2	9.1	9.6	8.3	1.5E+00	--	(b)	#N/A		1.4E-05	9E-06	#N/A		4.9E-06			#N/A		1.2E-05	8E-06	#N/A		4.2E-06		
	Cobalt	7440484	3.0	3.5	14.2	6.9	3.0E-04	--		#N/A		2.0E-05	7E-02	#N/A		7.2E-06			#N/A		9.8E-06	3E-02	#N/A		3.5E-06		
	Copper	7440508	7	10	12	10	4.0E-02	--		#N/A		1.6E-05	4E-04	#N/A		5.8E-06			#N/A		1.4E-05	3E-04	#N/A		4.9E-06		
	Iron	7439896	10,200	12,600	14,200	12,333	7.0E-01	--		#N/A		2.0E-02	3E-02	#N/A		7.2E-03			#N/A		1.8E-02	3E-02	#N/A		6.3E-03		
	Lead	7439921	4	5	6	5			(c)																		
	Magnesium	7439954	5,320	6,240	6,530	6,030	--	--		#N/A		9.3E-03		#N/A		3.3E-03			#N/A		8.6E-03		#N/A		3.1E-03		
	Manganese	7439965	217	224	334	258	4.7E-02	--	(d)	#N/A		4.7E-04	1E-02	#N/A		1.7E-04			#N/A		3.7E-04	8E-03	#N/A		1.3E-04		
	Mercury	7439976	0.049	0.055	0.050	0.051	3.0E-04	--	(i)	#N/A		7.1E-08	2E-04	#N/A		2.5E-08			#N/A		7.3E-08	2E-04	#N/A		2.6E-08		
	Nickel	7440020	6.1	7.8	8.5	7.5	2.0E-02	--		#N/A		1.2E-05	6E-04	#N/A		4.3E-06			#N/A		1.1E-05	5E-04	#N/A		3.8E-06		
	Potassium	7440097	1,140	1,410	1,350	1,300	--	--		#N/A		1.9E-03		#N/A		6.9E-04			#N/A		1.8E-03		#N/A		6.6E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.47	0.49	0.47	0.47	5.0E-03	--		#N/A		6.6E-07	1E-04	#N/A		2.4E-07			#N/A		6.7E-07	1E-04	#N/A		2.4E-07		
	Sodium	7440235	57	97	98	84	--	--		#N/A		1.4E-04		#N/A		5.0E-05			#N/A		1.2E-04		#N/A		4.3E-05		
	Thallium	7440280	1.15	1.20	1.15	1.17	6.5E-05	--		#N/A		1.6E-06	3E-02	#N/A		5.8E-07			#N/A		1.7E-06	3E-02	#N/A		5.9E-07		
	Uranium	7440611	6.3	6.4	6.9	6.5	6.0E-04	--	(e)	#N/A		9.8E-06	2E-02	#N/A		3.5E-06			#N/A		9.3E-06	2E-02	#N/A		3.3E-06		
	Vanadium	7440622	8.4	10.8	13.4	10.9	7.0E-03	--		#N/A		1.9E-05	3E-03	#N/A		6.8E-06			#N/A		1.5E-05	2E-03	#N/A		5.5E-06		
	Zinc	7440666	27	30	36	31	3.0E-01	--		#N/A		4.3E-05	1E-04	#N/A		1.5E-05			#N/A		4.4E-05	1E-04	#N/A		1.6E-05		
									Total		**0E+00**		**2E-01**		**0E+00**		**6E-06**	**6E-06**		**0E+00**		**2E-01**		**0E+00**		**6E-06**	**6E-06**
										Total HQ or Risks > LOPC?:			**Yes**						**Total HQ or Risks > LOPC?:**			**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Worker_Contact Intensive

Exposure Area: Marcus Island Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	#N/A	1.42E-06
Cancer:	#N/A	5.07E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER										MIDDLE								
										Non-Cancer				Cancer						Non-Cancer				Cancer				
										Child		Adult		Child		Adult				Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	8,600	9,890	7,310	8,600	1.0E+00	--		#N/A		1.2E-02	1E-02	#N/A		4.4E-03				#N/A		1.4E-02	1E-02	#N/A		5.0E-03		
	Antimony	7440360	4.1	2.0	3.1	3.1	4.0E-04	--		#N/A		5.8E-06	1E-02	#N/A		2.1E-06				#N/A		2.8E-06	7E-03	#N/A		1.0E-06		
	Arsenic	7440382	6.5	8.6	3.9	6.3	2.4E-04	1.9E+00	(j)	#N/A		9.2E-06	4E-02	#N/A		3.3E-06	6E-06	6E-06		#N/A		1.2E-05	5E-02	#N/A		4.4E-06	8E-06	8E-06
	Barium	7440393	258	264	101	208	2.0E-01	--		#N/A		3.7E-04	2E-03	#N/A		1.3E-04				#N/A		3.8E-04	2E-03	#N/A		1.3E-04		
	Beryllium	7440417	0.48	0.56	0.36	0.47	2.0E-03	--		#N/A		6.8E-07	3E-04	#N/A		2.4E-07				#N/A		8.0E-07	4E-04	#N/A		2.8E-07		
	Cadmium	7440439	7.30	5.60	1.60	4.83	1.0E-03	--	(a)	#N/A		1.0E-05	1E-02	#N/A		3.7E-06				#N/A		8.0E-06	8E-03	#N/A		2.8E-06		
	Calcium	7440702	7,520	6,920	7,110	7,183	--	--		#N/A		1.1E-02		#N/A		3.8E-03				#N/A		9.8E-03		#N/A		3.5E-03		
	Chromium	7440473	19.7	19.9	14.0	17.9	1.5E+00	--	(b)	#N/A		2.8E-05	2E-05	#N/A		1.0E-05				#N/A		2.8E-05	2E-05	#N/A		1.0E-05		
	Cobalt	7440484	6.8	7.1	5.2	6.4	3.0E-04	--		#N/A		9.7E-06	3E-02	#N/A		3.5E-06				#N/A		1.0E-05	3E-02	#N/A		3.6E-06		
	Copper	7440508	50	58	14	41	4.0E-02	--		#N/A		7.1E-05	2E-03	#N/A		2.6E-05				#N/A		8.2E-05	2E-03	#N/A		2.9E-05		
	Iron	7439896	17,600	23,400	12,700	17,900	7.0E-01	--		#N/A		2.5E-02	4E-02	#N/A		8.9E-03				#N/A		3.3E-02	5E-02	#N/A		1.2E-02		
	Lead	7439921	297	202	52	184			(c)																			
	Magnesium	7439954	6,070	5,390	4,220	5,227	--	--		#N/A		8.6E-03		#N/A		3.1E-03				#N/A		7.7E-03		#N/A		2.7E-03		
	Manganese	7439965	214	246	170	210	4.7E-02	--	(d)	#N/A		3.0E-04	7E-03	#N/A		1.1E-04				#N/A		3.5E-04	7E-03	#N/A		1.2E-04		
	Mercury	7439976	0.810	0.470	0.078	0.453	3.0E-04	--	(i)	#N/A		1.2E-06	4E-03	#N/A		4.1E-07				#N/A		6.7E-07	2E-03	#N/A		2.4E-07		
	Nickel	7440020	16.3	16.8	12.9	15.3	2.0E-02	--		#N/A		2.3E-05	1E-03	#N/A		8.3E-06				#N/A		2.4E-05	1E-03	#N/A		8.5E-06		
	Potassium	7440097	1,010	1,020	1,070	1,033	--	--		#N/A		1.4E-03		#N/A		5.1E-04				#N/A		1.4E-03		#N/A		5.2E-04		
	Selenium	7782492	2.30	4.30	1.80	2.80	5.0E-03	--		#N/A		3.3E-06	7E-04	#N/A		1.2E-06				#N/A		6.1E-06	1E-03	#N/A		2.2E-06		
	Silver	7440224	0.70	0.65	0.50	0.62	5.0E-03	--		#N/A		9.9E-07	2E-04	#N/A		3.6E-07				#N/A		9.2E-07	2E-04	#N/A		3.3E-07		
	Sodium	7440235	86	134	96	105	--	--		#N/A		1.2E-04		#N/A		4.4E-05				#N/A		1.9E-04		#N/A		6.8E-05		
	Thallium	7440280	1.70	1.60	1.30	1.53	6.5E-05	--		#N/A		2.4E-06	4E-02	#N/A		8.6E-07				#N/A		2.3E-06	3E-02	#N/A		8.1E-07		
	Uranium	7440611	13.6	6.7	7.5	9.3	6.0E-04	--	(e)	#N/A		1.9E-05	3E-02	#N/A		6.9E-06				#N/A		9.5E-06	2E-02	#N/A		3.4E-06		
	Vanadium	7440622	24.4	28.5	18.6	23.8	7.0E-03	--		#N/A		3.5E-05	5E-03	#N/A		1.2E-05				#N/A		4.0E-05	6E-03	#N/A		1.4E-05		
	Zinc	7440666	915	620	186	574	3.0E-01	--		#N/A		1.3E-03	4E-03	#N/A		4.6E-04				#N/A		8.8E-04	3E-03	#N/A		3.1E-04		
									Total		**0E+00**		**2E-01**		**0E+00**		**6E-06**	**6E-06**			**0E+00**		**2E-01**		**0E+00**		**8E-06**	**8E-06**
										Total HQ or Risks > LOPC?:				**Yes**						**Total HQ or Risks > LOPC?:**				**Yes**			

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Worker_Contact Intensive

Exposure Area: Marcus Island Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	#N/A	1.42E-06
Cancer:	#N/A	5.07E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER										BEACH MEAN								
										Non-Cancer				Cancer						Non-Cancer				Cancer				
										Child		Adult		Child		Adult				Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	8,600	9,890	7,310	8,600	1.0E+00	--		#N/A		1.0E-02	1E-02	#N/A		3.7E-03				#N/A		1.2E-02	1E-02	#N/A		4.4E-03		
	Antimony	7440360	4.1	2.0	3.1	3.1	4.0E-04	--		#N/A		4.4E-06	1E-02	#N/A		1.6E-06				#N/A		4.3E-06	1E-02	#N/A		1.5E-06		
	Arsenic	7440382	6.5	8.6	3.9	6.3	2.4E-04	1.9E+00	(j)	#N/A		5.5E-06	2E-02	#N/A		2.0E-06	4E-06	4E-06		#N/A		9.0E-06	4E-02	#N/A		3.2E-06	6E-06	6E-06
	Barium	7440393	258	264	101	208	2.0E-01	--		#N/A		1.4E-04	7E-04	#N/A		5.1E-05				#N/A		3.0E-04	1E-03	#N/A		1.1E-04		
	Beryllium	7440417	0.48	0.56	0.36	0.47	2.0E-03	--		#N/A		5.1E-07	3E-04	#N/A		1.8E-07				#N/A		6.6E-07	3E-04	#N/A		2.4E-07		
	Cadmium	7440439	7.30	5.60	1.60	4.83	1.0E-03	--	(a)	#N/A		2.3E-06	2E-03	#N/A		8.1E-07				#N/A		6.9E-06	7E-03	#N/A		2.5E-06		
	Calcium	7440702	7,520	6,920	7,110	7,183	--	--		#N/A		1.0E-02		#N/A		3.6E-03				#N/A		1.0E-02		#N/A		3.6E-03		
	Chromium	7440473	19.7	19.9	14.0	17.9	1.5E+00	--	(b)	#N/A		2.0E-05	1E-05	#N/A		7.1E-06				#N/A		2.5E-05	2E-05	#N/A		9.1E-06		
	Cobalt	7440484	6.8	7.1	5.2	6.4	3.0E-04	--		#N/A		7.4E-06	2E-02	#N/A		2.6E-06				#N/A		9.0E-06	3E-02	#N/A		3.2E-06		
	Copper	7440508	50	58	14	41	4.0E-02	--		#N/A		2.0E-05	5E-04	#N/A		7.2E-06				#N/A		5.8E-05	1E-03	#N/A		2.1E-05		
	Iron	7439896	17,600	23,400	12,700	17,900	7.0E-01	--		#N/A		1.8E-02	3E-02	#N/A		6.4E-03				#N/A		2.5E-02	4E-02	#N/A		9.1E-03		
	Lead	7439921	297	202	52	184			(c)																			
	Magnesium	7439954	6,070	5,390	4,220	5,227	--	--		#N/A		6.0E-03		#N/A		2.1E-03				#N/A		7.4E-03		#N/A		2.7E-03		
	Manganese	7439965	214	246	170	210	4.7E-02	--	(d)	#N/A		2.4E-04	5E-03	#N/A		8.6E-05				#N/A		3.0E-04	6E-03	#N/A		1.1E-04		
	Mercury	7439976	0.810	0.470	0.078	0.453	3.0E-04	--	(i)	#N/A		1.1E-07	4E-04	#N/A		4.0E-08				#N/A		6.4E-07	2E-03	#N/A		2.3E-07		
	Nickel	7440020	16.3	16.8	12.9	15.3	2.0E-02	--		#N/A		1.8E-05	9E-04	#N/A		6.5E-06				#N/A		2.2E-05	1E-03	#N/A		7.8E-06		
	Potassium	7440097	1,010	1,020	1,070	1,033	--	--		#N/A		1.5E-03		#N/A		5.4E-04				#N/A		1.5E-03		#N/A		5.2E-04		
	Selenium	7782492	2.30	4.30	1.80	2.80	5.0E-03	--		#N/A		2.6E-06	5E-04	#N/A		9.1E-07				#N/A		4.0E-06	8E-04	#N/A		1.4E-06		
	Silver	7440224	0.70	0.65	0.50	0.62	5.0E-03	--		#N/A		7.1E-07	1E-04	#N/A		2.5E-07				#N/A		8.8E-07	2E-04	#N/A		3.1E-07		
	Sodium	7440235	86	134	96	105	--	--		#N/A		1.4E-04		#N/A		4.9E-05				#N/A		1.5E-04		#N/A		5.3E-05		
	Thallium	7440280	1.70	1.60	1.30	1.53	6.5E-05	--		#N/A		1.8E-06	3E-02	#N/A		6.6E-07				#N/A		2.2E-06	3E-02	#N/A		7.8E-07		
	Uranium	7440611	13.6	6.7	7.5	9.3	6.0E-04	--	(e)	#N/A		1.1E-05	2E-02	#N/A		3.8E-06				#N/A		1.3E-05	2E-02	#N/A		4.7E-06		
	Vanadium	7440622	24.4	28.5	18.6	23.8	7.0E-03	--		#N/A		2.6E-05	4E-03	#N/A		9.4E-06				#N/A		3.4E-05	5E-03	#N/A		1.2E-05		
	Zinc	7440666	915	620	186	574	3.0E-01	--		#N/A		8.8E-04	3E-03	#N/A		3.1E-04				#N/A		8.2E-04	3E-03	#N/A		2.9E-04		
									Total		**0E+00**		**2E-01**		**0E+00**		**4E-06**	**4E-06**			**0E+00**		**2E-01**		**0E+00**		**6E-06**	**6E-06**
										Total HQ or Risks > LOPC?:			**Yes**							**Total HQ or Risks > LOPC?:**			**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Worker_Contact Intensive

Exposure Area: North Gorge Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	#N/A	1.42E-06
Cancer:	#N/A	5.07E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER										MIDDLE								
										Non-Cancer				Cancer						Non-Cancer				Cancer				
										Child		Adult		Child		Adult				Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	7,060	7,880	4,350	6,430	1.0E+00	--		#N/A		1.0E-02	1E-02	#N/A		3.6E-03				#N/A		1.1E-02	1E-02	#N/A		4.0E-03		
	Antimony	7440360	6.4	3.6	0.5	3.5	4.0E-04	--		#N/A		9.1E-06	2E-02	#N/A		3.2E-06				#N/A		5.1E-06	1E-02	#N/A		1.8E-06		
	Arsenic	7440382	10.7	9.6	5.0	8.4	2.4E-04	1.9E+00	(j)	#N/A		1.5E-05	6E-02	#N/A		5.4E-06	1E-05	1E-05		#N/A		1.4E-05	6E-02	#N/A		4.9E-06	9E-06	9E-06
	Barium	7440393	407	315	102	275	2.0E-01	--		#N/A		5.8E-04	3E-03	#N/A		2.1E-04				#N/A		4.5E-04	2E-03	#N/A		1.6E-04		
	Beryllium	7440417	0.48	0.53	0.28	0.43	2.0E-03	--		#N/A		6.8E-07	3E-04	#N/A		2.4E-07				#N/A		7.5E-07	4E-04	#N/A		2.7E-07		
	Cadmium	7440439	4.20	4.20	1.10	3.17	1.0E-03	--	(a)	#N/A		6.0E-06	6E-03	#N/A		2.1E-06				#N/A		6.0E-06	6E-03	#N/A		2.1E-06		
	Calcium	7440702	24,700	15,400	6,090	15,397	--	--		#N/A		3.5E-02		#N/A		1.3E-02				#N/A		2.2E-02		#N/A		7.8E-03		
	Chromium	7440473	24.9	22.8	15.1	20.9	1.5E+00	--	(b)	#N/A		3.5E-05	2E-05	#N/A		1.3E-05				#N/A		3.2E-05	2E-05	#N/A		1.2E-05		
	Cobalt	7440484	9.8	8.5	4.3	7.5	3.0E-04	--		#N/A		1.4E-05	5E-02	#N/A		5.0E-06				#N/A		1.2E-05	4E-02	#N/A		4.3E-06		
	Copper	7440508	216	132	23	124	4.0E-02	--		#N/A		3.1E-04	8E-03	#N/A		1.1E-04				#N/A		1.9E-04	5E-03	#N/A		6.7E-05		
	Iron	7439896	29,500	23,500	16,000	23,000	7.0E-01	--		#N/A		4.2E-02	6E-02	#N/A		1.5E-02				#N/A		3.3E-02	5E-02	#N/A		1.2E-02		
	Lead	7439921	216	223	69	169			(c)																			
	Magnesium	7439954	13,900	10,200	4,140	9,413	--	--		#N/A		2.0E-02		#N/A		7.1E-03				#N/A		1.4E-02		#N/A		5.2E-03		
	Manganese	7439965	434	270	171	292	4.7E-02	--	(d)	#N/A		6.2E-04	1E-02	#N/A		2.2E-04				#N/A		3.8E-04	8E-03	#N/A		1.4E-04		
	Mercury	7439976	0.370	0.400	0.068	0.279	3.0E-04	--	(i)	#N/A		5.3E-07	2E-03	#N/A		1.9E-07				#N/A		5.7E-07	2E-03	#N/A		2.0E-07		
	Nickel	7440020	15.3	17.2	9.6	14.0	2.0E-02	--		#N/A		2.2E-05	1E-03	#N/A		7.8E-06				#N/A		2.4E-05	1E-03	#N/A		8.7E-06		
	Potassium	7440097	1,190	1,220	624	1,011	--	--		#N/A		1.7E-03		#N/A		6.0E-04				#N/A		1.7E-03		#N/A		6.2E-04		
	Selenium	7782492	3.00	2.70	1.10	2.27	5.0E-03	--		#N/A		4.3E-06	9E-04	#N/A		1.5E-06				#N/A		3.8E-06	8E-04	#N/A		1.4E-06		
	Silver	7440224	0.60	0.70	0.50	0.60	5.0E-03	--		#N/A		8.5E-07	2E-04	#N/A		3.0E-07				#N/A		9.9E-07	2E-04	#N/A		3.6E-07		
	Sodium	7440235	170	134	89	131	--	--		#N/A		2.4E-04		#N/A		8.6E-05				#N/A		1.9E-04		#N/A		6.8E-05		
	Thallium	7440280	1.55	1.70	1.30	1.52	6.5E-05	--		#N/A		2.2E-06	3E-02	#N/A		7.9E-07				#N/A		2.4E-06	4E-02	#N/A		8.6E-07		
	Uranium	7440611	14.2	11.2	5.7	10.4	6.0E-04	--	(e)	#N/A		2.0E-05	3E-02	#N/A		7.2E-06				#N/A		1.6E-05	3E-02	#N/A		5.7E-06		
	Vanadium	7440622	26.9	27.4	27.9	27.4	7.0E-03	--		#N/A		3.8E-05	5E-03	#N/A		1.4E-05				#N/A		3.9E-05	6E-03	#N/A		1.4E-05		
	Zinc	7440666	1,700	1,060	352	1,037	3.0E-01	--		#N/A		2.4E-03	8E-03	#N/A		8.6E-04				#N/A		1.5E-03	5E-03	#N/A		5.4E-04		
									Total		**0E+00**		**3E-01**		**0E+00**		**1E-05**	**1E-05**			**0E+00**		**3E-01**		**0E+00**		**9E-06**	**9E-06**
										Total HQ or Risks > LOPC?:				**Yes**						**Total HQ or Risks > LOPC?:**				**Yes**			

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:

(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Worker_Contact Intensive

Exposure Area: North Gorge Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	#N/A	1.42E-06
Cancer:	#N/A	5.07E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	7,060	7,880	4,350	6,430	1.0E+00	--		#N/A		6.2E-03	6E-03	#N/A		2.2E-03			#N/A		9.1E-03	9E-03	#N/A		3.3E-03		
	Antimony	7440360	6.4	3.6	0.5	3.5	4.0E-04	--		#N/A		6.7E-07	2E-03	#N/A		2.4E-07			#N/A		5.0E-06	1E-02	#N/A		1.8E-06		
	Arsenic	7440382	10.7	9.6	5.0	8.4	2.4E-04	1.9E+00	(j)	#N/A		7.1E-06	3E-02	#N/A		2.5E-06	5E-06	5E-06	#N/A		1.2E-05	5E-02	#N/A		4.3E-06	8E-06	8E-06
	Barium	7440393	407	315	102	275	2.0E-01	--		#N/A		1.4E-04	7E-04	#N/A		5.2E-05			#N/A		3.9E-04	2E-03	#N/A		1.4E-04		
	Beryllium	7440417	0.48	0.53	0.28	0.43	2.0E-03	--		#N/A		4.0E-07	2E-04	#N/A		1.4E-07			#N/A		6.1E-07	3E-04	#N/A		2.2E-07		
	Cadmium	7440439	4.20	4.20	1.10	3.17	1.0E-03	--	(a)	#N/A		1.6E-06	2E-03	#N/A		5.6E-07			#N/A		4.5E-06	4E-03	#N/A		1.6E-06		
	Calcium	7440702	24,700	15,400	6,090	15,397	--	--		#N/A		8.7E-03		#N/A		3.1E-03			#N/A		2.2E-02		#N/A		7.8E-03		
	Chromium	7440473	24.9	22.8	15.1	20.9	1.5E+00	--	(b)	#N/A		2.1E-05	1E-05	#N/A		7.7E-06			#N/A		3.0E-05	2E-05	#N/A		1.1E-05		
	Cobalt	7440484	9.8	8.5	4.3	7.5	3.0E-04	--		#N/A		6.1E-06	2E-02	#N/A		2.2E-06			#N/A		1.1E-05	4E-02	#N/A		3.8E-06		
	Copper	7440508	216	132	23	124	4.0E-02	--		#N/A		3.3E-05	8E-04	#N/A		1.2E-05			#N/A		1.8E-04	4E-03	#N/A		6.3E-05		
	Iron	7439896	29,500	23,500	16,000	23,000	7.0E-01	--		#N/A		2.3E-02	3E-02	#N/A		8.1E-03			#N/A		3.3E-02	5E-02	#N/A		1.2E-02		
	Lead	7439921	216	223	69	169			(c)																		
	Magnesium	7439954	13,900	10,200	4,140	9,413	--	--		#N/A		5.9E-03		#N/A		2.1E-03			#N/A		1.3E-02		#N/A		4.8E-03		
	Manganese	7439965	434	270	171	292	4.7E-02	--	(d)	#N/A		2.4E-04	5E-03	#N/A		8.7E-05			#N/A		4.1E-04	9E-03	#N/A		1.5E-04		
	Mercury	7439976	0.370	0.400	0.068	0.279	3.0E-04	--	(i)	#N/A		9.7E-08	3E-04	#N/A		3.5E-08			#N/A		4.0E-07	1E-03	#N/A		1.4E-07		
	Nickel	7440020	15.3	17.2	9.6	14.0	2.0E-02	--		#N/A		1.4E-05	7E-04	#N/A		4.9E-06			#N/A		2.0E-05	1E-03	#N/A		7.1E-06		
	Potassium	7440097	1,190	1,220	624	1,011	--	--		#N/A		8.9E-04		#N/A		3.2E-04			#N/A		1.4E-03		#N/A		5.1E-04		
	Selenium	7782492	3.00	2.70	1.10	2.27	5.0E-03	--		#N/A		1.6E-06	3E-04	#N/A		5.6E-07			#N/A		3.2E-06	6E-04	#N/A		1.2E-06		
	Silver	7440224	0.60	0.70	0.50	0.60	5.0E-03	--		#N/A		7.1E-07	1E-04	#N/A		2.5E-07			#N/A		8.5E-07	2E-04	#N/A		3.0E-07		
	Sodium	7440235	170	134	89	131	--	--		#N/A		1.3E-04		#N/A		4.5E-05			#N/A		1.9E-04		#N/A		6.6E-05		
	Thallium	7440280	1.55	1.70	1.30	1.52	6.5E-05	--		#N/A		1.8E-06	3E-02	#N/A		6.6E-07			#N/A		2.2E-06	3E-02	#N/A		7.7E-07		
	Uranium	7440611	14.2	11.2	5.7	10.4	6.0E-04	--	(e)	#N/A		8.1E-06	1E-02	#N/A		2.9E-06			#N/A		1.5E-05	2E-02	#N/A		5.3E-06		
	Vanadium	7440622	26.9	27.4	27.9	27.4	7.0E-03	--		#N/A		4.0E-05	6E-03	#N/A		1.4E-05			#N/A		3.9E-05	6E-03	#N/A		1.4E-05		
	Zinc	7440666	1,700	1,060	352	1,037	3.0E-01	--		#N/A		1.5E-03	5E-03	#N/A		5.4E-04			#N/A		1.5E-03	5E-03	#N/A		5.3E-04		
									Total		**0E+00**		**2E-01**		**0E+00**		**5E-06**	**5E-06**		**0E+00**		**2E-01**		**0E+00**		**8E-06**	**8E-06**
										Total HQ or Risks > LOPC?:		**Yes**							**Total HQ or Risks > LOPC?:**		**Yes**					

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:

(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Worker_Contact Intensive

Exposure Area: Northport Boat Launch

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	#N/A	1.42E-06
Cancer:	#N/A	5.07E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER										MIDDLE								
										Non-Cancer				Cancer						Non-Cancer				Cancer				
										Child		Adult		Child		Adult				Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	11,923	12,493	9,843	11,420	1.0E+00	--		#N/A		1.7E-02	2E-02	#N/A		6.1E-03				#N/A		1.8E-02	2E-02	#N/A		6.3E-03		
	Antimony	7440360	22.9	27.2	21.5	23.9	4.0E-04	--		#N/A		3.3E-05	8E-02	#N/A		1.2E-05				#N/A		3.9E-05	1E-01	#N/A		1.4E-05		
	Arsenic	7440382	17.3	14.3	10.7	14.1	2.4E-04	1.9E+00	(j)	#N/A		2.5E-05	1E-01	#N/A		8.8E-06	2E-05	2E-05		#N/A		2.0E-05	8E-02	#N/A		7.3E-06	1E-05	1E-05
	Barium	7440393	1,062	1,036	848	982	2.0E-01	--		#N/A		1.5E-03	8E-03	#N/A		5.4E-04				#N/A		1.5E-03	7E-03	#N/A		5.3E-04		
	Beryllium	7440417	0.94	0.94	0.82	0.90	2.0E-03	--		#N/A		1.3E-06	7E-04	#N/A		4.8E-07				#N/A		1.3E-06	7E-04	#N/A		4.8E-07		
	Cadmium	7440439	2.99	2.39	2.25	2.54	1.0E-03	--	(a)	#N/A		4.3E-06	4E-03	#N/A		1.5E-06				#N/A		3.4E-06	3E-03	#N/A		1.2E-06		
	Calcium	7440702	52,267	49,967	37,967	46,733	--	--		#N/A		7.4E-02		#N/A		2.7E-02				#N/A		7.1E-02		#N/A		2.5E-02		
	Chromium	7440473	68.4	66.2	50.7	61.8	1.5E+00	--	(b)	#N/A		9.7E-05	6E-05	#N/A		3.5E-05				#N/A		9.4E-05	6E-05	#N/A		3.4E-05		
	Cobalt	7440484	27.4	27.5	21.5	25.5	3.0E-04	--		#N/A		3.9E-05	1E-01	#N/A		1.4E-05				#N/A		3.9E-05	1E-01	#N/A		1.4E-05		
	Copper	7440508	1,382	1,182	833	1,132	4.0E-02	--		#N/A		2.0E-03	5E-02	#N/A		7.0E-04				#N/A		1.7E-03	4E-02	#N/A		6.0E-04		
	Iron	7439896	113,367	108,233	75,267	98,956	7.0E-01	--		#N/A		1.6E-01	2E-01	#N/A		5.8E-02				#N/A		1.5E-01	2E-01	#N/A		5.5E-02		
	Lead	7439921	309	256	186	250			(c)																			
	Magnesium	7439954	12,000	12,357	11,447	11,934	--	--		#N/A		1.7E-02		#N/A		6.1E-03				#N/A		1.8E-02		#N/A		6.3E-03		
	Manganese	7439965	2,138	2,004	1,446	1,862	4.7E-02	--	(d)	#N/A		3.0E-03	7E-02	#N/A		1.1E-03				#N/A		2.8E-03	6E-02	#N/A		1.0E-03		
	Mercury	7439976	0.102	0.099	0.075	0.092	3.0E-04	--	(i)	#N/A		1.5E-07	5E-04	#N/A		5.2E-08				#N/A		1.4E-07	5E-04	#N/A		5.0E-08		
	Nickel	7440020	13.3	13.0	12.8	13.1	2.0E-02	--		#N/A		1.9E-05	9E-04	#N/A		6.8E-06				#N/A		1.9E-05	9E-04	#N/A		6.6E-06		
	Potassium	7440097	2,410	2,403	1,943	2,252	--	--		#N/A		3.4E-03		#N/A		1.2E-03				#N/A		3.4E-03		#N/A		1.2E-03		
	Selenium	7782492	1.82	1.75	1.90	1.82	5.0E-03	--		#N/A		2.6E-06	5E-04	#N/A		9.2E-07				#N/A		2.5E-06	5E-04	#N/A		8.9E-07		
	Silver	7440224	0.53	0.51	0.53	0.52	5.0E-03	--		#N/A		7.5E-07	1E-04	#N/A		2.7E-07				#N/A		7.2E-07	1E-04	#N/A		2.6E-07		
	Sodium	7440235	1,130	1,147	767	1,015	--	--		#N/A		1.6E-03		#N/A		5.7E-04				#N/A		1.6E-03		#N/A		5.8E-04		
	Thallium	7440280	1.30	1.27	1.37	1.31	6.5E-05	--		#N/A		1.8E-06	3E-02	#N/A		6.6E-07				#N/A		1.8E-06	3E-02	#N/A		6.4E-07		
	Uranium	7440611	10.5	10.1	10.9	10.5	6.0E-04	--	(e)	#N/A		1.5E-05	2E-02	#N/A		5.3E-06				#N/A		1.4E-05	2E-02	#N/A		5.1E-06		
	Vanadium	7440622	28.4	31.2	27.9	29.1	7.0E-03	--		#N/A		4.0E-05	6E-03	#N/A		1.4E-05				#N/A		4.4E-05	6E-03	#N/A		1.6E-05		
	Zinc	7440666	9,623	8,543	5,947	8,038	3.0E-01	--		#N/A		1.4E-02	5E-02	#N/A		4.9E-03				#N/A		1.2E-02	4E-02	#N/A		4.3E-03		
									Total		**0E+00**		**8E-01**		**0E+00**		**2E-05**	**2E-05**			**0E+00**		**8E-01**		**0E+00**		**1E-05**	**1E-05**
										Total HQ or Risks > LOPC?:			**Yes**							**Total HQ or Risks > LOPC?:**			**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Worker_Contact Intensive

Exposure Area: Northport Boat Launch

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	#N/A	1.42E-06
Cancer:	#N/A	5.07E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	11,923	12,493	9,843	11,420	1.0E+00	--		#N/A		1.4E-02	1E-02	#N/A		5.0E-03			#N/A		1.6E-02	2E-02	#N/A		5.8E-03		
	Antimony	7440360	22.9	27.2	21.5	23.9	4.0E-04	--		#N/A		3.1E-05	8E-02	#N/A		1.1E-05			#N/A		3.4E-05	8E-02	#N/A		1.2E-05		
	Arsenic	7440382	17.3	14.3	10.7	14.1	2.4E-04	1.9E+00	(j)	#N/A		1.5E-05	6E-02	#N/A		5.4E-06	1E-05	1E-05	#N/A		2.0E-05	8E-02	#N/A		7.2E-06	1E-05	1E-05
	Barium	7440393	1,062	1,036	848	982	2.0E-01	--		#N/A		1.2E-03	6E-03	#N/A		4.3E-04			#N/A		1.4E-03	7E-03	#N/A		5.0E-04		
	Beryllium	7440417	0.94	0.94	0.82	0.90	2.0E-03	--		#N/A		1.2E-06	6E-04	#N/A		4.2E-07			#N/A		1.3E-06	6E-04	#N/A		4.6E-07		
	Cadmium	7440439	2.99	2.39	2.25	2.54	1.0E-03	--	(a)	#N/A		3.2E-06	3E-03	#N/A		1.1E-06			#N/A		3.6E-06	4E-03	#N/A		1.3E-06		
	Calcium	7440702	52,267	49,967	37,967	46,733	--	--		#N/A		5.4E-02		#N/A		1.9E-02			#N/A		6.6E-02		#N/A		2.4E-02		
	Chromium	7440473	68.4	66.2	50.7	61.8	1.5E+00	--	(b)	#N/A		7.2E-05	5E-05	#N/A		2.6E-05			#N/A		8.8E-05	6E-05	#N/A		3.1E-05		
	Cobalt	7440484	27.4	27.5	21.5	25.5	3.0E-04	--		#N/A		3.1E-05	1E-01	#N/A		1.1E-05			#N/A		3.6E-05	1E-01	#N/A		1.3E-05		
	Copper	7440508	1,382	1,182	833	1,132	4.0E-02	--		#N/A		1.2E-03	3E-02	#N/A		4.2E-04			#N/A		1.6E-03	4E-02	#N/A		5.7E-04		
	Iron	7439896	113,367	108,233	75,267	98,956	7.0E-01	--		#N/A		1.1E-01	2E-01	#N/A		3.8E-02			#N/A		1.4E-01	2E-01	#N/A		5.0E-02		
	Lead	7439921	309	256	186	250			(c)																		
	Magnesium	7439954	12,000	12,357	11,447	11,934	--	--		#N/A		1.6E-02		#N/A		5.8E-03			#N/A		1.7E-02		#N/A		6.1E-03		
	Manganese	7439965	2,138	2,004	1,446	1,862	4.7E-02	--	(d)	#N/A		2.1E-03	4E-02	#N/A		7.3E-04			#N/A		2.6E-03	6E-02	#N/A		9.5E-04		
	Mercury	7439976	0.102	0.099	0.075	0.092	3.0E-04	--	(i)	#N/A		1.1E-07	4E-04	#N/A		3.8E-08			#N/A		1.3E-07	4E-04	#N/A		4.7E-08		
	Nickel	7440020	13.3	13.0	12.8	13.1	2.0E-02	--		#N/A		1.8E-05	9E-04	#N/A		6.5E-06			#N/A		1.9E-05	9E-04	#N/A		6.6E-06		
	Potassium	7440097	2,410	2,403	1,943	2,252	--	--		#N/A		2.8E-03		#N/A		9.9E-04			#N/A		3.2E-03		#N/A		1.1E-03		
	Selenium	7782492	1.82	1.75	1.90	1.82	5.0E-03	--		#N/A		2.7E-06	5E-04	#N/A		9.6E-07			#N/A		2.6E-06	5E-04	#N/A		9.2E-07		
	Silver	7440224	0.53	0.51	0.53	0.52	5.0E-03	--		#N/A		7.6E-07	2E-04	#N/A		2.7E-07			#N/A		7.4E-07	1E-04	#N/A		2.6E-07		
	Sodium	7440235	1,130	1,147	767	1,015	--	--		#N/A		1.1E-03		#N/A		3.9E-04			#N/A		1.4E-03		#N/A		5.1E-04		
	Thallium	7440280	1.30	1.27	1.37	1.31	6.5E-05	--		#N/A		1.9E-06	3E-02	#N/A		6.9E-07			#N/A		1.9E-06	3E-02	#N/A		6.7E-07		
	Uranium	7440611	10.5	10.1	10.9	10.5	6.0E-04	--	(e)	#N/A		1.5E-05	3E-02	#N/A		5.5E-06			#N/A		1.5E-05	2E-02	#N/A		5.3E-06		
	Vanadium	7440622	28.4	31.2	27.9	29.1	7.0E-03	--		#N/A		4.0E-05	6E-03	#N/A		1.4E-05			#N/A		4.1E-05	6E-03	#N/A		1.5E-05		
	Zinc	7440666	9,623	8,543	5,947	8,038	3.0E-01	--		#N/A		1.2E-02	4E-02	#N/A		4.3E-03			#N/A		1.1E-02	4E-02	#N/A		4.1E-03		
									Total		0E+00		6E-01		0E+00		1E-05	1E-05		0E+00		7E-01		0E+00		1E-05	1E-05
										Total HQ or Risks > LOPC?:			Yes						Total HQ or Risks > LOPC?:			Yes				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Worker_Contact Intensive

Exposure Area: Rogers Bar Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	#N/A	1.42E-06
Cancer:	#N/A	5.07E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER										MIDDLE								
										Non-Cancer				Cancer						Non-Cancer				Cancer				
										Child		Adult		Child		Adult				Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	2,760	5,810	4,810	4,460	1.0E+00	--		#N/A		3.9E-03	4E-03	#N/A		1.4E-03				#N/A		8.3E-03	8E-03	#N/A		2.9E-03		
	Antimony	7440360	#N/A	#N/A	#N/A	#N/A	4.0E-04	--		#N/A		#N/A		#N/A		#N/A				#N/A		#N/A		#N/A		#N/A		
	Arsenic	7440382	0.5	1.9	2.2	1.5	2.4E-04	1.9E+00	(j)	#N/A		6.9E-07	3E-03	#N/A		2.5E-07	5E-07	5E-07		#N/A		2.7E-06	1E-02	#N/A		9.6E-07	2E-06	2E-06
	Barium	7440393	21	53	38	37	2.0E-01	--		#N/A		2.9E-05	1E-04	#N/A		1.0E-05				#N/A		7.6E-05	4E-04	#N/A		2.7E-05		
	Beryllium	7440417	0.21	0.44	0.37	0.34	2.0E-03	--		#N/A		3.0E-07	1E-04	#N/A		1.1E-07				#N/A		6.3E-07	3E-04	#N/A		2.2E-07		
	Cadmium	7440439	0.06	0.11	0.22	0.13	1.0E-03	--	(a)	#N/A		8.0E-08	8E-05	#N/A		2.8E-08				#N/A		1.6E-07	2E-04	#N/A		5.6E-08		
	Calcium	7440702	1,670	1,700	1,580	1,650	--	--		#N/A		2.4E-03		#N/A		8.5E-04				#N/A		2.4E-03		#N/A		8.6E-04		
	Chromium	7440473	5.7	13.2	9.6	9.5	1.5E+00	--	(b)	#N/A		8.1E-06	5E-06	#N/A		2.9E-06				#N/A		1.9E-05	1E-05	#N/A		6.7E-06		
	Cobalt	7440484	2.1	4.1	3.7	3.3	3.0E-04	--		#N/A		3.0E-06	1E-02	#N/A		1.1E-06				#N/A		5.8E-06	2E-02	#N/A		2.1E-06		
	Copper	7440508	5	9	7	7	4.0E-02	--		#N/A		7.0E-06	2E-04	#N/A		2.5E-06				#N/A		1.3E-05	3E-04	#N/A		4.6E-06		
	Iron	7439896	4,930	9,800	9,720	8,150	7.0E-01	--		#N/A		7.0E-03	1E-02	#N/A		2.5E-03				#N/A		1.4E-02	2E-02	#N/A		5.0E-03		
	Lead	7439921	3	5	5	5			(c)																			
	Magnesium	7439954	1,540	2,590	2,390	2,173	--	--		#N/A		2.2E-03		#N/A		7.8E-04				#N/A		3.7E-03		#N/A		1.3E-03		
	Manganese	7439965	95	157	134	129	4.7E-02	--	(d)	#N/A		1.4E-04	3E-03	#N/A		4.8E-05				#N/A		2.2E-04	5E-03	#N/A		8.0E-05		
	Mercury	7439976	0.050	0.055	0.050	0.052	3.0E-04	--	(i)	#N/A		7.1E-08	2E-04	#N/A		2.5E-08				#N/A		7.8E-08	3E-04	#N/A		2.8E-08		
	Nickel	7440020	5.1	10.2	9.0	8.1	2.0E-02	--		#N/A		7.2E-06	4E-04	#N/A		2.6E-06				#N/A		1.4E-05	7E-04	#N/A		5.2E-06		
	Potassium	7440097	317	719	519	518	--	--		#N/A		4.5E-04		#N/A		1.6E-04				#N/A		1.0E-03		#N/A		3.6E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A				#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.49	0.55	0.50	0.51	5.0E-03	--		#N/A		6.9E-07	1E-04	#N/A		2.5E-07				#N/A		7.8E-07	2E-04	#N/A		2.8E-07		
	Sodium	7440235	58	98	88	81	--	--		#N/A		8.3E-05		#N/A		3.0E-05				#N/A		1.4E-04		#N/A		5.0E-05		
	Thallium	7440280	1.20	1.35	1.25	1.27	6.5E-05	--		#N/A		1.7E-06	3E-02	#N/A		6.1E-07				#N/A		1.9E-06	3E-02	#N/A		6.9E-07		
	Uranium	7440611	9.7	9.8	10.1	9.9	6.0E-04	--	(e)	#N/A		1.4E-05	2E-02	#N/A		4.9E-06				#N/A		1.4E-05	2E-02	#N/A		5.0E-06		
	Vanadium	7440622	8.7	16.2	16.7	13.9	7.0E-03	--		#N/A		1.2E-05	2E-03	#N/A		4.4E-06				#N/A		2.3E-05	3E-03	#N/A		8.2E-06		
	Zinc	7440666	21	33	47	34	3.0E-01	--		#N/A		3.0E-05	1E-04	#N/A		1.1E-05				#N/A		4.7E-05	2E-04	#N/A		1.7E-05		
									Total		**0E+00**		**8E-02**		**0E+00**		**5E-07**	**5E-07**			**0E+00**		**1E-01**		**0E+00**		**2E-06**	**2E-06**
										Total HQ or Risks > LOPC?:		**No**								**Total HQ or Risks > LOPC?:**		**Yes**					

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Worker_Contact Intensive

Exposure Area: Rogers Bar Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	#N/A	1.42E-06
Cancer:	#N/A	5.07E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	2,760	5,810	4,810	4,460	1.0E+00	--		#N/A		6.8E-03	7E-03	#N/A		2.4E-03			#N/A		6.3E-03	6E-03	#N/A		2.3E-03		
	Antimony	7440360	#N/A	#N/A	#N/A	#N/A	4.0E-04	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Arsenic	7440382	0.5	1.9	2.2	1.5	2.4E-04	1.9E+00	(j)	#N/A		3.1E-06	1E-02	#N/A		1.1E-06	2E-06	2E-06	#N/A		2.2E-06	9E-03	#N/A		7.8E-07	1E-06	1E-06
	Barium	7440393	21	53	38	37	2.0E-01	--		#N/A		5.4E-05	3E-04	#N/A		1.9E-05			#N/A		5.3E-05	3E-04	#N/A		1.9E-05		
	Beryllium	7440417	0.21	0.44	0.37	0.34	2.0E-03	--		#N/A		5.3E-07	3E-04	#N/A		1.9E-07			#N/A		4.8E-07	2E-04	#N/A		1.7E-07		
	Cadmium	7440439	0.06	0.11	0.22	0.13	1.0E-03	--	(a)	#N/A		3.1E-07	3E-04	#N/A		1.1E-07			#N/A		1.8E-07	2E-04	#N/A		6.5E-08		
	Calcium	7440702	1,670	1,700	1,580	1,650	--	--		#N/A		2.2E-03		#N/A		8.0E-04			#N/A		2.3E-03		#N/A		8.4E-04		
	Chromium	7440473	5.7	13.2	9.6	9.5	1.5E+00	--	(b)	#N/A		1.4E-05	9E-06	#N/A		4.9E-06			#N/A		1.3E-05	9E-06	#N/A		4.8E-06		
	Cobalt	7440484	2.1	4.1	3.7	3.3	3.0E-04	--		#N/A		5.3E-06	2E-02	#N/A		1.9E-06			#N/A		4.7E-06	2E-02	#N/A		1.7E-06		
	Copper	7440508	5	9	7	7	4.0E-02	--		#N/A		1.1E-05	3E-04	#N/A		3.8E-06			#N/A		1.0E-05	3E-04	#N/A		3.6E-06		
	Iron	7439896	4,930	9,800	9,720	8,150	7.0E-01	--		#N/A		1.4E-02	2E-02	#N/A		4.9E-03			#N/A		1.2E-02	2E-02	#N/A		4.1E-03		
	Lead	7439921	3	5	5	5			(c)																		
	Magnesium	7439954	1,540	2,590	2,390	2,173	--	--		#N/A		3.4E-03		#N/A		1.2E-03			#N/A		3.1E-03		#N/A		1.1E-03		
	Manganese	7439965	95	157	134	129	4.7E-02	--	(d)	#N/A		1.9E-04	4E-03	#N/A		6.8E-05			#N/A		1.8E-04	4E-03	#N/A		6.5E-05		
	Mercury	7439976	0.050	0.055	0.050	0.052	3.0E-04	--	(i)	#N/A		7.1E-08	2E-04	#N/A		2.5E-08			#N/A		7.3E-08	2E-04	#N/A		2.6E-08		
	Nickel	7440020	5.1	10.2	9.0	8.1	2.0E-02	--		#N/A		1.3E-05	6E-04	#N/A		4.6E-06			#N/A		1.2E-05	6E-04	#N/A		4.1E-06		
	Potassium	7440097	317	719	519	518	--	--		#N/A		7.4E-04		#N/A		2.6E-04			#N/A		7.4E-04		#N/A		2.6E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.49	0.55	0.50	0.51	5.0E-03	--		#N/A		7.1E-07	1E-04	#N/A		2.5E-07			#N/A		7.3E-07	1E-04	#N/A		2.6E-07		
	Sodium	7440235	58	98	88	81	--	--		#N/A		1.2E-04		#N/A		4.4E-05			#N/A		1.2E-04		#N/A		4.1E-05		
	Thallium	7440280	1.20	1.35	1.25	1.27	6.5E-05	--		#N/A		1.8E-06	3E-02	#N/A		6.3E-07			#N/A		1.8E-06	3E-02	#N/A		6.4E-07		
	Uranium	7440611	9.7	9.8	10.1	9.9	6.0E-04	--	(e)	#N/A		1.4E-05	2E-02	#N/A		5.1E-06			#N/A		1.4E-05	2E-02	#N/A		5.0E-06		
	Vanadium	7440622	8.7	16.2	16.7	13.9	7.0E-03	--		#N/A		2.4E-05	3E-03	#N/A		8.5E-06			#N/A		2.0E-05	3E-03	#N/A		7.0E-06		
	Zinc	7440666	21	33	47	34	3.0E-01	--		#N/A		4.7E-05	2E-04	#N/A		1.7E-05			#N/A		4.8E-05	2E-04	#N/A		1.7E-05		
									Total		**0E+00**		**1E-01**		**0E+00**		**2E-06**	**2E-06**		**0E+00**		**1E-01**		**0E+00**		**1E-06**	**1E-06**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**			

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:

(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Worker_Contact Intensive

Exposure Area: Spring Canyon Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	#N/A	1.42E-06
Cancer:	#N/A	5.07E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	8,310	7,800	7,150	7,753	1.0E+00	--		#N/A		1.2E-02	1E-02	#N/A		4.2E-03			#N/A		1.1E-02	1E-02	#N/A		4.0E-03		
	Antimony	7440360	0.8	1.1	1.0	1.0	4.0E-04	--		#N/A		1.1E-06	3E-03	#N/A		4.0E-07			#N/A		1.6E-06	4E-03	#N/A		5.6E-07		
	Arsenic	7440382	10.3	7.5	8.5	8.8	2.4E-04	1.9E+00	(j)	#N/A		1.5E-05	6E-02	#N/A		5.2E-06	1E-05	1E-05	#N/A		1.1E-05	4E-02	#N/A		3.8E-06	7E-06	7E-06
	Barium	7440393	51	52	41	48	2.0E-01	--		#N/A		7.2E-05	4E-04	#N/A		2.6E-05			#N/A		7.3E-05	4E-04	#N/A		2.6E-05		
	Beryllium	7440417	0.64	0.60	0.53	0.59	2.0E-03	--		#N/A		9.1E-07	5E-04	#N/A		3.2E-07			#N/A		8.5E-07	4E-04	#N/A		3.0E-07		
	Cadmium	7440439	0.26	0.26	0.26	0.26	1.0E-03	--	(a)	#N/A		3.7E-07	4E-04	#N/A		1.3E-07			#N/A		3.6E-07	4E-04	#N/A		1.3E-07		
	Calcium	7440702	1,960	1,810	5,990	3,253	--	--		#N/A		2.8E-03		#N/A		9.9E-04			#N/A		2.6E-03		#N/A		9.2E-04		
	Chromium	7440473	9.6	9.7	9.0	9.4	1.5E+00	--	(b)	#N/A		1.4E-05	9E-06	#N/A		4.9E-06			#N/A		1.4E-05	9E-06	#N/A		4.9E-06		
	Cobalt	7440484	4.4	4.1	3.7	4.1	3.0E-04	--		#N/A		6.3E-06	2E-02	#N/A		2.2E-06			#N/A		5.8E-06	2E-02	#N/A		2.1E-06		
	Copper	7440508	7	6	7	6	4.0E-02	--		#N/A		1.0E-05	3E-04	#N/A		3.6E-06			#N/A		7.8E-06	2E-04	#N/A		2.8E-06		
	Iron	7439896	15,400	14,900	14,300	14,867	7.0E-01	--		#N/A		2.2E-02	3E-02	#N/A		7.8E-03			#N/A		2.1E-02	3E-02	#N/A		7.6E-03		
	Lead	7439921	7	7	6	7			(c)																		
	Magnesium	7439954	5,880	5,590	5,360	5,610	--	--		#N/A		8.4E-03		#N/A		3.0E-03			#N/A		7.9E-03		#N/A		2.8E-03		
	Manganese	7439965	227	208	226	220	4.7E-02	--	(d)	#N/A		3.2E-04	7E-03	#N/A		1.2E-04			#N/A		3.0E-04	6E-03	#N/A		1.1E-04		
	Mercury	7439976	0.055	0.055	0.050	0.053	3.0E-04	--	(i)	#N/A		7.8E-08	3E-04	#N/A		2.8E-08			#N/A		7.8E-08	3E-04	#N/A		2.8E-08		
	Nickel	7440020	8.2	7.5	7.5	7.7	2.0E-02	--		#N/A		1.2E-05	6E-04	#N/A		4.2E-06			#N/A		1.1E-05	5E-04	#N/A		3.8E-06		
	Potassium	7440097	1,610	1,470	1,230	1,437	--	--		#N/A		2.3E-03		#N/A		8.2E-04			#N/A		2.1E-03		#N/A		7.5E-04		
	Selenium	7782492	1.80	1.80	1.80	1.80	5.0E-03	--		#N/A		2.6E-06	5E-04	#N/A		9.1E-07			#N/A		2.6E-06	5E-04	#N/A		9.1E-07		
	Silver	7440224	0.50	0.50	0.50	0.50	5.0E-03	--		#N/A		7.1E-07	1E-04	#N/A		2.5E-07			#N/A		7.1E-07	1E-04	#N/A		2.5E-07		
	Sodium	7440235	66	54	74	64	--	--		#N/A		9.3E-05		#N/A		3.3E-05			#N/A		7.6E-05		#N/A		2.7E-05		
	Thallium	7440280	1.30	1.30	1.30	1.30	6.5E-05	--		#N/A		1.8E-06	3E-02	#N/A		6.6E-07			#N/A		1.8E-06	3E-02	#N/A		6.6E-07		
	Uranium	7440611	10.4	5.2	10.3	8.6	6.0E-04	--	(e)	#N/A		1.5E-05	2E-02	#N/A		5.3E-06			#N/A		7.4E-06	1E-02	#N/A		2.6E-06		
	Vanadium	7440622	14.8	14.0	13.9	14.2	7.0E-03	--		#N/A		2.1E-05	3E-03	#N/A		7.5E-06			#N/A		2.0E-05	3E-03	#N/A		7.1E-06		
	Zinc	7440666	48	55	40	47	3.0E-01	--		#N/A		6.8E-05	2E-04	#N/A		2.4E-05			#N/A		7.8E-05	3E-04	#N/A		2.8E-05		
									Total		**0E+00**		**2E-01**		**0E+00**		**1E-05**	**1E-05**		**0E+00**		**2E-01**		**0E+00**		**7E-06**	**7E-06**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:

(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Worker_Contact Intensive

Exposure Area: Spring Canyon Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	#N/A	1.42E-06
Cancer:	#N/A	5.07E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	8,310	7,800	7,150	7,753	1.0E+00	--		#N/A		1.0E-02	1E-02	#N/A		3.6E-03			#N/A		1.1E-02	1E-02	#N/A		3.9E-03		
	Antimony	7440360	0.8	1.1	1.0	1.0	4.0E-04	--		#N/A		1.4E-06	4E-03	#N/A		5.1E-07			#N/A		1.4E-06	3E-03	#N/A		4.9E-07		
	Arsenic	7440382	10.3	7.5	8.5	8.8	2.4E-04	1.9E+00	(j)	#N/A		1.2E-05	5E-02	#N/A		4.3E-06	8E-06	8E-06	#N/A		1.2E-05	5E-02	#N/A		4.4E-06	8E-06	8E-06
	Barium	7440393	51	52	41	48	2.0E-01	--		#N/A		5.8E-05	3E-04	#N/A		2.1E-05			#N/A		6.8E-05	3E-04	#N/A		2.4E-05		
	Beryllium	7440417	0.64	0.60	0.53	0.59	2.0E-03	--		#N/A		7.5E-07	4E-04	#N/A		2.7E-07			#N/A		8.4E-07	4E-04	#N/A		3.0E-07		
	Cadmium	7440439	0.26	0.26	0.26	0.26	1.0E-03	--	(a)	#N/A		3.7E-07	4E-04	#N/A		1.3E-07			#N/A		3.7E-07	4E-04	#N/A		1.3E-07		
	Calcium	7440702	1,960	1,810	5,990	3,253	--	--		#N/A		8.5E-03		#N/A		3.0E-03			#N/A		4.6E-03		#N/A		1.7E-03		
	Chromium	7440473	9.6	9.7	9.0	9.4	1.5E+00	--	(b)	#N/A		1.3E-05	9E-06	#N/A		4.6E-06			#N/A		1.3E-05	9E-06	#N/A		4.8E-06		
	Cobalt	7440484	4.4	4.1	3.7	4.1	3.0E-04	--		#N/A		5.3E-06	2E-02	#N/A		1.9E-06			#N/A		5.8E-06	2E-02	#N/A		2.1E-06		
	Copper	7440508	7	6	7	6	4.0E-02	--		#N/A		9.2E-06	2E-04	#N/A		3.3E-06			#N/A		9.0E-06	2E-04	#N/A		3.2E-06		
	Iron	7439896	15,400	14,900	14,300	14,867	7.0E-01	--		#N/A		2.0E-02	3E-02	#N/A		7.3E-03			#N/A		2.1E-02	3E-02	#N/A		7.5E-03		
	Lead	7439921	7	7	6	7			(c)																		
	Magnesium	7439954	5,880	5,590	5,360	5,610	--	--		#N/A		7.6E-03		#N/A		2.7E-03			#N/A		8.0E-03		#N/A		2.8E-03		
	Manganese	7439965	227	208	226	220	4.7E-02	--	(d)	#N/A		3.2E-04	7E-03	#N/A		1.1E-04			#N/A		3.1E-04	7E-03	#N/A		1.1E-04		
	Mercury	7439976	0.055	0.055	0.050	0.053	3.0E-04	--	(i)	#N/A		7.1E-08	2E-04	#N/A		2.5E-08			#N/A		7.6E-08	3E-04	#N/A		2.7E-08		
	Nickel	7440020	8.2	7.5	7.5	7.7	2.0E-02	--		#N/A		1.1E-05	5E-04	#N/A		3.8E-06			#N/A		1.1E-05	5E-04	#N/A		3.9E-06		
	Potassium	7440097	1,610	1,470	1,230	1,437	--	--		#N/A		1.7E-03		#N/A		6.2E-04			#N/A		2.0E-03		#N/A		7.3E-04		
	Selenium	7782492	1.80	1.80	1.80	1.80	5.0E-03	--		#N/A		2.6E-06	5E-04	#N/A		9.1E-07			#N/A		2.6E-06	5E-04	#N/A		9.1E-07		
	Silver	7440224	0.50	0.50	0.50	0.50	5.0E-03	--		#N/A		7.1E-07	1E-04	#N/A		2.5E-07			#N/A		7.1E-07	1E-04	#N/A		2.5E-07		
	Sodium	7440235	66	54	74	64	--	--		#N/A		1.0E-04		#N/A		3.7E-05			#N/A		9.1E-05		#N/A		3.3E-05		
	Thallium	7440280	1.30	1.30	1.30	1.30	6.5E-05	--		#N/A		1.8E-06	3E-02	#N/A		6.6E-07			#N/A		1.8E-06	3E-02	#N/A		6.6E-07		
	Uranium	7440611	10.4	5.2	10.3	8.6	6.0E-04	--	(e)	#N/A		1.5E-05	2E-02	#N/A		5.2E-06			#N/A		1.2E-05	2E-02	#N/A		4.4E-06		
	Vanadium	7440622	14.8	14.0	13.9	14.2	7.0E-03	--		#N/A		2.0E-05	3E-03	#N/A		7.1E-06			#N/A		2.0E-05	3E-03	#N/A		7.2E-06		
	Zinc	7440666	48	55	40	47	3.0E-01	--		#N/A		7.8E-05	3E-04	#N/A		2.8E-05			#N/A		6.7E-05	2E-04	#N/A		2.4E-05		
									Total		**0E+00**		**2E-01**		**0E+00**		**8E-06**	**8E-06**		**0E+00**		**2E-01**		**0E+00**		**8E-06**	**8E-06**
										Total HQ or Risks > LOPC?:			**Yes**						**Total HQ or Risks > LOPC?:**			**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Worker_Non-Contact Intensive

Exposure Area: AA Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	#N/A	9.78E-07
Cancer:	#N/A	3.49E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER										MIDDLE								
										Non-Cancer				Cancer						Non-Cancer				Cancer				
										Child		Adult		Child		Adult				Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	10,200	12,200	9,080	10,493	1.0E+00	--		#N/A		1.0E-02	1E-02	#N/A		3.6E-03				#N/A		1.2E-02	1E-02	#N/A		4.3E-03		
	Antimony	7440360	1.1	1.5	1.2	1.3	4.0E-04	--		#N/A		1.1E-06	3E-03	#N/A		3.8E-07				#N/A		1.5E-06	4E-03	#N/A		5.2E-07		
	Arsenic	7440382	3.6	5.3	4.1	4.3	2.4E-04	1.9E+00	(j)	#N/A		3.5E-06	1E-02	#N/A		1.3E-06	2E-06	2E-06		#N/A		5.2E-06	2E-02	#N/A		1.9E-06	3E-06	3E-06
	Barium	7440393	78	117	78	91	2.0E-01	--		#N/A		7.6E-05	4E-04	#N/A		2.7E-05				#N/A		1.1E-04	6E-04	#N/A		4.1E-05		
	Beryllium	7440417	0.68	0.90	0.66	0.75	2.0E-03	--		#N/A		6.7E-07	3E-04	#N/A		2.4E-07				#N/A		8.8E-07	4E-04	#N/A		3.1E-07		
	Cadmium	7440439	1.00	0.74	0.17	0.64	1.0E-03	--	(a)	#N/A		9.8E-07	1E-03	#N/A		3.5E-07				#N/A		7.2E-07	7E-04	#N/A		2.6E-07		
	Calcium	7440702	2,520	4,120	2,990	3,210	--	--		#N/A		2.5E-03		#N/A		8.8E-04				#N/A		4.0E-03		#N/A		1.4E-03		
	Chromium	7440473	18.0	24.2	14.8	19.0	1.5E+00	--	(b)	#N/A		1.8E-05	1E-05	#N/A		6.3E-06				#N/A		2.4E-05	2E-05	#N/A		8.5E-06		
	Cobalt	7440484	6.9	10.4	6.4	7.9	3.0E-04	--		#N/A		6.8E-06	2E-02	#N/A		2.4E-06				#N/A		1.0E-05	3E-02	#N/A		3.6E-06		
	Copper	7440508	15	20	12	16	4.0E-02	--		#N/A		1.4E-05	4E-04	#N/A		5.1E-06				#N/A		2.0E-05	5E-04	#N/A		7.0E-06		
	Iron	7439896	16,000	21,100	14,800	17,300	7.0E-01	--		#N/A		1.6E-02	2E-02	#N/A		5.6E-03				#N/A		2.1E-02	3E-02	#N/A		7.4E-03		
	Lead	7439921	34	20	7	20			(c)																			
	Magnesium	7439954	3,700	4,970	3,550	4,073	--	--		#N/A		3.6E-03		#N/A		1.3E-03				#N/A		4.9E-03		#N/A		1.7E-03		
	Manganese	7439965	167	383	248	266	4.7E-02	--	(d)	#N/A		1.6E-04	4E-03	#N/A		5.8E-05				#N/A		3.7E-04	8E-03	#N/A		1.3E-04		
	Mercury	7439976	0.053	0.031	0.010	0.031	3.0E-04	--	(i)	#N/A		5.2E-08	2E-04	#N/A		1.9E-08				#N/A		3.0E-08	1E-04	#N/A		1.1E-08		
	Nickel	7440020	15.5	21.1	12.8	16.5	2.0E-02	--		#N/A		1.5E-05	8E-04	#N/A		5.4E-06				#N/A		2.1E-05	1E-03	#N/A		7.4E-06		
	Potassium	7440097	1,220	2,020	1,160	1,467	--	--		#N/A		1.2E-03		#N/A		4.3E-04				#N/A		2.0E-03		#N/A		7.1E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A				#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.60	0.60	0.55	0.58	5.0E-03	--		#N/A		5.9E-07	1E-04	#N/A		2.1E-07				#N/A		5.9E-07	1E-04	#N/A		2.1E-07		
	Sodium	7440235	115	173	129	139	--	--		#N/A		1.1E-04		#N/A		4.0E-05				#N/A		1.7E-04		#N/A		6.0E-05		
	Thallium	7440280	1.50	1.55	1.45	1.50	6.5E-05	--		#N/A		1.5E-06	2E-02	#N/A		5.2E-07				#N/A		1.5E-06	2E-02	#N/A		5.4E-07		
	Uranium	7440611	12.0	12.3	11.4	11.9	6.0E-04	--	(e)	#N/A		1.2E-05	2E-02	#N/A		4.2E-06				#N/A		1.2E-05	2E-02	#N/A		4.3E-06		
	Vanadium	7440622	27.2	32.6	26.3	28.7	7.0E-03	--		#N/A		2.7E-05	4E-03	#N/A		9.5E-06				#N/A		3.2E-05	5E-03	#N/A		1.1E-05		
	Zinc	7440666	158	118	49	108	3.0E-01	--		#N/A		1.5E-04	5E-04	#N/A		5.5E-05				#N/A		1.2E-04	4E-04	#N/A		4.1E-05		
									Total		**0E+00**		**1E-01**		**0E+00**		**2E-06**	**2E-06**			**0E+00**		**2E-01**		**0E+00**		**3E-06**	**3E-06**
										Total HQ or Risks > LOPC?:			**Yes**							**Total HQ or Risks > LOPC?:**			**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Worker_Non-Contact Intensive

Exposure Area: AA Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	#N/A	9.78E-07
Cancer:	#N/A	3.49E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	10,200	12,200	9,080	10,493	1.0E+00	--		#N/A		8.9E-03	9E-03	#N/A		3.2E-03			#N/A		1.0E-02	1E-02	#N/A		3.7E-03		
	Antimony	7440360	1.1	1.5	1.2	1.3	4.0E-04	--		#N/A		1.2E-06	3E-03	#N/A		4.2E-07			#N/A		1.2E-06	3E-03	#N/A		4.4E-07		
	Arsenic	7440382	3.6	5.3	4.1	4.3	2.4E-04	1.9E+00	(j)	#N/A		4.0E-06	2E-02	#N/A		1.4E-06	3E-06	3E-06	#N/A		4.2E-06	2E-02	#N/A		1.5E-06	3E-06	3E-06
	Barium	7440393	78	117	78	91	2.0E-01	--		#N/A		7.6E-05	4E-04	#N/A		2.7E-05			#N/A		8.9E-05	4E-04	#N/A		3.2E-05		
	Beryllium	7440417	0.68	0.90	0.66	0.75	2.0E-03	--		#N/A		6.5E-07	3E-04	#N/A		2.3E-07			#N/A		7.3E-07	4E-04	#N/A		2.6E-07		
	Cadmium	7440439	1.00	0.74	0.17	0.64	1.0E-03	--	(a)	#N/A		1.7E-07	2E-04	#N/A		5.9E-08			#N/A		6.2E-07	6E-04	#N/A		2.2E-07		
	Calcium	7440702	2,520	4,120	2,990	3,210	--	--		#N/A		2.9E-03		#N/A		1.0E-03			#N/A		3.1E-03		#N/A		1.1E-03		
	Chromium	7440473	18.0	24.2	14.8	19.0	1.5E+00	--	(b)	#N/A		1.4E-05	1E-05	#N/A		5.2E-06			#N/A		1.9E-05	1E-05	#N/A		6.6E-06		
	Cobalt	7440484	6.9	10.4	6.4	7.9	3.0E-04	--		#N/A		6.3E-06	2E-02	#N/A		2.2E-06			#N/A		7.7E-06	3E-02	#N/A		2.8E-06		
	Copper	7440508	15	20	12	16	4.0E-02	--		#N/A		1.2E-05	3E-04	#N/A		4.2E-06			#N/A		1.5E-05	4E-04	#N/A		5.5E-06		
	Iron	7439896	16,000	21,100	14,800	17,300	7.0E-01	--		#N/A		1.4E-02	2E-02	#N/A		5.2E-03			#N/A		1.7E-02	2E-02	#N/A		6.0E-03		
	Lead	7439921	34	20	7	20			(c)																		
	Magnesium	7439954	3,700	4,970	3,550	4,073	--	--		#N/A		3.5E-03		#N/A		1.2E-03			#N/A		4.0E-03		#N/A		1.4E-03		
	Manganese	7439965	167	383	248	266	4.7E-02	--	(d)	#N/A		2.4E-04	5E-03	#N/A		8.7E-05			#N/A		2.6E-04	6E-03	#N/A		9.3E-05		
	Mercury	7439976	0.053	0.031	0.010	0.031	3.0E-04	--	(i)	#N/A		9.8E-09	3E-05	#N/A		3.5E-09			#N/A		3.1E-08	1E-04	#N/A		1.1E-08		
	Nickel	7440020	15.5	21.1	12.8	16.5	2.0E-02	--		#N/A		1.3E-05	6E-04	#N/A		4.5E-06			#N/A		1.6E-05	8E-04	#N/A		5.8E-06		
	Potassium	7440097	1,220	2,020	1,160	1,467	--	--		#N/A		1.1E-03		#N/A		4.1E-04			#N/A		1.4E-03		#N/A		5.1E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.60	0.60	0.55	0.58	5.0E-03	--		#N/A		5.4E-07	1E-04	#N/A		1.9E-07			#N/A		5.7E-07	1E-04	#N/A		2.0E-07		
	Sodium	7440235	115	173	129	139	--	--		#N/A		1.3E-04		#N/A		4.5E-05			#N/A		1.4E-04		#N/A		4.9E-05		
	Thallium	7440280	1.50	1.55	1.45	1.50	6.5E-05	--		#N/A		1.4E-06	2E-02	#N/A		5.1E-07			#N/A		1.5E-06	2E-02	#N/A		5.2E-07		
	Uranium	7440611	12.0	12.3	11.4	11.9	6.0E-04	--	(e)	#N/A		1.1E-05	2E-02	#N/A		4.0E-06			#N/A		1.2E-05	2E-02	#N/A		4.2E-06		
	Vanadium	7440622	27.2	32.6	26.3	28.7	7.0E-03	--		#N/A		2.6E-05	4E-03	#N/A		9.2E-06			#N/A		2.8E-05	4E-03	#N/A		1.0E-05		
	Zinc	7440666	158	118	49	108	3.0E-01	--		#N/A		1.2E-04	4E-04	#N/A		4.1E-05			#N/A		1.1E-04	4E-04	#N/A		3.8E-05		
									Total		**0E+00**		**1E-01**		**0E+00**		**3E-06**	**3E-06**		**0E+00**		**1E-01**			**0E+00**		**3E-06**	**3E-06**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:

(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Worker_Non-Contact Intensive

Exposure Area: Black Sand Beach

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	#N/A	9.78E-07
Cancer:	#N/A	3.49E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	19,000	18,600	18,600	18,733	1.0E+00	--		#N/A		1.9E-02	2E-02	#N/A		6.6E-03			#N/A		1.8E-02	2E-02	#N/A		6.5E-03		
	Antimony	7440360	18.6	52.3	47.7	39.5	4.0E-04	--		#N/A		1.8E-05	5E-02	#N/A		6.5E-06			#N/A		5.1E-05	1E-01	#N/A		1.8E-05		
	Arsenic	7440382	16.1	25.2	27.3	22.9	2.4E-04	1.9E+00	(j)	#N/A		1.6E-05	7E-02	#N/A		5.6E-06	1E-05	1E-05	#N/A		2.5E-05	1E-01	#N/A		8.8E-06	2E-05	2E-05
	Barium	7440393	1,280	1,680	1,750	1,570	2.0E-01	--		#N/A		1.3E-03	6E-03	#N/A		4.5E-04			#N/A		1.6E-03	8E-03	#N/A		5.9E-04		
	Beryllium	7440417	1.20	1.30	1.30	1.27	2.0E-03	--		#N/A		1.2E-06	6E-04	#N/A		4.2E-07			#N/A		1.3E-06	6E-04	#N/A		4.5E-07		
	Cadmium	7440439	1.00	1.20	1.40	1.20	1.0E-03	--	(a)	#N/A		9.8E-07	1E-03	#N/A		3.5E-07			#N/A		1.2E-06	1E-03	#N/A		4.2E-07		
	Calcium	7440702	58,700	63,300	66,900	62,967	--	--		#N/A		5.7E-02		#N/A		2.1E-02			#N/A		6.2E-02		#N/A		2.2E-02		
	Chromium	7440473	101.0	123.0	128.0	117.3	1.5E+00	--	(b)	#N/A		9.9E-05	7E-05	#N/A		3.5E-05			#N/A		1.2E-04	8E-05	#N/A		4.3E-05		
	Cobalt	7440484	29.5	48.6	51.0	43.0	3.0E-04	--		#N/A		2.9E-05	1E-01	#N/A		1.0E-05			#N/A		4.8E-05	2E-01	#N/A		1.7E-05		
	Copper	7440508	1,620	2,240	2,350	2,070	4.0E-02	--		#N/A		1.6E-03	4E-02	#N/A		5.7E-04			#N/A		2.2E-03	5E-02	#N/A		7.8E-04		
	Iron	7439896	197,000	187,000	211,000	198,333	7.0E-01	--		#N/A		1.9E-01	3E-01	#N/A		6.9E-02			#N/A		1.8E-01	3E-01	#N/A		6.5E-02		
	Lead	7439921	276	231	266	258			(c)																		
	Magnesium	7439954	6,670	7,070	8,290	7,343	--	--		#N/A		6.5E-03		#N/A		2.3E-03			#N/A		6.9E-03		#N/A		2.5E-03		
	Manganese	7439965	3,080	3,680	3,680	3,480	4.7E-02	--	(d)	#N/A		3.0E-03	6E-02	#N/A		1.1E-03			#N/A		3.6E-03	8E-02	#N/A		1.3E-03		
	Mercury	7439976	0.028	0.030	0.650	0.236	3.0E-04	--	(i)	#N/A		2.7E-08	9E-05	#N/A		9.8E-09			#N/A		2.9E-08	1E-04	#N/A		1.0E-08		
	Nickel	7440020	9.3	12.1	12.4	11.3	2.0E-02	--		#N/A		9.1E-06	5E-04	#N/A		3.2E-06			#N/A		1.2E-05	6E-04	#N/A		4.2E-06		
	Potassium	7440097	3,500	3,610	3,750	3,620	--	--		#N/A		3.4E-03		#N/A		1.2E-03			#N/A		3.5E-03		#N/A		1.3E-03		
	Selenium	7782492	#N/A	#N/A	1.70	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.55	0.47	0.49	0.50	5.0E-03	--		#N/A		5.4E-07	1E-04	#N/A		1.9E-07			#N/A		4.5E-07	9E-05	#N/A		1.6E-07		
	Sodium	7440235	1,300	1,770	1,840	1,637	--	--		#N/A		1.3E-03		#N/A		4.5E-04			#N/A		1.7E-03		#N/A		6.2E-04		
	Thallium	7440280	1.35	1.15	1.20	1.23	6.5E-05	--		#N/A		1.3E-06	2E-02	#N/A		4.7E-07			#N/A		1.1E-06	2E-02	#N/A		4.0E-07		
	Uranium	7440611	64.8	84.3	81.6	76.9	6.0E-04	--	(e)	#N/A		6.3E-05	1E-01	#N/A		2.3E-05			#N/A		8.2E-05	1E-01	#N/A		2.9E-05		
	Vanadium	7440622	36.6	38.3	39.8	38.2	7.0E-03	--		#N/A		3.6E-05	5E-03	#N/A		1.3E-05			#N/A		3.7E-05	5E-03	#N/A		1.3E-05		
	Zinc	7440666	14,900	15,200	16,900	15,667	3.0E-01	--		#N/A		1.5E-02	5E-02	#N/A		5.2E-03			#N/A		1.5E-02	5E-02	#N/A		5.3E-03		
									Total		**0E+00**		**8E-01**		**0E+00**		**1E-05**	**1E-05**		**0E+00**		**1E+00**			**2E-05**	**2E-05**
										Total HQ or Risks > LOPC?:			**Yes**						**Total HQ or Risks > LOPC?:**			**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Worker_Non-Contact Intensive

Exposure Area: Black Sand Beach

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	#N/A	9.78E-07
Cancer:	#N/A	3.49E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	19,000	18,600	18,600	18,733	1.0E+00	--		#N/A		1.8E-02	2E-02	#N/A		6.5E-03			#N/A		1.8E-02	2E-02	#N/A		6.5E-03		
	Antimony	7440360	18.6	52.3	47.7	39.5	4.0E-04	--		#N/A		4.7E-05	1E-01	#N/A		1.7E-05			#N/A		3.9E-05	1E-01	#N/A		1.4E-05		
	Arsenic	7440382	16.1	25.2	27.3	22.9	2.4E-04	1.9E+00	(j)	#N/A		2.7E-05	1E-01	#N/A		9.5E-06	2E-05	2E-05	#N/A		2.2E-05	9E-02	#N/A		8.0E-06	1E-05	1E-05
	Barium	7440393	1,280	1,680	1,750	1,570	2.0E-01	--		#N/A		1.7E-03	9E-03	#N/A		6.1E-04			#N/A		1.5E-03	8E-03	#N/A		5.5E-04		
	Beryllium	7440417	1.20	1.30	1.30	1.27	2.0E-03	--		#N/A		1.3E-06	6E-04	#N/A		4.5E-07			#N/A		1.2E-06	6E-04	#N/A		4.4E-07		
	Cadmium	7440439	1.00	1.20	1.40	1.20	1.0E-03	--	(a)	#N/A		1.4E-06	1E-03	#N/A		4.9E-07			#N/A		1.2E-06	1E-03	#N/A		4.2E-07		
	Calcium	7440702	58,700	63,300	66,900	62,967	--	--		#N/A		6.5E-02		#N/A		2.3E-02			#N/A		6.2E-02		#N/A		2.2E-02		
	Chromium	7440473	101.0	123.0	128.0	117.3	1.5E+00	--	(b)	#N/A		1.3E-04	8E-05	#N/A		4.5E-05			#N/A		1.1E-04	8E-05	#N/A		4.1E-05		
	Cobalt	7440484	29.5	48.6	51.0	43.0	3.0E-04	--		#N/A		5.0E-05	2E-01	#N/A		1.8E-05			#N/A		4.2E-05	1E-01	#N/A		1.5E-05		
	Copper	7440508	1,620	2,240	2,350	2,070	4.0E-02	--		#N/A		2.3E-03	6E-02	#N/A		8.2E-04			#N/A		2.0E-03	5E-02	#N/A		7.2E-04		
	Iron	7439896	197,000	187,000	211,000	198,333	7.0E-01	--		#N/A		2.1E-01	3E-01	#N/A		7.4E-02			#N/A		1.9E-01	3E-01	#N/A		6.9E-02		
	Lead	7439921	276	231	266	258			(c)																		
	Magnesium	7439954	6,670	7,070	8,290	7,343	--	--		#N/A		8.1E-03		#N/A		2.9E-03			#N/A		7.2E-03		#N/A		2.6E-03		
	Manganese	7439965	3,080	3,680	3,680	3,480	4.7E-02	--	(d)	#N/A		3.6E-03	8E-02	#N/A		1.3E-03			#N/A		3.4E-03	7E-02	#N/A		1.2E-03		
	Mercury	7439976	0.028	0.030	0.650	0.236	3.0E-04	--	(i)	#N/A		6.4E-07	2E-03	#N/A		2.3E-07			#N/A		2.3E-07	8E-04	#N/A		8.2E-08		
	Nickel	7440020	9.3	12.1	12.4	11.3	2.0E-02	--		#N/A		1.2E-05	6E-04	#N/A		4.3E-06			#N/A		1.1E-05	6E-04	#N/A		3.9E-06		
	Potassium	7440097	3,500	3,610	3,750	3,620	--	--		#N/A		3.7E-03		#N/A		1.3E-03			#N/A		3.5E-03		#N/A		1.3E-03		
	Selenium	7782492	#N/A	#N/A	1.70	#N/A	5.0E-03	--		#N/A		1.7E-06	3E-04	#N/A		5.9E-07			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.55	0.47	0.49	0.50	5.0E-03	--		#N/A		4.7E-07	9E-05	#N/A		1.7E-07			#N/A		4.9E-07	1E-04	#N/A		1.7E-07		
	Sodium	7440235	1,300	1,770	1,840	1,637	--	--		#N/A		1.8E-03		#N/A		6.4E-04			#N/A		1.6E-03		#N/A		5.7E-04		
	Thallium	7440280	1.35	1.15	1.20	1.23	6.5E-05	--		#N/A		1.2E-06	2E-02	#N/A		4.2E-07			#N/A		1.2E-06	2E-02	#N/A		4.3E-07		
	Uranium	7440611	64.8	84.3	81.6	76.9	6.0E-04	--	(e)	#N/A		8.0E-05	1E-01	#N/A		2.9E-05			#N/A		7.5E-05	1E-01	#N/A		2.7E-05		
	Vanadium	7440622	36.6	38.3	39.8	38.2	7.0E-03	--		#N/A		3.9E-05	6E-03	#N/A		1.4E-05			#N/A		3.7E-05	5E-03	#N/A		1.3E-05		
	Zinc	7440666	14,900	15,200	16,900	15,667	3.0E-01	--		#N/A		1.5E-02	5E-02	#N/A		5.3E-03			#N/A		1.5E-02	5E-02	#N/A		5.5E-03		
									Total		**0E+00**		**1E+00**		**0E+00**		**2E-05**	**2E-05**		**0E+00**		**1E+00**		**0E+00**		**1E-05**	**1E-05**
										Total HQ or Risks > LOPC?:			**Yes**						**Total HQ or Risks > LOPC?:**			**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Worker_Non-Contact Intensive

Exposure Area: Cloverleaf Branch

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	#N/A	9.78E-07
Cancer:	#N/A	3.49E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	12,300	7,520	7,780	9,200	1.0E+00	--		#N/A		1.2E-02	1E-02	#N/A		4.3E-03			#N/A		7.4E-03	7E-03	#N/A		2.6E-03		
	Antimony	7440360	1.6	1.1	1.0	1.2	4.0E-04	--		#N/A		1.6E-06	4E-03	#N/A		5.6E-07			#N/A		1.1E-06	3E-03	#N/A		3.8E-07		
	Arsenic	7440382	7.0	3.6	2.3	4.3	2.4E-04	1.9E+00	(j)	#N/A		6.8E-06	3E-02	#N/A		2.4E-06	5E-06	5E-06	#N/A		3.5E-06	1E-02	#N/A		1.3E-06	2E-06	2E-06
	Barium	7440393	152	80	66	99	2.0E-01	--		#N/A		1.5E-04	7E-04	#N/A		5.3E-05			#N/A		7.9E-05	4E-04	#N/A		2.8E-05		
	Beryllium	7440417	0.93	0.59	0.63	0.72	2.0E-03	--		#N/A		9.1E-07	5E-04	#N/A		3.2E-07			#N/A		5.8E-07	3E-04	#N/A		2.1E-07		
	Cadmium	7440439	2.40	0.63	3.10	2.04	1.0E-03	--	(a)	#N/A		2.3E-06	2E-03	#N/A		8.4E-07			#N/A		6.2E-07	6E-04	#N/A		2.2E-07		
	Calcium	7440702	5,200	6,050	3,100	4,783	--	--		#N/A		5.1E-03		#N/A		1.8E-03			#N/A		5.9E-03		#N/A		2.1E-03		
	Chromium	7440473	28.0	17.7	19.5	21.7	1.5E+00	--	(b)	#N/A		2.7E-05	2E-05	#N/A		9.8E-06			#N/A		1.7E-05	1E-05	#N/A		6.2E-06		
	Cobalt	7440484	10.0	6.7	5.6	7.4	3.0E-04	--		#N/A		9.8E-06	3E-02	#N/A		3.5E-06			#N/A		6.6E-06	2E-02	#N/A		2.3E-06		
	Copper	7440508	29	16	15	20	4.0E-02	--		#N/A		2.8E-05	7E-04	#N/A		1.0E-05			#N/A		1.6E-05	4E-04	#N/A		5.6E-06		
	Iron	7439896	22,600	15,200	13,300	17,033	7.0E-01	--		#N/A		2.2E-02	3E-02	#N/A		7.9E-03			#N/A		1.5E-02	2E-02	#N/A		5.3E-03		
	Lead	7439921	102	16	51	56			(c)																		
	Magnesium	7439954	6,530	4,520	4,040	5,030	--	--		#N/A		6.4E-03		#N/A		2.3E-03			#N/A		4.4E-03		#N/A		1.6E-03		
	Manganese	7439965	526	194	145	288	4.7E-02	--	(d)	#N/A		5.1E-04	1E-02	#N/A		1.8E-04			#N/A		1.9E-04	4E-03	#N/A		6.8E-05		
	Mercury	7439976	0.210	0.030	0.062	0.101	3.0E-04	--	(i)	#N/A		2.1E-07	7E-04	#N/A		7.3E-08			#N/A		2.9E-08	1E-04	#N/A		1.0E-08		
	Nickel	7440020	23.8	15.9	14.0	17.9	2.0E-02	--		#N/A		2.3E-05	1E-03	#N/A		8.3E-06			#N/A		1.6E-05	8E-04	#N/A		5.6E-06		
	Potassium	7440097	2,190	1,210	1,200	1,533	--	--		#N/A		2.1E-03		#N/A		7.7E-04			#N/A		1.2E-03		#N/A		4.2E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.60	0.55	0.60	0.58	5.0E-03	--		#N/A		5.9E-07	1E-04	#N/A		2.1E-07			#N/A		5.4E-07	1E-04	#N/A		1.9E-07		
	Sodium	7440235	245	147	94	162	--	--		#N/A		2.4E-04		#N/A		8.6E-05			#N/A		1.4E-04		#N/A		5.1E-05		
	Thallium	7440280	1.55	1.35	1.55	1.48	6.5E-05	--		#N/A		1.5E-06	2E-02	#N/A		5.4E-07			#N/A		1.3E-06	2E-02	#N/A		4.7E-07		
	Uranium	7440611	12.3	10.7	12.2	11.7	6.0E-04	--	(e)	#N/A		1.2E-05	2E-02	#N/A		4.3E-06			#N/A		1.0E-05	2E-02	#N/A		3.7E-06		
	Vanadium	7440622	35.6	26.6	21.9	28.0	7.0E-03	--		#N/A		3.5E-05	5E-03	#N/A		1.2E-05			#N/A		2.6E-05	4E-03	#N/A		9.3E-06		
	Zinc	7440666	295	90	220	202	3.0E-01	--		#N/A		2.9E-04	1E-03	#N/A		1.0E-04			#N/A		8.8E-05	3E-04	#N/A		3.2E-05		
									Total		**0E+00**		**2E-01**		**0E+00**		**5E-06**	**5E-06**		**0E+00**		**1E-01**		**0E+00**		**2E-06**	**2E-06**
										Total HQ or Risks > LOPC?:			**Yes**						**Total HQ or Risks > LOPC?:**			**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Worker_Non-Contact Intensive

Exposure Area: Cloverleaf Branch

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	#N/A	9.78E-07
Cancer:	#N/A	3.49E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	12,300	7,520	7,780	9,200	1.0E+00	--		#N/A		7.6E-03	8E-03	#N/A		2.7E-03			#N/A		9.0E-03	9E-03	#N/A		3.2E-03		
	Antimony	7440360	1.6	1.1	1.0	1.2	4.0E-04	--		#N/A		9.8E-07	2E-03	#N/A		3.5E-07			#N/A		1.2E-06	3E-03	#N/A		4.3E-07		
	Arsenic	7440382	7.0	3.6	2.3	4.3	2.4E-04	1.9E+00	(j)	#N/A		2.3E-06	9E-03	#N/A		8.0E-07	2E-06	2E-06	#N/A		4.2E-06	2E-02	#N/A		1.5E-06	3E-06	3E-06
	Barium	7440393	152	80	66	99	2.0E-01	--		#N/A		6.4E-05	3E-04	#N/A		2.3E-05			#N/A		9.7E-05	5E-04	#N/A		3.5E-05		
	Beryllium	7440417	0.93	0.59	0.63	0.72	2.0E-03	--		#N/A		6.2E-07	3E-04	#N/A		2.2E-07			#N/A		7.0E-07	4E-04	#N/A		2.5E-07		
	Cadmium	7440439	2.40	0.63	3.10	2.04	1.0E-03	--	(a)	#N/A		3.0E-06	3E-03	#N/A		1.1E-06			#N/A		2.0E-06	2E-03	#N/A		7.1E-07		
	Calcium	7440702	5,200	6,050	3,100	4,783	--	--		#N/A		3.0E-03		#N/A		1.1E-03			#N/A		4.7E-03		#N/A		1.7E-03		
	Chromium	7440473	28.0	17.7	19.5	21.7	1.5E+00	--	(b)	#N/A		1.9E-05	1E-05	#N/A		6.8E-06			#N/A		2.1E-05	1E-05	#N/A		7.6E-06		
	Cobalt	7440484	10.0	6.7	5.6	7.4	3.0E-04	--		#N/A		5.5E-06	2E-02	#N/A		2.0E-06			#N/A		7.3E-06	2E-02	#N/A		2.6E-06		
	Copper	7440508	29	16	15	20	4.0E-02	--		#N/A		1.4E-05	4E-04	#N/A		5.2E-06			#N/A		1.9E-05	5E-04	#N/A		6.9E-06		
	Iron	7439896	22,600	15,200	13,300	17,033	7.0E-01	--		#N/A		1.3E-02	2E-02	#N/A		4.6E-03			#N/A		1.7E-02	2E-02	#N/A		6.0E-03		
	Lead	7439921	102	16	51	56			(c)																		
	Magnesium	7439954	6,530	4,520	4,040	5,030	--	--		#N/A		4.0E-03		#N/A		1.4E-03			#N/A		4.9E-03		#N/A		1.8E-03		
	Manganese	7439965	526	194	145	288	4.7E-02	--	(d)	#N/A		1.4E-04	3E-03	#N/A		5.1E-05			#N/A		2.8E-04	6E-03	#N/A		1.0E-04		
	Mercury	7439976	0.210	0.030	0.062	0.101	3.0E-04	--	(i)	#N/A		6.1E-08	2E-04	#N/A		2.2E-08			#N/A		9.8E-08	3E-04	#N/A		3.5E-08		
	Nickel	7440020	23.8	15.9	14.0	17.9	2.0E-02	--		#N/A		1.4E-05	7E-04	#N/A		4.9E-06			#N/A		1.8E-05	9E-04	#N/A		6.3E-06		
	Potassium	7440097	2,190	1,210	1,200	1,533	--	--		#N/A		1.2E-03		#N/A		4.2E-04			#N/A		1.5E-03		#N/A		5.4E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.60	0.55	0.60	0.58	5.0E-03	--		#N/A		5.9E-07	1E-04	#N/A		2.1E-07			#N/A		5.7E-07	1E-04	#N/A		2.0E-07		
	Sodium	7440235	245	147	94	162	--	--		#N/A		9.2E-05		#N/A		3.3E-05			#N/A		1.6E-04		#N/A		5.7E-05		
	Thallium	7440280	1.55	1.35	1.55	1.48	6.5E-05	--		#N/A		1.5E-06	2E-02	#N/A		5.4E-07			#N/A		1.5E-06	2E-02	#N/A		5.2E-07		
	Uranium	7440611	12.3	10.7	12.2	11.7	6.0E-04	--	(e)	#N/A		1.2E-05	2E-02	#N/A		4.3E-06			#N/A		1.1E-05	2E-02	#N/A		4.1E-06		
	Vanadium	7440622	35.6	26.6	21.9	28.0	7.0E-03	--		#N/A		2.1E-05	3E-03	#N/A		7.7E-06			#N/A		2.7E-05	4E-03	#N/A		9.8E-06		
	Zinc	7440666	295	90	220	202	3.0E-01	--		#N/A		8.8E-05	3E-04	#N/A		3.2E-05			#N/A		2.0E-04	7E-04	#N/A		7.1E-05		
									Total		**0E+00**		**1E-01**		**0E+00**		**2E-06**	**2E-06**		**0E+00**		**1E-01**		**0E+00**		**3E-06**	**3E-06**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**			

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Worker_Non-Contact Intensive

Exposure Area: Columbia Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	#N/A	9.78E-07
Cancer:	#N/A	3.49E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER										MIDDLE								
										Non-Cancer				Cancer						Non-Cancer				Cancer				
										Child		Adult		Child		Adult				Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	11,617	10,660	8,947	10,408	1.0E+00	--		#N/A		1.1E-02	1E-02	#N/A		4.1E-03				#N/A		1.0E-02	1E-02	#N/A		3.7E-03		
	Antimony	7440360	1.1	1.0	1.0	1.0	4.0E-04	--		#N/A		1.1E-06	3E-03	#N/A		3.9E-07				#N/A		9.4E-07	2E-03	#N/A		3.4E-07		
	Arsenic	7440382	4.7	5.4	3.8	4.6	2.4E-04	1.9E+00	(j)	#N/A		4.6E-06	2E-02	#N/A		1.6E-06	3E-06	3E-06		#N/A		5.3E-06	2E-02	#N/A		1.9E-06	4E-06	4E-06
	Barium	7440393	116	100	81	99	2.0E-01	--		#N/A		1.1E-04	6E-04	#N/A		4.1E-05				#N/A		9.7E-05	5E-04	#N/A		3.5E-05		
	Beryllium	7440417	0.86	0.71	0.57	0.71	2.0E-03	--		#N/A		8.4E-07	4E-04	#N/A		3.0E-07				#N/A		6.9E-07	3E-04	#N/A		2.5E-07		
	Cadmium	7440439	1.63	0.45	0.33	0.80	1.0E-03	--	(a)	#N/A		1.6E-06	2E-03	#N/A		5.7E-07				#N/A		4.4E-07	4E-04	#N/A		1.6E-07		
	Calcium	7440702	2,980	2,333	2,017	2,443	--	--		#N/A		2.9E-03		#N/A		1.0E-03				#N/A		2.3E-03		#N/A		8.2E-04		
	Chromium	7440473	16.9	14.3	12.1	14.4	1.5E+00	--	(b)	#N/A		1.7E-05	1E-05	#N/A		5.9E-06				#N/A		1.4E-05	9E-06	#N/A		5.0E-06		
	Cobalt	7440484	7.7	6.3	5.4	6.5	3.0E-04	--		#N/A		7.5E-06	3E-02	#N/A		2.7E-06				#N/A		6.2E-06	2E-02	#N/A		2.2E-06		
	Copper	7440508	19	11	9	13	4.0E-02	--		#N/A		1.9E-05	5E-04	#N/A		6.7E-06				#N/A		1.1E-05	3E-04	#N/A		4.0E-06		
	Iron	7439896	16,700	15,933	14,400	15,678	7.0E-01	--		#N/A		1.6E-02	2E-02	#N/A		5.8E-03				#N/A		1.6E-02	2E-02	#N/A		5.6E-03		
	Lead	7439921	58	18	11	29			(c)																			
	Magnesium	7439954	4,107	3,890	3,487	3,828	--	--		#N/A		4.0E-03		#N/A		1.4E-03				#N/A		3.8E-03		#N/A		1.4E-03		
	Manganese	7439965	283	190	167	214	4.7E-02	--	(d)	#N/A		2.8E-04	6E-03	#N/A		9.9E-05				#N/A		1.9E-04	4E-03	#N/A		6.7E-05		
	Mercury	7439976	0.136	0.029	0.017	0.061	3.0E-04	--	(i)	#N/A		1.3E-07	4E-04	#N/A		4.8E-08				#N/A		2.8E-08	9E-05	#N/A		1.0E-08		
	Nickel	7440020	14.6	11.8	10.2	12.2	2.0E-02	--		#N/A		1.4E-05	7E-04	#N/A		5.1E-06				#N/A		1.2E-05	6E-04	#N/A		4.1E-06		
	Potassium	7440097	2,210	1,840	1,413	1,821	--	--		#N/A		2.2E-03		#N/A		7.7E-04				#N/A		1.8E-03		#N/A		6.4E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A				#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.55	0.52	0.53	0.54	5.0E-03	--		#N/A		5.4E-07	1E-04	#N/A		1.9E-07				#N/A		5.1E-07	1E-04	#N/A		1.8E-07		
	Sodium	7440235	144	103	93	113	--	--		#N/A		1.4E-04		#N/A		5.0E-05				#N/A		1.0E-04		#N/A		3.6E-05		
	Thallium	7440280	1.37	1.32	1.33	1.34	6.5E-05	--		#N/A		1.3E-06	2E-02	#N/A		4.8E-07				#N/A		1.3E-06	2E-02	#N/A		4.6E-07		
	Uranium	7440611	10.2	10.5	10.6	10.4	6.0E-04	--	(e)	#N/A		1.0E-05	2E-02	#N/A		3.6E-06				#N/A		1.0E-05	2E-02	#N/A		3.7E-06		
	Vanadium	7440622	23.0	21.0	18.0	20.7	7.0E-03	--		#N/A		2.2E-05	3E-03	#N/A		8.0E-06				#N/A		2.1E-05	3E-03	#N/A		7.4E-06		
	Zinc	7440666	233	143	120	165	3.0E-01	--		#N/A		2.3E-04	8E-04	#N/A		8.2E-05				#N/A		1.4E-04	5E-04	#N/A		5.0E-05		
									Total		**0E+00**		**1E-01**		**0E+00**		**3E-06**	**3E-06**			**0E+00**		**1E-01**			**0E+00**		**4E-06**	**4E-06**
										Total HQ or Risks > LOPC?:				**Yes**						**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Worker_Non-Contact Intensive

Exposure Area: Columbia Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	#N/A	9.78E-07
Cancer:	#N/A	3.49E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	11,617	10,660	8,947	10,408	1.0E+00	--		#N/A		8.8E-03	9E-03	#N/A		3.1E-03			#N/A		1.0E-02	1E-02	#N/A		3.6E-03		
	Antimony	7440360	1.1	1.0	1.0	1.0	4.0E-04	--		#N/A		1.0E-06	3E-03	#N/A		3.6E-07			#N/A		1.0E-06	3E-03	#N/A		3.6E-07		
	Arsenic	7440382	4.7	5.4	3.8	4.6	2.4E-04	1.9E+00	(j)	#N/A		3.8E-06	2E-02	#N/A		1.3E-06	3E-06	3E-06	#N/A		4.5E-06	2E-02	#N/A		1.6E-06	3E-06	3E-06
	Barium	7440393	116	100	81	99	2.0E-01	--		#N/A		8.0E-05	4E-04	#N/A		2.8E-05			#N/A		9.7E-05	5E-04	#N/A		3.5E-05		
	Beryllium	7440417	0.86	0.71	0.57	0.71	2.0E-03	--		#N/A		5.5E-07	3E-04	#N/A		2.0E-07			#N/A		6.9E-07	3E-04	#N/A		2.5E-07		
	Cadmium	7440439	1.63	0.45	0.33	0.80	1.0E-03	--	(a)	#N/A		3.3E-07	3E-04	#N/A		1.2E-07			#N/A		7.8E-07	8E-04	#N/A		2.8E-07		
	Calcium	7440702	2,980	2,333	2,017	2,443	--	--		#N/A		2.0E-03		#N/A		7.0E-04			#N/A		2.4E-03		#N/A		8.5E-04		
	Chromium	7440473	16.9	14.3	12.1	14.4	1.5E+00	--	(b)	#N/A		1.2E-05	8E-06	#N/A		4.2E-06			#N/A		1.4E-05	9E-06	#N/A		5.0E-06		
	Cobalt	7440484	7.7	6.3	5.4	6.5	3.0E-04	--		#N/A		5.3E-06	2E-02	#N/A		1.9E-06			#N/A		6.3E-06	2E-02	#N/A		2.3E-06		
	Copper	7440508	19	11	9	13	4.0E-02	--		#N/A		8.5E-06	2E-04	#N/A		3.0E-06			#N/A		1.3E-05	3E-04	#N/A		4.6E-06		
	Iron	7439896	16,700	15,933	14,400	15,678	7.0E-01	--		#N/A		1.4E-02	2E-02	#N/A		5.0E-03			#N/A		1.5E-02	2E-02	#N/A		5.5E-03		
	Lead	7439921	58	18	11	29			(c)																		
	Magnesium	7439954	4,107	3,890	3,487	3,828	--	--		#N/A		3.4E-03		#N/A		1.2E-03			#N/A		3.7E-03		#N/A		1.3E-03		
	Manganese	7439965	283	190	167	214	4.7E-02	--	(d)	#N/A		1.6E-04	4E-03	#N/A		5.8E-05			#N/A		2.1E-04	4E-03	#N/A		7.5E-05		
	Mercury	7439976	0.136	0.029	0.017	0.061	3.0E-04	--	(i)	#N/A		1.7E-08	6E-05	#N/A		5.9E-09			#N/A		5.9E-08	2E-04	#N/A		2.1E-08		
	Nickel	7440020	14.6	11.8	10.2	12.2	2.0E-02	--		#N/A		1.0E-05	5E-04	#N/A		3.6E-06			#N/A		1.2E-05	6E-04	#N/A		4.3E-06		
	Potassium	7440097	2,210	1,840	1,413	1,821	--	--		#N/A		1.4E-03		#N/A		4.9E-04			#N/A		1.8E-03		#N/A		6.4E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.55	0.52	0.53	0.54	5.0E-03	--		#N/A		5.2E-07	1E-04	#N/A		1.9E-07			#N/A		5.2E-07	1E-04	#N/A		1.9E-07		
	Sodium	7440235	144	103	93	113	--	--		#N/A		9.1E-05		#N/A		3.3E-05			#N/A		1.1E-04		#N/A		4.0E-05		
	Thallium	7440280	1.37	1.32	1.33	1.34	6.5E-05	--		#N/A		1.3E-06	2E-02	#N/A		4.7E-07			#N/A		1.3E-06	2E-02	#N/A		4.7E-07		
	Uranium	7440611	10.2	10.5	10.6	10.4	6.0E-04	--	(e)	#N/A		1.0E-05	2E-02	#N/A		3.7E-06			#N/A		1.0E-05	2E-02	#N/A		3.6E-06		
	Vanadium	7440622	23.0	21.0	18.0	20.7	7.0E-03	--		#N/A		1.8E-05	3E-03	#N/A		6.3E-06			#N/A		2.0E-05	3E-03	#N/A		7.2E-06		
	Zinc	7440666	233	143	120	165	3.0E-01	--		#N/A		1.4E-04	5E-04	#N/A		5.0E-05			#N/A		1.6E-04	5E-04	#N/A		5.8E-05		
									Total		**0E+00**		**1E-01**		**0E+00**		**3E-06**	**3E-06**		**0E+00**		**1E-01**		**0E+00**		**3E-06**	**3E-06**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Worker_Non-Contact Intensive

Exposure Area: Dalles Orchard

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	#N/A	9.78E-07
Cancer:	#N/A	3.49E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	11,300	11,900	10,700	11,300	1.0E+00	--		#N/A		1.1E-02	1E-02	#N/A		3.9E-03			#N/A		1.2E-02	1E-02	#N/A		4.2E-03		
	Antimony	7440360	24.8	32.4	11.2	22.8	4.0E-04	--		#N/A		2.4E-05	6E-02	#N/A		8.7E-06			#N/A		3.2E-05	8E-02	#N/A		1.1E-05		
	Arsenic	7440382	18.1	22.5	13.7	18.1	2.4E-04	1.9E+00	(j)	#N/A		1.8E-05	7E-02	#N/A		6.3E-06	1E-05	1E-05	#N/A		2.2E-05	9E-02	#N/A		7.9E-06	1E-05	1E-05
	Barium	7440393	1,020	1,070	686	925	2.0E-01	--		#N/A		1.0E-03	5E-03	#N/A		3.6E-04			#N/A		1.0E-03	5E-03	#N/A		3.7E-04		
	Beryllium	7440417	0.84	0.88	0.77	0.83	2.0E-03	--		#N/A		8.2E-07	4E-04	#N/A		2.9E-07			#N/A		8.6E-07	4E-04	#N/A		3.1E-07		
	Cadmium	7440439	2.10	1.90	2.50	2.17	1.0E-03	--	(a)	#N/A		2.1E-06	2E-03	#N/A		7.3E-07			#N/A		1.9E-06	2E-03	#N/A		6.6E-07		
	Calcium	7440702	37,700	39,900	35,100	37,567	--	--		#N/A		3.7E-02		#N/A		1.3E-02			#N/A		3.9E-02		#N/A		1.4E-02		
	Chromium	7440473	71.9	77.6	51.3	66.9	1.5E+00	--	(b)	#N/A		7.0E-05	5E-05	#N/A		2.5E-05			#N/A		7.6E-05	5E-05	#N/A		2.7E-05		
	Cobalt	7440484	35.1	36.8	22.4	31.4	3.0E-04	--		#N/A		3.4E-05	1E-01	#N/A		1.2E-05			#N/A		3.6E-05	1E-01	#N/A		1.3E-05		
	Copper	7440508	1,300	1,380	802	1,161	4.0E-02	--		#N/A		1.3E-03	3E-02	#N/A		4.5E-04			#N/A		1.4E-03	3E-02	#N/A		4.8E-04		
	Iron	7439896	108,000	110,000	82,100	100,033	7.0E-01	--		#N/A		1.1E-01	2E-01	#N/A		3.8E-02			#N/A		1.1E-01	2E-01	#N/A		3.8E-02		
	Lead	7439921	205	190	214	203			(c)																		
	Magnesium	7439954	5,640	6,450	9,090	7,060	--	--		#N/A		5.5E-03		#N/A		2.0E-03			#N/A		6.3E-03		#N/A		2.3E-03		
	Manganese	7439965	2,110	2,200	1,660	1,990	4.7E-02	--	(d)	#N/A		2.1E-03	4E-02	#N/A		7.4E-04			#N/A		2.2E-03	5E-02	#N/A		7.7E-04		
	Mercury	7439976	0.034	0.044	0.073	0.050	3.0E-04	--	(i)	#N/A		3.3E-08	1E-04	#N/A		1.2E-08			#N/A		4.3E-08	1E-04	#N/A		1.5E-08		
	Nickel	7440020	10.4	12.1	10.4	11.0	2.0E-02	--		#N/A		1.0E-05	5E-04	#N/A		3.6E-06			#N/A		1.2E-05	6E-04	#N/A		4.2E-06		
	Potassium	7440097	2,270	2,300	2,030	2,200	--	--		#N/A		2.2E-03		#N/A		7.9E-04			#N/A		2.3E-03		#N/A		8.0E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.50	0.49	0.50	0.50	5.0E-03	--		#N/A		4.9E-07	1E-04	#N/A		1.7E-07			#N/A		4.7E-07	9E-05	#N/A		1.7E-07		
	Sodium	7440235	1,200	1,300	811	1,104	--	--		#N/A		1.2E-03		#N/A		4.2E-04			#N/A		1.3E-03		#N/A		4.5E-04		
	Thallium	7440280	0.83	1.10	1.30	1.08	6.5E-05	--		#N/A		8.1E-07	1E-02	#N/A		2.9E-07			#N/A		1.1E-06	2E-02	#N/A		3.8E-07		
	Uranium	7440611	10.2	9.7	10.5	10.1	6.0E-04	--	(e)	#N/A		1.0E-05	2E-02	#N/A		3.6E-06			#N/A		9.5E-06	2E-02	#N/A		3.4E-06		
	Vanadium	7440622	28.2	29.2	27.2	28.2	7.0E-03	--		#N/A		2.8E-05	4E-03	#N/A		9.9E-06			#N/A		2.9E-05	4E-03	#N/A		1.0E-05		
	Zinc	7440666	8,700	8,410	6,560	7,890	3.0E-01	--		#N/A		8.5E-03	3E-02	#N/A		3.0E-03			#N/A		8.2E-03	3E-02	#N/A		2.9E-03		
									Total		**0E+00**		**6E-01**		**0E+00**		**1E-05**	**1E-05**		**0E+00**		**6E-01**			**1E-05**	**1E-05**
										Total HQ or Risks > LOPC?:			**Yes**						**Total HQ or Risks > LOPC?:**			**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Worker_Non-Contact Intensive

Exposure Area: Dalles Orchard

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	#N/A	9.78E-07
Cancer:	#N/A	3.49E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	11,300	11,900	10,700	11,300	1.0E+00	--		#N/A		1.0E-02	1E-02	#N/A		3.7E-03			#N/A		1.1E-02	1E-02	#N/A		3.9E-03		
	Antimony	7440360	24.8	32.4	11.2	22.8	4.0E-04	--		#N/A		1.1E-05	3E-02	#N/A		3.9E-06			#N/A		2.2E-05	6E-02	#N/A		8.0E-06		
	Arsenic	7440382	18.1	22.5	13.7	18.1	2.4E-04	1.9E+00	(j)	#N/A		1.3E-05	6E-02	#N/A		4.8E-06	9E-06	9E-06	#N/A		1.8E-05	7E-02	#N/A		6.3E-06	1E-05	1E-05
	Barium	7440393	1,020	1,070	686	925	2.0E-01	--		#N/A		6.7E-04	3E-03	#N/A		2.4E-04			#N/A		9.1E-04	5E-03	#N/A		3.2E-04		
	Beryllium	7440417	0.84	0.88	0.77	0.83	2.0E-03	--		#N/A		7.5E-07	4E-04	#N/A		2.7E-07			#N/A		8.1E-07	4E-04	#N/A		2.9E-07		
	Cadmium	7440439	2.10	1.90	2.50	2.17	1.0E-03	--	(a)	#N/A		2.4E-06	2E-03	#N/A		8.7E-07			#N/A		2.1E-06	2E-03	#N/A		7.6E-07		
	Calcium	7440702	37,700	39,900	35,100	37,567	--	--		#N/A		3.4E-02		#N/A		1.2E-02			#N/A		3.7E-02		#N/A		1.3E-02		
	Chromium	7440473	71.9	77.6	51.3	66.9	1.5E+00	--	(b)	#N/A		5.0E-05	3E-05	#N/A		1.8E-05			#N/A		6.5E-05	4E-05	#N/A		2.3E-05		
	Cobalt	7440484	35.1	36.8	22.4	31.4	3.0E-04	--		#N/A		2.2E-05	7E-02	#N/A		7.8E-06			#N/A		3.1E-05	1E-01	#N/A		1.1E-05		
	Copper	7440508	1,300	1,380	802	1,161	4.0E-02	--		#N/A		7.8E-04	2E-02	#N/A		2.8E-04			#N/A		1.1E-03	3E-02	#N/A		4.1E-04		
	Iron	7439896	108,000	110,000	82,100	100,033	7.0E-01	--		#N/A		8.0E-02	1E-01	#N/A		2.9E-02			#N/A		9.8E-02	1E-01	#N/A		3.5E-02		
	Lead	7439921	205	190	214	203			(c)																		
	Magnesium	7439954	5,640	6,450	9,090	7,060	--	--		#N/A		8.9E-03		#N/A		3.2E-03			#N/A		6.9E-03		#N/A		2.5E-03		
	Manganese	7439965	2,110	2,200	1,660	1,990	4.7E-02	--	(d)	#N/A		1.6E-03	3E-02	#N/A		5.8E-04			#N/A		1.9E-03	4E-02	#N/A		7.0E-04		
	Mercury	7439976	0.034	0.044	0.073	0.050	3.0E-04	--	(i)	#N/A		7.1E-08	2E-04	#N/A		2.6E-08			#N/A		4.9E-08	2E-04	#N/A		1.8E-08		
	Nickel	7440020	10.4	12.1	10.4	11.0	2.0E-02	--		#N/A		1.0E-05	5E-04	#N/A		3.6E-06			#N/A		1.1E-05	5E-04	#N/A		3.8E-06		
	Potassium	7440097	2,270	2,300	2,030	2,200	--	--		#N/A		2.0E-03		#N/A		7.1E-04			#N/A		2.2E-03		#N/A		7.7E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.50	0.49	0.50	0.50	5.0E-03	--		#N/A		4.9E-07	1E-04	#N/A		1.7E-07			#N/A		4.8E-07	1E-04	#N/A		1.7E-07		
	Sodium	7440235	1,200	1,300	811	1,104	--	--		#N/A		7.9E-04		#N/A		2.8E-04			#N/A		1.1E-03		#N/A		3.9E-04		
	Thallium	7440280	0.83	1.10	1.30	1.08	6.5E-05	--		#N/A		1.3E-06	2E-02	#N/A		4.5E-07			#N/A		1.1E-06	2E-02	#N/A		3.8E-07		
	Uranium	7440611	10.2	9.7	10.5	10.1	6.0E-04	--	(e)	#N/A		1.0E-05	2E-02	#N/A		3.7E-06			#N/A		9.9E-06	2E-02	#N/A		3.5E-06		
	Vanadium	7440622	28.2	29.2	27.2	28.2	7.0E-03	--		#N/A		2.7E-05	4E-03	#N/A		9.5E-06			#N/A		2.8E-05	4E-03	#N/A		9.9E-06		
	Zinc	7440666	8,700	8,410	6,560	7,890	3.0E-01	--		#N/A		8.2E-03	3E-02	#N/A		2.9E-03			#N/A		7.7E-03	3E-02	#N/A		2.8E-03		
									Total		0E+00		4E-01		0E+00		9E-06	9E-06		0E+00		5E-01		0E+00		1E-05	1E-05
										Total HQ or Risks > LOPC?:			Yes						Total HQ or Risks > LOPC?:			Yes				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Worker_Non-Contact Intensive

Exposure Area: French Rocks Boat Launch

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	#N/A	9.78E-07
Cancer:	#N/A	3.49E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	6,370	6,050	6,550	6,323	1.0E+00	--		#N/A		6.2E-03	6E-03	#N/A		2.2E-03			#N/A		5.9E-03	6E-03	#N/A		2.1E-03		
	Antimony	7440360	1.0	1.0	0.4	0.8	4.0E-04	--		#N/A		9.3E-07	2E-03	#N/A		3.3E-07			#N/A		9.8E-07	2E-03	#N/A		3.5E-07		
	Arsenic	7440382	2.6	2.4	2.4	2.5	2.4E-04	1.9E+00	(j)	#N/A		2.5E-06	1E-02	#N/A		9.1E-07	2E-06	2E-06	#N/A		2.3E-06	1E-02	#N/A		8.4E-07	2E-06	2E-06
	Barium	7440393	56	58	62	59	2.0E-01	--		#N/A		5.5E-05	3E-04	#N/A		2.0E-05			#N/A		5.6E-05	3E-04	#N/A		2.0E-05		
	Beryllium	7440417	0.52	0.51	0.46	0.50	2.0E-03	--		#N/A		5.1E-07	3E-04	#N/A		1.8E-07			#N/A		5.0E-07	2E-04	#N/A		1.8E-07		
	Cadmium	7440439	0.45	0.33	0.51	0.43	1.0E-03	--	(a)	#N/A		4.4E-07	4E-04	#N/A		1.6E-07			#N/A		3.2E-07	3E-04	#N/A		1.2E-07		
	Calcium	7440702	3,050	2,430	4,830	3,437	--	--		#N/A		3.0E-03		#N/A		1.1E-03			#N/A		2.4E-03		#N/A		8.5E-04		
	Chromium	7440473	12.7	12.4	12.8	12.6	1.5E+00	--	(b)	#N/A		1.2E-05	8E-06	#N/A		4.4E-06			#N/A		1.2E-05	8E-06	#N/A		4.3E-06		
	Cobalt	7440484	4.9	4.3	4.5	4.6	3.0E-04	--		#N/A		4.8E-06	2E-02	#N/A		1.7E-06			#N/A		4.2E-06	1E-02	#N/A		1.5E-06		
	Copper	7440508	14	15	11	13	4.0E-02	--		#N/A		1.4E-05	3E-04	#N/A		4.8E-06			#N/A		1.4E-05	4E-04	#N/A		5.1E-06		
	Iron	7439896	12,000	9,960	11,000	10,987	7.0E-01	--		#N/A		1.2E-02	2E-02	#N/A		4.2E-03			#N/A		9.7E-03	1E-02	#N/A		3.5E-03		
	Lead	7439921	22	19	21	20			(c)																		
	Magnesium	7439954	3,980	2,770	4,590	3,780	--	--		#N/A		3.9E-03		#N/A		1.4E-03			#N/A		2.7E-03		#N/A		9.7E-04		
	Manganese	7439965	260	171	208	213	4.7E-02	--	(d)	#N/A		2.5E-04	5E-03	#N/A		9.1E-05			#N/A		1.7E-04	4E-03	#N/A		6.0E-05		
	Mercury	7439976	0.030	0.019	0.050	0.033	3.0E-04	--	(i)	#N/A		2.9E-08	1E-04	#N/A		1.0E-08			#N/A		1.9E-08	6E-05	#N/A		6.6E-09		
	Nickel	7440020	10.9	9.6	15.0	11.8	2.0E-02	--		#N/A		1.1E-05	5E-04	#N/A		3.8E-06			#N/A		9.4E-06	5E-04	#N/A		3.4E-06		
	Potassium	7440097	775	843	749	789	--	--		#N/A		7.6E-04		#N/A		2.7E-04			#N/A		8.2E-04		#N/A		2.9E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.55	0.50	0.45	0.50	5.0E-03	--		#N/A		5.4E-07	1E-04	#N/A		1.9E-07			#N/A		4.9E-07	1E-04	#N/A		1.7E-07		
	Sodium	7440235	155	131	134	140	--	--		#N/A		1.5E-04		#N/A		5.4E-05			#N/A		1.3E-04		#N/A		4.6E-05		
	Thallium	7440280	1.40	1.30	1.10	1.27	6.5E-05	--		#N/A		1.4E-06	2E-02	#N/A		4.9E-07			#N/A		1.3E-06	2E-02	#N/A		4.5E-07		
	Uranium	7440611	11.1	8.4	8.9	9.4	6.0E-04	--	(e)	#N/A		1.1E-05	2E-02	#N/A		3.9E-06			#N/A		8.2E-06	1E-02	#N/A		2.9E-06		
	Vanadium	7440622	21.7	19.6	21.9	21.1	7.0E-03	--		#N/A		2.1E-05	3E-03	#N/A		7.6E-06			#N/A		1.9E-05	3E-03	#N/A		6.8E-06		
	Zinc	7440666	97	67	92	85	3.0E-01	--		#N/A		9.5E-05	3E-04	#N/A		3.4E-05			#N/A		6.6E-05	2E-04	#N/A		2.3E-05		
									Total		**0E+00**		**1E-01**		**0E+00**		**2E-06**	**2E-06**		**0E+00**		**9E-02**		**0E+00**		**2E-06**	**2E-06**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Worker_Non-Contact Intensive

Exposure Area: French Rocks Boat Launch

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	#N/A	9.78E-07
Cancer:	#N/A	3.49E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	6,370	6,050	6,550	6,323	1.0E+00	--		#N/A		6.4E-03	6E-03	#N/A		2.3E-03			#N/A		6.2E-03	6E-03	#N/A		2.2E-03		
	Antimony	7440360	1.0	1.0	0.4	0.8	4.0E-04	--		#N/A		4.1E-07	1E-03	#N/A		1.5E-07			#N/A		7.7E-07	2E-03	#N/A		2.8E-07		
	Arsenic	7440382	2.6	2.4	2.4	2.5	2.4E-04	1.9E+00	(j)	#N/A		2.3E-06	1E-02	#N/A		8.4E-07	2E-06	2E-06	#N/A		2.4E-06	1E-02	#N/A		8.6E-07	2E-06	2E-06
	Barium	7440393	56	58	62	59	2.0E-01	--		#N/A		6.0E-05	3E-04	#N/A		2.2E-05			#N/A		5.7E-05	3E-04	#N/A		2.0E-05		
	Beryllium	7440417	0.52	0.51	0.46	0.50	2.0E-03	--		#N/A		4.5E-07	2E-04	#N/A		1.6E-07			#N/A		4.9E-07	2E-04	#N/A		1.7E-07		
	Cadmium	7440439	0.45	0.33	0.51	0.43	1.0E-03	--	(a)	#N/A		5.0E-07	5E-04	#N/A		1.8E-07			#N/A		4.2E-07	4E-04	#N/A		1.5E-07		
	Calcium	7440702	3,050	2,430	4,830	3,437	--	--		#N/A		4.7E-03		#N/A		1.7E-03			#N/A		3.4E-03		#N/A		1.2E-03		
	Chromium	7440473	12.7	12.4	12.8	12.6	1.5E+00	--	(b)	#N/A		1.3E-05	8E-06	#N/A		4.5E-06			#N/A		1.2E-05	8E-06	#N/A		4.4E-06		
	Cobalt	7440484	4.9	4.3	4.5	4.6	3.0E-04	--		#N/A		4.4E-06	1E-02	#N/A		1.6E-06			#N/A		4.5E-06	1E-02	#N/A		1.6E-06		
	Copper	7440508	14	15	11	13	4.0E-02	--		#N/A		1.1E-05	3E-04	#N/A		3.8E-06			#N/A		1.3E-05	3E-04	#N/A		4.6E-06		
	Iron	7439896	12,000	9,960	11,000	10,987	7.0E-01	--		#N/A		1.1E-02	2E-02	#N/A		3.8E-03			#N/A		1.1E-02	2E-02	#N/A		3.8E-03		
	Lead	7439921	22	19	21	20			(c)																		
	Magnesium	7439954	3,980	2,770	4,590	3,780	--	--		#N/A		4.5E-03		#N/A		1.6E-03			#N/A		3.7E-03		#N/A		1.3E-03		
	Manganese	7439965	260	171	208	213	4.7E-02	--	(d)	#N/A		2.0E-04	4E-03	#N/A		7.3E-05			#N/A		2.1E-04	4E-03	#N/A		7.4E-05		
	Mercury	7439976	0.030	0.019	0.050	0.033	3.0E-04	--	(i)	#N/A		4.8E-08	2E-04	#N/A		1.7E-08			#N/A		3.2E-08	1E-04	#N/A		1.1E-08		
	Nickel	7440020	10.9	9.6	15.0	11.8	2.0E-02	--		#N/A		1.5E-05	7E-04	#N/A		5.2E-06			#N/A		1.2E-05	6E-04	#N/A		4.1E-06		
	Potassium	7440097	775	843	749	789	--	--		#N/A		7.3E-04		#N/A		2.6E-04			#N/A		7.7E-04		#N/A		2.8E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.55	0.50	0.45	0.50	5.0E-03	--		#N/A		4.4E-07	9E-05	#N/A		1.6E-07			#N/A		4.9E-07	1E-04	#N/A		1.7E-07		
	Sodium	7440235	155	131	134	140	--	--		#N/A		1.3E-04		#N/A		4.7E-05			#N/A		1.4E-04		#N/A		4.9E-05		
	Thallium	7440280	1.40	1.30	1.10	1.27	6.5E-05	--		#N/A		1.1E-06	2E-02	#N/A		3.8E-07			#N/A		1.2E-06	2E-02	#N/A		4.4E-07		
	Uranium	7440611	11.1	8.4	8.9	9.4	6.0E-04	--	(e)	#N/A		8.7E-06	1E-02	#N/A		3.1E-06			#N/A		9.2E-06	2E-02	#N/A		3.3E-06		
	Vanadium	7440622	21.7	19.6	21.9	21.1	7.0E-03	--		#N/A		2.1E-05	3E-03	#N/A		7.7E-06			#N/A		2.1E-05	3E-03	#N/A		7.4E-06		
	Zinc	7440666	97	67	92	85	3.0E-01	--		#N/A		6.6E-05	2E-04	#N/A		2.3E-05			#N/A		8.4E-05	3E-04	#N/A		3.0E-05		
									Total		**0E+00**		**9E-02**		**0E+00**		**2E-06**	**2E-06**		**0E+00**		**9E-02**		**0E+00**		**2E-06**	**2E-06**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:

(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Worker_Non-Contact Intensive

Exposure Area: Haag Cove

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	#N/A	9.78E-07
Cancer:	#N/A	3.49E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	13,000	7,660	3,000	7,887	1.0E+00	--		#N/A		1.3E-02	1E-02	#N/A		4.5E-03			#N/A		7.5E-03	7E-03	#N/A		2.7E-03		
	Antimony	7440360	1.8	1.8	0.3	1.3	4.0E-04	--		#N/A		1.8E-06	4E-03	#N/A		6.3E-07			#N/A		1.8E-06	4E-03	#N/A		6.3E-07		
	Arsenic	7440382	2.3	1.4	1.0	1.6	2.4E-04	1.9E+00	(j)	#N/A		2.3E-06	9E-03	#N/A		8.0E-07	2E-06	2E-06	#N/A		1.4E-06	6E-03	#N/A		4.9E-07	9E-07	9E-07
	Barium	7440393	232	102	30	121	2.0E-01	--		#N/A		2.3E-04	1E-03	#N/A		8.1E-05			#N/A		1.0E-04	5E-04	#N/A		3.6E-05		
	Beryllium	7440417	1.20	0.69	0.28	0.72	2.0E-03	--		#N/A		1.2E-06	6E-04	#N/A		4.2E-07			#N/A		6.8E-07	3E-04	#N/A		2.4E-07		
	Cadmium	7440439	7.80	4.40	0.32	4.17	1.0E-03	--	(a)	#N/A		7.6E-06	8E-03	#N/A		2.7E-06			#N/A		4.3E-06	4E-03	#N/A		1.5E-06		
	Calcium	7440702	5,670	2,550	879	3,033	--	--		#N/A		5.5E-03		#N/A		2.0E-03			#N/A		2.5E-03		#N/A		8.9E-04		
	Chromium	7440473	24.8	14.6	5.6	15.0	1.5E+00	--	(b)	#N/A		2.4E-05	2E-05	#N/A		8.7E-06			#N/A		1.4E-05	1E-05	#N/A		5.1E-06		
	Cobalt	7440484	8.7	5.2	2.3	5.4	3.0E-04	--		#N/A		8.5E-06	3E-02	#N/A		3.0E-06			#N/A		5.1E-06	2E-02	#N/A		1.8E-06		
	Copper	7440508	34	17	4	18	4.0E-02	--		#N/A		3.3E-05	8E-04	#N/A		1.2E-05			#N/A		1.6E-05	4E-04	#N/A		5.8E-06		
	Iron	7439896	18,100	11,800	5,180	11,693	7.0E-01	--		#N/A		1.8E-02	3E-02	#N/A		6.3E-03			#N/A		1.2E-02	2E-02	#N/A		4.1E-03		
	Lead	7439921	222	136	17	125			(c)																		
	Magnesium	7439954	5,220	3,210	1,390	3,273	--	--		#N/A		5.1E-03		#N/A		1.8E-03			#N/A		3.1E-03		#N/A		1.1E-03		
	Manganese	7439965	267	158	111	179	4.7E-02	--	(d)	#N/A		2.6E-04	6E-03	#N/A		9.3E-05			#N/A		1.5E-04	3E-03	#N/A		5.5E-05		
	Mercury	7439976	0.800	0.290	0.050	0.380	3.0E-04	--	(i)	#N/A		7.8E-07	3E-03	#N/A		2.8E-07			#N/A		2.8E-07	9E-04	#N/A		1.0E-07		
	Nickel	7440020	19.7	11.2	4.1	11.7	2.0E-02	--		#N/A		1.9E-05	1E-03	#N/A		6.9E-06			#N/A		1.1E-05	5E-04	#N/A		3.9E-06		
	Potassium	7440097	2,260	1,120	483	1,288	--	--		#N/A		2.2E-03		#N/A		7.9E-04			#N/A		1.1E-03		#N/A		3.9E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.75	0.60	0.43	0.59	5.0E-03	--		#N/A		7.3E-07	1E-04	#N/A		2.6E-07			#N/A		5.9E-07	1E-04	#N/A		2.1E-07		
	Sodium	7440235	242	125	60	142	--	--		#N/A		2.4E-04		#N/A		8.5E-05			#N/A		1.2E-04		#N/A		4.4E-05		
	Thallium	7440280	1.90	1.45	1.10	1.48	6.5E-05	--		#N/A		1.9E-06	3E-02	#N/A		6.6E-07			#N/A		1.4E-06	2E-02	#N/A		5.1E-07		
	Uranium	7440611	15.1	11.6	8.7	11.8	6.0E-04	--	(e)	#N/A		1.5E-05	2E-02	#N/A		5.3E-06			#N/A		1.1E-05	2E-02	#N/A		4.0E-06		
	Vanadium	7440622	29.0	19.8	9.1	19.3	7.0E-03	--		#N/A		2.8E-05	4E-03	#N/A		1.0E-05			#N/A		1.9E-05	3E-03	#N/A		6.9E-06		
	Zinc	7440666	700	391	54	382	3.0E-01	--		#N/A		6.8E-04	2E-03	#N/A		2.4E-04			#N/A		3.8E-04	1E-03	#N/A		1.4E-04		
									Total		**0E+00**		**2E-01**		**0E+00**		**2E-06**	**2E-06**		**0E+00**		**1E-01**		**0E+00**		**9E-07**	**9E-07**
										Total HQ or Risks > LOPC?:		**Yes**							**Total HQ or Risks > LOPC?:**		**Yes**					

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Worker_Non-Contact Intensive

Exposure Area: Haag Cove

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	#N/A	9.78E-07
Cancer:	#N/A	3.49E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	13,000	7,660	3,000	7,887	1.0E+00	--		#N/A		2.9E-03	3E-03	#N/A		1.0E-03			#N/A		7.7E-03	8E-03	#N/A		2.8E-03		
	Antimony	7440360	1.8	1.8	0.3	1.3	4.0E-04	--		#N/A		2.8E-07	7E-04	#N/A		1.0E-07			#N/A		1.3E-06	3E-03	#N/A		4.5E-07		
	Arsenic	7440382	2.3	1.4	1.0	1.6	2.4E-04	1.9E+00	(j)	#N/A		9.8E-07	4E-03	#N/A		3.5E-07	7E-07	7E-07	#N/A		1.5E-06	6E-03	#N/A		5.5E-07	1E-06	1E-06
	Barium	7440393	232	102	30	121	2.0E-01	--		#N/A		2.9E-05	1E-04	#N/A		1.0E-05			#N/A		1.2E-04	6E-04	#N/A		4.2E-05		
	Beryllium	7440417	1.20	0.69	0.28	0.72	2.0E-03	--		#N/A		2.7E-07	1E-04	#N/A		9.8E-08			#N/A		7.1E-07	4E-04	#N/A		2.5E-07		
	Cadmium	7440439	7.80	4.40	0.32	4.17	1.0E-03	--	(a)	#N/A		3.1E-07	3E-04	#N/A		1.1E-07			#N/A		4.1E-06	4E-03	#N/A		1.5E-06		
	Calcium	7440702	5,670	2,550	879	3,033	--	--		#N/A		8.6E-04		#N/A		3.1E-04			#N/A		3.0E-03		#N/A		1.1E-03		
	Chromium	7440473	24.8	14.6	5.6	15.0	1.5E+00	--	(b)	#N/A		5.5E-06	4E-06	#N/A		2.0E-06			#N/A		1.5E-05	1E-05	#N/A		5.2E-06		
	Cobalt	7440484	8.7	5.2	2.3	5.4	3.0E-04	--		#N/A		2.3E-06	8E-03	#N/A		8.0E-07			#N/A		5.3E-06	2E-02	#N/A		1.9E-06		
	Copper	7440508	34	17	4	18	4.0E-02	--		#N/A		4.1E-06	1E-04	#N/A		1.5E-06			#N/A		1.8E-05	4E-04	#N/A		6.4E-06		
	Iron	7439896	18,100	11,800	5,180	11,693	7.0E-01	--		#N/A		5.1E-03	7E-03	#N/A		1.8E-03			#N/A		1.1E-02	2E-02	#N/A		4.1E-03		
	Lead	7439921	222	136	17	125			(c)																		
	Magnesium	7439954	5,220	3,210	1,390	3,273	--	--		#N/A		1.4E-03		#N/A		4.9E-04			#N/A		3.2E-03		#N/A		1.1E-03		
	Manganese	7439965	267	158	111	179	4.7E-02	--	(d)	#N/A		1.1E-04	2E-03	#N/A		3.9E-05			#N/A		1.7E-04	4E-03	#N/A		6.2E-05		
	Mercury	7439976	0.800	0.290	0.050	0.380	3.0E-04	--	(i)	#N/A		4.8E-08	2E-04	#N/A		1.7E-08			#N/A		3.7E-07	1E-03	#N/A		1.3E-07		
	Nickel	7440020	19.7	11.2	4.1	11.7	2.0E-02	--		#N/A		4.0E-06	2E-04	#N/A		1.4E-06			#N/A		1.1E-05	6E-04	#N/A		4.1E-06		
	Potassium	7440097	2,260	1,120	483	1,288	--	--		#N/A		4.7E-04		#N/A		1.7E-04			#N/A		1.3E-03		#N/A		4.5E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.75	0.60	0.43	0.59	5.0E-03	--		#N/A		4.2E-07	8E-05	#N/A		1.5E-07			#N/A		5.8E-07	1E-04	#N/A		2.1E-07		
	Sodium	7440235	242	125	60	142	--	--		#N/A		5.9E-05		#N/A		2.1E-05			#N/A		1.4E-04		#N/A		5.0E-05		
	Thallium	7440280	1.90	1.45	1.10	1.48	6.5E-05	--		#N/A		1.1E-06	2E-02	#N/A		3.8E-07			#N/A		1.5E-06	2E-02	#N/A		5.2E-07		
	Uranium	7440611	15.1	11.6	8.7	11.8	6.0E-04	--	(e)	#N/A		8.5E-06	1E-02	#N/A		3.0E-06			#N/A		1.2E-05	2E-02	#N/A		4.1E-06		
	Vanadium	7440622	29.0	19.8	9.1	19.3	7.0E-03	--		#N/A		8.9E-06	1E-03	#N/A		3.2E-06			#N/A		1.9E-05	3E-03	#N/A		6.7E-06		
	Zinc	7440666	700	391	54	382	3.0E-01	--		#N/A		3.8E-04	1E-03	#N/A		1.4E-04			#N/A		3.7E-04	1E-03	#N/A		1.3E-04		
									Total		**0E+00**		**6E-02**		**0E+00**		**7E-07**	**7E-07**		**0E+00**		**1E-01**		**0E+00**		**1E-06**	**1E-06**
										Total HQ or Risks > LOPC?:		**No**							**Total HQ or Risks > LOPC?:**		**Yes**					

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Worker_Non-Contact Intensive

Exposure Area: Keller Ferry No. 2

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	#N/A	9.78E-07
Cancer:	#N/A	3.49E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER										MIDDLE								
										Non-Cancer				Cancer						Non-Cancer				Cancer				
										Child		Adult		Child		Adult				Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	8,620	8,030	6,270	7,640	1.0E+00	--		#N/A		8.4E-03	8E-03	#N/A		3.0E-03				#N/A		7.9E-03	8E-03	#N/A		2.8E-03		
	Antimony	7440360	#N/A	#N/A	#N/A	#N/A	4.0E-04	--		#N/A		#N/A		#N/A		#N/A				#N/A		#N/A		#N/A		#N/A		
	Arsenic	7440382	4.7	4.9	4.0	4.5	2.4E-04	1.9E+00	(j)	#N/A		4.6E-06	2E-02	#N/A		1.6E-06	3E-06	3E-06		#N/A		4.8E-06	2E-02	#N/A		1.7E-06	3E-06	3E-06
	Barium	7440393	69	59	46	58	2.0E-01	--		#N/A		6.7E-05	3E-04	#N/A		2.4E-05				#N/A		5.7E-05	3E-04	#N/A		2.0E-05		
	Beryllium	7440417	0.74	0.68	0.51	0.64	2.0E-03	--		#N/A		7.2E-07	4E-04	#N/A		2.6E-07				#N/A		6.7E-07	3E-04	#N/A		2.4E-07		
	Cadmium	7440439	0.25	0.24	0.25	0.25	1.0E-03	--	(a)	#N/A		2.4E-07	2E-04	#N/A		8.7E-08				#N/A		2.3E-07	2E-04	#N/A		8.4E-08		
	Calcium	7440702	1,940	1,760	3,880	2,527	--	--		#N/A		1.9E-03		#N/A		6.8E-04				#N/A		1.7E-03		#N/A		6.2E-04		
	Chromium	7440473	12.5	11.2	9.8	11.2	1.5E+00	--	(b)	#N/A		1.2E-05	8E-06	#N/A		4.4E-06				#N/A		1.1E-05	7E-06	#N/A		3.9E-06		
	Cobalt	7440484	5.4	5.0	3.9	4.8	3.0E-04	--		#N/A		5.3E-06	2E-02	#N/A		1.9E-06				#N/A		4.9E-06	2E-02	#N/A		1.7E-06		
	Copper	7440508	9	9	7	8	4.0E-02	--		#N/A		8.9E-06	2E-04	#N/A		3.2E-06				#N/A		8.4E-06	2E-04	#N/A		3.0E-06		
	Iron	7439896	15,600	15,500	13,100	14,733	7.0E-01	--		#N/A		1.5E-02	2E-02	#N/A		5.5E-03				#N/A		1.5E-02	2E-02	#N/A		5.4E-03		
	Lead	7439921	6	6	5	6			(c)																			
	Magnesium	7439954	4,210	4,390	4,330	4,310	--	--		#N/A		4.1E-03		#N/A		1.5E-03				#N/A		4.3E-03		#N/A		1.5E-03		
	Manganese	7439965	248	230	214	231	4.7E-02	--	(d)	#N/A		2.4E-04	5E-03	#N/A		8.7E-05				#N/A		2.3E-04	5E-03	#N/A		8.0E-05		
	Mercury	7439976	0.055	0.055	0.055	0.055	3.0E-04	--	(i)	#N/A		5.4E-08	2E-04	#N/A		1.9E-08				#N/A		5.4E-08	2E-04	#N/A		1.9E-08		
	Nickel	7440020	10.1	9.4	8.5	9.3	2.0E-02	--		#N/A		9.9E-06	5E-04	#N/A		3.5E-06				#N/A		9.2E-06	5E-04	#N/A		3.3E-06		
	Potassium	7440097	1,640	1,410	1,080	1,377	--	--		#N/A		1.6E-03		#N/A		5.7E-04				#N/A		1.4E-03		#N/A		4.9E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A				#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.50	0.48	0.50	0.49	5.0E-03	--		#N/A		4.9E-07	1E-04	#N/A		1.7E-07				#N/A		4.7E-07	9E-05	#N/A		1.7E-07		
	Sodium	7440235	75	58	49	61	--	--		#N/A		7.3E-05		#N/A		2.6E-05				#N/A		5.6E-05		#N/A		2.0E-05		
	Thallium	7440280	1.25	1.20	1.25	1.23	6.5E-05	--		#N/A		1.2E-06	2E-02	#N/A		4.4E-07				#N/A		1.2E-06	2E-02	#N/A		4.2E-07		
	Uranium	7440611	5.4	4.6	10.1	6.7	6.0E-04	--	(e)	#N/A		5.3E-06	9E-03	#N/A		1.9E-06				#N/A		4.5E-06	8E-03	#N/A		1.6E-06		
	Vanadium	7440622	19.5	17.2	14.0	16.9	7.0E-03	--		#N/A		1.9E-05	3E-03	#N/A		6.8E-06				#N/A		1.7E-05	2E-03	#N/A		6.0E-06		
	Zinc	7440666	39	44	37	40	3.0E-01	--		#N/A		3.8E-05	1E-04	#N/A		1.4E-05				#N/A		4.3E-05	1E-04	#N/A		1.5E-05		
									Total		**0E+00**		**1E-01**		**0E+00**		**3E-06**	**3E-06**			**0E+00**		**1E-01**		**0E+00**		**3E-06**	**3E-06**
										Total HQ or Risks > LOPC?:				**Yes**						**Total HQ or Risks > LOPC?:**				**Yes**			

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:

(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Worker_Non-Contact Intensive

Exposure Area: Keller Ferry No. 2

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	#N/A	9.78E-07
Cancer:	#N/A	3.49E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	8,620	8,030	6,270	7,640	1.0E+00	--		#N/A		6.1E-03	6E-03	#N/A		2.2E-03			#N/A		7.5E-03	7E-03	#N/A		2.7E-03		
	Antimony	7440360	#N/A	#N/A	#N/A	#N/A	4.0E-04	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Arsenic	7440382	4.7	4.9	4.0	4.5	2.4E-04	1.9E+00	(j)	#N/A		3.9E-06	2E-02	#N/A		1.4E-06	3E-06	3E-06	#N/A		4.4E-06	2E-02	#N/A		1.6E-06	3E-06	3E-06
	Barium	7440393	69	59	46	58	2.0E-01	--		#N/A		4.5E-05	2E-04	#N/A		1.6E-05			#N/A		5.6E-05	3E-04	#N/A		2.0E-05		
	Beryllium	7440417	0.74	0.68	0.51	0.64	2.0E-03	--		#N/A		5.0E-07	2E-04	#N/A		1.8E-07			#N/A		6.3E-07	3E-04	#N/A		2.2E-07		
	Cadmium	7440439	0.25	0.24	0.25	0.25	1.0E-03	--	(a)	#N/A		2.4E-07	2E-04	#N/A		8.7E-08			#N/A		2.4E-07	2E-04	#N/A		8.6E-08		
	Calcium	7440702	1,940	1,760	3,880	2,527	--	--		#N/A		3.8E-03		#N/A		1.4E-03			#N/A		2.5E-03		#N/A		8.8E-04		
	Chromium	7440473	12.5	11.2	9.8	11.2	1.5E+00	--	(b)	#N/A		9.6E-06	6E-06	#N/A		3.4E-06			#N/A		1.1E-05	7E-06	#N/A		3.9E-06		
	Cobalt	7440484	5.4	5.0	3.9	4.8	3.0E-04	--		#N/A		3.8E-06	1E-02	#N/A		1.4E-06			#N/A		4.7E-06	2E-02	#N/A		1.7E-06		
	Copper	7440508	9	9	7	8	4.0E-02	--		#N/A		6.6E-06	2E-04	#N/A		2.3E-06			#N/A		8.0E-06	2E-04	#N/A		2.8E-06		
	Iron	7439896	15,600	15,500	13,100	14,733	7.0E-01	--		#N/A		1.3E-02	2E-02	#N/A		4.6E-03			#N/A		1.4E-02	2E-02	#N/A		5.1E-03		
	Lead	7439921	6	6	5	6			(c)																		
	Magnesium	7439954	4,210	4,390	4,330	4,310	--	--		#N/A		4.2E-03		#N/A		1.5E-03			#N/A		4.2E-03		#N/A		1.5E-03		
	Manganese	7439965	248	230	214	231	4.7E-02	--	(d)	#N/A		2.1E-04	4E-03	#N/A		7.5E-05			#N/A		2.3E-04	5E-03	#N/A		8.1E-05		
	Mercury	7439976	0.055	0.055	0.055	0.055	3.0E-04	--	(i)	#N/A		5.4E-08	2E-04	#N/A		1.9E-08			#N/A		5.4E-08	2E-04	#N/A		1.9E-08		
	Nickel	7440020	10.1	9.4	8.5	9.3	2.0E-02	--		#N/A		8.3E-06	4E-04	#N/A		3.0E-06			#N/A		9.1E-06	5E-04	#N/A		3.3E-06		
	Potassium	7440097	1,640	1,410	1,080	1,377	--	--		#N/A		1.1E-03		#N/A		3.8E-04			#N/A		1.3E-03		#N/A		4.8E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.50	0.48	0.50	0.49	5.0E-03	--		#N/A		4.9E-07	1E-04	#N/A		1.7E-07			#N/A		4.8E-07	1E-04	#N/A		1.7E-07		
	Sodium	7440235	75	58	49	61	--	--		#N/A		4.8E-05		#N/A		1.7E-05			#N/A		5.9E-05		#N/A		2.1E-05		
	Thallium	7440280	1.25	1.20	1.25	1.23	6.5E-05	--		#N/A		1.2E-06	2E-02	#N/A		4.4E-07			#N/A		1.2E-06	2E-02	#N/A		4.3E-07		
	Uranium	7440611	5.4	4.6	10.1	6.7	6.0E-04	--	(e)	#N/A		9.9E-06	2E-02	#N/A		3.5E-06			#N/A		6.6E-06	1E-02	#N/A		2.3E-06		
	Vanadium	7440622	19.5	17.2	14.0	16.9	7.0E-03	--		#N/A		1.4E-05	2E-03	#N/A		4.9E-06			#N/A		1.7E-05	2E-03	#N/A		5.9E-06		
	Zinc	7440666	39	44	37	40	3.0E-01	--		#N/A		4.3E-05	1E-04	#N/A		1.5E-05			#N/A		3.9E-05	1E-04	#N/A		1.4E-05		
									Total		**0E+00**		**1E-01**		**0E+00**		**3E-06**	**3E-06**		**0E+00**		**1E-01**		**0E+00**		**3E-06**	**3E-06**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:

(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Worker_Non-Contact Intensive

Exposure Area: Kettle Falls Swim Beach

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	#N/A	9.78E-07
Cancer:	#N/A	3.49E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	10,277	5,137	4,900	6,771	1.0E+00	--		#N/A		1.0E-02	1E-02	#N/A		3.6E-03			#N/A		5.0E-03	5E-03	#N/A		1.8E-03		
	Antimony	7440360	0.7	1.5	1.2	1.1	4.0E-04	--		#N/A		6.7E-07	2E-03	#N/A		2.4E-07			#N/A		1.5E-06	4E-03	#N/A		5.2E-07		
	Arsenic	7440382	1.9	1.3	1.6	1.6	2.4E-04	1.9E+00	(j)	#N/A		1.8E-06	8E-03	#N/A		6.5E-07	1E-06	1E-06	#N/A		1.2E-06	5E-03	#N/A		4.4E-07	8E-07	8E-07
	Barium	7440393	104	40	43	62	2.0E-01	--		#N/A		1.0E-04	5E-04	#N/A		3.6E-05			#N/A		3.9E-05	2E-04	#N/A		1.4E-05		
	Beryllium	7440417	0.86	0.37	0.33	0.52	2.0E-03	--		#N/A		8.4E-07	4E-04	#N/A		3.0E-07			#N/A		3.6E-07	2E-04	#N/A		1.3E-07		
	Cadmium	7440439	0.26	0.16	0.15	0.19	1.0E-03	--	(a)	#N/A		2.5E-07	3E-04	#N/A		9.0E-08			#N/A		1.6E-07	2E-04	#N/A		5.7E-08		
	Calcium	7440702	8,840	2,470	2,023	4,444	--	--		#N/A		8.6E-03		#N/A		3.1E-03			#N/A		2.4E-03		#N/A		8.6E-04		
	Chromium	7440473	22.9	9.8	9.8	14.2	1.5E+00	--	(b)	#N/A		2.2E-05	1E-05	#N/A		8.0E-06			#N/A		9.6E-06	6E-06	#N/A		3.4E-06		
	Cobalt	7440484	8.0	3.6	3.4	5.0	3.0E-04	--		#N/A		7.8E-06	3E-02	#N/A		2.8E-06			#N/A		3.5E-06	1E-02	#N/A		1.3E-06		
	Copper	7440508	18	10	10	12	4.0E-02	--		#N/A		1.7E-05	4E-04	#N/A		6.2E-06			#N/A		9.3E-06	2E-04	#N/A		3.3E-06		
	Iron	7439896	17,433	9,647	9,530	12,203	7.0E-01	--		#N/A		1.7E-02	2E-02	#N/A		6.1E-03			#N/A		9.4E-03	1E-02	#N/A		3.4E-03		
	Lead	7439921	9	6	5	7			(c)																		
	Magnesium	7439954	6,343	2,883	2,887	4,038	--	--		#N/A		6.2E-03		#N/A		2.2E-03			#N/A		2.8E-03		#N/A		1.0E-03		
	Manganese	7439965	381	151	177	236	4.7E-02	--	(d)	#N/A		3.7E-04	8E-03	#N/A		1.3E-04			#N/A		1.5E-04	3E-03	#N/A		5.3E-05		
	Mercury	7439976	0.006	0.052	0.053	0.037	3.0E-04	--	(i)	#N/A		5.8E-09	2E-05	#N/A		2.1E-09			#N/A		5.1E-08	2E-04	#N/A		1.8E-08		
	Nickel	7440020	18.7	7.8	7.8	11.4	2.0E-02	--		#N/A		1.8E-05	9E-04	#N/A		6.5E-06			#N/A		7.6E-06	4E-04	#N/A		2.7E-06		
	Potassium	7440097	1,804	624	555	995	--	--		#N/A		1.8E-03		#N/A		6.3E-04			#N/A		6.1E-04		#N/A		2.2E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.52	0.46	0.47	0.48	5.0E-03	--		#N/A		5.0E-07	1E-04	#N/A		1.8E-07			#N/A		4.5E-07	9E-05	#N/A		1.6E-07		
	Sodium	7440235	262	115	97	158	--	--		#N/A		2.6E-04		#N/A		9.2E-05			#N/A		1.1E-04		#N/A		4.0E-05		
	Thallium	7440280	1.30	1.13	1.17	1.20	6.5E-05	--		#N/A		1.3E-06	2E-02	#N/A		4.5E-07			#N/A		1.1E-06	2E-02	#N/A		4.0E-07		
	Uranium	7440611	10.4	9.0	9.3	9.6	6.0E-04	--	(e)	#N/A		1.0E-05	2E-02	#N/A		3.6E-06			#N/A		8.8E-06	1E-02	#N/A		3.1E-06		
	Vanadium	7440622	33.7	20.4	20.7	24.9	7.0E-03	--		#N/A		3.3E-05	5E-03	#N/A		1.2E-05			#N/A		2.0E-05	3E-03	#N/A		7.1E-06		
	Zinc	7440666	55	36	34	42	3.0E-01	--		#N/A		5.4E-05	2E-04	#N/A		1.9E-05			#N/A		3.5E-05	1E-04	#N/A		1.3E-05		
									Total		**0E+00**		**1E-01**		**0E+00**		**1E-06**	**1E-06**		**0E+00**		**8E-02**		**0E+00**		**8E-07**	**8E-07**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**No**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Worker_Non-Contact Intensive

Exposure Area: Kettle Falls Swim Beach

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	#N/A	9.78E-07
Cancer:	#N/A	3.49E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	10,277	5,137	4,900	6,771	1.0E+00	--		#N/A		4.8E-03	5E-03	#N/A		1.7E-03			#N/A		6.6E-03	7E-03	#N/A		2.4E-03		
	Antimony	7440360	0.7	1.5	1.2	1.1	4.0E-04	--		#N/A		1.2E-06	3E-03	#N/A		4.2E-07			#N/A		1.1E-06	3E-03	#N/A		3.9E-07		
	Arsenic	7440382	1.9	1.3	1.6	1.6	2.4E-04	1.9E+00	(j)	#N/A		1.5E-06	6E-03	#N/A		5.5E-07	1E-06	1E-06	#N/A		1.5E-06	6E-03	#N/A		5.5E-07	1E-06	1E-06
	Barium	7440393	104	40	43	62	2.0E-01	--		#N/A		4.2E-05	2E-04	#N/A		1.5E-05			#N/A		6.1E-05	3E-04	#N/A		2.2E-05		
	Beryllium	7440417	0.86	0.37	0.33	0.52	2.0E-03	--		#N/A		3.2E-07	2E-04	#N/A		1.2E-07			#N/A		5.1E-07	3E-04	#N/A		1.8E-07		
	Cadmium	7440439	0.26	0.16	0.15	0.19	1.0E-03	--	(a)	#N/A		1.4E-07	1E-04	#N/A		5.1E-08			#N/A		1.8E-07	2E-04	#N/A		6.6E-08		
	Calcium	7440702	8,840	2,470	2,023	4,444	--	--		#N/A		2.0E-03		#N/A		7.1E-04			#N/A		4.3E-03		#N/A		1.6E-03		
	Chromium	7440473	22.9	9.8	9.8	14.2	1.5E+00	--	(b)	#N/A		9.6E-06	6E-06	#N/A		3.4E-06			#N/A		1.4E-05	9E-06	#N/A		5.0E-06		
	Cobalt	7440484	8.0	3.6	3.4	5.0	3.0E-04	--		#N/A		3.3E-06	1E-02	#N/A		1.2E-06			#N/A		4.9E-06	2E-02	#N/A		1.7E-06		
	Copper	7440508	18	10	10	12	4.0E-02	--		#N/A		9.9E-06	2E-04	#N/A		3.5E-06			#N/A		1.2E-05	3E-04	#N/A		4.3E-06		
	Iron	7439896	17,433	9,647	9,530	12,203	7.0E-01	--		#N/A		9.3E-03	1E-02	#N/A		3.3E-03			#N/A		1.2E-02	2E-02	#N/A		4.3E-03		
	Lead	7439921	9	6	5	7			(c)																		
	Magnesium	7439954	6,343	2,883	2,887	4,038	--	--		#N/A		2.8E-03		#N/A		1.0E-03			#N/A		4.0E-03		#N/A		1.4E-03		
	Manganese	7439965	381	151	177	236	4.7E-02	--	(d)	#N/A		1.7E-04	4E-03	#N/A		6.2E-05			#N/A		2.3E-04	5E-03	#N/A		8.3E-05		
	Mercury	7439976	0.006	0.052	0.053	0.037	3.0E-04	--	(i)	#N/A		5.2E-08	2E-04	#N/A		1.9E-08			#N/A		3.6E-08	1E-04	#N/A		1.3E-08		
	Nickel	7440020	18.7	7.8	7.8	11.4	2.0E-02	--		#N/A		7.6E-06	4E-04	#N/A		2.7E-06			#N/A		1.1E-05	6E-04	#N/A		4.0E-06		
	Potassium	7440097	1,804	624	555	995	--	--		#N/A		5.4E-04		#N/A		1.9E-04			#N/A		9.7E-04		#N/A		3.5E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.52	0.46	0.47	0.48	5.0E-03	--		#N/A		4.6E-07	9E-05	#N/A		1.6E-07			#N/A		4.7E-07	9E-05	#N/A		1.7E-07		
	Sodium	7440235	262	115	97	158	--	--		#N/A		9.5E-05		#N/A		3.4E-05			#N/A		1.5E-04		#N/A		5.5E-05		
	Thallium	7440280	1.30	1.13	1.17	1.20	6.5E-05	--		#N/A		1.1E-06	2E-02	#N/A		4.1E-07			#N/A		1.2E-06	2E-02	#N/A		4.2E-07		
	Uranium	7440611	10.4	9.0	9.3	9.6	6.0E-04	--	(e)	#N/A		9.1E-06	2E-02	#N/A		3.3E-06			#N/A		9.4E-06	2E-02	#N/A		3.3E-06		
	Vanadium	7440622	33.7	20.4	20.7	24.9	7.0E-03	--		#N/A		2.0E-05	3E-03	#N/A		7.2E-06			#N/A		2.4E-05	3E-03	#N/A		8.7E-06		
	Zinc	7440666	55	36	34	42	3.0E-01	--		#N/A		3.5E-05	1E-04	#N/A		1.3E-05			#N/A		4.1E-05	1E-04	#N/A		1.5E-05		
									Total		**0E+00**		**8E-02**		**0E+00**		**1E-06**	**1E-06**		**0E+00**		**9E-02**		**0E+00**		**1E-06**	**1E-06**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:

(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Worker_Non-Contact Intensive

Exposure Area: Lincoln Mill Boat Ramp

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	#N/A	9.78E-07
Cancer:	#N/A	3.49E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	5,070	6,900	7,160	6,377	1.0E+00	--		#N/A		5.0E-03	5E-03	#N/A		1.8E-03			#N/A		6.8E-03	7E-03	#N/A		2.4E-03		
	Antimony	7440360	#N/A	#N/A	#N/A	#N/A	4.0E-04	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Arsenic	7440382	5.9	6.7	5.9	6.2	2.4E-04	1.9E+00	(j)	#N/A		5.8E-06	2E-02	#N/A		2.1E-06	4E-06	4E-06	#N/A		6.6E-06	3E-02	#N/A		2.3E-06	4E-06	4E-06
	Barium	7440393	35	34	61	43	2.0E-01	--		#N/A		3.4E-05	2E-04	#N/A		1.2E-05			#N/A		3.3E-05	2E-04	#N/A		1.2E-05		
	Beryllium	7440417	0.32	0.43	0.47	0.41	2.0E-03	--		#N/A		3.1E-07	2E-04	#N/A		1.1E-07			#N/A		4.2E-07	2E-04	#N/A		1.5E-07		
	Cadmium	7440439	0.24	0.06	0.06	0.12	1.0E-03	--	(a)	#N/A		2.3E-07	2E-04	#N/A		8.2E-08			#N/A		5.7E-08	6E-05	#N/A		2.0E-08		
	Calcium	7440702	10,300	15,100	11,500	12,300	--	--		#N/A		1.0E-02		#N/A		3.6E-03			#N/A		1.5E-02		#N/A		5.3E-03		
	Chromium	7440473	6.2	9.1	9.6	8.3	1.5E+00	--	(b)	#N/A		6.1E-06	4E-06	#N/A		2.2E-06			#N/A		8.9E-06	6E-06	#N/A		3.2E-06		
	Cobalt	7440484	3.0	3.5	14.2	6.9	3.0E-04	--		#N/A		2.9E-06	1E-02	#N/A		1.0E-06			#N/A		3.4E-06	1E-02	#N/A		1.2E-06		
	Copper	7440508	7	10	12	10	4.0E-02	--		#N/A		7.1E-06	2E-04	#N/A		2.6E-06			#N/A		9.8E-06	2E-04	#N/A		3.5E-06		
	Iron	7439896	10,200	12,600	14,200	12,333	7.0E-01	--		#N/A		1.0E-02	1E-02	#N/A		3.6E-03			#N/A		1.2E-02	2E-02	#N/A		4.4E-03		
	Lead	7439921	4	5	6	5			(c)																		
	Magnesium	7439954	5,320	6,240	6,530	6,030	--	--		#N/A		5.2E-03		#N/A		1.9E-03			#N/A		6.1E-03		#N/A		2.2E-03		
	Manganese	7439965	217	224	334	258	4.7E-02	--	(d)	#N/A		2.1E-04	5E-03	#N/A		7.6E-05			#N/A		2.2E-04	5E-03	#N/A		7.8E-05		
	Mercury	7439976	0.049	0.055	0.050	0.051	3.0E-04	--	(i)	#N/A		4.8E-08	2E-04	#N/A		1.7E-08			#N/A		5.4E-08	2E-04	#N/A		1.9E-08		
	Nickel	7440020	6.1	7.8	8.5	7.5	2.0E-02	--		#N/A		6.0E-06	3E-04	#N/A		2.1E-06			#N/A		7.6E-06	4E-04	#N/A		2.7E-06		
	Potassium	7440097	1,140	1,410	1,350	1,300	--	--		#N/A		1.1E-03		#N/A		4.0E-04			#N/A		1.4E-03		#N/A		4.9E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.47	0.49	0.47	0.47	5.0E-03	--		#N/A		4.6E-07	9E-05	#N/A		1.6E-07			#N/A		4.7E-07	9E-05	#N/A		1.7E-07		
	Sodium	7440235	57	97	98	84	--	--		#N/A		5.6E-05		#N/A		2.0E-05			#N/A		9.5E-05		#N/A		3.4E-05		
	Thallium	7440280	1.15	1.20	1.15	1.17	6.5E-05	--		#N/A		1.1E-06	2E-02	#N/A		4.0E-07			#N/A		1.2E-06	2E-02	#N/A		4.2E-07		
	Uranium	7440611	6.3	6.4	6.9	6.5	6.0E-04	--	(e)	#N/A		6.2E-06	1E-02	#N/A		2.2E-06			#N/A		6.3E-06	1E-02	#N/A		2.2E-06		
	Vanadium	7440622	8.4	10.8	13.4	10.9	7.0E-03	--		#N/A		8.2E-06	1E-03	#N/A		2.9E-06			#N/A		1.1E-05	2E-03	#N/A		3.8E-06		
	Zinc	7440666	27	30	36	31	3.0E-01	--		#N/A		2.6E-05	9E-05	#N/A		9.3E-06			#N/A		2.9E-05	1E-04	#N/A		1.1E-05		
									Total		**0E+00**		**9E-02**		**0E+00**		**4E-06**	**4E-06**		**0E+00**		**1E-01**		**0E+00**		**4E-06**	**4E-06**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Worker_Non-Contact Intensive

Exposure Area: Lincoln Mill Boat Ramp

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	#N/A	9.78E-07
Cancer:	#N/A	3.49E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	5,070	6,900	7,160	6,377	1.0E+00	--		#N/A		7.0E-03	7E-03	#N/A		2.5E-03			#N/A		6.2E-03	6E-03	#N/A		2.2E-03		
	Antimony	7440360	#N/A	#N/A	#N/A	#N/A	4.0E-04	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Arsenic	7440382	5.9	6.7	5.9	6.2	2.4E-04	1.9E+00	(j)	#N/A		5.8E-06	2E-02	#N/A		2.1E-06	4E-06	4E-06	#N/A		6.0E-06	3E-02	#N/A		2.2E-06	4E-06	4E-06
	Barium	7440393	35	34	61	43	2.0E-01	--		#N/A		6.0E-05	3E-04	#N/A		2.1E-05			#N/A		4.2E-05	2E-04	#N/A		1.5E-05		
	Beryllium	7440417	0.32	0.43	0.47	0.41	2.0E-03	--		#N/A		4.6E-07	2E-04	#N/A		1.6E-07			#N/A		4.0E-07	2E-04	#N/A		1.4E-07		
	Cadmium	7440439	0.24	0.06	0.06	0.12	1.0E-03	--	(a)	#N/A		6.3E-08	6E-05	#N/A		2.2E-08			#N/A		1.2E-07	1E-04	#N/A		4.2E-08		
	Calcium	7440702	10,300	15,100	11,500	12,300	--	--		#N/A		1.1E-02		#N/A		4.0E-03			#N/A		1.2E-02		#N/A		4.3E-03		
	Chromium	7440473	6.2	9.1	9.6	8.3	1.5E+00	--	(b)	#N/A		9.4E-06	6E-06	#N/A		3.4E-06			#N/A		8.1E-06	5E-06	#N/A		2.9E-06		
	Cobalt	7440484	3.0	3.5	14.2	6.9	3.0E-04	--		#N/A		1.4E-05	5E-02	#N/A		5.0E-06			#N/A		6.8E-06	2E-02	#N/A		2.4E-06		
	Copper	7440508	7	10	12	10	4.0E-02	--		#N/A		1.1E-05	3E-04	#N/A		4.0E-06			#N/A		9.4E-06	2E-04	#N/A		3.4E-06		
	Iron	7439896	10,200	12,600	14,200	12,333	7.0E-01	--		#N/A		1.4E-02	2E-02	#N/A		5.0E-03			#N/A		1.2E-02	2E-02	#N/A		4.3E-03		
	Lead	7439921	4	5	6	5			(c)																		
	Magnesium	7439954	5,320	6,240	6,530	6,030	--	--		#N/A		6.4E-03		#N/A		2.3E-03			#N/A		5.9E-03		#N/A		2.1E-03		
	Manganese	7439965	217	224	334	258	4.7E-02	--	(d)	#N/A		3.3E-04	7E-03	#N/A		1.2E-04			#N/A		2.5E-04	5E-03	#N/A		9.0E-05		
	Mercury	7439976	0.049	0.055	0.050	0.051	3.0E-04	--	(i)	#N/A		4.9E-08	2E-04	#N/A		1.7E-08			#N/A		5.0E-08	2E-04	#N/A		1.8E-08		
	Nickel	7440020	6.1	7.8	8.5	7.5	2.0E-02	--		#N/A		8.3E-06	4E-04	#N/A		3.0E-06			#N/A		7.3E-06	4E-04	#N/A		2.6E-06		
	Potassium	7440097	1,140	1,410	1,350	1,300	--	--		#N/A		1.3E-03		#N/A		4.7E-04			#N/A		1.3E-03		#N/A		4.5E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.47	0.49	0.47	0.47	5.0E-03	--		#N/A		4.5E-07	9E-05	#N/A		1.6E-07			#N/A		4.6E-07	9E-05	#N/A		1.7E-07		
	Sodium	7440235	57	97	98	84	--	--		#N/A		9.5E-05		#N/A		3.4E-05			#N/A		8.2E-05		#N/A		2.9E-05		
	Thallium	7440280	1.15	1.20	1.15	1.17	6.5E-05	--		#N/A		1.1E-06	2E-02	#N/A		4.0E-07			#N/A		1.1E-06	2E-02	#N/A		4.1E-07		
	Uranium	7440611	6.3	6.4	6.9	6.5	6.0E-04	--	(e)	#N/A		6.8E-06	1E-02	#N/A		2.4E-06			#N/A		6.4E-06	1E-02	#N/A		2.3E-06		
	Vanadium	7440622	8.4	10.8	13.4	10.9	7.0E-03	--		#N/A		1.3E-05	2E-03	#N/A		4.7E-06			#N/A		1.1E-05	2E-03	#N/A		3.8E-06		
	Zinc	7440666	27	30	36	31	3.0E-01	--		#N/A		2.9E-05	1E-04	#N/A		1.1E-05			#N/A		3.0E-05	1E-04	#N/A		1.1E-05		
									Total		**0E+00**		**1E-01**		**0E+00**		**4E-06**	**4E-06**		**0E+00**		**1E-01**		**0E+00**		**4E-06**	**4E-06**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:

(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Worker_Non-Contact Intensive

Exposure Area: Marcus Island Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	#N/A	9.78E-07
Cancer:	#N/A	3.49E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	8,600	9,890	7,310	8,600	1.0E+00	--		#N/A		8.4E-03	8E-03	#N/A		3.0E-03			#N/A		9.7E-03	1E-02	#N/A		3.5E-03		
	Antimony	7440360	4.1	2.0	3.1	3.1	4.0E-04	--		#N/A		4.0E-06	1E-02	#N/A		1.4E-06			#N/A		2.0E-06	5E-03	#N/A		7.0E-07		
	Arsenic	7440382	6.5	8.6	3.9	6.3	2.4E-04	1.9E+00	(j)	#N/A		6.4E-06	3E-02	#N/A		2.3E-06	4E-06	4E-06	#N/A		8.4E-06	4E-02	#N/A		3.0E-06	6E-06	6E-06
	Barium	7440393	258	264	101	208	2.0E-01	--		#N/A		2.5E-04	1E-03	#N/A		9.0E-05			#N/A		2.6E-04	1E-03	#N/A		9.2E-05		
	Beryllium	7440417	0.48	0.56	0.36	0.47	2.0E-03	--		#N/A		4.7E-07	2E-04	#N/A		1.7E-07			#N/A		5.5E-07	3E-04	#N/A		2.0E-07		
	Cadmium	7440439	7.30	5.60	1.60	4.83	1.0E-03	--	(a)	#N/A		7.1E-06	7E-03	#N/A		2.6E-06			#N/A		5.5E-06	5E-03	#N/A		2.0E-06		
	Calcium	7440702	7,520	6,920	7,110	7,183	--	--		#N/A		7.4E-03		#N/A		2.6E-03			#N/A		6.8E-03		#N/A		2.4E-03		
	Chromium	7440473	19.7	19.9	14.0	17.9	1.5E+00	--	(b)	#N/A		1.9E-05	1E-05	#N/A		6.9E-06			#N/A		1.9E-05	1E-05	#N/A		7.0E-06		
	Cobalt	7440484	6.8	7.1	5.2	6.4	3.0E-04	--		#N/A		6.7E-06	2E-02	#N/A		2.4E-06			#N/A		6.9E-06	2E-02	#N/A		2.5E-06		
	Copper	7440508	50	58	14	41	4.0E-02	--		#N/A		4.9E-05	1E-03	#N/A		1.8E-05			#N/A		5.7E-05	1E-03	#N/A		2.0E-05		
	Iron	7439896	17,600	23,400	12,700	17,900	7.0E-01	--		#N/A		1.7E-02	2E-02	#N/A		6.2E-03			#N/A		2.3E-02	3E-02	#N/A		8.2E-03		
	Lead	7439921	297	202	52	184			(c)																		
	Magnesium	7439954	6,070	5,390	4,220	5,227	--	--		#N/A		5.9E-03		#N/A		2.1E-03			#N/A		5.3E-03		#N/A		1.9E-03		
	Manganese	7439965	214	246	170	210	4.7E-02	--	(d)	#N/A		2.1E-04	4E-03	#N/A		7.5E-05			#N/A		2.4E-04	5E-03	#N/A		8.6E-05		
	Mercury	7439976	0.810	0.470	0.078	0.453	3.0E-04	--	(i)	#N/A		7.9E-07	3E-03	#N/A		2.8E-07			#N/A		4.6E-07	2E-03	#N/A		1.6E-07		
	Nickel	7440020	16.3	16.8	12.9	15.3	2.0E-02	--		#N/A		1.6E-05	8E-04	#N/A		5.7E-06			#N/A		1.6E-05	8E-04	#N/A		5.9E-06		
	Potassium	7440097	1,010	1,020	1,070	1,033	--	--		#N/A		9.9E-04		#N/A		3.5E-04			#N/A		1.0E-03		#N/A		3.6E-04		
	Selenium	7782492	2.30	4.30	1.80	2.80	5.0E-03	--		#N/A		2.3E-06	5E-04	#N/A		8.0E-07			#N/A		4.2E-06	8E-04	#N/A		1.5E-06		
	Silver	7440224	0.70	0.65	0.50	0.62	5.0E-03	--		#N/A		6.8E-07	1E-04	#N/A		2.4E-07			#N/A		6.4E-07	1E-04	#N/A		2.3E-07		
	Sodium	7440235	86	134	96	105	--	--		#N/A		8.5E-05		#N/A		3.0E-05			#N/A		1.3E-04		#N/A		4.7E-05		
	Thallium	7440280	1.70	1.60	1.30	1.53	6.5E-05	--		#N/A		1.7E-06	3E-02	#N/A		5.9E-07			#N/A		1.6E-06	2E-02	#N/A		5.6E-07		
	Uranium	7440611	13.6	6.7	7.5	9.3	6.0E-04	--	(e)	#N/A		1.3E-05	2E-02	#N/A		4.7E-06			#N/A		6.6E-06	1E-02	#N/A		2.3E-06		
	Vanadium	7440622	24.4	28.5	18.6	23.8	7.0E-03	--		#N/A		2.4E-05	3E-03	#N/A		8.5E-06			#N/A		2.8E-05	4E-03	#N/A		1.0E-05		
	Zinc	7440666	915	620	186	574	3.0E-01	--		#N/A		9.0E-04	3E-03	#N/A		3.2E-04			#N/A		6.1E-04	2E-03	#N/A		2.2E-04		
									Total		**0E+00**		**2E-01**		**0E+00**		**4E-06**	**4E-06**		**0E+00**		**2E-01**		**0E+00**		**6E-06**	**6E-06**
										Total HQ or Risks > LOPC?:			**Yes**						**Total HQ or Risks > LOPC?:**			**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Worker_Non-Contact Intensive

Exposure Area: Marcus Island Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	#N/A	9.78E-07
Cancer:	#N/A	3.49E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	8,600	9,890	7,310	8,600	1.0E+00	--		#N/A		7.2E-03	7E-03	#N/A		2.6E-03			#N/A		8.4E-03	8E-03	#N/A		3.0E-03		
	Antimony	7440360	4.1	2.0	3.1	3.1	4.0E-04	--		#N/A		3.0E-06	8E-03	#N/A		1.1E-06			#N/A		3.0E-06	7E-03	#N/A		1.1E-06		
	Arsenic	7440382	6.5	8.6	3.9	6.3	2.4E-04	1.9E+00	(j)	#N/A		3.8E-06	2E-02	#N/A		1.4E-06	3E-06	3E-06	#N/A		6.2E-06	3E-02	#N/A		2.2E-06	4E-06	4E-06
	Barium	7440393	258	264	101	208	2.0E-01	--		#N/A		9.9E-05	5E-04	#N/A		3.5E-05			#N/A		2.0E-04	1E-03	#N/A		7.3E-05		
	Beryllium	7440417	0.48	0.56	0.36	0.47	2.0E-03	--		#N/A		3.5E-07	2E-04	#N/A		1.3E-07			#N/A		4.6E-07	2E-04	#N/A		1.6E-07		
	Cadmium	7440439	7.30	5.60	1.60	4.83	1.0E-03	--	(a)	#N/A		1.6E-06	2E-03	#N/A		5.6E-07			#N/A		4.7E-06	5E-03	#N/A		1.7E-06		
	Calcium	7440702	7,520	6,920	7,110	7,183	--	--		#N/A		7.0E-03		#N/A		2.5E-03			#N/A		7.0E-03		#N/A		2.5E-03		
	Chromium	7440473	19.7	19.9	14.0	17.9	1.5E+00	--	(b)	#N/A		1.4E-05	9E-06	#N/A		4.9E-06			#N/A		1.7E-05	1E-05	#N/A		6.2E-06		
	Cobalt	7440484	6.8	7.1	5.2	6.4	3.0E-04	--		#N/A		5.1E-06	2E-02	#N/A		1.8E-06			#N/A		6.2E-06	2E-02	#N/A		2.2E-06		
	Copper	7440508	50	58	14	41	4.0E-02	--		#N/A		1.4E-05	3E-04	#N/A		4.9E-06			#N/A		4.0E-05	1E-03	#N/A		1.4E-05		
	Iron	7439896	17,600	23,400	12,700	17,900	7.0E-01	--		#N/A		1.2E-02	2E-02	#N/A		4.4E-03			#N/A		1.8E-02	3E-02	#N/A		6.3E-03		
	Lead	7439921	297	202	52	184			(c)																		
	Magnesium	7439954	6,070	5,390	4,220	5,227	--	--		#N/A		4.1E-03		#N/A		1.5E-03			#N/A		5.1E-03		#N/A		1.8E-03		
	Manganese	7439965	214	246	170	210	4.7E-02	--	(d)	#N/A		1.7E-04	4E-03	#N/A		5.9E-05			#N/A		2.1E-04	4E-03	#N/A		7.3E-05		
	Mercury	7439976	0.810	0.470	0.078	0.453	3.0E-04	--	(i)	#N/A		7.6E-08	3E-04	#N/A		2.7E-08			#N/A		4.4E-07	1E-03	#N/A		1.6E-07		
	Nickel	7440020	16.3	16.8	12.9	15.3	2.0E-02	--		#N/A		1.3E-05	6E-04	#N/A		4.5E-06			#N/A		1.5E-05	8E-04	#N/A		5.4E-06		
	Potassium	7440097	1,010	1,020	1,070	1,033	--	--		#N/A		1.0E-03		#N/A		3.7E-04			#N/A		1.0E-03		#N/A		3.6E-04		
	Selenium	7782492	2.30	4.30	1.80	2.80	5.0E-03	--		#N/A		1.8E-06	4E-04	#N/A		6.3E-07			#N/A		2.7E-06	5E-04	#N/A		9.8E-07		
	Silver	7440224	0.70	0.65	0.50	0.62	5.0E-03	--		#N/A		4.9E-07	1E-04	#N/A		1.7E-07			#N/A		6.0E-07	1E-04	#N/A		2.2E-07		
	Sodium	7440235	86	134	96	105	--	--		#N/A		9.4E-05		#N/A		3.4E-05			#N/A		1.0E-04		#N/A		3.7E-05		
	Thallium	7440280	1.70	1.60	1.30	1.53	6.5E-05	--		#N/A		1.3E-06	2E-02	#N/A		4.5E-07			#N/A		1.5E-06	2E-02	#N/A		5.4E-07		
	Uranium	7440611	13.6	6.7	7.5	9.3	6.0E-04	--	(e)	#N/A		7.3E-06	1E-02	#N/A		2.6E-06			#N/A		9.1E-06	2E-02	#N/A		3.2E-06		
	Vanadium	7440622	24.4	28.5	18.6	23.8	7.0E-03	--		#N/A		1.8E-05	3E-03	#N/A		6.5E-06			#N/A		2.3E-05	3E-03	#N/A		8.3E-06		
	Zinc	7440666	915	620	186	574	3.0E-01	--		#N/A		6.1E-04	2E-03	#N/A		2.2E-04			#N/A		5.6E-04	2E-03	#N/A		2.0E-04		
									Total		**0E+00**		**1E-01**		**0E+00**		**3E-06**	**3E-06**		**0E+00**		**1E-01**		**0E+00**		**4E-06**	**4E-06**
										Total HQ or Risks > LOPC?:			**Yes**						**Total HQ or Risks > LOPC?:**			**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Worker_Non-Contact Intensive

Exposure Area: North Gorge Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	#N/A	9.78E-07
Cancer:	#N/A	3.49E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	7,060	7,880	4,350	6,430	1.0E+00	--		#N/A		6.9E-03	7E-03	#N/A		2.5E-03			#N/A		7.7E-03	8E-03	#N/A		2.8E-03		
	Antimony	7440360	6.4	3.6	0.5	3.5	4.0E-04	--		#N/A		6.3E-06	2E-02	#N/A		2.2E-06			#N/A		3.5E-06	9E-03	#N/A		1.3E-06		
	Arsenic	7440382	10.7	9.6	5.0	8.4	2.4E-04	1.9E+00	(j)	#N/A		1.0E-05	4E-02	#N/A		3.7E-06	7E-06	7E-06	#N/A		9.4E-06	4E-02	#N/A		3.4E-06	6E-06	6E-06
	Barium	7440393	407	315	102	275	2.0E-01	--		#N/A		4.0E-04	2E-03	#N/A		1.4E-04			#N/A		3.1E-04	2E-03	#N/A		1.1E-04		
	Beryllium	7440417	0.48	0.53	0.28	0.43	2.0E-03	--		#N/A		4.7E-07	2E-04	#N/A		1.7E-07			#N/A		5.2E-07	3E-04	#N/A		1.9E-07		
	Cadmium	7440439	4.20	4.20	1.10	3.17	1.0E-03	--	(a)	#N/A		4.1E-06	4E-03	#N/A		1.5E-06			#N/A		4.1E-06	4E-03	#N/A		1.5E-06		
	Calcium	7440702	24,700	15,400	6,090	15,397	--	--		#N/A		2.4E-02		#N/A		8.6E-03			#N/A		1.5E-02		#N/A		5.4E-03		
	Chromium	7440473	24.9	22.8	15.1	20.9	1.5E+00	--	(b)	#N/A		2.4E-05	2E-05	#N/A		8.7E-06			#N/A		2.2E-05	1E-05	#N/A		8.0E-06		
	Cobalt	7440484	9.8	8.5	4.3	7.5	3.0E-04	--		#N/A		9.6E-06	3E-02	#N/A		3.4E-06			#N/A		8.3E-06	3E-02	#N/A		3.0E-06		
	Copper	7440508	216	132	23	124	4.0E-02	--		#N/A		2.1E-04	5E-03	#N/A		7.5E-05			#N/A		1.3E-04	3E-03	#N/A		4.6E-05		
	Iron	7439896	29,500	23,500	16,000	23,000	7.0E-01	--		#N/A		2.9E-02	4E-02	#N/A		1.0E-02			#N/A		2.3E-02	3E-02	#N/A		8.2E-03		
	Lead	7439921	216	223	69	169			(c)																		
	Magnesium	7439954	13,900	10,200	4,140	9,413	--	--		#N/A		1.4E-02		#N/A		4.9E-03			#N/A		1.0E-02		#N/A		3.6E-03		
	Manganese	7439965	434	270	171	292	4.7E-02	--	(d)	#N/A		4.2E-04	9E-03	#N/A		1.5E-04			#N/A		2.6E-04	6E-03	#N/A		9.4E-05		
	Mercury	7439976	0.370	0.400	0.068	0.279	3.0E-04	--	(i)	#N/A		3.6E-07	1E-03	#N/A		1.3E-07			#N/A		3.9E-07	1E-03	#N/A		1.4E-07		
	Nickel	7440020	15.3	17.2	9.6	14.0	2.0E-02	--		#N/A		1.5E-05	7E-04	#N/A		5.3E-06			#N/A		1.7E-05	8E-04	#N/A		6.0E-06		
	Potassium	7440097	1,190	1,220	624	1,011	--	--		#N/A		1.2E-03		#N/A		4.2E-04			#N/A		1.2E-03		#N/A		4.3E-04		
	Selenium	7782492	3.00	2.70	1.10	2.27	5.0E-03	--		#N/A		2.9E-06	6E-04	#N/A		1.0E-06			#N/A		2.6E-06	5E-04	#N/A		9.4E-07		
	Silver	7440224	0.60	0.70	0.50	0.60	5.0E-03	--		#N/A		5.9E-07	1E-04	#N/A		2.1E-07			#N/A		6.8E-07	1E-04	#N/A		2.4E-07		
	Sodium	7440235	170	134	89	131	--	--		#N/A		1.7E-04		#N/A		5.9E-05			#N/A		1.3E-04		#N/A		4.7E-05		
	Thallium	7440280	1.55	1.70	1.30	1.52	6.5E-05	--		#N/A		1.5E-06	2E-02	#N/A		5.4E-07			#N/A		1.7E-06	3E-02	#N/A		5.9E-07		
	Uranium	7440611	14.2	11.2	5.7	10.4	6.0E-04	--	(e)	#N/A		1.4E-05	2E-02	#N/A		5.0E-06			#N/A		1.1E-05	2E-02	#N/A		3.9E-06		
	Vanadium	7440622	26.9	27.4	27.9	27.4	7.0E-03	--		#N/A		2.6E-05	4E-03	#N/A		9.4E-06			#N/A		2.7E-05	4E-03	#N/A		9.6E-06		
	Zinc	7440666	1,700	1,060	352	1,037	3.0E-01	--		#N/A		1.7E-03	6E-03	#N/A		5.9E-04			#N/A		1.0E-03	3E-03	#N/A		3.7E-04		
									Total		**0E+00**		**2E-01**		**0E+00**		**7E-06**	**7E-06**		**0E+00**		**2E-01**		**0E+00**		**6E-06**	**6E-06**
										Total HQ or Risks > LOPC?:			**Yes**						**Total HQ or Risks > LOPC?:**			**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:

(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Worker_Non-Contact Intensive

Exposure Area: North Gorge Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	#N/A	9.78E-07
Cancer:	#N/A	3.49E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	7,060	7,880	4,350	6,430	1.0E+00	--		#N/A		4.3E-03	4E-03	#N/A		1.5E-03			#N/A		6.3E-03	6E-03	#N/A		2.2E-03		
	Antimony	7440360	6.4	3.6	0.5	3.5	4.0E-04	--		#N/A		4.6E-07	1E-03	#N/A		1.6E-07			#N/A		3.4E-06	9E-03	#N/A		1.2E-06		
	Arsenic	7440382	10.7	9.6	5.0	8.4	2.4E-04	1.9E+00	(j)	#N/A		4.9E-06	2E-02	#N/A		1.7E-06	3E-06	3E-06	#N/A		8.3E-06	3E-02	#N/A		2.9E-06	6E-06	6E-06
	Barium	7440393	407	315	102	275	2.0E-01	--		#N/A		1.0E-04	5E-04	#N/A		3.6E-05			#N/A		2.7E-04	1E-03	#N/A		9.6E-05		
	Beryllium	7440417	0.48	0.53	0.28	0.43	2.0E-03	--		#N/A		2.7E-07	1E-04	#N/A		9.8E-08			#N/A		4.2E-07	2E-04	#N/A		1.5E-07		
	Cadmium	7440439	4.20	4.20	1.10	3.17	1.0E-03	--	(a)	#N/A		1.1E-06	1E-03	#N/A		3.8E-07			#N/A		3.1E-06	3E-03	#N/A		1.1E-06		
	Calcium	7440702	24,700	15,400	6,090	15,397	--	--		#N/A		6.0E-03		#N/A		2.1E-03			#N/A		1.5E-02		#N/A		5.4E-03		
	Chromium	7440473	24.9	22.8	15.1	20.9	1.5E+00	--	(b)	#N/A		1.5E-05	1E-05	#N/A		5.3E-06			#N/A		2.0E-05	1E-05	#N/A		7.3E-06		
	Cobalt	7440484	9.8	8.5	4.3	7.5	3.0E-04	--		#N/A		4.2E-06	1E-02	#N/A		1.5E-06			#N/A		7.4E-06	2E-02	#N/A		2.6E-06		
	Copper	7440508	216	132	23	124	4.0E-02	--		#N/A		2.2E-05	6E-04	#N/A		8.0E-06			#N/A		1.2E-04	3E-03	#N/A		4.3E-05		
	Iron	7439896	29,500	23,500	16,000	23,000	7.0E-01	--		#N/A		1.6E-02	2E-02	#N/A		5.6E-03			#N/A		2.3E-02	3E-02	#N/A		8.0E-03		
	Lead	7439921	216	223	69	169			(c)																		
	Magnesium	7439954	13,900	10,200	4,140	9,413	--	--		#N/A		4.1E-03		#N/A		1.4E-03			#N/A		9.2E-03		#N/A		3.3E-03		
	Manganese	7439965	434	270	171	292	4.7E-02	--	(d)	#N/A		1.7E-04	4E-03	#N/A		6.0E-05			#N/A		2.9E-04	6E-03	#N/A		1.0E-04		
	Mercury	7439976	0.370	0.400	0.068	0.279	3.0E-04	--	(i)	#N/A		6.7E-08	2E-04	#N/A		2.4E-08			#N/A		2.7E-07	9E-04	#N/A		9.8E-08		
	Nickel	7440020	15.3	17.2	9.6	14.0	2.0E-02	--		#N/A		9.4E-06	5E-04	#N/A		3.4E-06			#N/A		1.4E-05	7E-04	#N/A		4.9E-06		
	Potassium	7440097	1,190	1,220	624	1,011	--	--		#N/A		6.1E-04		#N/A		2.2E-04			#N/A		9.9E-04		#N/A		3.5E-04		
	Selenium	7782492	3.00	2.70	1.10	2.27	5.0E-03	--		#N/A		1.1E-06	2E-04	#N/A		3.8E-07			#N/A		2.2E-06	4E-04	#N/A		7.9E-07		
	Silver	7440224	0.60	0.70	0.50	0.60	5.0E-03	--		#N/A		4.9E-07	1E-04	#N/A		1.7E-07			#N/A		5.9E-07	1E-04	#N/A		2.1E-07		
	Sodium	7440235	170	134	89	131	--	--		#N/A		8.7E-05		#N/A		3.1E-05			#N/A		1.3E-04		#N/A		4.6E-05		
	Thallium	7440280	1.55	1.70	1.30	1.52	6.5E-05	--		#N/A		1.3E-06	2E-02	#N/A		4.5E-07			#N/A		1.5E-06	2E-02	#N/A		5.3E-07		
	Uranium	7440611	14.2	11.2	5.7	10.4	6.0E-04	--	(e)	#N/A		5.6E-06	9E-03	#N/A		2.0E-06			#N/A		1.0E-05	2E-02	#N/A		3.6E-06		
	Vanadium	7440622	26.9	27.4	27.9	27.4	7.0E-03	--		#N/A		2.7E-05	4E-03	#N/A		9.7E-06			#N/A		2.7E-05	4E-03	#N/A		9.6E-06		
	Zinc	7440666	1,700	1,060	352	1,037	3.0E-01	--		#N/A		1.0E-03	3E-03	#N/A		3.7E-04			#N/A		1.0E-03	3E-03	#N/A		3.6E-04		
									Total		**0E+00**		**1E-01**		**0E+00**		**3E-06**	**3E-06**		**0E+00**		**2E-01**		**0E+00**		**6E-06**	**6E-06**
										Total HQ or Risks > LOPC?:		**Yes**							**Total HQ or Risks > LOPC?:**		**Yes**					

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Worker_Non-Contact Intensive

Exposure Area: Northport Boat Launch

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	#N/A	9.78E-07
Cancer:	#N/A	3.49E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	11,923	12,493	9,843	11,420	1.0E+00	--		#N/A		1.2E-02	1E-02	#N/A		4.2E-03			#N/A		1.2E-02	1E-02	#N/A		4.4E-03		
	Antimony	7440360	22.9	27.2	21.5	23.9	4.0E-04	--		#N/A		2.2E-05	6E-02	#N/A		8.0E-06			#N/A		2.7E-05	7E-02	#N/A		9.5E-06		
	Arsenic	7440382	17.3	14.3	10.7	14.1	2.4E-04	1.9E+00	(j)	#N/A		1.7E-05	7E-02	#N/A		6.1E-06	1E-05	1E-05	#N/A		1.4E-05	6E-02	#N/A		5.0E-06	9E-06	9E-06
	Barium	7440393	1,062	1,036	848	982	2.0E-01	--		#N/A		1.0E-03	5E-03	#N/A		3.7E-04			#N/A		1.0E-03	5E-03	#N/A		3.6E-04		
	Beryllium	7440417	0.94	0.94	0.82	0.90	2.0E-03	--		#N/A		9.2E-07	5E-04	#N/A		3.3E-07			#N/A		9.2E-07	5E-04	#N/A		3.3E-07		
	Cadmium	7440439	2.99	2.39	2.25	2.54	1.0E-03	--	(a)	#N/A		2.9E-06	3E-03	#N/A		1.0E-06			#N/A		2.3E-06	2E-03	#N/A		8.4E-07		
	Calcium	7440702	52,267	49,967	37,967	46,733	--	--		#N/A		5.1E-02		#N/A		1.8E-02			#N/A		4.9E-02		#N/A		1.7E-02		
	Chromium	7440473	68.4	66.2	50.7	61.8	1.5E+00	--	(b)	#N/A		6.7E-05	4E-05	#N/A		2.4E-05			#N/A		6.5E-05	4E-05	#N/A		2.3E-05		
	Cobalt	7440484	27.4	27.5	21.5	25.5	3.0E-04	--		#N/A		2.7E-05	9E-02	#N/A		9.6E-06			#N/A		2.7E-05	9E-02	#N/A		9.6E-06		
	Copper	7440508	1,382	1,182	833	1,132	4.0E-02	--		#N/A		1.4E-03	3E-02	#N/A		4.8E-04			#N/A		1.2E-03	3E-02	#N/A		4.1E-04		
	Iron	7439896	113,367	108,233	75,267	98,956	7.0E-01	--		#N/A		1.1E-01	2E-01	#N/A		4.0E-02			#N/A		1.1E-01	2E-01	#N/A		3.8E-02		
	Lead	7439921	309	256	186	250			(c)																		
	Magnesium	7439954	12,000	12,357	11,447	11,934	--	--		#N/A		1.2E-02		#N/A		4.2E-03			#N/A		1.2E-02		#N/A		4.3E-03		
	Manganese	7439965	2,138	2,004	1,446	1,862	4.7E-02	--	(d)	#N/A		2.1E-03	4E-02	#N/A		7.5E-04			#N/A		2.0E-03	4E-02	#N/A		7.0E-04		
	Mercury	7439976	0.102	0.099	0.075	0.092	3.0E-04	--	(i)	#N/A		1.0E-07	3E-04	#N/A		3.6E-08			#N/A		9.7E-08	3E-04	#N/A		3.5E-08		
	Nickel	7440020	13.3	13.0	12.8	13.1	2.0E-02	--		#N/A		1.3E-05	7E-04	#N/A		4.7E-06			#N/A		1.3E-05	6E-04	#N/A		4.6E-06		
	Potassium	7440097	2,410	2,403	1,943	2,252	--	--		#N/A		2.4E-03		#N/A		8.4E-04			#N/A		2.4E-03		#N/A		8.4E-04		
	Selenium	7782492	1.82	1.75	1.90	1.82	5.0E-03	--		#N/A		1.8E-06	4E-04	#N/A		6.3E-07			#N/A		1.7E-06	3E-04	#N/A		6.1E-07		
	Silver	7440224	0.53	0.51	0.53	0.52	5.0E-03	--		#N/A		5.1E-07	1E-04	#N/A		1.8E-07			#N/A		5.0E-07	1E-04	#N/A		1.8E-07		
	Sodium	7440235	1,130	1,147	767	1,015	--	--		#N/A		1.1E-03		#N/A		3.9E-04			#N/A		1.1E-03		#N/A		4.0E-04		
	Thallium	7440280	1.30	1.27	1.37	1.31	6.5E-05	--		#N/A		1.3E-06	2E-02	#N/A		4.5E-07			#N/A		1.2E-06	2E-02	#N/A		4.4E-07		
	Uranium	7440611	10.5	10.1	10.9	10.5	6.0E-04	--	(e)	#N/A		1.0E-05	2E-02	#N/A		3.7E-06			#N/A		9.9E-06	2E-02	#N/A		3.5E-06		
	Vanadium	7440622	28.4	31.2	27.9	29.1	7.0E-03	--		#N/A		2.8E-05	4E-03	#N/A		9.9E-06			#N/A		3.0E-05	4E-03	#N/A		1.1E-05		
	Zinc	7440666	9,623	8,543	5,947	8,038	3.0E-01	--		#N/A		9.4E-03	3E-02	#N/A		3.4E-03			#N/A		8.4E-03	3E-02	#N/A		3.0E-03		
									Total		**0E+00**		**5E-01**		**0E+00**		**1E-05**	**1E-05**		**0E+00**		**5E-01**		**0E+00**		**9E-06**	**9E-06**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**			

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:

(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Worker_Non-Contact Intensive

Exposure Area: Northport Boat Launch

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	#N/A	9.78E-07
Cancer:	#N/A	3.49E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	11,923	12,493	9,843	11,420	1.0E+00	--		#N/A		9.6E-03	1E-02	#N/A		3.4E-03			#N/A		1.1E-02	1E-02	#N/A		4.0E-03		
	Antimony	7440360	22.9	27.2	21.5	23.9	4.0E-04	--		#N/A		2.1E-05	5E-02	#N/A		7.5E-06			#N/A		2.3E-05	6E-02	#N/A		8.4E-06		
	Arsenic	7440382	17.3	14.3	10.7	14.1	2.4E-04	1.9E+00	(j)	#N/A		1.0E-05	4E-02	#N/A		3.7E-06	7E-06	7E-06	#N/A		1.4E-05	6E-02	#N/A		4.9E-06	9E-06	9E-06
	Barium	7440393	1,062	1,036	848	982	2.0E-01	--		#N/A		8.3E-04	4E-03	#N/A		3.0E-04			#N/A		9.6E-04	5E-03	#N/A		3.4E-04		
	Beryllium	7440417	0.94	0.94	0.82	0.90	2.0E-03	--		#N/A		8.0E-07	4E-04	#N/A		2.9E-07			#N/A		8.8E-07	4E-04	#N/A		3.1E-07		
	Cadmium	7440439	2.99	2.39	2.25	2.54	1.0E-03	--	(a)	#N/A		2.2E-06	2E-03	#N/A		7.9E-07			#N/A		2.5E-06	2E-03	#N/A		8.9E-07		
	Calcium	7440702	52,267	49,967	37,967	46,733	--	--		#N/A		3.7E-02		#N/A		1.3E-02			#N/A		4.6E-02		#N/A		1.6E-02		
	Chromium	7440473	68.4	66.2	50.7	61.8	1.5E+00	--	(b)	#N/A		5.0E-05	3E-05	#N/A		1.8E-05			#N/A		6.0E-05	4E-05	#N/A		2.2E-05		
	Cobalt	7440484	27.4	27.5	21.5	25.5	3.0E-04	--		#N/A		2.1E-05	7E-02	#N/A		7.5E-06			#N/A		2.5E-05	8E-02	#N/A		8.9E-06		
	Copper	7440508	1,382	1,182	833	1,132	4.0E-02	--		#N/A		8.2E-04	2E-02	#N/A		2.9E-04			#N/A		1.1E-03	3E-02	#N/A		4.0E-04		
	Iron	7439896	113,367	108,233	75,267	98,956	7.0E-01	--		#N/A		7.4E-02	1E-01	#N/A		2.6E-02			#N/A		9.7E-02	1E-01	#N/A		3.5E-02		
	Lead	7439921	309	256	186	250			(c)																		
	Magnesium	7439954	12,000	12,357	11,447	11,934	--	--		#N/A		1.1E-02		#N/A		4.0E-03			#N/A		1.2E-02		#N/A		4.2E-03		
	Manganese	7439965	2,138	2,004	1,446	1,862	4.7E-02	--	(d)	#N/A		1.4E-03	3E-02	#N/A		5.1E-04			#N/A		1.8E-03	4E-02	#N/A		6.5E-04		
	Mercury	7439976	0.102	0.099	0.075	0.092	3.0E-04	--	(i)	#N/A		7.3E-08	2E-04	#N/A		2.6E-08			#N/A		9.0E-08	3E-04	#N/A		3.2E-08		
	Nickel	7440020	13.3	13.0	12.8	13.1	2.0E-02	--		#N/A		1.3E-05	6E-04	#N/A		4.5E-06			#N/A		1.3E-05	6E-04	#N/A		4.6E-06		
	Potassium	7440097	2,410	2,403	1,943	2,252	--	--		#N/A		1.9E-03		#N/A		6.8E-04			#N/A		2.2E-03		#N/A		7.9E-04		
	Selenium	7782492	1.82	1.75	1.90	1.82	5.0E-03	--		#N/A		1.9E-06	4E-04	#N/A		6.6E-07			#N/A		1.8E-06	4E-04	#N/A		6.4E-07		
	Silver	7440224	0.53	0.51	0.53	0.52	5.0E-03	--		#N/A		5.2E-07	1E-04	#N/A		1.9E-07			#N/A		5.1E-07	1E-04	#N/A		1.8E-07		
	Sodium	7440235	1,130	1,147	767	1,015	--	--		#N/A		7.5E-04		#N/A		2.7E-04			#N/A		9.9E-04		#N/A		3.5E-04		
	Thallium	7440280	1.30	1.27	1.37	1.31	6.5E-05	--		#N/A		1.3E-06	2E-02	#N/A		4.8E-07			#N/A		1.3E-06	2E-02	#N/A		4.6E-07		
	Uranium	7440611	10.5	10.1	10.9	10.5	6.0E-04	--	(e)	#N/A		1.1E-05	2E-02	#N/A		3.8E-06			#N/A		1.0E-05	2E-02	#N/A		3.7E-06		
	Vanadium	7440622	28.4	31.2	27.9	29.1	7.0E-03	--		#N/A		2.7E-05	4E-03	#N/A		9.7E-06			#N/A		2.9E-05	4E-03	#N/A		1.0E-05		
	Zinc	7440666	9,623	8,543	5,947	8,038	3.0E-01	--		#N/A		8.4E-03	3E-02	#N/A		3.0E-03			#N/A		7.9E-03	3E-02	#N/A		2.8E-03		
									Total		0E+00		4E-01		0E+00		7E-06	7E-06		0E+00		5E-01		0E+00		9E-06	9E-06
										Total HQ or Risks > LOPC?:			Yes														

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Worker_Non-Contact Intensive

Exposure Area: Rogers Bar Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	#N/A	9.78E-07
Cancer:	#N/A	3.49E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER										MIDDLE								
										Non-Cancer				Cancer						Non-Cancer				Cancer				
										Child		Adult		Child		Adult				Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	2,760	5,810	4,810	4,460	1.0E+00	--		#N/A		2.7E-03	3E-03	#N/A		9.6E-04				#N/A		5.7E-03	6E-03	#N/A		2.0E-03		
	Antimony	7440360	#N/A	#N/A	#N/A	#N/A	4.0E-04	--		#N/A		#N/A		#N/A		#N/A				#N/A		#N/A		#N/A		#N/A		
	Arsenic	7440382	0.5	1.9	2.2	1.5	2.4E-04	1.9E+00	(j)	#N/A		4.7E-07	2E-03	#N/A		1.7E-07	3E-07	3E-07		#N/A		1.9E-06	8E-03	#N/A		6.6E-07	1E-06	1E-06
	Barium	7440393	21	53	38	37	2.0E-01	--		#N/A		2.0E-05	1E-04	#N/A		7.2E-06				#N/A		5.2E-05	3E-04	#N/A		1.9E-05		
	Beryllium	7440417	0.21	0.44	0.37	0.34	2.0E-03	--		#N/A		2.1E-07	1E-04	#N/A		7.3E-08				#N/A		4.3E-07	2E-04	#N/A		1.5E-07		
	Cadmium	7440439	0.06	0.11	0.22	0.13	1.0E-03	--	(a)	#N/A		5.5E-08	5E-05	#N/A		2.0E-08				#N/A		1.1E-07	1E-04	#N/A		3.8E-08		
	Calcium	7440702	1,670	1,700	1,580	1,650	--	--		#N/A		1.6E-03		#N/A		5.8E-04				#N/A		1.7E-03		#N/A		5.9E-04		
	Chromium	7440473	5.7	13.2	9.6	9.5	1.5E+00	--	(b)	#N/A		5.6E-06	4E-06	#N/A		2.0E-06				#N/A		1.3E-05	9E-06	#N/A		4.6E-06		
	Cobalt	7440484	2.1	4.1	3.7	3.3	3.0E-04	--		#N/A		2.1E-06	7E-03	#N/A		7.3E-07				#N/A		4.0E-06	1E-02	#N/A		1.4E-06		
	Copper	7440508	5	9	7	7	4.0E-02	--		#N/A		4.8E-06	1E-04	#N/A		1.7E-06				#N/A		8.8E-06	2E-04	#N/A		3.1E-06		
	Iron	7439896	4,930	9,800	9,720	8,150	7.0E-01	--		#N/A		4.8E-03	7E-03	#N/A		1.7E-03				#N/A		9.6E-03	1E-02	#N/A		3.4E-03		
	Lead	7439921	3	5	5	5			(c)																			
	Magnesium	7439954	1,540	2,590	2,390	2,173	--	--		#N/A		1.5E-03		#N/A		5.4E-04				#N/A		2.5E-03		#N/A		9.1E-04		
	Manganese	7439965	95	157	134	129	4.7E-02	--	(d)	#N/A		9.3E-05	2E-03	#N/A		3.3E-05				#N/A		1.5E-04	3E-03	#N/A		5.5E-05		
	Mercury	7439976	0.050	0.055	0.050	0.052	3.0E-04	--	(i)	#N/A		4.9E-08	2E-04	#N/A		1.7E-08				#N/A		5.4E-08	2E-04	#N/A		1.9E-08		
	Nickel	7440020	5.1	10.2	9.0	8.1	2.0E-02	--		#N/A		5.0E-06	2E-04	#N/A		1.8E-06				#N/A		1.0E-05	5E-04	#N/A		3.6E-06		
	Potassium	7440097	317	719	519	518	--	--		#N/A		3.1E-04		#N/A		1.1E-04				#N/A		7.0E-04		#N/A		2.5E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A				#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.49	0.55	0.50	0.51	5.0E-03	--		#N/A		4.7E-07	9E-05	#N/A		1.7E-07				#N/A		5.4E-07	1E-04	#N/A		1.9E-07		
	Sodium	7440235	58	98	88	81	--	--		#N/A		5.7E-05		#N/A		2.0E-05				#N/A		9.6E-05		#N/A		3.4E-05		
	Thallium	7440280	1.20	1.35	1.25	1.27	6.5E-05	--		#N/A		1.2E-06	2E-02	#N/A		4.2E-07				#N/A		1.3E-06	2E-02	#N/A		4.7E-07		
	Uranium	7440611	9.7	9.8	10.1	9.9	6.0E-04	--	(e)	#N/A		9.5E-06	2E-02	#N/A		3.4E-06				#N/A		9.6E-06	2E-02	#N/A		3.4E-06		
	Vanadium	7440622	8.7	16.2	16.7	13.9	7.0E-03	--		#N/A		8.5E-06	1E-03	#N/A		3.0E-06				#N/A		1.6E-05	2E-03	#N/A		5.7E-06		
	Zinc	7440666	21	33	47	34	3.0E-01	--		#N/A		2.1E-05	7E-05	#N/A		7.4E-06				#N/A		3.2E-05	1E-04	#N/A		1.2E-05		
									Total		**0E+00**		**6E-02**		**0E+00**		**3E-07**	**3E-07**			**0E+00**		**8E-02**		**0E+00**		**1E-06**	**1E-06**
										Total HQ or Risks > LOPC?:		**No**								**Total HQ or Risks > LOPC?:**		**Yes**					

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Worker_Non-Contact Intensive

Exposure Area: Rogers Bar Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	#N/A	9.78E-07
Cancer:	#N/A	3.49E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	2,760	5,810	4,810	4,460	1.0E+00	--		#N/A		4.7E-03	5E-03	#N/A		1.7E-03			#N/A		4.4E-03	4E-03	#N/A		1.6E-03		
	Antimony	7440360	#N/A	#N/A	#N/A	#N/A	4.0E-04	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Arsenic	7440382	0.5	1.9	2.2	1.5	2.4E-04	1.9E+00	(j)	#N/A		2.2E-06	9E-03	#N/A		7.7E-07	1E-06	1E-06	#N/A		1.5E-06	6E-03	#N/A		5.3E-07	1E-06	1E-06
	Barium	7440393	21	53	38	37	2.0E-01	--		#N/A		3.7E-05	2E-04	#N/A		1.3E-05			#N/A		3.6E-05	2E-04	#N/A		1.3E-05		
	Beryllium	7440417	0.21	0.44	0.37	0.34	2.0E-03	--		#N/A		3.6E-07	2E-04	#N/A		1.3E-07			#N/A		3.3E-07	2E-04	#N/A		1.2E-07		
	Cadmium	7440439	0.06	0.11	0.22	0.13	1.0E-03	--	(a)	#N/A		2.2E-07	2E-04	#N/A		7.7E-08			#N/A		1.3E-07	1E-04	#N/A		4.5E-08		
	Calcium	7440702	1,670	1,700	1,580	1,650	--	--		#N/A		1.5E-03		#N/A		5.5E-04			#N/A		1.6E-03		#N/A		5.8E-04		
	Chromium	7440473	5.7	13.2	9.6	9.5	1.5E+00	--	(b)	#N/A		9.4E-06	6E-06	#N/A		3.4E-06			#N/A		9.3E-06	6E-06	#N/A		3.3E-06		
	Cobalt	7440484	2.1	4.1	3.7	3.3	3.0E-04	--		#N/A		3.6E-06	1E-02	#N/A		1.3E-06			#N/A		3.2E-06	1E-02	#N/A		1.2E-06		
	Copper	7440508	5	9	7	7	4.0E-02	--		#N/A		7.2E-06	2E-04	#N/A		2.6E-06			#N/A		6.9E-06	2E-04	#N/A		2.5E-06		
	Iron	7439896	4,930	9,800	9,720	8,150	7.0E-01	--		#N/A		9.5E-03	1E-02	#N/A		3.4E-03			#N/A		8.0E-03	1E-02	#N/A		2.8E-03		
	Lead	7439921	3	5	5	5			(c)																		
	Magnesium	7439954	1,540	2,590	2,390	2,173	--	--		#N/A		2.3E-03		#N/A		8.4E-04			#N/A		2.1E-03		#N/A		7.6E-04		
	Manganese	7439965	95	157	134	129	4.7E-02	--	(d)	#N/A		1.3E-04	3E-03	#N/A		4.7E-05			#N/A		1.3E-04	3E-03	#N/A		4.5E-05		
	Mercury	7439976	0.050	0.055	0.050	0.052	3.0E-04	--	(i)	#N/A		4.9E-08	2E-04	#N/A		1.7E-08			#N/A		5.1E-08	2E-04	#N/A		1.8E-08		
	Nickel	7440020	5.1	10.2	9.0	8.1	2.0E-02	--		#N/A		8.8E-06	4E-04	#N/A		3.1E-06			#N/A		7.9E-06	4E-04	#N/A		2.8E-06		
	Potassium	7440097	317	719	519	518	--	--		#N/A		5.1E-04		#N/A		1.8E-04			#N/A		5.1E-04		#N/A		1.8E-04		
	Selenium	7782492	#N/A	#N/A	#N/A	#N/A	5.0E-03	--		#N/A		#N/A		#N/A		#N/A			#N/A		#N/A		#N/A		#N/A		
	Silver	7440224	0.49	0.55	0.50	0.51	5.0E-03	--		#N/A		4.9E-07	1E-04	#N/A		1.7E-07			#N/A		5.0E-07	1E-04	#N/A		1.8E-07		
	Sodium	7440235	58	98	88	81	--	--		#N/A		8.6E-05		#N/A		3.1E-05			#N/A		8.0E-05		#N/A		2.8E-05		
	Thallium	7440280	1.20	1.35	1.25	1.27	6.5E-05	--		#N/A		1.2E-06	2E-02	#N/A		4.4E-07			#N/A		1.2E-06	2E-02	#N/A		4.4E-07		
	Uranium	7440611	9.7	9.8	10.1	9.9	6.0E-04	--	(e)	#N/A		9.9E-06	2E-02	#N/A		3.5E-06			#N/A		9.7E-06	2E-02	#N/A		3.4E-06		
	Vanadium	7440622	8.7	16.2	16.7	13.9	7.0E-03	--		#N/A		1.6E-05	2E-03	#N/A		5.8E-06			#N/A		1.4E-05	2E-03	#N/A		4.8E-06		
	Zinc	7440666	21	33	47	34	3.0E-01	--		#N/A		3.2E-05	1E-04	#N/A		1.2E-05			#N/A		3.3E-05	1E-04	#N/A		1.2E-05		
									Total		**0E+00**		**8E-02**		**0E+00**		**1E-06**	**1E-06**		**0E+00**		**7E-02**		**0E+00**		**1E-06**	**1E-06**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:
(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Worker_Non-Contact Intensive

Exposure Area: Spring Canyon Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	#N/A	9.78E-07
Cancer:	#N/A	3.49E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	LOWER									MIDDLE								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	8,310	7,800	7,150	7,753	1.0E+00	--		#N/A		8.1E-03	8E-03	#N/A		2.9E-03			#N/A		7.6E-03	8E-03	#N/A		2.7E-03		
	Antimony	7440360	0.8	1.1	1.0	1.0	4.0E-04	--		#N/A		7.7E-07	2E-03	#N/A		2.8E-07			#N/A		1.1E-06	3E-03	#N/A		3.8E-07		
	Arsenic	7440382	10.3	7.5	8.5	8.8	2.4E-04	1.9E+00	(j)	#N/A		1.0E-05	4E-02	#N/A		3.6E-06	7E-06	7E-06	#N/A		7.3E-06	3E-02	#N/A		2.6E-06	5E-06	5E-06
	Barium	7440393	51	52	41	48	2.0E-01	--		#N/A		5.0E-05	2E-04	#N/A		1.8E-05			#N/A		5.0E-05	3E-04	#N/A		1.8E-05		
	Beryllium	7440417	0.64	0.60	0.53	0.59	2.0E-03	--		#N/A		6.3E-07	3E-04	#N/A		2.2E-07			#N/A		5.9E-07	3E-04	#N/A		2.1E-07		
	Cadmium	7440439	0.26	0.26	0.26	0.26	1.0E-03	--	(a)	#N/A		2.5E-07	3E-04	#N/A		9.1E-08			#N/A		2.5E-07	2E-04	#N/A		8.9E-08		
	Calcium	7440702	1,960	1,810	5,990	3,253	--	--		#N/A		1.9E-03		#N/A		6.8E-04			#N/A		1.8E-03		#N/A		6.3E-04		
	Chromium	7440473	9.6	9.7	9.0	9.4	1.5E+00	--	(b)	#N/A		9.4E-06	6E-06	#N/A		3.4E-06			#N/A		9.5E-06	6E-06	#N/A		3.4E-06		
	Cobalt	7440484	4.4	4.1	3.7	4.1	3.0E-04	--		#N/A		4.3E-06	1E-02	#N/A		1.5E-06			#N/A		4.0E-06	1E-02	#N/A		1.4E-06		
	Copper	7440508	7	6	7	6	4.0E-02	--		#N/A		6.9E-06	2E-04	#N/A		2.5E-06			#N/A		5.4E-06	1E-04	#N/A		1.9E-06		
	Iron	7439896	15,400	14,900	14,300	14,867	7.0E-01	--		#N/A		1.5E-02	2E-02	#N/A		5.4E-03			#N/A		1.5E-02	2E-02	#N/A		5.2E-03		
	Lead	7439921	7	7	6	7			(c)																		
	Magnesium	7439954	5,880	5,590	5,360	5,610	--	--		#N/A		5.8E-03		#N/A		2.1E-03			#N/A		5.5E-03		#N/A		2.0E-03		
	Manganese	7439965	227	208	226	220	4.7E-02	--	(d)	#N/A		2.2E-04	5E-03	#N/A		7.9E-05			#N/A		2.0E-04	4E-03	#N/A		7.3E-05		
	Mercury	7439976	0.055	0.055	0.050	0.053	3.0E-04	--	(i)	#N/A		5.4E-08	2E-04	#N/A		1.9E-08			#N/A		5.4E-08	2E-04	#N/A		1.9E-08		
	Nickel	7440020	8.2	7.5	7.5	7.7	2.0E-02	--		#N/A		8.0E-06	4E-04	#N/A		2.9E-06			#N/A		7.3E-06	4E-04	#N/A		2.6E-06		
	Potassium	7440097	1,610	1,470	1,230	1,437	--	--		#N/A		1.6E-03		#N/A		5.6E-04			#N/A		1.4E-03		#N/A		5.1E-04		
	Selenium	7782492	1.80	1.80	1.80	1.80	5.0E-03	--		#N/A		1.8E-06	4E-04	#N/A		6.3E-07			#N/A		1.8E-06	4E-04	#N/A		6.3E-07		
	Silver	7440224	0.50	0.50	0.50	0.50	5.0E-03	--		#N/A		4.9E-07	1E-04	#N/A		1.7E-07			#N/A		4.9E-07	1E-04	#N/A		1.7E-07		
	Sodium	7440235	66	54	74	64	--	--		#N/A		6.4E-05		#N/A		2.3E-05			#N/A		5.3E-05		#N/A		1.9E-05		
	Thallium	7440280	1.30	1.30	1.30	1.30	6.5E-05	--		#N/A		1.3E-06	2E-02	#N/A		4.5E-07			#N/A		1.3E-06	2E-02	#N/A		4.5E-07		
	Uranium	7440611	10.4	5.2	10.3	8.6	6.0E-04	--	(e)	#N/A		1.0E-05	2E-02	#N/A		3.6E-06			#N/A		5.1E-06	8E-03	#N/A		1.8E-06		
	Vanadium	7440622	14.8	14.0	13.9	14.2	7.0E-03	--		#N/A		1.4E-05	2E-03	#N/A		5.2E-06			#N/A		1.4E-05	2E-03	#N/A		4.9E-06		
	Zinc	7440666	48	55	40	47	3.0E-01	--		#N/A		4.7E-05	2E-04	#N/A		1.7E-05			#N/A		5.3E-05	2E-04	#N/A		1.9E-05		
									Total		**0E+00**		**1E-01**		**0E+00**		**7E-06**	**7E-06**		**0E+00**		**1E-01**		**0E+00**		**5E-06**	**5E-06**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**			

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maximum.
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:

(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Exposure Pathway: Incidental Ingestion of Sediment

Exposure Population: Worker_Non-Contact Intensive

Exposure Area: Spring Canyon Campground

HIF (kg/kg-d)	Child	Adult
Non-Cancer:	#N/A	9.78E-07
Cancer:	#N/A	3.49E-07

Analyte Group	Analyte Name	CASRN	Sediment Conc. (mg/kg)**				Toxicity Values		Notes	UPPER									BEACH MEAN								
										Non-Cancer				Cancer					Non-Cancer				Cancer				
										Child		Adult		Child		Adult			Child		Adult		Child		Adult		
			Lower	Middle	Upper	Beach Mean	oRfD (mg/kg-d)	oSF (mg/kg-d)$^{-1}$		Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	HQ	Dose (mg/kg-d)	Risk	Dose (mg/kg-d)	Risk	TWA
Common Metals and Metalloids	Aluminum	7429905	8,310	7,800	7,150	7,753	1.0E+00	--		#N/A		7.0E-03	7E-03	#N/A		2.5E-03			#N/A		7.6E-03	8E-03	#N/A		2.7E-03		
	Antimony	7440360	0.8	1.1	1.0	1.0	4.0E-04	--		#N/A		9.8E-07	2E-03	#N/A		3.5E-07			#N/A		9.4E-07	2E-03	#N/A		3.4E-07		
	Arsenic	7440382	10.3	7.5	8.5	8.8	2.4E-04	1.9E+00	(j)	#N/A		8.3E-06	3E-02	#N/A		3.0E-06	6E-06	6E-06	#N/A		8.6E-06	4E-02	#N/A		3.1E-06	6E-06	6E-06
	Barium	7440393	51	52	41	48	2.0E-01	--		#N/A		4.0E-05	2E-04	#N/A		1.4E-05			#N/A		4.7E-05	2E-04	#N/A		1.7E-05		
	Beryllium	7440417	0.64	0.60	0.53	0.59	2.0E-03	--		#N/A		5.2E-07	3E-04	#N/A		1.9E-07			#N/A		5.8E-07	3E-04	#N/A		2.1E-07		
	Cadmium	7440439	0.26	0.26	0.26	0.26	1.0E-03	--	(a)	#N/A		2.5E-07	3E-04	#N/A		9.1E-08			#N/A		2.5E-07	3E-04	#N/A		9.0E-08		
	Calcium	7440702	1,960	1,810	5,990	3,253	--	--		#N/A		5.9E-03		#N/A		2.1E-03			#N/A		3.2E-03		#N/A		1.1E-03		
	Chromium	7440473	9.6	9.7	9.0	9.4	1.5E+00	--	(b)	#N/A		8.8E-06	6E-06	#N/A		3.1E-06			#N/A		9.2E-06	6E-06	#N/A		3.3E-06		
	Cobalt	7440484	4.4	4.1	3.7	4.1	3.0E-04	--		#N/A		3.6E-06	1E-02	#N/A		1.3E-06			#N/A		4.0E-06	1E-02	#N/A		1.4E-06		
	Copper	7440508	7	6	7	6	4.0E-02	--		#N/A		6.4E-06	2E-04	#N/A		2.3E-06			#N/A		6.2E-06	2E-04	#N/A		2.2E-06		
	Iron	7439896	15,400	14,900	14,300	14,867	7.0E-01	--		#N/A		1.4E-02	2E-02	#N/A		5.0E-03			#N/A		1.5E-02	2E-02	#N/A		5.2E-03		
	Lead	7439921	7	7	6	7			(c)																		
	Magnesium	7439954	5,880	5,590	5,360	5,610	--	--		#N/A		5.2E-03		#N/A		1.9E-03			#N/A		5.5E-03		#N/A		2.0E-03		
	Manganese	7439965	227	208	226	220	4.7E-02	--	(d)	#N/A		2.2E-04	5E-03	#N/A		7.9E-05			#N/A		2.2E-04	5E-03	#N/A		7.7E-05		
	Mercury	7439976	0.055	0.055	0.050	0.053	3.0E-04	--	(i)	#N/A		4.9E-08	2E-04	#N/A		1.7E-08			#N/A		5.2E-08	2E-04	#N/A		1.9E-08		
	Nickel	7440020	8.2	7.5	7.5	7.7	2.0E-02	--		#N/A		7.3E-06	4E-04	#N/A		2.6E-06			#N/A		7.6E-06	4E-04	#N/A		2.7E-06		
	Potassium	7440097	1,610	1,470	1,230	1,437	--	--		#N/A		1.2E-03		#N/A		4.3E-04			#N/A		1.4E-03		#N/A		5.0E-04		
	Selenium	7782492	1.80	1.80	1.80	1.80	5.0E-03	--		#N/A		1.8E-06	4E-04	#N/A		6.3E-07			#N/A		1.8E-06	4E-04	#N/A		6.3E-07		
	Silver	7440224	0.50	0.50	0.50	0.50	5.0E-03	--		#N/A		4.9E-07	1E-04	#N/A		1.7E-07			#N/A		4.9E-07	1E-04	#N/A		1.7E-07		
	Sodium	7440235	66	54	74	64	--	--		#N/A		7.2E-05		#N/A		2.6E-05			#N/A		6.3E-05		#N/A		2.2E-05		
	Thallium	7440280	1.30	1.30	1.30	1.30	6.5E-05	--		#N/A		1.3E-06	2E-02	#N/A		4.5E-07			#N/A		1.3E-06	2E-02	#N/A		4.5E-07		
	Uranium	7440611	10.4	5.2	10.3	8.6	6.0E-04	--	(e)	#N/A		1.0E-05	2E-02	#N/A		3.6E-06			#N/A		8.4E-06	1E-02	#N/A		3.0E-06		
	Vanadium	7440622	14.8	14.0	13.9	14.2	7.0E-03	--		#N/A		1.4E-05	2E-03	#N/A		4.9E-06			#N/A		1.4E-05	2E-03	#N/A		5.0E-06		
	Zinc	7440666	48	55	40	47	3.0E-01	--		#N/A		5.3E-05	2E-04	#N/A		1.9E-05			#N/A		4.6E-05	2E-04	#N/A		1.7E-05		
									Total		**0E+00**		**1E-01**		**0E+00**		**6E-06**	**6E-06**		**0E+00**		**1E-01**		**0E+00**		**6E-06**	**6E-06**
										Total HQ or Risks > LOPC?:				**Yes**					**Total HQ or Risks > LOPC?:**				**Yes**				

**Non-detects are evaluated at 1/2 the reported detection limit.
#N/A = no data available
-- = no toxicity value available
m = Default ADAFs applied in accordance with EPA (2005), carcinogenic via mutagenic mode of action

EPC basis: max [1] = N < 5 samples or low detection frequency, ProUCL cannot be utilized; EPC equal to the maxim
ucl [2] = EPC equal to the ProUCL 95UCL (95UCL > maximum).
ucl = EPC equal to the ProUCL 95UCL.

Notes:

(a) Based on toxicity values for food.
(b) Based on toxicity values for Chromium III.
(c) Lead evaluated separately based on PbB models.
(d) Based on toxicity values for non-food.
(e) Based on toxicity values from MCL.
(f) Based on toxicity values for 4-4'-DDE.
(g) Based on toxicity values for 4-4'-DDT.
(h) Based on toxicity values for Chlordane.
(i) Assumes chemical form of mercury is mercuric chloride.
(j) Toxicity values adjusted using an RBA of 0.8.

Appendix J

Evaluation of Short-term Exposure Scenarios

APPENDIX J

EVALUATION OF SHORT-TERM EXPOSURE SCENARIOS

SHORT-TERM INHALATION EXPOSURES TO OUTDOOR AIR IMPACTED BY WINDBLOWN SEDIMENT DURING HIGH WIND EVENTS

Exposure Scenario

As a result of reservoir operations, water levels in the UCR fluctuate seasonally. At full pool (1,290 ft amsl), Lake Roosevelt extends upstream from Grand Coulee Dam to approximately Onion Creek (RM 730). During typical low pool conditions in the spring, water levels drop to about 1,245 ft amsl exposing large areas of sediment along the UCR. In these exposed areas, fine-grained sediment particles may become airborne as a result of atmospheric disturbances. During periods of reservoir drawdown when larger areas of sediments are exposed, high wind events may greatly increase concentrations of sediment-derived contaminants in outdoor air and may be important in assessing potential acute health impacts from short-term (acute) inhalation exposure scenarios.

Exposure Point Concentration (EPC)

The available measured outdoor air data specific to wind storm events are quite limited (*i.e.*, there are only a handful of observations noted as "high wind event" from the USGS air monitoring stations in the lower reaches), and it is not clear if these data have adequately captured results from high wind events. Therefore, for the purposes of calculating screening level risk estimates for acute inhalation exposures, the exposure point concentration (EPC) is set equal to the maximum contaminant concentration in outdoor air.

Toxicity Values

Inhalation toxicity values for short-term exposures were selected based on the hierarchy recommended by EPA (2005), presented below in order of preference:

1) **California Environmental Protection Agency (Cal/EPA) Acute Reference Exposure Levels (CA-RELs)** were designed to protect the general public from acute exposure events that may occur periodically throughout an individual's lifetime (Cal/EPA 1999). CA-RELs were derived for the most sensitive endpoint for the most sensitive individual, typically for exposures ranging from 1 to 8 hours (available at: http://www.oehha.org/air/acute_rels/allAcRELs.html).

2) **Acute Inhalation Exposure Guidelines (AEGL-1)** were designed to be used in rare or "once in a lifetime events". These values do not have the same level of safety factors as the CA-RELs. The AEGL-1 values are derived from acute levels corresponding to effects that may lead to irritation or other transient, reversible effects that are not otherwise debilitating. AEGL-1 values are derived for exposure periods between 30 minutes and 8 hours (available at: http://earth1.epa.gov/oppt/aegl/pubs/chemlist.htm).

3) **Emergency Response Planning Guidelines - Level 1 (ERPG-1)** were developed by the American Industrial Hygiene Association and are also designed to be used in rare occurrences. ERPG-1 values correspond to an effect that may lead to a transient, reversible

effect that is not debilitating. ERPG-1 values are derived for exposure periods of 1 hour (available at: http://www.atlintl.com/DOE/teels/teel.html).

4) **Temporary Emergency Exposure Limits (TEELs)/Protective Action Criteria (PACs)** were developed by the Department of Energy (DOE) for chemicals where ERPG values were not available. The data set was originally referred to as the "TEEL data set". It has since been renamed the "PAC data set", and includes a series of acute TEELs and PACs. The TEEL-1 and PAC-1 values are a threshold levels for mild, transient effects and are calculated based on an assumed exposure period of 15-minutes (available at: http://www.atlintl.com/DOE/teels/teel.html).

Table J-1 presents the acute toxicity values that were used to evaluate short-term inhalation exposures to metals at the UCR Site.

Preliminary Risk Estimates

Table J-2 presents the preliminary risk calculations for the short-term exposure scenario for each reach where measured metals data are available in outdoor air. As seen, estimated risks were below the LOPC for all metals.

References

California Environmental Protection Agency (Cal/EPA). 1999. Air Toxics Hot Spot Program Risk Assessment Guidelines, Part I: The Determination of Acute Reference Exposure Levels for Airborne Toxicants. Office of Environmental Health Hazard Assessment. March. http://www.oehha.ca.gov/air/pdf/acuterel.pdf

EPA (U.S. Environmental Protection Agency). 2005. Human Health Risk Assessment Protocol for Hazardous Waste Combustion Facilities. Office of Solid Waste and Emergency Response, Washington, DC. EPA/530/R05/006. September. http://www.epa.gov/combustion/riskvol.htm

SHORT-TERM INGESTION EXPOSURES TO SURFACE WATER FOLLOWING ACCIDENTAL SPILLS/RELEASES

Exposure Scenario

The Trail facility has historically and recently experienced a number of accidental spills into the Columbia River. Table 3-1 (in the main text) provided a summary of chemical releases since 1983, based on records obtained from Environment Canada's spilltracker database.

In order to evaluate potential risks to humans from exposures to spills and releases to the UCR, the baseline HHRA will include a hypothetical exposure "swimming in the plume" scenario. For the purposes of this evaluation, it is assumed that Northport residents swim in the UCR near the U.S.-Canada border for a duration of one hour at the time of the spill release. While swimming, the amount of surface water ingested was 50 mL (this is consistent with the intake rate values recommended in EPA (1989)).

Approach for Lead

Ingestion of lead during a swimming event will be simulated as an increment to a residential baseline exposure that represents exposures from all other typical environmental pathways (*e.g.*, air, diet, drinking water, soil and dust). Blood lead concentration kinetics will be simulated with the International Commission on Radiological Protection (ICRP) biokinetics model for lead (ICRP 1994; Leggett 1993). Major attributes of the ICRP model for this analysis are:

(1) The ICRP model can be used to simulate exposures durations of one day, enabling simulations of blood lead concentration dynamics associated with highly intermittent daily exposures.

(2) These types of simulations can only be approximated with the IEUBK model, which simulates exposures in time steps of 1 year (*i.e.*, age-year average exposures).

(3) The ICRP model is a regulatory model. It was developed for calculating radiation doses from bone-seeking radionuclides, including radioisotopes of Pb (Leggett 1985; 1992a,b). The model has been used to develop cancer risk coefficients for internal radiation exposures to lead and other alkaline earth elements that have biokinetics similar to those of calcium (ICRP 1993, 2001; EPA 1998b).

(4) The model has also been used to predict blood lead concentrations expected from inhalation (Khoury and Diamond 2003) and ingestion (Lorenzana et al. 2005) of lead in children for applications to risk assessment in the EPA hazardous waste program and in other risk assessment contexts (Abrahams et al. 2006; Pounds and Leggett 1998).

Simulation of baseline residential exposures and blood lead concentration

In addition to ingestion of lead in association with swimming in a plume, exposures to lead in other media occur at the residence. Child residential exposures to lead in environmental media

will be simulated with the ICRP model as a constant ingestion intake that approximates the blood lead concentration profiles for children of ages 1-7 years predicted by the IEUBK model for exposures to soil lead concentrations representing surface soils in the northern reach of the site (all other input parameters at the default values and dietary lead intakes based on the 1995-2003 FDA Total Diet Survey). Adult residential exposures will be simulated with the ICRP model as a constant ingestion intake that approximates the blood lead concentration for adults predicted by the ALM for exposures to soil lead concentrations representing surface soils in the northern reach of the site.

Simulation of plume exposures and blood concentrations

Exposures to water-borne lead during a single swimming event will be simulated in the ICRP model as an ingestion lead intake (µg/event) as follows (Equation 1):

$$INWATER_{Pb} = Water_{Pb} * IR_W \qquad \text{Eq. (1)}$$

where:

$INWATER_{Pb}$ = the intake of lead from incidental ingestion of water while swimming (µg/event)

$WATER_{Pb}$ = the lead concentration in the water (µg/L)

IR_W = the rate of incidental ingestion of water while swimming (L/event)

Output

Blood lead concentration-time profiles will be constructed, based on ICRP model simulations. In the baseline HHRA, these will be described graphically in context with various possible risk metrics (*e.g.*, probability of exceeding 10 µg/dL).

References

Abrahams, P.W.; Follansbee, M.H.; Hunt, A.; Smith, B.; Wragg, J. (2006) Iron nutrition and possible lead toxicity: An appraisal of geophagy undertaken by pregnant women of U.K. Asian communities. Appl. Geochem. 21: 98-108.

EPA (1998) Health risks from low level environmental exposures to radionuclides. Federal guidance report no. 13—part 1: interim version. Washington, DC: U.S.

ICRP (1993) Age-specific biokinetics for the alkaline earth elements. In: Age-dependent doses to members of the public from intake of radionuclides: part 2. Ingestion dose coefficients. New York, NY: Elsevier Science, Inc.; pp. 95-120. (ICRP publication no. 67, Appendix A).

ICRP (1994). Human respiratory tract model for radiological protection. ICRP Publication 66. Oxford: Pergamon Press.

ICRP (2001) The ICRP database of Dose Coefficients: Workers and Members of the Public (CD-ROM) ISBN 0 08 043 8768

Khoury, G.A.; Diamond, G.L. (2003) Risks to children from remedial or removal activities at Superfund sites: a case study of the RSR lead smelter Superfund site. J. Exp. Anal. Environ. Epidemiol. 13: 51-65.

Leggett, R. W. (1985) A model of the retention, translocation and excretion of systemic Pu. Health Phys. 49: 1115-1137.

Leggett, R. W. (1992a) A retention-excretion model for americium in humans. Health Phys. 62: 288-310.

Leggett, R. W. (1992b) A generic age-specific biokinetic model for calcium-like elements. Radiat. Prot. Dosim. 41: 183-198.

Leggett, R.W. (1993) An age-specific kinetic model of lead metabolism in humans. Environ. Health Perspect. 101: 598-615.

Lorenzana, R.M.; Troast, R.; Klotzbach, J.M.; Follansbee, M.H.; Diamond, G.L. (2005) Issues related to time averaging of exposure in modeling risks associated with intermittent exposures to lead. Risk Anal. 25(1): 168-178.

Pounds, J.G.; Leggett, R.W. (1998) The ICRP age-specific biokinetic model for lead: validations, empirical comparisons, and explorations. Environ. Health Perspect. Suppl. 106: 1505-1511

Table J-1
Acute Inhalation Toxicity Values for Metals

Analyte Group	Analyte Name	CASRN	REL 1-h (mg/m3)	TEEL-0 (mg/m3)	PAC-1 (mg/m3)	Selected Value (mg/m3)
Common Metals and Metalloids	Antimony	7440360	--	0.5	1.5	1.5
	Arsenic	7440382	0.00019	0.01	0.03	0.00019
	Barium	7440393	--	0.5	1.5	1.5
	Beryllium	7440417	--	0.002	0.005	0.005
	Cadmium	7440439	--	0.005	0.03	0.03
	Chromium	7440473	--	1	1.5	1.5
	Cobalt	7440484	--	0.1	3	3
	Copper	7440508	0.10	1	1	0.10
	Iron	7439896	--	1.5	4	4
	Lead	7439921	--	0.05	0.15	0.15
	Manganese	7439965	--	0.2	3	3
	Mercury	7439976	-- [1]	0.027 [2]	0.108 [2]	0.027
	Molybdenum	7439987	--	10	30	30
	Nickel	7440020	0.006	1	4.5	0.006
	Phosphorous	7723140	--	0.04	0.125	0.125
	Silver	7440224	--	0.01	0.3	0.3
	Thallium	7440280	--	0.1	0.3	0.3
	Uranium	7440611	--	0.05	0.6	0.6
	Vanadium	7440622	--	0.05	0.15	0.15
	Zinc	7440666	--	10	30	30
Other Metals	Bismuth	7440699	--	1.5	5	5
	Cerium	7440451	--	10	30	30
	Cesium	7440462	--	6	20	20
	Gallium	7440553	--	10	30	30
	Lanthanum	7439910	--	10	30	30
	Lithium	7439932	--	10	30	30
	Niobium	7440031	--	40	125	125
	Rubidium	7440177	--	5	15	15
	Scandium	7440202	--	10	30	30
	Strontium	7440246	--	10	30	30
	Thorium	7440291	--	0.2	0.6	0.6
	Titanium	7440326	--	10	30	30
	Ytterbium	7440644	--	--	--	--

[1] Available toxicity value (1.8 ug/m^3) is based on inhalation of metallic mercury vapors which is not applicable to the expected chemical form in sediments.

[2] Based on mercury(II) as oxide

TABLE J-2

Exposure Pathway: Short-term Inhalation of Airborne Particulates (PM10) in Outdoor Air

Receptor: ***Acute exposure scenario applicable to all outdoor receptor populations***

Exposure Area: Reach 3

Analyte Group	Analyte Name	CASRN	Outdoor Air EPC, measured**		EPC basis [1]	Detect. Freq. (%)	Acute Toxicity Value (ug/m^3)	Acute HQ
Common Metals and Metalloids	Antimony	7440360	0.014462	ug/m3	max	100%	1,500	1E-05
	Arsenic	7440382	0.00547	ug/m3	max	92%	0.19	3E-02
	Barium	7440393	3.99	ug/m3	max	100%	1,500	3E-03
	Beryllium	7440417	0.00041	ug/m3	max	98%	5	8E-05
	Cadmium	7440439	0.00175	ug/m3	max	94%	30	6E-05
	Chromium	7440473	0.10681	ug/m3	max	100%	1,500	7E-05
	Cobalt	7440484	0.00125	ug/m3	max	98%	3,000	4E-07
	Copper	7440508	0.449259	ug/m3	max	96%	100	4E-03
	Iron	7439896	1.5563	ug/m3	max	100%	4,000	4E-04
	Lead	7439921	0.075853	ug/m3	max	91%	150	5E-04
	Manganese	7439965	0.05137	ug/m3	max	98%	3,000	2E-05
	Mercury	7439976	1.52E-05	ug/m3	max	65%	27	6E-07
	Molybdenum	7439987	0.35653	ug/m3	max	84%	30,000	1E-05
	Nickel	7440020	0.02772	ug/m3	max	100%	6	5E-03
	Silver	7440224	0.000958	ug/m3	max	95%	300	3E-06
	Thallium	7440280	0.00024	ug/m3	max	99%	300	8E-07
	Uranium	7440611	0.00783	ug/m3	max	93%	600	1E-05
	Vanadium	7440622	0.00362	ug/m3	max	94%	150	2E-05
	Zinc	7440666	0.215	ug/m3	max	100%	30,000	7E-06
Other Metals	Bismuth	7440699	0.00638	ug/m3	max	95%	5,000	1E-06
	Cerium	7440451	0.01577	ug/m3	max	100%	30,000	5E-07
	Cesium	7440462	0.00015	ug/m3	max	100%	20,000	8E-09
	Gallium	7440553	0.00712	ug/m3	max	100%	30,000	2E-07
	Lanthanum	7439910	0.00865	ug/m3	max	89%	30,000	3E-07
	Lithium	7439932	0.00195	ug/m3	max	100%	30,000	7E-08
	Niobium	7440031	0.00566	ug/m3	max	100%	125,000	5E-08
	Rubidium	7440177	0.01678	ug/m3	max	94%	15,000	1E-06
	Scandium	7440202	0.00071	ug/m3	max	99%	30,000	2E-08
	Strontium	7440246	0.05493	ug/m3	max	98%	30,000	2E-06
	Thorium	7440291	0.00371	ug/m3	max	88%	600	6E-06
	Titanium	7440326	0.14997	ug/m3	max	95%	30,000	5E-06
	Ytterbium	7440644	0.03255	ug/m3	max	99%	--	
							Total	**4E-02**

#N/A = no data available

-- = no toxicity value available

[1] EPC based on maximum measured air concentration to estimate potential dust storm conditions

[2] For acute exposures EC = Cair, outdoor

TABLE J-2

Exposure Pathway: Short-term Inhalation of Airborne Particulates (PM10) in Outdoor Air

Receptor: ***Acute exposure scenario applicable to all outdoor receptor populations***

Exposure Area: Reach 4b

Analyte Group	Analyte Name	CASRN	Outdoor Air EPC, measured**		EPC basis [1]	Detect. Freq. (%)	Acute Toxicity Value (ug/m^3)	Acute HQ
Common Metals and Metalloids	Antimony	7440360	0.00253	ug/m3	max	99%	1,500	2E-06
	Arsenic	7440382	0.00401	ug/m3	max	91%	0.19	2E-02
	Barium	7440393	1.51	ug/m3	max	97%	1,500	1E-03
	Beryllium	7440417	0.00019	ug/m3	max	96%	5	4E-05
	Cadmium	7440439	0.00096	ug/m3	max	94%	30	3E-05
	Chromium	7440473	0.04092	ug/m3	max	100%	1,500	3E-05
	Cobalt	7440484	0.000699	ug/m3	max	95%	3,000	2E-07
	Copper	7440508	1.899582	ug/m3	max	96%	100	2E-02
	Iron	7439896	1.765744	ug/m3	max	99%	4,000	4E-04
	Lead	7439921	0.01461	ug/m3	max	93%	150	1E-04
	Manganese	7439965	0.039653	ug/m3	max	95%	3,000	1E-05
	Mercury	7439976	9.68E-06	ug/m3	max	50%	27	4E-07
	Molybdenum	7439987	0.13163	ug/m3	max	89%	30,000	4E-06
	Nickel	7440020	0.01068	ug/m3	max	100%	6	2E-03
	Silver	7440224	0.002264	ug/m3	max	91%	300	8E-06
	Thallium	7440280	0.00012	ug/m3	max	99%	300	4E-07
	Uranium	7440611	0.00298	ug/m3	max	95%	600	5E-06
	Vanadium	7440622	0.006215	ug/m3	max	95%	150	4E-05
	Zinc	7440666	0.088496	ug/m3	max	100%	30,000	3E-06
Other Metals	Bismuth	7440699	0.00068	ug/m3	max	95%	5,000	1E-07
	Cerium	7440451	0.00611	ug/m3	max	99%	30,000	2E-07
	Cesium	7440462	0.000216	ug/m3	max	99%	20,000	1E-08
	Gallium	7440553	0.00278	ug/m3	max	100%	30,000	9E-08
	Lanthanum	7439910	0.00333	ug/m3	max	93%	30,000	1E-07
	Lithium	7439932	0.00221	ug/m3	max	100%	30,000	7E-08
	Niobium	7440031	0.00504	ug/m3	max	100%	125,000	4E-08
	Rubidium	7440177	0.007439	ug/m3	max	95%	15,000	5E-07
	Scandium	7440202	0.000673	ug/m3	max	96%	30,000	2E-08
	Strontium	7440246	0.02055	ug/m3	max	99%	30,000	7E-07
	Thorium	7440291	0.00148	ug/m3	max	91%	600	2E-06
	Titanium	7440326	0.162067	ug/m3	max	97%	30,000	5E-06
	Ytterbium	7440644	0.01203	ug/m3	max	98%	--	
							Total	**4E-02**

#N/A = no data available

-- = no toxicity value available

[1] EPC based on maximum measured air concentration to estimate potential dust storm conditions

[2] For acute exposures EC = Cair, outdoor

TABLE J-2

Exposure Pathway: Short-term Inhalation of Airborne Particulates (PM10) in Outdoor Air

Receptor: ***Acute exposure scenario applicable to all outdoor receptor populations***

Exposure Area: Reach 5

Analyte Group	Analyte Name	CASRN	Outdoor Air EPC, measured**	EPC basis [1]	Detect. Freq. (%)	Acute Toxicity Value (ug/m^3)	Acute HQ
Common Metals and Metalloids	Antimony	7440360	0.00064 ug/m3	max	99%	1,500	4E-07
	Arsenic	7440382	0.001553 ug/m3	max	93%	0.19	8E-03
	Barium	7440393	1.168032 ug/m3	max	94%	1,500	8E-04
	Beryllium	7440417	0.000163 ug/m3	max	97%	5	3E-05
	Cadmium	7440439	0.00064 ug/m3	max	90%	30	2E-05
	Chromium	7440473	0.03052 ug/m3	max	100%	1,500	2E-05
	Cobalt	7440484	0.001913 ug/m3	max	95%	3,000	6E-07
	Copper	7440508	0.73499 ug/m3	max	95%	100	7E-03
	Iron	7439896	4.990134 ug/m3	max	100%	4,000	1E-03
	Lead	7439921	0.01011 ug/m3	max	92%	150	7E-05
	Manganese	7439965	0.113555 ug/m3	max	98%	3,000	4E-05
	Mercury	7439976	9.16E-06 ug/m3	max	48%	27	3E-07
	Molybdenum	7439987	0.09896 ug/m3	max	88%	30,000	3E-06
	Nickel	7440020	0.00873 ug/m3	max	100%	6	1E-03
	Silver	7440224	0.00046 ug/m3	max	92%	300	2E-06
	Thallium	7440280	0.00013 ug/m3	max	97%	300	4E-07
	Uranium	7440611	0.00227 ug/m3	max	90%	600	4E-06
	Vanadium	7440622	0.011755 ug/m3	max	95%	150	8E-05
	Zinc	7440666	0.106 ug/m3	max	100%	30,000	4E-06
Other Metals	Bismuth	7440699	0.00257 ug/m3	max	95%	5,000	5E-07
	Cerium	7440451	0.006658 ug/m3	max	99%	30,000	2E-07
	Cesium	7440462	0.000508 ug/m3	max	98%	20,000	3E-08
	Gallium	7440553	0.00218 ug/m3	max	100%	30,000	7E-08
	Lanthanum	7439910	0.003571 ug/m3	max	92%	30,000	1E-07
	Lithium	7439932	0.003148 ug/m3	max	100%	30,000	1E-07
	Niobium	7440031	0.00358 ug/m3	max	99%	125,000	3E-08
	Rubidium	7440177	0.009624 ug/m3	max	93%	15,000	6E-07
	Scandium	7440202	0.001876 ug/m3	max	94%	30,000	6E-08
	Strontium	7440246	0.026331 ug/m3	max	98%	30,000	9E-07
	Thorium	7440291	0.00115 ug/m3	max	91%	600	2E-06
	Titanium	7440326	0.618016 ug/m3	max	98%	30,000	2E-05
	Ytterbium	7440644	0.00915 ug/m3	max	97%	--	
						Total	**2E-02**

#N/A = no data available

-- = no toxicity value available

[1] EPC based on maximum measured air concentration to estimate potential dust storm conditions

[2] For acute exposures EC = Cair, outdoor