

Washington Endurance Line

M21 Site (25m)

Surface Expression - Type I

Instrument	Manufacturer, Model	Unit purchase costs	Location
Wind Speed/ Direction, Sonic	Vaisala Inc., PN 425	\$1,607	Surface
Relative Humidity - Air Temp.	ASIMET/Star Engineering	\$7,752	Surface
Pressure, Barometric	ASIMET/Star Engineering	\$7,477	Surface
Radiometer, Short-wave	ASIMET/Star Engineering	\$9,103	Surface
Radiometer, Long-wave	ASIMET/Star Engineering	\$11,246	Surface
Precipitation sensor	ASIMET/Star Engineering	\$8,200	Surface
CTD	Seabird SBE 37SM Temp and Salinity with Paro pressure xducer	\$6,487	Surface
Current Meter, ADCP, profiling 600m range	RD Instruments Workhorse Long Ranger	\$57,261	Surface
Subtotals		\$109,133	

Benthic Expression

Instrument	Manufacturer, Model	Unit purchase costs	Location
CTD	Seabird SBE 37SM Temp and Salinity with Paro pressure xducer	\$6,487	Benthic
Oxygen (optrode)	Aanderaa Instruments OXYGEN OPTRODE 0973830	\$4,687	Benthic
Fluorometer/Backscatter, Wetlabs ECO triplett	Wetlabs ECO Triplet	\$10,583	Benthic
Current meter, point measurement, 3 Axis acoustic	2ACM-7000 Falmouth Scientific Inc.	\$8,171	Benthic
Current Meter, ADCP, profiling, 47 meter range	RD Instruments Workhorse Sentinel	\$31,923	Benthic
Subtotals		\$61,850	

Vertical Profiler System (winched)

Instrument	Manufacturer, Model	Unit purchase costs	Location
CTD	Seabird SBE 37SM Temp and Salinity with Paro pressure xducer	\$6,487	Profiler
Oxygen (optrode)	Aanderaa Instruments OXYGEN OPTRODE 0973830	\$4,687	Profiler
Fluorometer/Backscatter, Wetlabs ECO triplett	Wetlabs ECO Triplet	\$10,583	Profiler
PAR sensor	QSP-2150 Biospherical Instruments Inc.	\$1,125	Profiler
Turbidity, Nephelometer, C- Star, 6000m	Wetlabs Inc. C-star transmissometer, wavelength 660nm, pathlength 25cm, 6000m housing	\$4,589	Profiler
Profiler current meter (FSI/McLane)	FSI-ACM FSI/McLane	\$10,450	Profiler
Subtotals		\$37,921	

Washington Endurance Line

M22 Site (50m)

Surface Expression - Type I

Instrument	Manufacturer, Model	Unit purchase costs	Location
Wind Speed/ Direction, Sonic	Vaisala Inc., PN 425	\$1,607	Surface
Relative Humidity - Air Temp.	ASIMET/Star Engineering	\$7,752	Surface
Pressure, Barometric	ASIMET/Star Engineering	\$7,477	Surface
Radiometer, Short-wave	ASIMET/Star Engineering	\$9,103	Surface
Radiometer, Long-wave	ASIMET/Star Engineering	\$11,246	Surface
Precipitation sensor	ASIMET/Star Engineering	\$8,200	Surface
CTD	Seabird SBE 37SM Temp and Salinity with Paro pressure xducer	\$6,487	Surface
Current Meter, ADCP, profiling 600m range	RD Instruments Workhorse Long Ranger	\$57,261	Surface
Subtotals		\$109,133	

Vertical Profiler System (winched)

Instrument	Manufacturer, Model	Unit purchase costs	Location
CTD	Seabird SBE 37SM Temp and Salinity with Paro pressure xducer	\$6,487	Profiler
Oxygen (optrode)	Aanderaa Instruments OXYGEN OPTRODE 0973830	\$4,687	Profiler
Fluorometer/Backscatter, Wetlabs ECO tripllett	Wetlabs ECO Triplett	\$10,583	Profiler
PAR sensor	QSP-2150 Biospherical Instruments Inc.	\$1,125	Profiler
Turbidity, Nephelometer, C- Star, 6000m	Wetlabs Inc. C-star transmissometer, wavelength 660nm, pathlength 25cm, 6000m housing	\$4,589	Profiler
Profiler current meter (FSI/McLane)	FSI-ACM FSI/McLane	\$10,450	Profiler
Subtotals		\$37,921	

Washington Endurance Line

M23 Site (80m)

Surface Expression - Type I

Instrument	Manufacturer, Model	Unit purchase costs	Location
Wind Speed/ Direction, Sonic	Vaisala Inc., PN 425	\$1,607	Surface
Relative Humidity - Air Temp.	ASIMET/Star Engineering	\$7,752	Surface
Pressure, Barometric	ASIMET/Star Engineering	\$7,477	Surface
Radiometer, Short-wave	ASIMET/Star Engineering	\$9,103	Surface
Radiometer, Long-wave	ASIMET/Star Engineering	\$11,246	Surface
Precipitation sensor	ASIMET/Star Engineering	\$8,200	Surface
CTD	Seabird SBE 37SM Temp and Salinity with Paro pressure xducer	\$6,487	Surface
Current Meter, ADCP, profiling 600m range	RD Instruments Workhorse Long Ranger	\$57,261	Surface
Subtotals		\$109,133	

Benthic Expression

Instrument	Manufacturer, Model	Unit purchase costs	Location
CTD	Seabird SBE 37SM Temp and Salinity with Paro pressure xducer	\$6,487	Benthic
Oxygen (optrode)	Aanderaa Instruments OXYGEN OPTRODE 0973830	\$4,687	Benthic
Fluorometer/Backscatter, Wetlabs ECO triplett	Wetlabs ECO Triplet	\$10,583	Benthic
Current meter, point measurement, 3 Axis acoustic	2ACM-7000 Falmouth Scientific Inc.	\$8,171	Benthic
Current Meter, ADCP, profiling, 47 meter range	RD Instruments Workhorse Sentinel	\$31,923	Benthic
Subtotals		\$61,850	

Vertical Profiler System (winched)

Instrument	Manufacturer, Model	Unit purchase costs	Location
CTD	Seabird SBE 37SM Temp and Salinity with Paro pressure xducer	\$6,487	Profiler
Oxygen (optrode)	Aanderaa Instruments OXYGEN OPTRODE 0973830	\$4,687	Profiler
Fluorometer/Backscatter, Wetlabs ECO triplett	Wetlabs ECO Triplet	\$10,583	Profiler
PAR sensor	QSP-2150 Biospherical Instruments Inc.	\$1,125	Profiler
Turbidity, Nephelometer, C-Star, 6000m	Wetlabs Inc. C-star transmissometer, wavelength 660nm, pathlength 25cm, 6000m housing	\$4,589	Profiler
Profiler current meter (FSI/McLane)	FSI-ACM FSI/McLane	\$10,450	Profiler
Subtotals		\$37,921	

Washington Endurance Line

M24 Site

Surface Expression - Type I

Instrument	Manufacturer, Model	Unit purchase costs	Location
Wind Speed/ Direction, Sonic	Vaisala Inc., PN 425	\$1,607	Surface
Relative Humidity - Air Temp.	ASIMET/Star Engineering	\$7,752	Surface
Pressure, Barometric	ASIMET/Star Engineering	\$7,477	Surface
Radiometer, Short-wave	ASIMET/Star Engineering	\$9,103	Surface
Radiometer, Long-wave	ASIMET/Star Engineering	\$11,246	Surface
Precipitation sensor	ASIMET/Star Engineering	\$8,200	Surface
CTD	Seabird SBE 37SM Temp and Salinity with Paro pressure xducer	\$6,487	Surface
Current Meter, ADCP, profiling 600m range	RD Instruments Workhorse Long Ranger	\$57,261	Surface
Subtotals		\$109,133	

Vertical Profiler System (winched)

Instrument	Manufacturer, Model	Unit purchase costs	Location
CTD	Seabird SBE 37SM Temp and Salinity with Paro pressure xducer	\$6,487	Profiler
Oxygen (optrode)	Aanderaa Instruments OXYGEN OPTRODE 0973830	\$4,687	Profiler
Fluorometer/Backscatter, Wetlabs ECO tripllett	Wetlabs ECO Triplet	\$10,583	Profiler
PAR sensor	QSP-2150 Biospherical Instruments Inc.	\$1,125	Profiler
Turbidity, Nephelometer, C- Star, 6000m	Wetlabs Inc. C-star transmissometer, wavelength 660nm, pathlength 25cm, 6000m housing	\$4,589	Profiler
Profiler current meter (FSI/McLane)	FSI-ACM FSI/McLane	\$10,450	Profiler
Subtotals		\$37,921	

WA Line Instrument Spares

Surface Expression Spares

Instrument	Manufacturer, Model	Unit purchase costs	Location
Wind Speed/ Direction, Sonic	Vaisala Inc., PN 425	\$1,607	Surface
Relative Humidity - Air Temp.	ASIMET/Star Engineering	\$7,752	Surface
Pressure, Barometric	ASIMET/Star Engineering	\$7,477	Surface
Radiometer, Short-wave	ASIMET/Star Engineering	\$9,103	Surface
Radiometer, Long-wave	ASIMET/Star Engineering	\$11,246	Surface
Precipitation sensor	ASIMET/Star Engineering	\$8,200	Surface
CTD	Seabird SBE 37SM Temp and Salinity with Paro pressure xducer	\$6,487	Surface
Current Meter, ADCP, profiling 600m range	RD Instruments Workhorse Long Ranger	\$57,261	Surface
Subtotals		\$109,133	

Benthic Expression Spares

Instrument	Manufacturer, Model	Unit purchase costs	Location
CTD	Seabird SBE 37SM Temp and Salinity with Paro pressure xducer	\$6,487	Benthic
Oxygen (optrode)	Aanderaa Instruments OXYGEN OPTRODE 0973830	\$4,687	Benthic
Fluorometer/Backscatter, Wetlabs ECO triplett	Wetlabs ECO Triplett	\$10,583	Benthic
Current meter, point measurement, 3 Axis acoustic	2ACM-7000 Falmouth Scientific Inc.	\$8,171	Benthic
Current Meter, ADCP, profiling, 47 meter range	RD Instruments Workhorse Sentinel	\$31,923	Benthic
Subtotals		\$61,850	

Vertical Profiler System (winched) spares

Instrument	Manufacturer, Model	Unit purchase costs	Location
CTD	Seabird SBE 37SM Temp and Salinity with Paro pressure xducer	\$6,487	Profiler
Oxygen (optrode)	Aanderaa Instruments OXYGEN OPTRODE 0973830	\$4,687	Profiler
Fluorometer/Backscatter, Wetlabs ECO triplett	Wetlabs ECO Triplett	\$10,583	Profiler
PAR sensor	QSP-2150 Biospherical Instruments Inc.	\$1,125	Profiler
Turbidity, Nephelometer, C- Star, 6000m	Wetlabs Inc. C-star transmissometer, wavelength 660nm, pathlength 25cm, 6000m housing	\$4,589	Profiler
Profiler current meter (FSI/McLane)	FSI-ACM FSI/McLane	\$10,450	Profiler
Subtotals		\$37,921	