

Proposed Schedule

Subject to Change Based on Adaptive Management

Exploration Licence (60 months) Month	Campaign / Cruise #	Vessel	Principle Activity	Box Core and Bulk Sampling	Duration	Budget (NZD)
1 (Mar 2022)			Exploration Licence granted			
2 (Apr 2022)						
3 (May 2022)						
4 (Jun 2022)	Seasurveyor / Cruise#1 (Formerly Campaign #2 / Cruise #1)	Small vessel (~40m)	Small vessel arrives Rarotonga			\$576,960
4 (Jun 2022)	Seasurveyor / Cruise#1 (Formerly Campaign #2 / Cruise #1)"	Small vessel (~40m)	Box Coring	50-85 small box cores	21 days	\$829,380
5 (Jul 2022)			Preparations for Campaign#1 (commence moorings development and build)		30 days	
6 (Aug 2022)			Preparations for Campaign#1		30 days	
7 (Sep 2022)			Preparations for Campaign#1. Large Vessel arrives S.Pacific		30 days	\$1,153,920
8 (Oct 2022)	Campaign#1 / Cruise#1	Large vessel (~60-80m)	Shipborne multibeam mapping of approximately 100,000 km2		30-45 days	\$3,158,856
9 (Nov 2022)	Campaign#1 / Cruise#2	Large vessel (~60-80m)	Shipborne multibeam mapping of approximately 112,000 km2		30-45 days	\$3,158,856
10 (Dec 2022)	Campaign#1 / Cruise#3	Large vessel (~60-80m)	Box Coring, Bulk Sampling with dredge	75-150 box cores, up to 50 tonnes of bulk sample	30-45 days	\$3,721,392
11 (Jan 2023)	Campaign#1 / Cruise#4	Large vessel (~60-80m)	Box Coring, Bulk Sampling with dredge, High resolution mapping and sampling with Deeptow and ROV (visual and biota sampling)	75-150 box cores, up to 50 tonnes of bulk sample	30-45 days	\$4,644,528
12 (Feb 2023)	Campaign#1 / Cruise#5	Large vessel (~60-80m)	High resolution mapping and sampling with Deeptow and ROV, Moorings, mini-Landers deployments, additional Environmental baseline data collection		30-45 days	\$4,644,528
12 (Feb 2023)		Large vessel (~60-80m)	Large Vessel departs S.Pacific			\$1,153,920
13 (Mar 2023)	Moved to Jun 2022					
13 (Mar 2023)	Moved to Jun 2022					
14	Campaign#2 / Cruise#2	Small vessel (~40m)	High resolution mapping and sampling with AUV and/or ROV visual and biota sampling, ROV geotechnical sampling and measurements, Moorings, mini-Landers maintenance and data recovery, additional Environmental baseline data collection		15 days	\$1,009,680
15	Campaign#2 / Cruise#3	Small vessel (~40m)	Box Coring and possibly bulk sampling	15-25 box cores, bulk sample material if required	15 days	\$649,080
16	Campaign#2 / Cruise#4	Small vessel (~40m)	High resolution mapping and sampling with AUV and/or ROV visual and biota sampling, ROV geotechnical sampling and measurements, Moorings, mini-Landers maintenance and data recovery, additional Environmental baseline data collection		15 days	\$1,189,980
17	Campaign#2 / Cruise#5	Small vessel (~40m)	Box Coring and possibly bulk sampling	15-25 box cores, bulk sample material if required	15 days	\$649,080

18	Campaign#2 / Cruise#6	Small vessel (~40m)	High resolution mapping and sampling with AUV and/or ROV visual and biota sampling, ROV geotechnical sampling and measurements, Moorings, mini-Landers maintenance and data recovery, additional Environmental baseline data collection		15 days	\$1,009,680
19	Campaign#2 / Cruise#7	Small vessel (~40m)	Box Coring and possibly bulk sampling	15-25 box cores, bulk sample material if required	15 days	\$829,380
20	Campaign#2 / Cruise#8	Small vessel (~40m)	High resolution mapping and sampling with AUV and/or ROV, Moorings, mini-Landers maintenance and data recovery, additional Environmental baseline data collection		15 days	\$1,009,680
21	Campaign#2 / Cruise#9	Small vessel (~40m)	Box Coring and possibly bulk sampling	15-25 box cores, bulk sample material if required	15 days	\$649,080
22	Campaign#2 / Cruise#10	Small vessel (~40m)	High resolution mapping and sampling with AUV and/or ROV visual and biota sampling, ROV geotechnical sampling and measurements, Moorings, mini-Landers maintenance and data recovery, additional Environmental baseline data collection		15 days	\$1,189,980
23	Campaign#2 / Cruise#11	Small vessel (~40m)	Box Coring and possibly bulk sampling	15-25 box cores, bulk sample material if required	15 days	\$649,080
24	Campaign#2 / Cruise#12	Small vessel (~40m)	High resolution mapping and sampling with AUV and/or ROV visual and biota sampling, ROV geotechnical sampling and measurements, Moorings, mini-Landers maintenance and data recovery, additional Environmental baseline data collection		15 days	\$1,009,680
25	Campaign#3 / Cruise#1/ Harvesting Tech Testing	Small vessel (~40m)/ Harvesting Tech Testing Vessel*	Box Coring and possibly bulk sampling / utilise harvesting tech testing vessel for engineering/environmental harvest technology tests	15-25 box cores, bulk sample material if required Engineering/environmental harvest technology tests	15 days	\$829,380**
26	Campaign#3 / Cruise#2/ Harvesting Tech Testing	Small vessel (~40m)/ Harvesting Tech Testing Vessel*	High resolution mapping and sampling with AUV and/or ROV visual and biota sampling, ROV geotechnical sampling and measurements, Moorings, mini-Landers maintenance and data recovery, additional Environmental baseline data collection / utilise harvesting tech testing vessel for engineering/environmental harvest technology tests		15 days	\$1,009,680**
27	Campaign#3 / Cruise#3/ Harvesting Tech Testing	Small vessel (~40m)/ Harvesting Tech Testing Vessel*	Box Coring and possibly bulk sampling/ utilise harvesting tech testing vessel for engineering/environmental harvest technology tests	15-25 box cores, bulk sample material if required Engineering/environmental harvest technology tests	15 days	\$649,080**
28	Campaign#3 / Cruise#4/ Harvesting Tech Testing	Small vessel (~40m)/ Harvesting Tech Testing Vessel*	High resolution mapping and sampling with AUV and/or ROV, Moorings, mini-Landers maintenance and data recovery, additional Environmental baseline data collection/ utilise harvesting tech testing vessel for engineering/environmental harvest technology tests		15 days	\$1,189,980**

29	Campaign#3 / Cruise#5/ Harvesting Tech Testing	Small vessel (~40m)/ Harvesting Tech Testing Vessel*	Box Coring and possibly bulk sampling/ utilise harvesting tech testing vessel for engineering/environmental harvest technology tests	15-25 box cores, bulk sample material if required Engineering/environmental harvest technology tests	15 days	\$649,080**
30	Campaign#3 / Cruise#6/ Harvesting Tech Testing	Small vessel (~40m)/ Harvesting Tech Testing Vessel*	High resolution mapping and sampling with AUV and/or ROV visual and biota sampling, ROV geotechnical sampling and measurements, Moorings, mini-Landers maintenance and data recovery, additional Environmental baseline data collection/ utilise harvesting tech testing vessel for engineering/environmental harvest technology tests		15 days	\$1,009,680**
31	Campaign#3 / Cruise#7/ Harvesting Tech Testing	Small vessel (~40m)/ Harvesting Tech Testing Vessel*	Box Coring and possibly bulk sampling/ utilise harvesting tech testing vessel for engineering/environmental harvest technology tests	15-25 box cores, bulk sample material if required Engineering/environmental harvest technology tests	15 days	\$829,380**
32	Campaign#3 / Cruise#8/ Harvesting Tech Testing	Small vessel (~40m)/ Harvesting Tech Testing Vessel*	High resolution mapping and sampling with AUV and/or ROV visual and biota sampling, ROV geotechnical sampling and measurements, Moorings, mini-Landers maintenance and data recovery, additional Environmental baseline data collection/ utilise harvesting tech testing vessel for engineering/environmental harvest technology tests		15 days	\$1,009,680**
33	Campaign#3 / Cruise#9/ Harvesting Tech Testing	Small vessel (~40m)/ Harvesting Tech Testing Vessel*	Box Coring and possibly bulk sampling / utilise harvesting tech testing vessel for engineering/environmental harvest technology tests	15-25 box cores, bulk sample material if required Engineering/environmental harvest technology tests	15 days	\$649,080**
34	Campaign#3 / Cruise#10/ Harvesting Tech Testing	Small vessel (~40m)/ Harvesting Tech Testing Vessel*	High resolution mapping and sampling with AUV and/or ROV visual and biota sampling, ROV geotechnical sampling and measurements, Moorings, mini-Landers maintenance and data recovery, additional Environmental baseline data collection/ utilise harvesting tech testing vessel for engineering/environmental harvest technology tests		15 days	\$1,189,980**
35	Campaign#3 / Cruise#11/ Harvesting Tech Testing	Small vessel (~40m)/ Harvesting Tech Testing Vessel*	Box Coring and possibly bulk sampling / utilise harvesting tech testing vessel for engineering/environmental harvest technology tests	15-25 box cores, bulk sample material if required Engineering/environmental harvest technology tests	15 days	\$649,080**
36	Campaign#3 / Cruise#12/ Harvesting Tech Testing	Small vessel (~40m)/ Harvesting Tech Testing Vessel*	High resolution mapping and sampling with AUV and/or ROV visual and biota sampling, ROV geotechnical sampling and measurements, Moorings, mini-Landers maintenance / utilise harvesting tech testing vessel for engineering/environmental harvest technology tests and data recovery, additional Environmental baseline data collection		15 days	\$1,009,680**

37	Campaign#4 / Cruise#1/ Harvesting Tech Testing	Small vessel (~40m)/ Harvesting Tech Testing Vessel*	Box Coring and possibly bulk sampling/ utilise harvesting tech testing vessel for engineering/environmental harvest technology tests	15-25 box cores, bulk sample material if required Engineering/environmental harvest technology tests	15 days	\$829,380**
38	Campaign#4 / Cruise#2/ Harvesting Tech Testing	Small vessel (~40m)/ Harvesting Tech Testing Vessel*	High resolution mapping and sampling with AUV and/or ROV visual and biota sampling, ROV geotechnical sampling and measurements, Moorings, mini-Landers maintenance/ utilise harvesting tech testing vessel for engineering/environmental harvest technology tests and data recovery, additional Environmental baseline data collection		15 days	\$1,009,680**
39	Campaign#4 / Cruise#3/ Harvesting Tech Testing	Small vessel (~40m)/ Harvesting Tech Testing Vessel*	Box Coring and possibly bulk sampling/ utilise harvesting tech testing vessel for engineering/environmental harvest technology tests	15-25 box cores, bulk sample material if required Engineering/environmental harvest technology tests	15 days	\$649,080**
40	Campaign#4 / Cruise#4/ Harvesting Tech Testing	Small vessel (~40m)/ Harvesting Tech Testing Vessel*	High resolution mapping and sampling with AUV and/or ROV visual and biota sampling, ROV geotechnical sampling and measurements, Moorings, mini-Landers maintenance and data recovery, additional Environmental baseline data collection / utilise harvesting tech testing vessel for engineering/environmental harvest technology tests		15 days	\$1,189,980**
41	Campaign#4 / Cruise#5/ Harvesting Tech Testing	Small vessel (~40m)/ Harvesting Tech Testing Vessel*	Box Coring and possibly bulk sampling/ utilise harvesting tech testing vessel for engineering/environmental harvest technology tests	15-25 box cores, bulk sample material if required Engineering/environmental harvest technology tests	15 days	\$649,080**
42	Campaign#4 / Cruise#6/ Harvesting Tech Testing	Small vessel (~40m)/ Harvesting Tech Testing Vessel*	High resolution mapping and sampling with AUV and/or ROV visual and biota sampling, ROV geotechnical sampling and measurements, Moorings, mini-Landers maintenance and data recovery, additional Environmental baseline data collection/ utilise harvesting tech testing vessel for engineering/environmental harvest technology tests		15 days	\$1,009,680**
43	Campaign#4 / Cruise#7/ Harvesting Tech Testing	Small vessel (~40m)/ Harvesting Tech Testing Vessel*	Box Coring and possibly bulk sampling/ utilise harvesting tech testing vessel for engineering/environmental harvest technology tests	15-25 box cores, bulk sample material if required Engineering/environmental harvest technology tests	15 days	\$829,380**
44	Campaign#4 / Cruise#8/ Harvesting Tech Testing	Small vessel (~40m)/ Harvesting Tech Testing Vessel*	High resolution mapping and sampling with AUV and/or ROV, Moorings, mini-Landers maintenance and data recovery, additional Environmental baseline data collection/ utilise harvesting tech testing vessel for engineering/environmental harvest technology tests		15 days	\$1,009,680**
45	Campaign#4 / Cruise#9/ Harvesting Tech Testing	Small vessel (~40m)/ Harvesting Tech Testing Vessel*	Box Coring and possibly bulk sampling/ utilise harvesting tech testing vessel for engineering/environmental harvest technology tests	15-25 box cores, bulk sample material if required Engineering/environmental harvest technology tests	15 days	\$649,080**

46	Campaign#4 / Cruise#10/ Harvesting Tech Testing	Small vessel (~40m)/ Harvesting Tech Testing Vessel*	High resolution mapping and sampling with AUV and/or ROV visual and biota sampling, ROV geotechnical sampling and measurements, Moorings, mini-Landers maintenance and data recovery, additional Environmental baseline data collection/ utilise harvesting tech testing vessel for engineering/environmental harvest technology tests		15 days	\$1,189,980**
47	Campaign#4 / Cruise#11/ Harvesting Tech Testing	Small vessel (~40m)/ Harvesting Tech Testing Vessel*	Box Coring and possibly bulk sampling/ utilise harvesting tech testing vessel for engineering/environmental harvest technology tests	15-25 box cores, bulk sample material if required Engineering/environmental harvest technology tests	15 days	\$649,080**
48	Campaign#4 / Cruise#12/ Harvesting Tech Testing	Small vessel (~40m)/ Harvesting Tech Testing Vessel*	High resolution mapping and sampling with AUV and/or ROV visual and biota sampling, ROV geotechnical sampling and measurements, Moorings, mini-Landers maintenance and data recovery, additional Environmental baseline data collection/ utilise harvesting tech testing vessel for engineering/environmental harvest technology tests		15 days	\$1,009,680**
49	Campaign#5 / Cruise#1/ Harvesting Tech Testing	Small vessel (~40m)/ Harvesting Tech Testing Vessel*	Box Coring and possibly bulk sampling/ utilise harvesting tech testing vessel for engineering/environmental harvest technology tests	15-25 box cores, bulk sample material if required Engineering/environmental harvest technology tests	15 days	\$829,380**
50	Campaign#5 / Cruise#2/ Harvesting Tech Testing	Small vessel (~40m)/ Harvesting Tech Testing Vessel*	High resolution mapping and sampling with AUV and/or ROV visual and biota sampling, ROV geotechnical sampling and measurements, Moorings, mini-Landers maintenance and data recovery, additional Environmental baseline data collection / utilise harvesting tech testing vessel for engineering/environmental harvest technology tests		15 days	\$1,009,680**
51	Campaign#5 / Cruise#3/ Harvesting Tech Testing	Small vessel (~40m)/ Harvesting Tech Testing Vessel*	Box Coring and possibly bulk sampling/ utilise harvesting tech testing vessel for engineering/environmental harvest technology tests	15-25 box cores, bulk sample material if required Engineering/environmental harvest technology tests	15 days	\$649,080**
52	Campaign#5 / Cruise#4/ Harvesting Tech Testing	Small vessel (~40m)/ Harvesting Tech Testing Vessel*	High resolution mapping and sampling with AUV and/or ROV visual and biota sampling, ROV geotechnical sampling and measurements, Moorings, mini-Landers maintenance and data recovery, additional Environmental baseline data collection/ utilise harvesting tech testing vessel for engineering/environmental harvest technology tests		15 days	\$1,189,980**
53	Campaign#5 / Cruise#5/ Harvesting Tech Testing	Small vessel (~40m)/ Harvesting Tech Testing Vessel*	Box Coring and possibly bulk sampling/ utilise harvesting tech testing vessel for engineering/environmental harvest technology tests	15-25 box cores, bulk sample material if required Engineering/environmental harvest technology tests	15 days	\$649,080**

54	Campaign#5/ Cruise#6/ Harvesting Tech Testing	Small vessel (~40m)/ Harvesting Tech Testing Vessel*	High resolution mapping and sampling with AUV and/or ROV visual and biota sampling, ROV geotechnical sampling and measurements, Moorings, mini-Landers maintenance and data recovery, additional Environmental baseline data collection/ utilise harvesting tech testing vessel for engineering/environmental harvest technology tests		15 days	\$1,009,680**
55	Campaign#5 / Cruise#7/ Harvesting Tech Testing	Small vessel (~40m)/ Harvesting Tech Testing Vessel*	Box Coring and possibly bulk sampling/ utilise harvesting tech testing vessel for engineering/environmental harvest technology tests	15-25 box cores, bulk sample material if required Engineering/environmental harvest technology tests	15 days	\$829,380**
56	Campaign#5/ Cruise#8/ Harvesting Tech Testing	Small vessel (~40m)/ Harvesting Tech Testing Vessel*	High resolution mapping and sampling with AUV and/or ROV visual and biota sampling, ROV geotechnical sampling and measurements, Moorings, mini-Landers maintenance and data recovery, additional Environmental baseline data collection/ utilise harvesting tech testing vessel for engineering/environmental harvest technology tests		15 days	\$1,009,680**
57	Campaign#5 / Cruise#9/ Harvesting Tech Testing	Small vessel (~40m)/ Harvesting Tech Testing Vessel*	Box Coring and possibly bulk sampling/ utilise harvesting tech testing vessel for engineering/environmental harvest technology tests	15-25 box cores, bulk sample material if required Engineering/environmental harvest technology tests	15 days	\$649,080**
58	Campaign#5 / Cruise#10/ Harvesting Tech Testing	Small vessel (~40m)/ Harvesting Tech Testing Vessel*	High resolution mapping and sampling with AUV and/or ROV visual and biota sampling, ROV geotechnical sampling and measurements, Moorings, mini-Landers maintenance and data recovery, additional Environmental baseline data collection/ utilise harvesting tech testing vessel for engineering/environmental harvest technology tests		15 days	\$1,189,980**
59	Campaign#5 / Cruise#11/ Harvesting Tech Testing	Small vessel (~40m)/ Harvesting Tech Testing Vessel*	Box Coring and possibly bulk sampling/ utilise harvesting tech testing vessel for engineering/environmental harvest technology tests	15-25 box cores, bulk sample material if required Engineering/environmental harvest technology tests	15 days	\$649,080**
60	Campaign#5 / Cruise#12/ Harvesting Tech Testing	Small vessel (~40m)/ Harvesting Tech Testing Vessel*	High resolution mapping and sampling with AUV and/or ROV visual and biota sampling, ROV geotechnical sampling and measurements, Moorings, mini-Landers maintenance and data recovery, additional Environmental baseline data collection / utilise harvesting tech testing vessel for engineering/environmental harvest technology tests		15 days	\$1,009,680**
			Campaign cruise days		945 days	\$64,908,000**

* Pre-existing vessel may be used for Harvesting Tech Testing pending the vessel's capabilities and data required.

** Harvesting tech testing budget not included (to be determined)