

## Appendix K – Benefit Cost Analysis Results

### Inland Topography Analysis Results

Requirements	Quality Level	Update Frequency	Total Reported Future Annual Benefits	Total Reduced Value Future Annual Benefits	Net Total Future Annual Benefits	Net Reduced Value Future Annual Benefits	Acquisition Costs Per Year	Benefit/Cost Ratio Full	Benefit/Cost Ratio Reduced Value	Return on Investment Full	Return on Investment Reduced Value	Total Cost Once Over
Uniform QL and UF	QL0HD	Annual	\$9,989,136,959	\$9,849,885,006	\$6,639,217,786	\$6,499,965,832	\$3,349,919,173	2.98	2.94	0.02	0.02	\$3,349,919,173
Uniform QL and UF	QL0HD	2-3 years	\$9,989,136,959	\$9,231,526,934	\$8,649,169,289	\$7,891,559,265	\$1,339,967,669	7.45	6.89	0.06	0.06	\$3,349,919,173
Uniform QL and UF	QL0HD	4-5 years	\$9,989,136,959	\$8,796,217,240	\$9,244,710,476	\$8,051,790,757	\$744,426,483	13.42	11.82	0.12	0.11	\$3,349,919,174
Uniform QL and UF	QL0HD	6-10 years	\$9,989,136,959	\$7,233,625,057	\$9,570,397,062	\$6,814,885,160	\$418,739,897	23.86	17.27	0.23	0.16	\$3,349,919,176
Uniform QL and UF	QL0HD	>10 years	\$9,989,136,959	\$6,187,168,029	\$9,765,809,014	\$5,963,840,084	\$223,327,945	44.73	27.70	0.44	0.27	\$3,349,919,175
Uniform QL and UF	QL0	Annual	\$9,989,136,959	\$9,625,204,510	\$7,310,758,057	\$6,946,825,608	\$2,678,378,901	3.73	3.59	0.03	0.03	\$2,678,378,901
Uniform QL and UF	QL0	2-3 years	\$9,989,136,959	\$9,006,846,438	\$8,917,785,398	\$7,935,494,878	\$1,071,351,561	9.32	8.41	0.08	0.07	\$2,678,378,900
Uniform QL and UF	QL0	4-5 years	\$9,989,136,959	\$8,571,536,744	\$9,393,941,647	\$7,976,341,433	\$595,195,311	16.78	14.40	0.16	0.13	\$2,678,378,900
Uniform QL and UF	QL0	6-10 years	\$9,989,136,959	\$7,008,944,561	\$9,654,339,596	\$6,674,147,199	\$334,797,363	29.84	20.93	0.29	0.20	\$2,678,378,896
Uniform QL and UF	QL0	>10 years	\$9,989,136,959	\$5,962,487,533	\$9,810,578,365	\$5,783,928,940	\$178,558,593	55.94	33.39	0.55	0.32	\$2,678,378,895
Uniform QL and UF	QL1HD	Annual	\$9,989,136,959	\$9,376,530,860	\$7,759,461,925	\$7,146,855,826	\$2,229,675,034	4.48	4.21	0.03	0.03	\$2,229,675,033
Uniform QL and UF	QL1HD	2-3 years	\$9,989,136,959	\$8,758,172,788	\$9,097,266,945	\$7,866,302,774	\$891,870,013	11.20	9.82	0.10	0.09	\$2,229,675,033
Uniform QL and UF	QL1HD	4-5 years	\$9,989,136,959	\$8,322,863,094	\$9,493,653,618	\$7,827,379,753	\$495,483,341	20.16	16.80	0.19	0.16	\$2,229,675,030
Uniform QL and UF	QL1HD	6-10 years	\$9,989,136,959	\$6,760,270,911	\$9,710,427,579	\$6,481,561,532	\$278,709,379	35.84	24.26	0.35	0.23	\$2,229,675,032
Uniform QL and UF	QL1HD	>10 years	\$9,989,136,959	\$5,713,813,883	\$9,840,491,956	\$5,565,168,880	\$148,645,002	67.20	38.44	0.66	0.37	\$2,229,675,030
Uniform QL and UF	QL1	Annual	\$9,989,136,959	\$8,949,542,397	\$8,204,561,378	\$7,164,966,816	\$1,784,575,581	5.60	5.01	0.05	0.04	\$1,784,575,581
Uniform QL and UF	QL1	2-3 years	\$9,989,136,959	\$8,331,184,326	\$9,275,306,726	\$7,617,354,093	\$713,830,233	13.99	11.67	0.13	0.11	\$1,784,575,580
Uniform QL and UF	QL1	4-5 years	\$9,989,136,959	\$7,895,874,632	\$9,592,564,607	\$7,499,302,281	\$396,572,351	25.19	19.91	0.24	0.19	\$1,784,575,580

Requirements	Quality Level	Update Frequency	Total Reported Future Annual Benefits	Total Reduced Value Future Annual Benefits	Net Total Future Annual Benefits	Net Reduced Value Future Annual Benefits	Acquisition Costs Per Year	Benefit/Cost Ratio Full	Benefit/Cost Ratio Reduced Value	Return on Investment Full	Return on Investment Reduced Value	Total Cost Once Over
Uniform QL and UF	QL1	6-10 years	\$9,989,136,959	\$6,333,282,449	\$9,766,065,011	\$6,110,210,501	\$223,071,948	44.78	28.39	0.44	0.27	\$1,784,575,576
Uniform QL and UF	QL1	>10 years	\$9,989,136,959	\$5,286,825,420	\$9,870,165,253	\$5,167,853,715	\$118,971,705	83.96	44.44	0.83	0.43	\$1,784,575,575
Uniform QL and UF	QL2	Annual	\$9,989,136,959	\$7,936,429,722	\$9,032,705,746	\$6,979,998,509	\$956,431,213	10.44	8.30	0.09	0.07	\$956,431,213
Uniform QL and UF	QL2	2-3 years	\$9,989,136,959	\$7,318,071,650	\$9,606,564,474	\$6,935,499,165	\$382,572,485	26.11	19.13	0.25	0.18	\$956,431,213
Uniform QL and UF	QL2	4-5 years	\$9,989,136,959	\$6,882,761,956	\$9,776,596,689	\$6,670,221,687	\$212,540,270	47.00	32.38	0.46	0.31	\$956,431,211
Uniform QL and UF	QL2	6-10 years	\$9,989,136,959	\$5,320,169,773	\$9,869,583,057	\$5,200,615,872	\$119,553,902	83.55	44.50	0.83	0.44	\$956,431,208
Uniform QL and UF	QL2	>10 years	\$9,989,136,959	\$4,273,712,745	\$9,925,374,878	\$4,209,950,664	\$63,762,081	156.66	67.03	1.56	0.66	\$956,431,200
3DEP Status Quo	QL5 AK, QL2 elsewhere	6-10 years	\$9,975,584,390	\$4,543,046,465	\$9,883,044,696	\$4,450,506,771	\$92,539,693	107.80	49.09	1.07	0.48	\$740,317,544
3DEP NextGen	QL2 AK, QL1 elsewhere	4-5 years	\$9,989,136,959	\$7,862,334,502	\$9,639,779,628	\$7,512,977,171	\$349,357,331	28.59	22.51	0.28	0.22	\$1,572,107,990
Mixed QLS	Coastal QL1, based on the raster elsewhere	4-5 years	\$9,989,136,959	\$7,441,119,272	\$9,776,178,044	\$7,228,160,357	\$212,958,915	46.91	34.94	0.46	0.34	
Mixed update frequencies	QL2	Coastal 2 years, based on the raster elsewhere	\$9,989,136,959	\$5,812,430,121	\$9,830,521,654	\$5,653,814,817	\$158,615,305	62.98	36.64	0.62	0.36	
Mixed update frequencies	QL2	Urban/coastal 2-3 years, 4-5 years elsewhere	\$9,989,136,959	\$7,328,465,585	\$9,711,759,753	\$7,051,088,379	\$277,377,206	36.01	26.42	0.35	0.25	
Mixed update frequencies	QL1	Coastal 2 years, based on the raster elsewhere	\$9,989,136,959	\$6,318,986,459	\$9,693,623,318	\$6,023,472,818	\$295,513,641	33.80	21.38	0.33	0.20	
Mixed QLS & update frequencies	Urban, forested, coastal QL1; QL2 elsewhere	Urban/coastal 2-3 years, 4-5 years elsewhere	\$9,989,136,959	\$7,691,914,300	\$9,539,593,192	\$7,242,370,534	\$449,543,767	22.22	17.11	0.21	0.16	

## Inland Bathymetry Analysis Results

Requirements	Quality Level	Update Frequency	Total Reported Future Annual Benefits	Total Reduced Value Future Annual Benefits	Net Total Future Annual Benefits	Net Reduced Value Future Annual Benefits	Acquisition Costs Per Year	Benefit/Cost Ratio Full	Benefit/Cost Ratio Reduced Value	Return on Investment Full	Return on Investment Reduced Value
All sonar areas	QL0B	Annual	\$804,671,632	\$793,564,592	-\$2,673,120,890	-\$2,684,227,930	\$3,477,792,522	0.23	0.23	-0.01	-0.01
All sonar areas	QL0B	2-3 years	\$804,671,632	\$792,857,541	-\$586,445,377	-\$598,259,468	\$1,391,117,009	0.58	0.57	0	0
All sonar areas	QL0B	4-5 years	\$804,671,632	\$743,569,600	\$31,828,849	-\$29,273,183	\$772,842,783	1.04	0.96	0	0
All sonar areas	QL0B	6-10 years	\$804,671,632	\$643,882,019	\$369,947,566	\$209,157,954	\$434,724,065	1.85	1.48	0.01	0
All sonar areas	QL0B	>10 years	\$804,671,632	\$530,702,160	\$572,818,797	\$298,849,325	\$231,852,835	3.47	2.29	0.02	0.01
All lidar areas	QL2B	Annual	\$57,832,847	\$57,118,209	\$31,339,356	\$30,624,719	\$26,493,491	2.18	2.16	0.01	0.01
All lidar areas	QL2B	2-3 years	\$57,832,847	\$56,924,500	\$47,235,451	\$46,327,103	\$10,597,396	5.46	5.37	0.04	0.04
All lidar areas	QL2B	4-5 years	\$57,832,847	\$51,356,063	\$51,945,405	\$45,468,621	\$5,887,442	9.82	8.72	0.09	0.08
All lidar areas	QL2B	6-10 years	\$57,832,847	\$44,336,231	\$54,521,161	\$41,024,544	\$3,311,686	17.46	13.39	0.16	0.12
All lidar areas	QL2B	>10 years	\$57,832,847	\$36,978,269	\$56,066,614	\$35,212,036	\$1,766,233	32.74	20.94	0.32	0.2
Combined - all sonar and lidar areas	QL0B + QL2B	Annual	\$862,504,479	\$850,682,801	-\$2,641,781,534	-\$2,653,603,212	\$3,504,286,012	0.25	0.24	-0.01	-0.01
Combined - all sonar and lidar areas	QL0B + QL2B	2-3 years	\$862,504,479	\$849,782,041	-\$539,209,926	-\$551,932,364	\$1,401,714,405	0.62	0.61	0	0
Combined - all sonar and lidar areas	QL0B + QL2B	4-5 years	\$862,504,479	\$794,925,663	\$83,774,254	\$16,195,438	\$778,730,225	1.11	1.02	0	0
Combined - all sonar and lidar areas	QL0B + QL2B	6-10 years	\$862,504,479	\$688,218,250	\$424,468,727	\$250,182,499	\$438,035,752	1.97	1.57	0.01	0.01
Combined - all sonar and lidar areas	QL0B + QL2B	>10 years	\$862,504,479	\$567,680,429	\$628,885,411	\$334,061,361	\$233,619,067	3.69	2.43	0.03	0.01
Only large lakes 50+ sq mi	QL0B	Annual	\$149,667,011	\$147,474,311	\$66,641,447	\$64,448,747	\$83,025,563	1.80	1.78	0.0080	0.0078
Only large lakes 50+ sq mi	QL0B	2-3 years	\$149,667,011	\$147,412,256	\$116,456,785	\$114,202,031	\$33,210,225	4.51	4.44	0.0351	0.0344
Only large lakes 50+ sq mi	QL0B	4-5 years	\$149,667,011	\$140,152,940	\$131,216,885	\$121,702,815	\$18,450,125	8.11	7.60	0.0711	0.0660
Only large lakes 50+ sq mi	QL0B	6-10 years	\$149,667,011	\$122,231,915	\$139,288,815	\$111,853,719	\$10,378,195	14.42	11.78	0.1342	0.1078
Only large lakes 50+ sq mi	QL0B	>10 years	\$149,667,011	\$100,366,769	\$144,131,973	\$94,831,732	\$5,535,038	27.04	18.13	0.2604	0.1713
Large plus medium lakes 10-50+ sq mi	QL0B	Annual	\$254,889,425	\$251,315,814	-\$167,640,756	-\$171,214,366	\$422,530,181	0.60	0.59	-0.0040	-0.0041
Large plus medium lakes 10-50+ sq mi	QL0B	2-3 years	\$254,889,425	\$251,138,622	\$85,877,353	\$82,126,550	\$169,012,072	1.51	1.49	0.0051	0.0049
Large plus medium lakes 10-50+ sq mi	QL0B	4-5 years	\$254,889,425	\$236,890,303	\$160,993,829	\$142,994,707	\$93,895,596	2.71	2.52	0.0171	0.0152
Large plus medium lakes 10-50+ sq mi	QL0B	6-10 years	\$254,889,425	\$205,824,052	\$202,073,153	\$153,007,780	\$52,816,273	4.83	3.90	0.0383	0.0290
Large plus medium lakes 10-50+ sq mi	QL0B	>10 years	\$254,889,425	\$169,401,335	\$226,720,746	\$141,232,656	\$28,168,679	9.05	6.01	0.0805	0.0501
All lakes	QL0B	6-10 years	\$658,680,211	\$529,465,980	\$262,464,912	\$133,250,682	\$396,215,299	1.66	1.34	0.0066	0.0034
Sonar only in navigable channels (rivers)	QL0B	6-10 years	\$50,149,501	\$37,487,772	\$41,766,330	\$29,104,601	\$8,383,171	5.98	4.47	0.0498	0.0347
Sonar in non-navigable rivers	QL0B	6-10 years	\$95,841,920	\$76,928,267	\$65,716,324	\$46,802,671	\$30,125,596	3.18	2.55	0.0218	0.0155

**Nearshore Bathymetry Analysis Results**

Requirements	Quality Level	Update Frequency	Total Reported Future Annual Benefits	Total Reduced Value Future Annual Benefits	Net Total Future Annual Benefits	Net Reduced Value Future Annual Benefits	Acquisition Costs Per Year	Benefit/Cost Ratio Full	Benefit/Cost Ratio Reduced Value	Return on Investment Full	Return on Investment Reduced Value
Uniform QL and UF	QL2B	Annual	\$2,550,443,087	\$2,537,591,783	\$2,284,913,052	\$2,272,061,747	\$265,530,035	9.61	9.56	0.09	0.09
Uniform QL and UF	QL2B	2-3 years	\$2,550,443,087	\$2,025,781,752	\$2,444,231,073	\$1,919,569,738	\$106,212,014	24.01	19.07	0.23	0.18
Uniform QL and UF	QL2B	4-5 years	\$2,550,443,087	\$1,713,643,971	\$2,491,436,413	\$1,654,637,297	\$59,006,674	43.22	29.04	0.42	0.28
Uniform QL and UF	QL2B	6-10 years	\$2,550,443,087	\$1,515,653,656	\$2,517,251,833	\$1,482,462,402	\$33,191,254	76.84	45.66	0.76	0.45
Uniform QL and UF	QL2B	>10 years	\$2,550,443,087	\$1,392,624,929	\$2,532,741,085	\$1,374,922,926	\$17,702,002	144.08	78.67	1.43	0.78
Mixed update frequency	QL2B	Ports & harbors 5 years, elsewhere 10 years	\$2,550,443,087	\$1,059,863,307	\$2,523,344,274	\$1,032,764,493	\$27,098,813	94.12	39.11	0.93	0.38
IWG-OCM 2021 Federal priority areas - BOEM	QL2B	Annual	\$182,134,436	\$181,296,330	\$87,150,925	\$86,312,819	\$94,983,511	1.92	1.91	0.01	0.01
IWG-OCM 2021 Federal priority areas - BOEM	QL2B	2-3 years	\$182,134,436	\$177,429,336	\$144,141,032	\$139,435,932	\$37,993,404	4.79	4.67	0.04	0.04
IWG-OCM 2021 Federal priority areas - BOEM	QL2B	4-5 years	\$182,134,436	\$156,291,227	\$161,026,989	\$135,183,780	\$21,107,447	8.63	7.4	0.08	0.06
IWG-OCM 2021 Federal priority areas - BOEM	QL2B	6-10 years	\$182,134,436	\$132,646,530	\$170,261,497	\$120,773,591	\$11,872,939	15.34	11.17	0.14	0.1
IWG-OCM 2021 Federal priority areas - BOEM	QL2B	>10 years	\$182,134,436	\$112,921,007	\$175,802,202	\$106,588,773	\$6,332,234	28.76	17.83	0.28	0.17
IWG-OCM 2021 Federal priority areas - DOE	QL2B	Annual	\$81,417,015	\$81,011,778	\$80,586,987	\$80,181,750	\$830,028	98.09	97.6	0.97	0.97
IWG-OCM 2021 Federal priority areas - DOE	QL2B	2-3 years	\$81,417,015	\$61,145,766	\$81,085,004	\$60,813,755	\$332,011	245.22	184.17	2.44	1.83
IWG-OCM 2021 Federal priority areas - DOE	QL2B	4-5 years	\$81,417,015	\$51,005,063	\$81,232,565	\$50,820,613	\$184,451	441.4	276.52	4.4	2.76
IWG-OCM 2021 Federal priority areas - DOE	QL2B	6-10 years	\$81,417,015	\$45,758,079	\$81,313,262	\$45,654,325	\$103,754	784.72	441.03	7.84	4.4
IWG-OCM 2021 Federal priority areas - DOE	QL2B	>10 years	\$81,417,015	\$43,049,532	\$81,361,680	\$42,994,197	\$55,335	1,471.34	777.98	14.7	7.77
IWG-OCM 2021 Federal priority areas - EPA	QL2B	Annual	\$20,652,278	\$20,524,001	\$16,953,001	\$16,824,724	\$3,699,277	5.58	5.55	0.05	0.05
IWG-OCM 2021 Federal priority areas - EPA	QL2B	2-3 years	\$20,652,278	\$16,985,703	\$19,172,567	\$15,505,992	\$1,479,711	13.96	11.48	0.13	0.1
IWG-OCM 2021 Federal priority areas - EPA	QL2B	4-5 years	\$20,652,278	\$14,526,465	\$19,830,217	\$13,704,403	\$822,062	25.12	17.67	0.24	0.17
IWG-OCM 2021 Federal priority areas - EPA	QL2B	6-10 years	\$20,652,278	\$12,815,734	\$20,189,869	\$12,353,324	\$462,410	44.66	27.72	0.44	0.27

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IWG-OCM 2021 Federal priority areas - EPA	QL2B	>10 years	\$20,652,278	\$11,555,674	\$20,405,660	\$11,309,055	\$246,618	83.74	46.86	0.83	0.46
IWG-OCM 2021 Federal priority areas - NOAA	QL2B	Annual	\$2,548,880,212	\$2,536,035,730	\$2,284,407,333	\$2,271,562,851	\$264,472,879	9.64	9.59	0.09	0.09
IWG-OCM 2021 Federal priority areas - NOAA	QL2B	2-3 years	\$2,548,880,212	\$2,024,345,255	\$2,443,091,060	\$1,918,556,104	\$105,789,152	24.09	19.14	0.23	0.18
IWG-OCM 2021 Federal priority areas - NOAA	QL2B	4-5 years	\$2,548,880,212	\$1,712,367,064	\$2,490,108,461	\$1,653,595,313	\$58,771,751	43.37	29.14	0.42	0.28
IWG-OCM 2021 Federal priority areas - NOAA	QL2B	6-10 years	\$2,548,880,212	\$1,514,556,719	\$2,515,821,102	\$1,481,497,609	\$33,059,110	77.1	45.81	0.76	0.45
IWG-OCM 2021 Federal priority areas - NOAA	QL2B	>10 years	\$2,548,880,212	\$1,391,681,805	\$2,531,248,686	\$1,374,050,280	\$17,631,525	144.56	78.93	1.44	0.78
IWG-OCM 2021 Federal priority areas- NPS	QL2B	Annual	\$147,447,980	\$146,758,756	\$123,270,067	\$122,580,842	\$24,177,913	6.1	6.07	0.05	0.05
IWG-OCM 2021 Federal priority areas- NPS	QL2B	2-3 years	\$147,447,980	\$124,501,192	\$137,776,815	\$114,830,027	\$9,671,165	15.25	12.87	0.14	0.12
IWG-OCM 2021 Federal priority areas- NPS	QL2B	4-5 years	\$147,447,980	\$107,178,240	\$142,075,111	\$101,805,371	\$5,372,870	27.44	19.95	0.26	0.19
IWG-OCM 2021 Federal priority areas- NPS	QL2B	6-10 years	\$147,447,980	\$92,549,456	\$144,425,741	\$89,527,217	\$3,022,239	48.79	30.62	0.48	0.3
IWG-OCM 2021 Federal priority areas- NPS	QL2B	>10 years	\$147,447,980	\$83,113,107	\$145,836,120	\$81,501,246	\$1,611,861	91.48	51.56	0.9	0.51
IWG-OCM 2021 Federal priority areas - USCG	QL2B	Annual	\$49,011,295	\$48,751,181	\$28,264,946	\$28,004,832	\$20,746,349	2.36	2.35	0.01	0.01
IWG-OCM 2021 Federal priority areas - USCG	QL2B	2-3 years	\$49,011,295	\$47,767,004	\$40,712,755	\$39,468,464	\$8,298,539	5.91	5.76	0.05	0.05
IWG-OCM 2021 Federal priority areas - USCG	QL2B	4-5 years	\$49,011,295	\$42,251,187	\$44,400,995	\$37,640,887	\$4,610,300	10.63	9.16	0.1	0.08
IWG-OCM 2021 Federal priority areas - USCG	QL2B	6-10 years	\$49,011,295	\$35,612,674	\$46,418,001	\$33,019,380	\$2,593,294	18.9	13.73	0.18	0.13
IWG-OCM 2021 Federal priority areas - USCG	QL2B	>10 years	\$49,011,295	\$30,299,052	\$47,628,205	\$28,915,962	\$1,383,090	35.44	21.91	0.34	0.21
IWG-OCM 2021 Federal priority areas - USDA	QL2B	Annual	\$74,751,800	\$74,246,214	\$44,235,498	\$43,729,912	\$30,516,303	2.45	2.43	0.01	0.01
IWG-OCM 2021 Federal priority areas - USDA	QL2B	2-3 years	\$74,751,800	\$72,637,093	\$62,545,279	\$60,430,572	\$12,206,521	6.12	5.95	0.05	0.05
IWG-OCM 2021 Federal priority areas - USDA	QL2B	4-5 years	\$74,751,800	\$64,704,422	\$67,970,400	\$57,923,021	\$6,781,401	11.02	9.54	0.1	0.09
IWG-OCM 2021 Federal priority areas - USDA	QL2B	6-10 years	\$74,751,800	\$54,832,606	\$70,937,263	\$51,018,068	\$3,814,538	19.6	14.37	0.19	0.13

Requirements	Quality Level	Update Frequency	Total Reported Future Annual Benefits	Total Reduced Value Future Annual Benefits	Net Total Future Annual Benefits	Net Reduced Value Future Annual Benefits	Acquisition Costs Per Year	Benefit/Cost Ratio Full	Benefit/Cost Ratio Reduced Value	Return on Investment Full	Return on Investment Reduced Value
IWG-OCM 2021 Federal priority areas - USDA	QL2B	>10 years	\$74,751,800	\$46,314,061	\$72,717,380	\$44,279,641	\$2,034,420	36.74	22.77	0.36	0.22
IWG-OCM 2021 Federal priority areas - USGS	QL2B	Annual	\$2,510,287,689	\$2,497,618,489	\$2,265,783,251	\$2,253,114,051	\$244,504,437	10.27	10.22	0.09	0.09
IWG-OCM 2021 Federal priority areas - USGS	QL2B	2-3 years	\$2,510,287,689	\$1,986,780,713	\$2,412,485,914	\$1,888,978,938	\$97,801,775	25.67	20.31	0.25	0.19
IWG-OCM 2021 Federal priority areas - USGS	QL2B	4-5 years	\$2,510,287,689	\$1,679,233,232	\$2,455,953,369	\$1,624,898,913	\$54,334,319	46.2	30.91	0.45	0.3
IWG-OCM 2021 Federal priority areas - USGS	QL2B	6-10 years	\$2,510,287,689	\$1,486,498,553	\$2,479,724,634	\$1,455,935,498	\$30,563,055	82.13	48.64	0.81	0.48
IWG-OCM 2021 Federal priority areas - USGS	QL2B	>10 years	\$2,510,287,689	\$1,367,920,884	\$2,493,987,393	\$1,351,620,588	\$16,300,296	154	83.92	1.53	0.83
Satellite Derived Bathymetry 2m GSD	QL3B	Once only (>10 years)	\$2,550,443,087	\$1,074,882,091	\$2,548,963,171	\$1,073,402,174	\$1,479,917	1,723.37	726.31	17.22	7.25
Satellite Derived Bathymetry 5m GSD	QL4B	Once only (>10 years)	\$2,550,443,087	\$812,020,818	\$2,549,904,936	\$811,482,666	\$538,152	4,739.27	1,508.91	47.38	15.08
Satellite Derived Bathymetry 10m GSD	QL4B	Once only (>10 years)	\$2,550,443,087	\$812,020,818	\$2,550,160,558	\$811,738,288	\$282,530	9,027.17	2,874.11	90.26	28.73
Uniform QL and UF, no Pacific Island Territories	QL2B	Annual	\$2,549,973,870	\$2,537,124,503	\$2,285,172,387	\$2,272,323,020	\$264,801,483	9.63	9.58	0.09	0.09
Uniform QL and UF, no Pacific Island Territories	QL2B	2-3 years	\$2,549,973,870	\$2,025,336,605	\$2,444,053,277	\$1,919,416,011	\$105,920,593	24.07	19.12	0.23	0.18
Uniform QL and UF, no Pacific Island Territories	QL2B	4-5 years	\$2,549,973,870	\$1,713,239,852	\$2,491,129,096	\$1,654,395,078	\$58,844,774	43.33	29.11	0.42	0.28
Uniform QL and UF, no Pacific Island Territories	QL2B	6-10 years	\$2,549,973,870	\$1,515,298,737	\$2,516,873,684	\$1,482,198,551	\$33,100,185	77.04	45.78	0.76	0.45
Uniform QL and UF, no Pacific Island Territories	QL2B	>10 years	\$2,549,973,870	\$1,392,330,435	\$2,532,320,438	\$1,374,677,002	\$17,653,432	144.45	78.87	1.43	0.78

## Offshore Bathymetry Analysis Results

Requirements	Quality Level	Update Frequency	Total Reported Future Annual Benefits	Total Reduced Value Future Annual Benefits	Net Total Future Annual Benefits	Net Reduced Value Future Annual Benefits	Acquisition Costs Per Year	Benefit/Cost Ratio Full	Benefit/Cost Ratio Reduced Value	Return on Investment Full	Return on Investment Reduced Value
Uniform QL and UF	Order 1a	Annual	\$163,838,863	\$159,905,054	-\$6,871,901,695	-\$6,875,835,504	\$7,035,740,559	0.02	0.02	-0.0098	-0.0098
Uniform QL and UF	Order 1a	2-3 years	\$163,838,863	\$154,911,149	-\$2,650,457,360	-\$2,659,385,073	\$2,814,296,223	0.06	0.06	-0.0094	-0.0094
Uniform QL and UF	Order 1a	4-5 years	\$163,838,863	\$141,691,388	-\$1,399,659,038	-\$1,421,806,513	\$1,563,497,901	0.10	0.09	-0.0090	-0.0091
Uniform QL and UF	Order 1a	6-10 years	\$163,838,863	\$120,295,801	-\$715,628,706	-\$759,171,767	\$879,467,569	0.19	0.14	-0.0081	-0.0086
Uniform QL and UF = Full Bottom Coverage	Order 1a	>10 years	\$163,838,863	\$103,925,435	-\$305,210,507	-\$365,123,935	\$469,049,370	0.35	0.22	-0.0065	-0.0078
0-40m depth only	Order 1a	>10 years	\$54,623,881	\$33,952,911	-\$245,581,415	-\$266,252,384	\$300,205,295.22	0.18	0.11	-0.0082	-0.0089
40-200m depth only	Order 1a	6-10 years	\$57,133,420	\$36,160,725	-\$82,518,504	-\$103,491,199	\$139,651,923.94	0.41	0.26	-0.0059	-0.0074
HHM: Navigationally significant areas	Order 1a	4-5 years	\$57,822,031	\$54,858,500	-\$320,799,572	-\$323,763,103	\$378,621,603	0.15	0.14	-0.0085	-0.0086
HHM: Desired Survey Score = 100 (Object Detection)	Order 1a	2-3 years	\$573,406	\$562,175	-\$14,561,316	-\$14,572,547	\$15,134,722	0.04	0.04	-0.0096	-0.0096
HHM: Desired Survey Score = 80 (Complete Coverage)	Order 1a	4-5 years	\$17,950,516	\$15,559,436	-\$223,763,685	-\$226,154,764	\$241,714,201	0.07	0.06	-0.0093	-0.0094
HHM: Desired Survey Score = 30 (Partial Bottom Coverage)	Order 1a	6-10 years	\$61,312,527	\$45,303,413	-\$389,576,970	-\$405,586,084	\$450,889,497	0.14	0.10	-0.0086	-0.0090
HHM: Desired Survey Score = 10 (Lesser)	Order 1a	>10 years	\$82,353,616	\$52,701,595	-\$64,922,352	-\$94,574,374	\$147,275,969	0.56	0.36	-0.0044	-0.0064
HHM: Hydro Gap = 0 (No gap)	Order 1a	6-10 years	\$92,025,752	\$67,789,093	-\$346,054,600	-\$370,291,259	\$438,080,352	0.21	0.15	-0.0079	-0.0085
HHM: Hydro Gap = 0.1-25 (Small gap)	Order 1a	6-10 years	\$50,104,445	\$36,754,270	-\$135,748,129	-\$149,098,304	\$185,852,574	0.27	0.20	-0.0073	-0.0080
HHM: Hydro Gap = 25.1-50 (Medium gap)	Order 1a	6-10 years	\$14,847,594	\$10,867,406	-\$177,441,264	-\$181,421,452	\$192,288,858	0.08	0.06	-0.0092	-0.0094

Requirements	Quality Level	Update Frequency	Total Reported Future Annual Benefits	Total Reduced Value Future Annual Benefits	Net Total Future Annual Benefits	Net Reduced Value Future Annual Benefits	Acquisition Costs Per Year	Benefit/Cost Ratio Full	Benefit/Cost Ratio Reduced Value	Return on Investment Full	Return on Investment Reduced Value
HHM: Hydro Gap = 50.1-75 (Medium large gap)	Order 1a	6-10 years	\$2,060,228	\$1,490,461	-\$20,518,308	-\$21,088,075	\$22,578,536	0.09	0.07	-0.0091	-0.0093
HHM: Hydro Gap = >75 (Large gap)	Order 1a	6-10 years	\$3,265,692	\$2,384,736	-\$27,015,013	-\$27,895,969	\$30,280,705	0.11	0.08	-0.0089	-0.0092
Fill bathy gap analysis gaps	Order 1a	6-10 years	\$90,126,646	\$66,749,420	-\$97,834,801	-\$121,212,027	\$187,961,447	0.48	0.36	-0.0052	-0.0064
10-20m depth	Order 1a	Annual	\$37,279,379	\$36,636,023	-\$2,704,683,545	-\$2,705,326,901	\$2,741,962,924	0.01	0.01	-0.0099	-0.0099
10-20m depth	Order 1a	2-3 years	\$37,279,379	\$36,505,324	-\$1,059,505,790	-\$1,060,279,845	\$1,096,785,169	0.03	0.03	-0.0097	-0.0097
10-20m depth	Order 1a	4-5 years	\$37,279,379	\$31,865,927	-\$572,045,715	-\$577,459,166	\$609,325,094	0.06	0.05	-0.0094	-0.0095
10-20m depth	Order 1a	6-10 years	\$37,279,379	\$27,099,482	-\$305,465,986	-\$315,645,883	\$342,745,365	0.11	0.08	-0.0089	-0.0092
10-20m depth	Order 1a	>10 years	\$37,279,379	\$23,093,114	-\$145,518,149	-\$159,704,413	\$182,797,528	0.20	0.13	-0.0080	-0.0087
20-40m depth	Order 1a	Annual	\$17,344,501	\$16,960,221	-\$1,743,772,002	-\$1,744,156,281	\$1,761,116,503	0.01	0.01	-0.0099	-0.0099
20-40m depth	Order 1a	2-3 years	\$17,344,501	\$16,773,991	-\$687,102,100	-\$687,672,610	\$704,446,601	0.02	0.02	-0.0098	-0.0098
20-40m depth	Order 1a	4-5 years	\$17,344,501	\$15,228,671	-\$374,014,721	-\$376,130,551	\$391,359,223	0.04	0.04	-0.0096	-0.0096
20-40m depth	Order 1a	6-10 years	\$17,344,501	\$12,682,468	-\$202,795,061	-\$207,457,094	\$220,139,562	0.08	0.06	-0.0092	-0.0094
20-40m depth	Order 1a	>10 years	\$17,344,501	\$10,859,796	-\$100,063,265	-\$106,547,970	\$117,407,766	0.15	0.09	-0.0085	-0.0091
40-100m depth	Order 1a	Annual	\$36,060,268	\$35,593,525	-\$1,670,413,010	-\$1,670,879,752	\$1,706,473,278	0.02	0.02	-0.0098	-0.0098
40-100m depth	Order 1a	2-3 years	\$36,060,268	\$35,227,971	-\$646,529,042	-\$647,361,339	\$682,589,311	0.05	0.05	-0.0095	-0.0095
40-100m depth	Order 1a	4-5 years	\$36,060,268	\$33,025,391	-\$343,156,015	-\$346,190,892	\$379,216,284	0.10	0.09	-0.0090	-0.0091
40-100m depth	Order 1a	6-10 years	\$36,060,268	\$26,714,399	-\$177,248,891	-\$186,594,760	\$213,309,159	0.17	0.13	-0.0083	-0.0087
40-100m depth	Order 1a	>10 years	\$36,060,268	\$22,756,576	-\$77,704,616	-\$91,008,309	\$113,764,885	0.32	0.20	-0.0068	-0.0080
100-500m depth	Order 1a	Annual	\$28,332,979	\$27,899,456	-\$462,062,962	-\$462,496,484	\$490,395,941	0.06	0.06	-0.0094	-0.0094
100-500m depth	Order 1a	2-3 years	\$28,332,979	\$27,604,418	-\$167,825,397	-\$168,553,958	\$196,158,376	0.14	0.14	-0.0086	-0.0086
100-500m depth	Order 1a	4-5 years	\$28,332,979	\$25,778,207	-\$80,643,896	-\$83,198,668	\$108,976,875	0.26	0.24	-0.0074	-0.0076
100-500m depth	Order 1a	6-10 years	\$28,332,979	\$20,928,314	-\$32,966,513	-\$40,371,177	\$61,299,492	0.46	0.34	-0.0054	-0.0066
100-500m depth	Order 1a	>10 years	\$28,332,979	\$17,932,453	-\$4,360,083	-\$14,760,609	\$32,693,062	0.87	0.55	-0.0013	-0.0045
>500m depth	Order 1a	Annual	\$44,821,735	\$42,815,827	-\$290,970,175	-\$292,976,083	\$335,791,910	0.13	0.13	-0.0087	-0.0087
>500m depth	Order 1a	2-3 years	\$44,821,735	\$38,799,444	-\$89,495,029	-\$95,517,320	\$134,316,764	0.33	0.29	-0.0067	-0.0071
>500m depth	Order 1a	4-5 years	\$44,821,735	\$35,793,189	-\$29,798,689	-\$38,827,234	\$74,620,424	0.60	0.48	-0.0040	-0.0052
>500m depth	Order 1a	6-10 years	\$44,821,735	\$32,871,137	\$2,847,746	-\$9,102,851	\$41,973,988	1.07	0.78	0.0007	-0.0022
>500m depth	Order 1a	>10 years	\$44,821,735	\$29,283,494	\$22,435,607	\$6,897,367	\$22,386,127	2.00	1.31	0.0100	0.0031



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IWG-OCM 2021 Federal priority areas - BOEM	Order 1a	Annual	\$69,017,736	\$67,894,333	-\$2,897,190,140	-\$2,898,313,543	\$2,966,207,875	0.02	0.02	-0.0098	-0.0098
IWG-OCM 2021 Federal priority areas - BOEM	Order 1a	2-3 years	\$69,017,736	\$66,051,430	-\$1,117,465,415	-\$1,120,431,720	\$1,186,483,150	0.06	0.06	-0.0094	-0.0094
IWG-OCM 2021 Federal priority areas - BOEM	Order 1a	4-5 years	\$69,017,736	\$61,265,811	-\$590,139,570	-\$597,891,495	\$659,157,306	0.10	0.09	-0.0090	-0.0091
IWG-OCM 2021 Federal priority areas - BOEM	Order 1a	6-10 years	\$69,017,736	\$50,529,107	-\$301,758,249	-\$320,246,877	\$370,775,984	0.19	0.14	-0.0081	-0.0086
IWG-OCM 2021 Federal priority areas - BOEM	Order 1a	>10 years	\$69,017,736	\$43,261,736	-\$128,729,456	-\$154,485,456	\$197,747,192	0.35	0.22	-0.0065	-0.0078
IWG-OCM 2021 Federal priority areas - DOE	Order 1a	Annual	\$758,148	\$742,385	-\$7,074,667	-\$7,090,430	\$7,832,816	0.10	0.09	-0.0090	-0.0091
IWG-OCM 2021 Federal priority areas - DOE	Order 1a	2-3 years	\$758,148	\$741,223	-\$2,374,978.	-\$2,391,903	\$3,133,126	0.24	0.24	-0.0076	-0.0076
IWG-OCM 2021 Federal priority areas - DOE	Order 1a	4-5 years	\$758,148	\$685,227	-\$982,477	-\$1,055,398	\$1,740,626	0.44	0.39	-0.0056	-0.0061
IWG-OCM 2021 Federal priority areas - DOE	Order 1a	6-10 years	\$758,148	\$581,548	-\$220,954	-\$397,554	\$979,102	0.77	0.59	-0.0023	-0.0041
IWG-OCM 2021 Federal priority areas - DOE	Order 1a	>10 years	\$758,148	\$508,595	\$235,961	-\$13,592	\$522,188	1.45	0.97	-0.0045	-0.0003
IWG-OCM 2021 Federal priority areas - EPA	Order 1a	Annual	\$1,508,223	\$1,480,781	-\$53,565,985	-\$53,593,427	\$55,074,208	0.03	0.03	-0.0097	-0.0097
IWG-OCM 2021 Federal priority areas - EPA	Order 1a	2-3 years	\$1,508,223	\$1,475,908	-\$20,521,460	-\$20,553,775	\$22,029,683	0.07	0.07	-0.0093	-0.0093
IWG-OCM 2021 Federal priority areas - EPA	Order 1a	4-5 years	\$1,508,223	\$1,360,655	-\$10,730,490	-\$10,878,057	\$12,238,713	0.12	0.11	-0.0088	-0.0089
IWG-OCM 2021 Federal priority areas - EPA	Order 1a	6-10 years	\$1,508,223	\$1,127,149	-\$5,376,053	-\$5,757,127	\$6,884,276	0.22	0.16	-0.0078	-0.0084

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IWG-OCM 2021 Federal priority areas - EPA	Order 1a	>10 years	\$1,508,223	\$941,048	-\$2,163,391	-\$2,730,566	\$3,671,614	0.41	0.26	-0.0059	-0.0074
IWG-OCM 2021 Federal priority areas - NOAA	Order 1a	Annual	\$132,555,487	\$129,890,166	-\$6,145,942,086	-\$6,148,607,406	\$6,278,497,573	0.02	0.02	-0.0098	-0.0098
IWG-OCM 2021 Federal priority areas - NOAA	Order 1a	2-3 years	\$132,555,487	\$126,927,794	-\$2,378,843,543	-\$2,384,471,235	\$2,511,399,029	0.05	0.05	-0.0095	-0.0095
IWG-OCM 2021 Federal priority areas - NOAA	Order 1a	4-5 years	\$132,555,487	\$116,405,824	-\$1,262,666,196	-\$1,278,815,859	\$1,395,221,683	0.10	0.08	-0.0090	-0.0092
IWG-OCM 2021 Federal priority areas - NOAA	Order 1a	6-10 years	\$132,555,487	\$97,505,915	-\$652,256,710	-\$687,306,282	\$784,812,197	0.17	0.12	-0.0083	-0.0088
IWG-OCM 2021 Federal priority areas - NOAA	Order 1a	>10 years	\$132,555,487	\$83,800,657	-\$286,011,018	-\$334,765,848	\$418,566,505	0.32	0.20	-0.0068	-0.0080
IWG-OCM 2021 Federal priority areas- NPS	Order 1a	Annual	\$10,403,884	\$10,329,381	-\$145,879,179	-\$145,953,681	\$156,283,062	0.07	0.07	-0.0093	-0.0093
IWG-OCM 2021 Federal priority areas- NPS	Order 1a	2-3 years	\$10,403,884	\$10,316,450	-\$52,109,341	-\$52,196,775	\$62,513,225	0.17	0.17	-0.0083	-0.0083
IWG-OCM 2021 Federal priority areas- NPS	Order 1a	4-5 years	\$10,403,884	\$9,672,481	-\$24,325,686	-\$25,057,089	\$34,729,569	0.30	0.28	-0.0070	-0.0072
IWG-OCM 2021 Federal priority areas- NPS	Order 1a	6-10 years	\$10,403,884	\$7,770,169	-\$9,131,499	-\$11,765,214	\$19,535,383	0.53	0.40	-0.0047	-0.0060
IWG-OCM 2021 Federal priority areas- NPS	Order 1a	>10 years	\$10,403,884	\$6,587,553	-\$14,987	-\$3,831,318	\$10,418,871	1.00	0.63	0.0000	-0.0037
IWG-OCM 2021 Federal priority areas - USCG	Order 1a	Annual	\$4,201,872	\$4,126,334	-\$209,190,737	-\$209,266,274	\$213,392,608	0.02	0.02	-0.0098	-0.0098
IWG-OCM 2021 Federal priority areas - USCG	Order 1a	2-3 years	\$4,201,872	\$4,077,915	-\$81,155,172	-\$81,279,129	\$85,357,043	0.05	0.05	-0.0095	-0.0095
IWG-OCM 2021 Federal priority areas - USCG	Order 1a	4-5 years	\$4,201,872	\$3,822,153	-\$43,218,708	-\$43,598,426	\$47,420,580	0.09	0.08	-0.0091	-0.0092

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IWG-OCM 2021 Federal priority areas - USCG	Order 1a	6-10 years	\$4,201,872	\$3,088,106	-\$22,472,204	-\$23,585,970	\$26,674,076	0.16	0.12	-0.0084	-0.0088
IWG-OCM 2021 Federal priority areas - USCG	Order 1a	>10 years	\$4,201,872	\$2,634,148	-\$10,024,302	-\$11,592,026	\$14,226,174	0.30	0.19	-0.0070	-0.0081
IWG-OCM 2021 Federal priority areas - USDA	Order 1a	Annual	\$1,904,214	\$1,866,656	-\$90,742,975	-\$90,780,533	\$92,647,189	0.02	0.02	-0.0098	-0.0098
IWG-OCM 2021 Federal priority areas - USDA	Order 1a	2-3 years	\$1,904,214	\$1,860,900	-\$35,154,661	-\$35,197,975	\$37,058,875	0.05	0.05	-0.0095	-0.0095
IWG-OCM 2021 Federal priority areas - USDA	Order 1a	4-5 years	\$1,904,214	\$1,648,635	-\$18,684,050	-\$18,939,629	\$20,588,264	0.09	0.08	-0.0091	-0.0092
IWG-OCM 2021 Federal priority areas - USDA	Order 1a	6-10 years	\$1,904,214	\$1,398,721	-\$9,676,685	-\$10,182,177	\$11,580,899	0.16	0.12	-0.0084	-0.0088
IWG-OCM 2021 Federal priority areas - USDA	Order 1a	>10 years	\$1,904,214	\$1,172,285	-\$4,272,265	-\$5,004,194	\$6,176,479	0.31	0.19	-0.0069	-0.0081
IWG-OCM 2021 Federal priority areas - USGS	Order 1a	Annual	\$105,245,283	\$103,714,487	-\$2,988,188,582	-\$2,989,719,377	\$3,093,433,865	0.03	0.03	-0.0097	-0.0097
IWG-OCM 2021 Federal priority areas - USGS	Order 1a	2-3 years	\$105,245,283	\$102,156,479	-\$1,132,128,263	-\$1,135,217,067	\$1,237,373,546	0.09	0.08	-0.0091	-0.0092
IWG-OCM 2021 Federal priority areas - USGS	Order 1a	4-5 years	\$105,245,283	\$94,252,836	-\$582,184,465	-\$593,176,912	\$687,429,748	0.15	0.14	-0.0085	-0.0086
IWG-OCM 2021 Federal priority areas - USGS	Order 1a	6-10 years	\$105,245,283	\$77,692,378	-\$281,433,950	-\$308,986,855	\$386,679,233	0.27	0.20	-0.0073	-0.0080
IWG-OCM 2021 Federal priority areas - USGS	Order 1a	>10 years	\$105,245,283	\$66,374,272	-\$100,983,641	-\$139,854,653	\$206,228,924	0.51	0.32	-0.0049	-0.0068
Status quo	Order 1a	100 years	\$163,838,864	\$103,925,435	\$93,481,458	\$33,568,029	\$70,357,406	2.33	1.48	0.0133	0.0048
Uniform QL and UF = Full Bottom Coverage	Order 1a	30 years	\$163,838,864	\$103,925,435	-\$70,685,822	-\$130,599,250	\$234,524,685	0.70	0.44	-0.0030	-0.0056

Requirements	Quality Level	Update Frequency	Total Reported Future Annual Benefits	Total Reduced Value Future Annual Benefits	Net Total Future Annual Benefits	Net Reduced Value Future Annual Benefits	Acquisition Costs Per Year	Benefit/Cost Ratio Full	Benefit/Cost Ratio Reduced Value	Return on Investment Full	Return on Investment Reduced Value
NOMEK Strategy 40m depth and greater	Order 1a	Once only by 2030 (6-10 years)	\$54,623,881	\$39,781,951	-\$508,261,048	-\$523,102,978	\$562,884,929	0.10	0.07	-0.0090	-0.0093
NOMEK Strategy 10-40m depth	Order 1a	Once only by 2040 (>10 years)	\$109,214,983	\$69,972,524	-\$31,488,413	-\$70,730,872	\$140,703,396	0.78	0.50	-0.0022	-0.0050
Uniform QL and UF, with Cost Avoidance	Order 1a	Annual	\$7,406,631,091	\$7,402,697,283	\$370,890,532	\$366,956,724	\$7,035,740,559	1.05	1.05	0.0005	0.0005
Uniform QL and UF, with Cost Avoidance	Order 1a	2-3 years	\$3,151,904,883	\$3,142,977,167	\$337,608,660	\$328,680,944	\$2,814,296,223	1.12	1.12	0.0012	0.0012
Uniform QL and UF, with Cost Avoidance	Order 1a	4-5 years	\$1,879,505,179	\$1,857,357,704	\$316,007,278	\$293,859,803	\$1,563,497,901	1.20	1.19	0.0020	0.0019
Uniform QL and UF, with Cost Avoidance	Order 1a	6-10 years	\$1,169,495,561	\$1,125,952,499	\$290,027,992	\$246,484,930	\$879,467,569	1.33	1.28	0.0033	0.0028
Uniform QL and UF, with Cost Avoidance	Order 1a	>10 years	\$739,956,777	\$680,043,348	\$270,907,407	\$210,993,978	\$469,049,370	1.58	1.45	0.0058	0.0045
Uniform QL and UF, no Pacific Island Territories	Order 1a	Annual	\$155,881,203	\$151,960,363	-\$6,749,609,020	-\$6,753,529,860	\$6,905,490,223	0.02	0.02	-0.01	-0.01
Uniform QL and UF, no Pacific Island Territories	Order 1a	2-3 years	\$155,881,203	\$147,778,446	-\$2,606,314,886	-\$2,614,417,643	\$2,762,196,089	0.06	0.05	-0.01	-0.01
Uniform QL and UF, no Pacific Island Territories	Order 1a	4-5 years	\$155,881,203	\$135,333,068	-\$1,378,672,179	-\$1,399,220,315	\$1,534,553,383	0.1	0.09	-0.01	-0.01
Uniform QL and UF, no Pacific Island Territories	Order 1a	6-10 years	\$155,881,203	\$114,559,500	-\$707,305,074	-\$748,626,778	\$863,186,278	0.18	0.13	-0.01	-0.01
Uniform QL and UF, no Pacific Island Territories	Order 1a	>10 years	\$155,881,203	\$98,911,588	-\$304,484,811	-\$361,454,427	\$460,366,015	0.34	0.21	-0.01	-0.01
Uniform QL and UF	Order 2 > 100m	Annual	\$73,154,714	\$64,636,971	-\$107,133,270	-\$115,651,014	\$180,287,984	0.41	0.36	-0.01	-0.01
Uniform QL and UF	Order 2 > 100m	2-3 years	\$73,154,714	\$60,325,549	\$1,039,520	-\$11,789,645	\$72,115,194	1.01	0.84	0	0

Requirements	Quality Level	Update Frequency	Total Reported Future Annual Benefits	Total Reduced Value Future Annual Benefits	Net Total Future Annual Benefits	Net Reduced Value Future Annual Benefits	Acquisition Costs Per Year	Benefit/Cost Ratio Full	Benefit/Cost Ratio Reduced Value	Return on Investment Full	Return on Investment Reduced Value
Uniform QL and UF	Order 2 > 100m	4-5 years	\$73,154,714	\$55,493,085	\$33,090,718	\$15,429,088	\$40,063,997	1.83	1.39	0.01	0
Uniform QL and UF	Order 2 > 100m	6-10 years	\$73,154,714	\$47,721,139	\$50,618,716	\$25,185,141	\$22,535,998	3.25	2.12	0.02	0.01
Uniform QL and UF	Order 2 > 100m	>10 years	\$73,154,714	\$41,137,634	\$61,135,515	\$29,118,435	\$12,019,199	6.09	3.42	0.05	0.02
Uniform QL and UF with UxS as Force Multiplier	Order 2 with UxS > 100m	Annual	\$73,154,714	\$64,636,971	\$28,082,718	\$19,564,975	\$45,071,996	1.62	1.43	0.01	0
Uniform QL and UF with UxS as Force Multiplier	Order 2 with UxS > 100m	2-3 years	\$73,154,714	\$60,325,549	\$55,125,916	\$42,296,751	\$18,028,798	4.06	3.35	0.03	0.02
Uniform QL and UF with UxS as Force Multiplier	Order 2 with UxS > 100m	4-5 years	\$73,154,714	\$55,493,085	\$63,138,715	\$45,477,085	\$10,015,999	7.3	5.54	0.06	0.05
Uniform QL and UF with UxS as Force Multiplier	Order 2 with UxS > 100m	6-10 years	\$73,154,714	\$47,721,139	\$67,520,715	\$42,087,139	\$5,634,000	12.98	8.47	0.12	0.07
Uniform QL and UF with UxS as Force Multiplier	Order 2 with UxS > 100m	>10 years	\$73,154,714	\$41,137,634	\$70,149,914	\$38,132,835	\$3,004,800	24.35	13.69	0.23	0.13
NOMECE Strategy 10-40m depth with Cost Avoidance	Order 1a	Once only by 2030 (6-10 years)	\$617,072,528	\$602,230,598	\$54,187,600	\$39,345,670	\$562,884,929	1.1	1.07	0	0
NOMECE Strategy 40m depth and greater with Cost Avoidance	Order 1a	Once only by 2040 (>10 years)	\$250,612,573	\$211,370,114	\$109,909,177	\$70,666,718	\$140,703,396	1.78	1.5	0.01	0.01