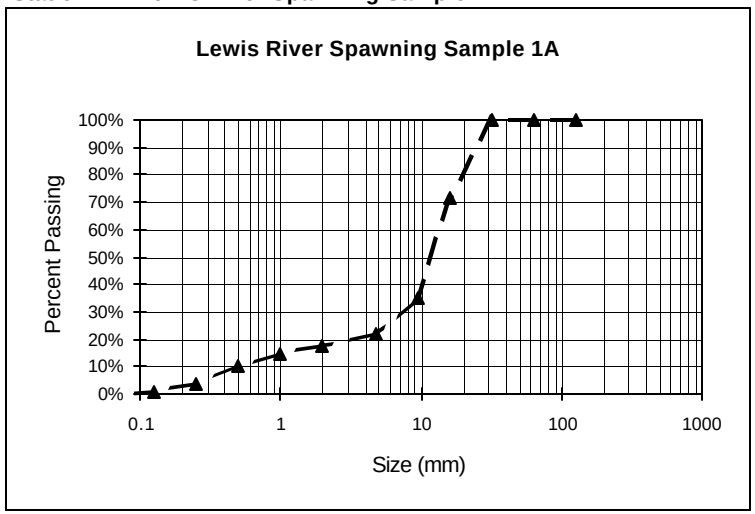
WTS 3 Appendix 3

Spawning Gravel Samples

Lewis River Spawning Samples

Station **Lewis River Spawning Sample 1A**

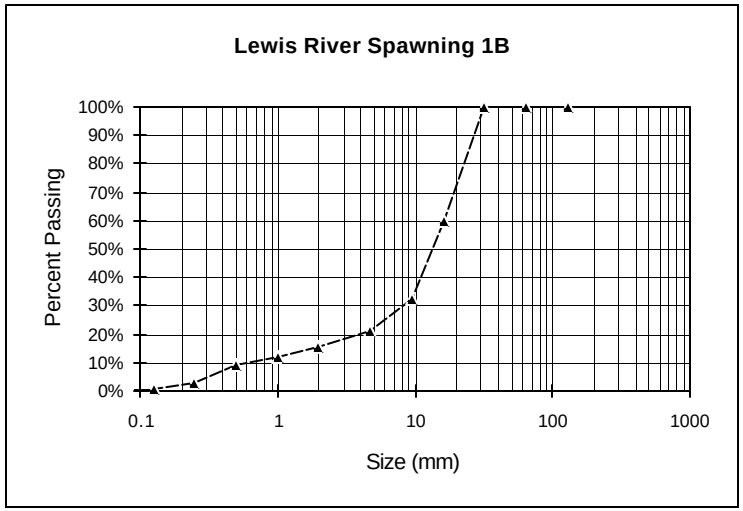


Sub-Armor Layer

Size (mm)	Weight (g)	Percent	Cum %	Avg size		
128	0	0%	100%	0	Grain Size Metrics	
64	0	0%	100%	0	D84	22.7
31.5	4,667	28%	100%	13.53226	D75	17.8
16	6,024	37%	72%	8.687758	D65	14.8
9.5	2,124	13%	35%	1.644462	D50	12.2
4.75	716	4%	22%	0.309783	D25	5.8
2	499	3%	18%	0.102267	D16	0.8
1	752	5%	15%	0.068496	Dg	24.4
0.5	1,137	7%	10%	0.051782	Sorting	3.1
0.25	451	3%	3%	0.01027	Fredle	7.9
0.125	82	0%	1%	0.000934	% finer than 2 mm	14.8%
0.063	11	0%	0%	6.28E-05	% finer than 1 mm	10.2%
0.003	5	0%	0%	1E-05		
	16,468			24.41	mm	
				0.0801	ft	

Lewis River Spawning Samples

Station **Lewis River Spawning 1B**

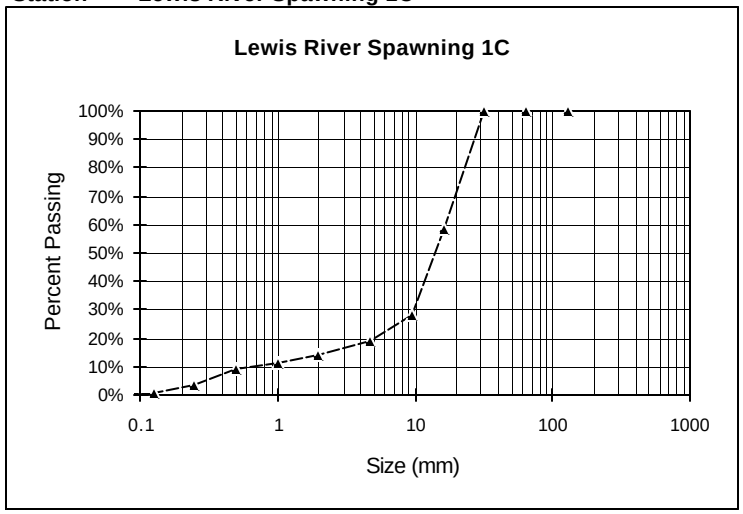


Sub-Armor Layer

Size (mm)	Weight (g)	Percent	Cum %	Avg size		
128	0	0%	100%	0	Grain Size Metrics	
64	0	0%	100%	0	D84	25.3
31.5	6,927	40%	100%	19.03898	D75	21.8
16	4,836	28%	60%	6.611121	D65	17.9
9.5	1,896	11%	32%	1.39147	D50	13.6
4.75	1,054	6%	21%	0.432266	D25	6.3
2	574	3%	15%	0.111509	D16	2.3
1	494	3%	12%	0.042652	Dg	27.7
0.5	1,045	6%	9%	0.045113	Sorting	3.4
0.25	451	3%	3%	0.009735	Fredle	8.0
0.125	81	0%	1%	0.000874	% finer than 2 mm	12.0%
0.063	11	0%	0%	5.95E-05	% finer than 1 mm	9.2%
0.003	4	0%	0%	7.6E-06		
pan	17,373			27.68	mm	
				0.0908	ft	

Lewis River Spawning Samples

Station **Lewis River Spawning 1C**

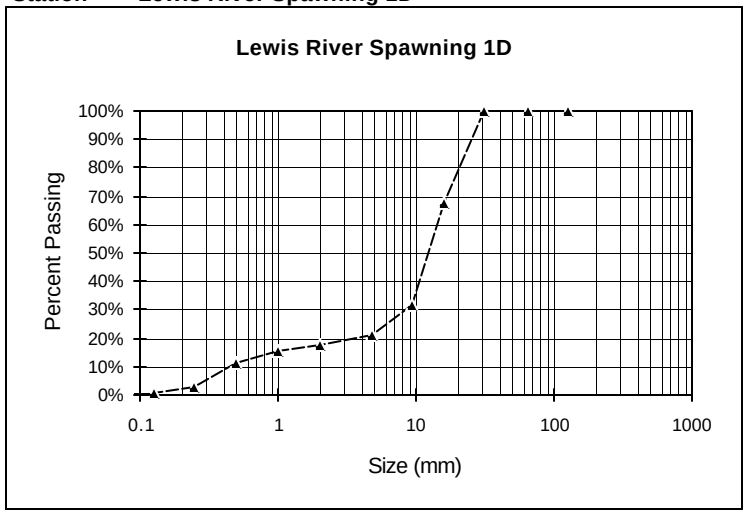


Sub-Armor Layer

Size (mm)	Weight (g)	Percent	Cum %	Avg size		
128	0	0%	100%	0	Grain Size Metrics	
64	0	0%	100%	0	D84	25.6
31.5	6,248	42%	100%	19.92666	D75	22.2
16	4,466	30%	58%	7.084391	D65	18.5
9.5	1,457	10%	28%	1.240766	D50	14.2
4.75	742	5%	19%	0.353109	D25	7.8
2	320	2%	14%	0.072135	D16	3.2
1	381	3%	12%	0.038171	Dg	28.8
0.5	834	6%	9%	0.041778	Sorting	2.8
0.25	424	3%	3%	0.01062	Fredle	10.1
0.125	85	1%	1%	0.001064	% finer than 2 mm	11.6%
0.063	11	0%	0%	6.91E-05	% finer than 1 mm	9.1%
0.003	4	0%	0%	8.82E-06		
pan	14,972			28.77	mm	
				0.0944	ft	

Lewis River Spawning Samples

Station **Lewis River Spawning 1D**

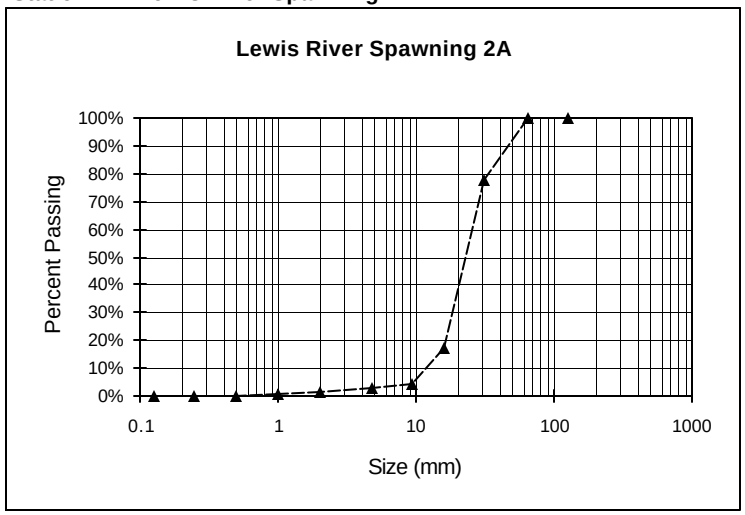


Sub-Armor Layer

Size (mm)	Weight (g)	Percent	Cum %	Avg size		
128	0	0%	100%	0	Grain Size Metrics	
64	0	0%	100%	0	D84	23.8
31.5	5,419	32%	100%	15.40589	D75	19.5
16	6,052	36%	68%	8.557692	D65	15.5
9.5	1,807	11%	32%	1.371711	D50	12.8
4.75	619	4%	21%	0.262585	D25	6.5
2	286	2%	17%	0.057469	D16	1.3
1	722	4%	16%	0.06448	Dg	25.8
0.5	1,388	8%	11%	0.061979	Sorting	3.0
0.25	437	3%	3%	0.009757	Fredle	8.7
0.125	61	0%	0%	0.000681	% finer than 2 mm	15.6%
0.063	5	0%	0%	2.8E-05	% finer than 1 mm	11.3%
0.003	0	0%	0%	0		
pan	16,796			25.79	mm	
				0.0846	ft	

Lewis River Spawning Samples

Station **Lewis River Spawning 2A**

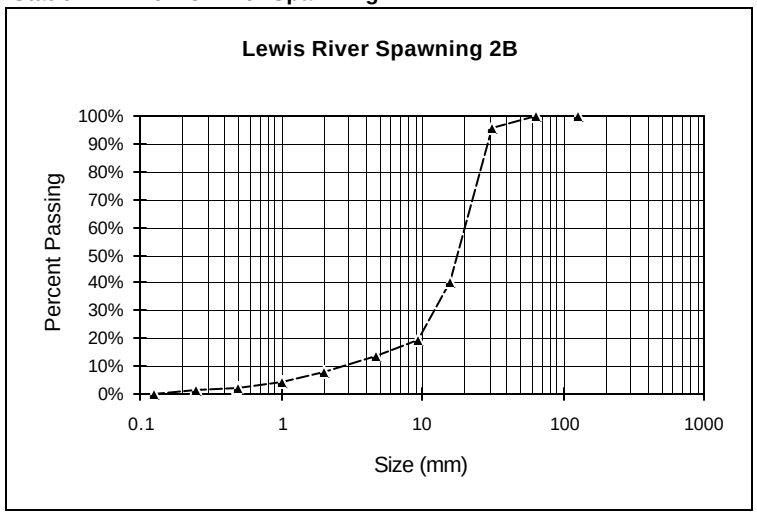


Sub-Armor Layer

Size (mm)	Weight (g)	Percent	Cum %	Avg size		
128	0	0%	100%	0	Grain Size Metrics	
64	3,424	22%	100%	21.46428	D84	40.7
31.5	9,257	60%	78%	28.8639	D75	30.8
16	1,975	13%	17%	3.062965	D65	28.3
9.5	245	2%	4%	0.20398	D50	24.4
4.75	181	1%	3%	0.084212	D25	18.0
2	127	1%	2%	0.027989	D16	15.4
1	63	0%	1%	0.006171	Dg	53.7
0.5	17	0%	0%	0.000833	Sorting	1.7
0.25	10	0%	0%	0.000245	Fredle	31.4
0.125	7	0%	0%	8.57E-05	% finer than 2 mm	0.7%
0.063	4	0%	0%	2.46E-05	% finer than 1 mm	0.3%
0.003	4	0%	0%	8.62E-06		
pan	15,314			53.71	mm	
				0.1762	ft	

Lewis River Spawning Samples

Station **Lewis River Spawning 2B**

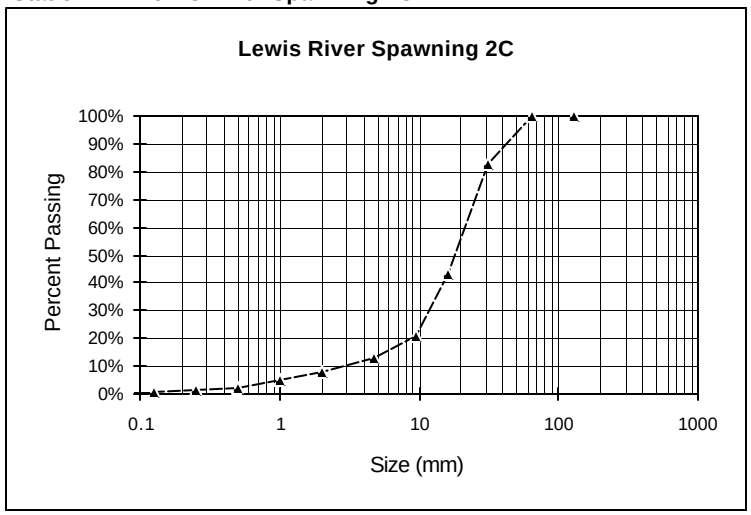


Sub-Armor Layer

Size (mm)	Weight (g)	Percent	Cum %	Avg size		
128	0	0%	100%	0	Grain Size Metrics	
64	749	5%	100%	4.459439	D84	28.3
31.5	8,897	55%	95%	26.34779	D75	25.8
16	3,324	21%	40%	4.896118	D65	23.0
9.5	941	6%	20%	0.744093	D50	18.8
4.75	885	5%	14%	0.391071	D25	11.2
2	642	4%	8%	0.13438	D16	6.6
1	378	2%	4%	0.035165	Dg	37.0
0.5	121	1%	2%	0.005628	Sorting	2.3
0.25	129	1%	1%	0.003	Fredle	16.1
0.125	40	0%	0%	0.000465	% finer than 2 mm	4.3%
0.063	11	0%	0%	6.41E-05	% finer than 1 mm	1.9%
0.003	7	0%	0%	1.43E-05		
pan	16,124			37.02	mm	
				0.1214	ft	

Lewis River Spawning Samples

Station **Lewis River Spawning 2C**

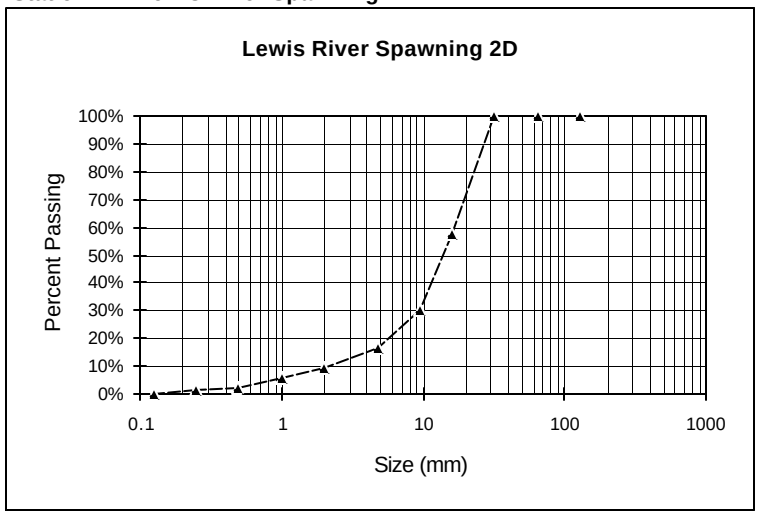


Sub-Armor Layer

Size (mm)	Weight (g)	Percent	Cum %	Avg size		
128	0	0%	100%	0	Grain Size Metrics	
64	2,575	17%	100%	16.60398	D84	33.9
31.5	5,933	40%	83%	19.0288	D75	28.5
16	3,244	22%	43%	5.174973	D65	24.6
9.5	1,208	8%	21%	1.034524	D50	18.8
4.75	733	5%	13%	0.350794	D25	10.7
2	467	3%	8%	0.105865	D16	6.5
1	358	2%	5%	0.036069	Dg	42.3
0.5	124	1%	2%	0.006247	Sorting	2.7
0.25	183	1%	2%	0.004609	Fredle	15.9
0.125	45	0%	0%	0.000567	% finer than 2 mm	4.9%
0.063	11	0%	0%	6.95E-05	% finer than 1 mm	2.5%
0.003	7	0%	0%	1.55E-05		
pan	14,888			42	mm	
				0.1389	ft	

Lewis River Spawning Samples

Station **Lewis River Spawning 2D**

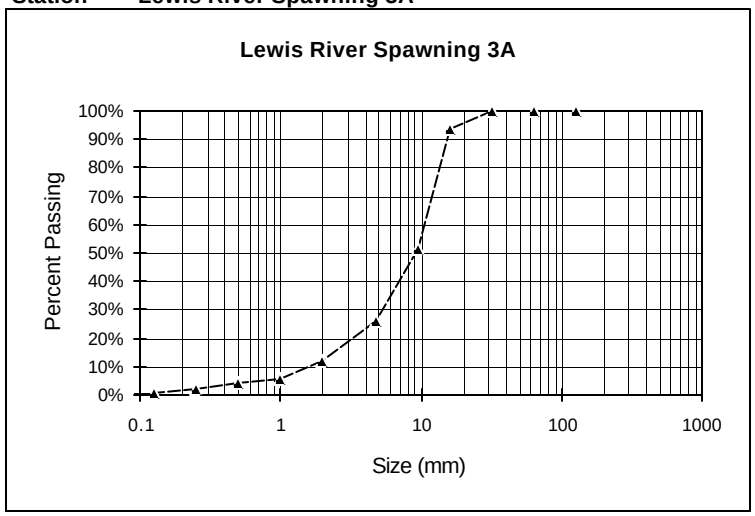


Sub-Armor Layer

Size (mm)	Weight (g)	Percent	Cum %	Avg size		
128	0	0%	100%	0	Grain Size Metrics	
64	0	0%	100%	0	D84	25.7
31.5	7,400	43%	100%	20.36599	D75	22.4
16	4,686	27%	57%	6.414553	D65	18.8
9.5	2,422	14%	30%	1.779856	D50	13.3
4.75	1,212	7%	16%	0.497723	D25	7.7
2	668	4%	9%	0.129942	D16	4.6
1	529	3%	6%	0.045735	Dg	29.2
0.5	184	1%	2%	0.007954	Sorting	2.9
0.25	196	1%	1%	0.004236	Fredle	10.0
0.125	37	0%	0%	0.0004	% finer than 2 mm	5.5%
0.063	10	0%	0%	5.42E-05	% finer than 1 mm	2.5%
0.003	6	0%	0%	1.14E-05		
pan	17,350			29.25	mm	
				0.0960	ft	

Lewis River Spawning Samples

Station **Lewis River Spawning 3A**

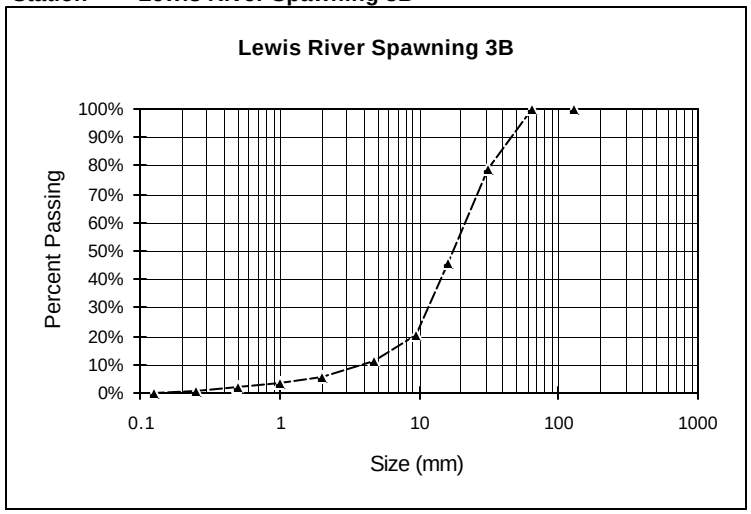


Sub-Armor Layer

Size (mm)	Weight (g)	Percent	Cum %	Avg size		
128	0	0%	100%	0	Grain Size Metrics	
64	0	0%	100%	0	D84	14.5
31.5	582	6%	100%	2.983734	D75	13.1
16	3,972	43%	94%	10.1283	D65	11.6
9.5	2,341	25%	51%	3.204611	D50	9.3
4.75	1,316	14%	26%	1.00671	D25	4.6
2	549	6%	12%	0.198934	D16	2.8
1	162	2%	6%	0.02609	Dg	17.6
0.5	176	2%	4%	0.014172	Sorting	2.9
0.25	174	2%	2%	0.007006	Fredle	6.1
0.125	38	0%	0%	0.000765	% finer than 2 mm	5.9%
0.063	3	0%	0%	3.03E-05	% finer than 1 mm	4.2%
0.003	1	0%	0%	3.54E-06		
pan	9,314			17.57	mm	
				0.0576	ft	

Lewis River Spawning Samples

Station **Lewis River Spawning 3B**

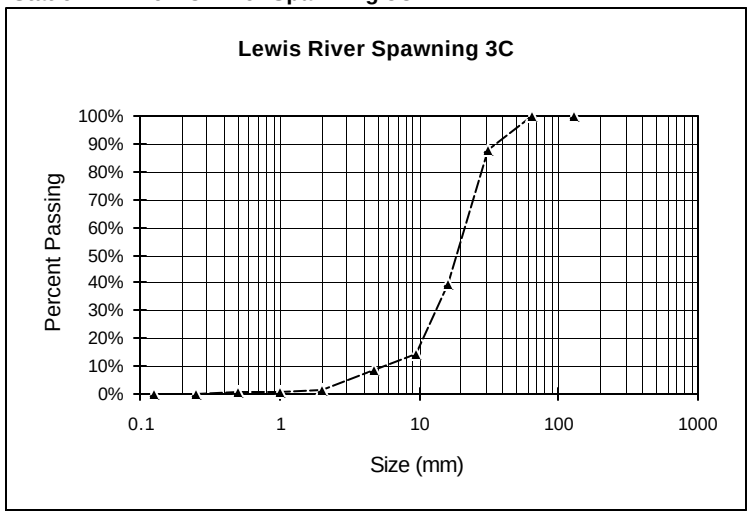


Sub-Armor Layer

Size (mm)	Weight (g)	Percent	Cum %	Avg size		
128	0	0%	100%	0	Grain Size Metrics	
64	3,295	21%	100%	20.04944	D84	39.1
31.5	5,282	33%	79%	15.98628	D75	29.6
16	4,033	26%	46%	6.0711	D65	25.0
9.5	1,349	9%	20%	1.090179	D50	18.0
4.75	914	6%	12%	0.412769	D25	10.8
2	389	2%	6%	0.083214	D16	7.2
1	205	1%	3%	0.01949	Dg	43.7
0.5	198	1%	2%	0.009412	Sorting	2.8
0.25	92	1%	1%	0.002187	Fredle	15.9
0.125	15	0%	0%	0.000178	% finer than 2 mm	3.3%
0.063	3	0%	0%	1.79E-05	% finer than 1 mm	2.0%
0.003	2	0%	0%	4.18E-06		
pan	15,777			43.72	mm	
				0.1435	ft	

Lewis River Spawning Samples

Station **Lewis River Spawning 3C**

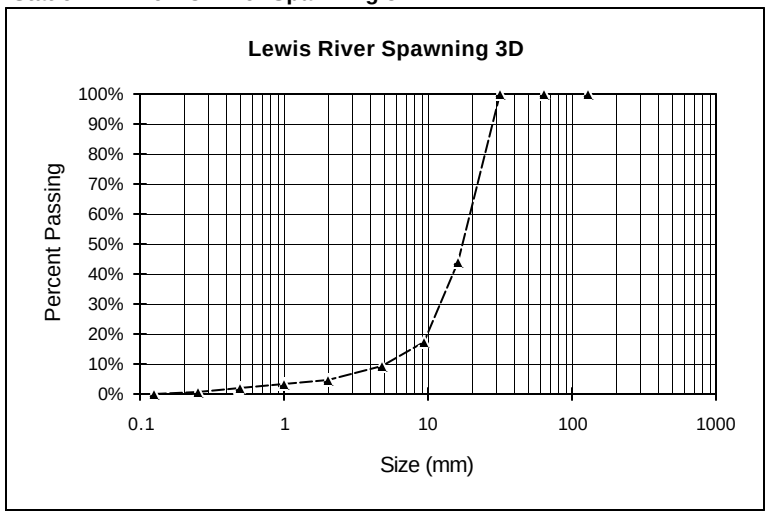


Sub-Armor Layer

Size (mm)	Weight (g)	Percent	Cum %	Avg size		
128	0	0%	100%	0	Grain Size Metrics	
64	1,885	12%	100%	11.64704	D84	30.3
31.5	7,462	48%	88%	22.93303	D75	27.3
16	3,914	25%	40%	5.982976	D65	24.1
9.5	880	6%	15%	0.722147	D50	19.3
4.75	1,210	8%	9%	0.554885	D25	12.2
2	82	1%	1%	0.017812	D16	9.8
1	32	0%	1%	0.003089	Dg	41.9
0.5	50	0%	0%	0.002414	Sorting	2.2
0.25	17	0%	0%	0.00041	Fredle	18.6
0.125	3	0%	0%	3.62E-05	% finer than 2 mm	0.7%
0.063	1	0%	0%	6.05E-06	% finer than 1 mm	0.5%
0.003	1	0%	0%	2.12E-06		
pan	15,537			41.86	mm	
				0.1373	ft	

Lewis River Spawning Samples

Station **Lewis River Spawning 3D**

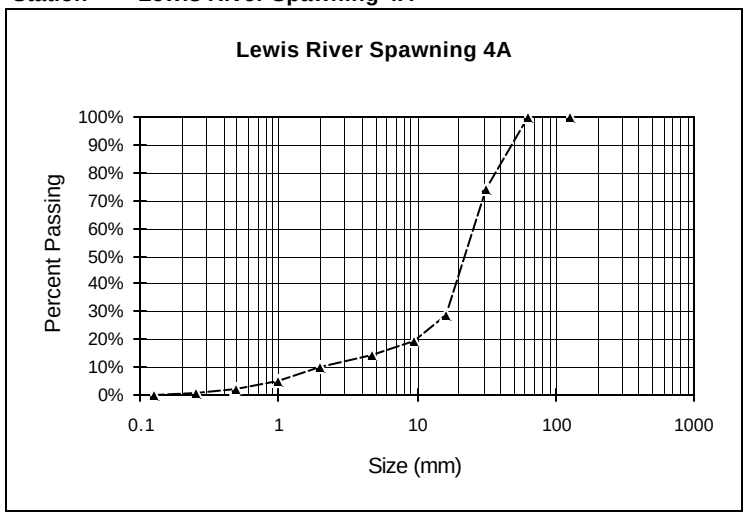


Sub-Armor Layer

Size (mm)	Weight (g)	Percent	Cum %	Avg size		
128	0	0%	100%	0	Grain Size Metrics	
64	0	0%	100%	0	D84	27.1
31.5	8,141	56%	100%	26.86474	D75	24.6
16	3,851	27%	44%	6.32075	D65	21.9
9.5	1,132	8%	17%	0.997443	D50	17.7
4.75	644	4%	9%	0.317104	D25	11.4
2	254	2%	5%	0.059243	D16	9.2
1	142	1%	3%	0.01472	Dg	34.6
0.5	203	1%	2%	0.010522	Sorting	2.2
0.25	83	1%	1%	0.002151	Fredle	16.1
0.125	11	0%	0%	0.000143	% finer than 2 mm	3.1%
0.063	4	0%	0%	2.6E-05	% finer than 1 mm	2.1%
0.003	5	0%	0%	1.14E-05		
pan	14,470			34.59	mm	
				0.1135	ft	

Lewis River Spawning Samples

Station **Lewis River Spawning 4A**

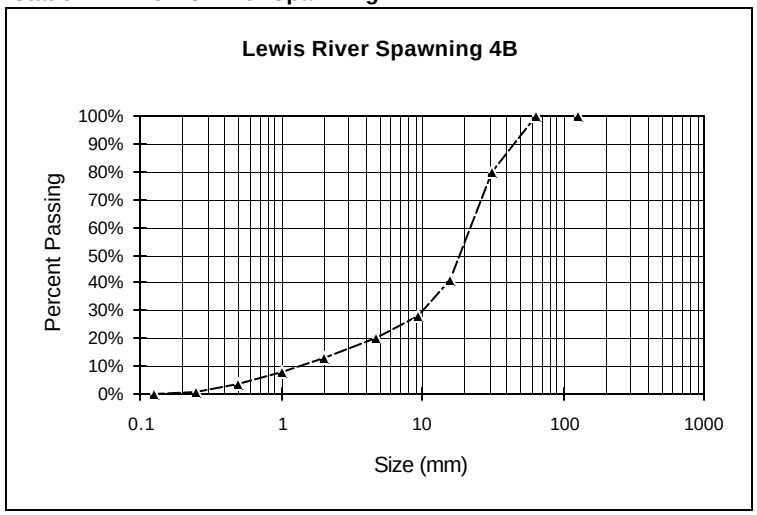


Sub-Armor Layer

Size (mm)	Weight (g)	Percent	Cum %	Avg size		
128	0	0%	100%	0	Grain Size Metrics	
64	4,417	26%	100%	25.07433	D84	44.1
31.5	7,612	45%	74%	21.49329	D75	32.9
16	1,540	9%	29%	2.162793	D65	28.4
9.5	864	5%	20%	0.65141	D50	23.3
4.75	811	5%	15%	0.341693	D25	13.2
2	809	5%	10%	0.161456	D16	6.0
1	512	3%	5%	0.045414	Dg	49.9
0.5	246	1%	2%	0.01091	Sorting	2.5
0.25	78	0%	1%	0.00173	Fredle	20.1
0.125	13	0%	0%	0.000144	% finer than 2 mm	5.1%
0.063	4	0%	0%	2.22E-05	% finer than 1 mm	2.0%
0.003	5	0%	0%	9.76E-06		
pan	16,911			49.94	mm	
				0.1639	ft	

Lewis River Spawning Samples

Station **Lewis River Spawning 4B**

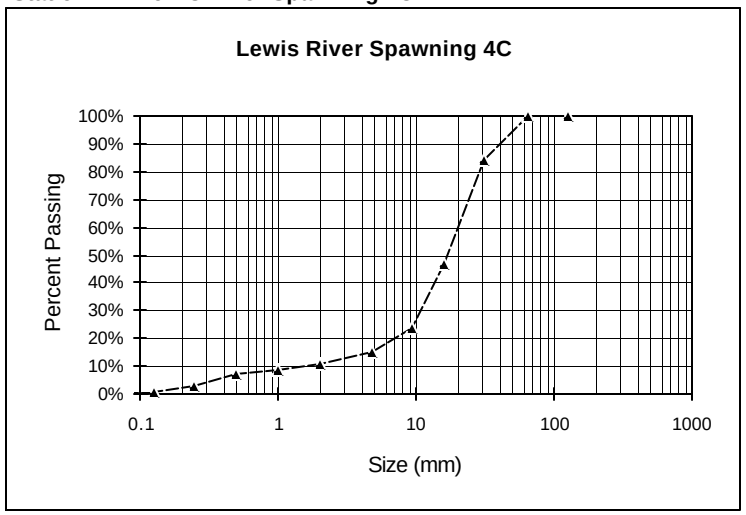


Sub-Armor Layer

Size (mm)	Weight (g)	Percent	Cum %	Avg size		
128	0	0%	100%	0	Grain Size Metrics	
64	2,879	20%	100%	19.63652	D84	38.6
31.5	5,445	39%	80%	18.47238	D75	29.7
16	1,803	13%	41%	3.042362	D65	25.7
9.5	1,130	8%	28%	1.023623	D50	19.7
4.75	968	7%	20%	0.490018	D25	7.7
2	783	6%	13%	0.187753	D16	3.1
1	568	4%	8%	0.060533	Dg	42.9
0.5	377	3%	4%	0.020089	Sorting	3.9
0.25	101	1%	1%	0.002691	Fredle	11.1
0.125	13	0%	0%	0.000173	% finer than 2 mm	7.6%
0.063	4	0%	0%	2.67E-05	% finer than 1 mm	3.5%
0.003	4	0%	0%	9.38E-06		
pan	14,075			42.94	mm	
				0.1409	ft	

Lewis River Spawning Samples

Station **Lewis River Spawning 4C**

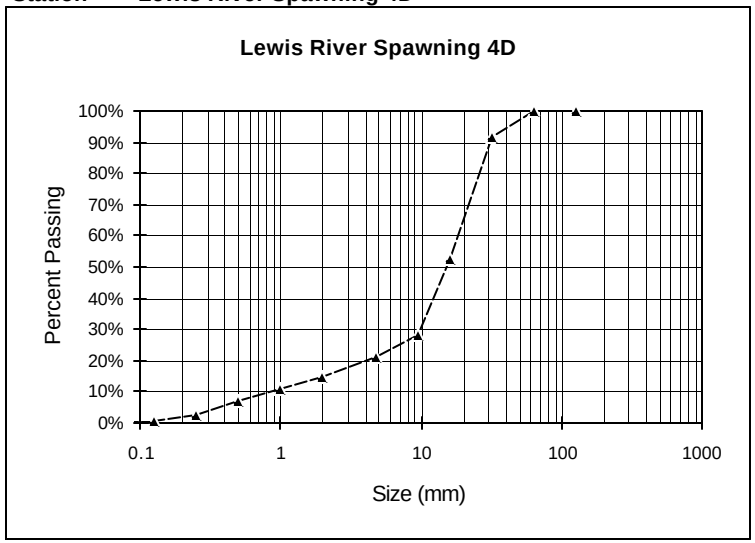


Sub-Armor Layer

Size (mm)	Weight (g)	Percent	Cum %	Avg size		
128	0	0%	100%	0	Grain Size Metrics	
64	2,165	16%	100%	14.98594	D84	30.7
31.5	5,242	38%	84%	18.04784	D75	27.6
16	3,162	23%	47%	5.414774	D65	23.5
9.5	1,222	9%	24%	1.123405	D50	17.4
4.75	620	4%	15%	0.318516	D25	9.8
2	227	2%	11%	0.05524	D16	5.3
1	249	2%	9%	0.026931	Dg	40.0
0.5	580	4%	7%	0.031365	Sorting	2.8
0.25	329	2%	3%	0.008896	Fredle	14.2
0.125	59	0%	1%	0.000798	% finer than 2 mm	8.9%
0.063	7	0%	0%	4.74E-05	% finer than 1 mm	7.1%
0.003	7	0%	0%	1.67E-05		
pan	13,869			40.01 mm		
				0.1313 ft		

Lewis River Spawning Samples

Station **Lewis River Spawning 4D**

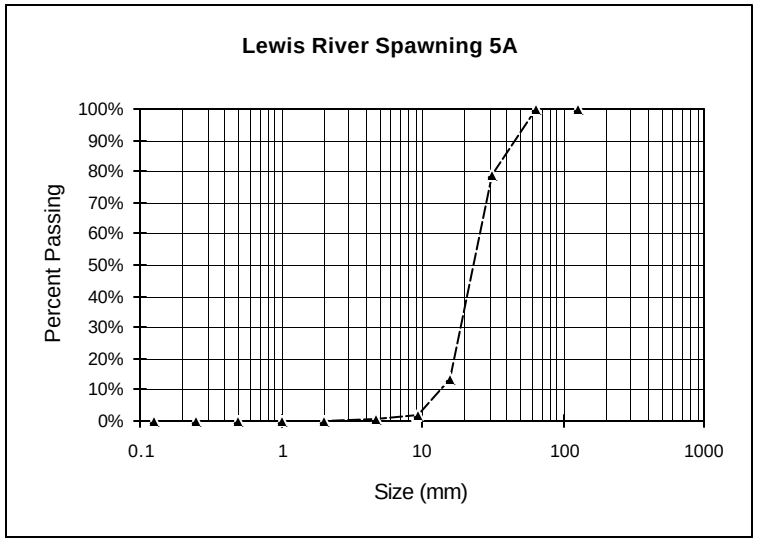


Sub-Armor Layer

Size (mm)	Weight (g)	Percent	Cum %	Avg size		
128	0	0%	100%	0	Grain Size Metrics	
64	1,068	8%	100%	7.778469	D84	28.4
31.5	5,160	39%	92%	18.69282	D75	24.8
16	3,194	24%	53%	5.755064	D65	20.9
9.5	968	7%	29%	0.936348	D50	15.3
4.75	863	7%	21%	0.466495	D25	7.2
2	510	4%	15%	0.130586	D16	2.6
1	477	4%	11%	0.054283	Dg	33.9
0.5	584	4%	7%	0.03323	Sorting	3.4
0.25	289	2%	3%	0.008222	Fredle	9.9
0.125	53	0%	1%	0.000754	% finer than 2 mm	10.8%
0.063	8	0%	0%	5.71E-05	% finer than 1 mm	7.1%
0.003	7	0%	0%	1.75E-05		
pan	13,181			33.86	mm	
				0.1111	ft	

Lewis River Spawning Samples

Station **Lewis River Spawning 5A**

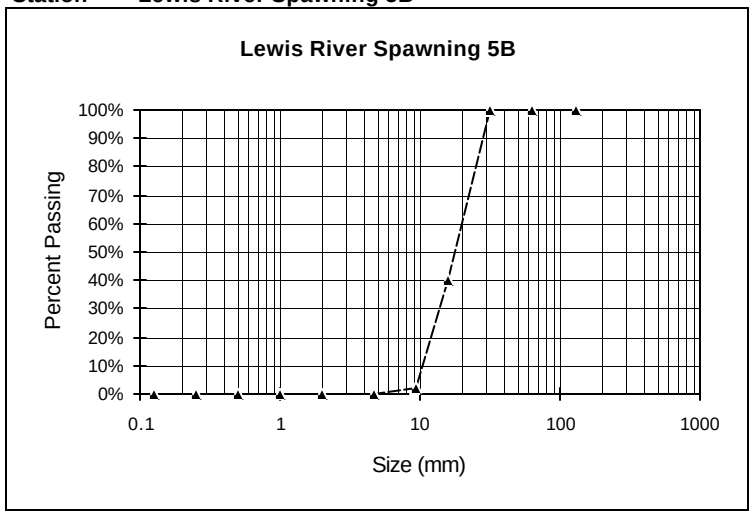


Sub-Armor Layer

Size (mm)	Weight (g)	Percent	Cum %	Avg size		
128	0	0%	100%	0	Grain Size Metrics	
64	2,578	21%	100%	20.42486	D84	39.6
31.5	7,923	65%	79%	31.22252	D75	30.6
16	1,404	12%	13%	2.751919	D65	28.2
9.5	161	1%	2%	0.169411	D50	24.7
4.75	22	0%	0%	0.012936	D25	18.8
2	2	0%	0%	0.000557	D16	16.6
1	1	0%	0%	0.000124	Dg	54.6
0.5	5	0%	0%	0.000309	Sorting	1.6
0.25	11	0%	0%	0.00034	Fredle	33.5
0.125	7	0%	0%	0.000108	% finer than 2 mm	0.2%
0.063	2	0%	0%	1.55E-05	% finer than 1 mm	0.2%
0.003	1	0%	0%	2.72E-06		
pan	12,117			54.58	mm	
				0.1791	ft	

Lewis River Spawning Samples

Station **Lewis River Spawning 5B**

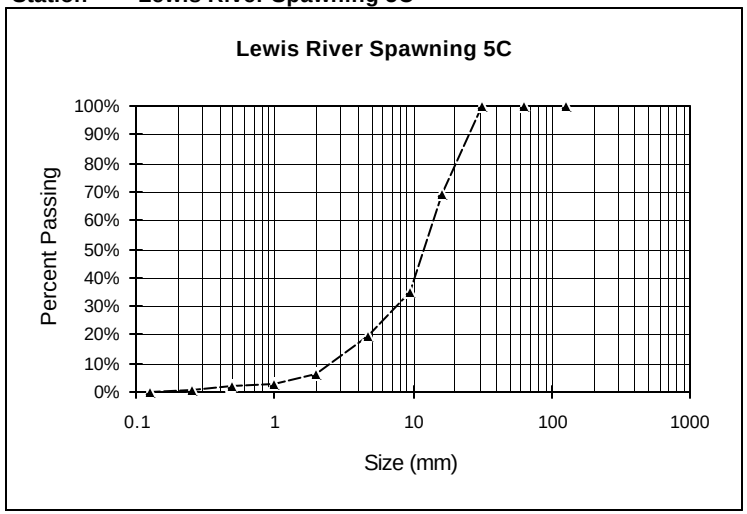


Sub-Armor Layer

Size (mm)	Weight (g)	Percent	Cum %	Avg size		
128	0	0%	100%	0	Grain Size Metrics	
64	0	0%	100%	0	D84	27.4
31.5	8,929	60%	100%	28.70143	D75	25.1
16	5,639	38%	40%	9.015567	D65	22.5
9.5	287	2%	2%	0.246331	D50	18.6
4.75	0	0%	0%	0	D25	13.4
2	0	0%	0%	0	D16	11.9
1	0	0%	0%	0	Dg	38.0
0.5	0	0%	0%	0	Sorting	1.9
0.25	0	0%	0%	0	Fredle	20.4
0.125	0	0%	0%	0	% finer than 2 mm	0.0%
0.063	0	0%	0%	0	% finer than 1 mm	0.0%
0.003	0	0%	0%	0		
pan	14,855			37.96	mm	
				0.1246	ft	

Lewis River Spawning Samples

Station **Lewis River Spawning 5C**

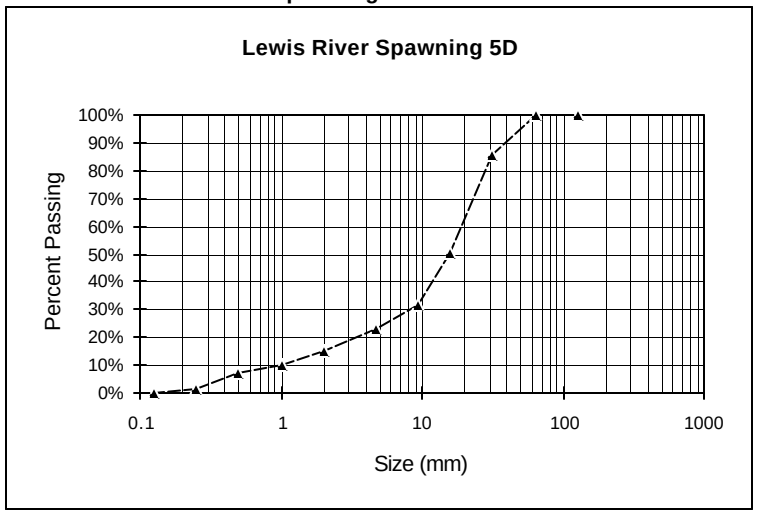


Sub-Armor Layer

Size (mm)	Weight (g)	Percent	Cum %	Avg size		
128	0	0%	100%	0	Grain Size Metrics	
64	0	0%	100%	0	D84	23.5
31.5	3,570	31%	100%	14.78085	D75	19.0
16	3,903	34%	69%	8.037479	D65	14.0
9.5	1,841	16%	35%	2.035268	D50	12.3
4.75	1,490	13%	19%	0.920511	D25	6.5
2	390	3%	6%	0.114129	D16	4.1
1	79	1%	3%	0.010275	Dg	25.9
0.5	148	1%	2%	0.009625	Sorting	2.9
0.25	90	1%	1%	0.002926	Fredle	8.8
0.125	14	0%	0%	0.000228	% finer than 2 mm	2.9%
0.063	4	0%	0%	3.26E-05	% finer than 1 mm	2.3%
0.003	4	0%	0%	1.14E-05		
pan	11,533			25.91	mm	
				0.0850	ft	

Lewis River Spawning Samples

Station **Lewis River Spawning 5D**

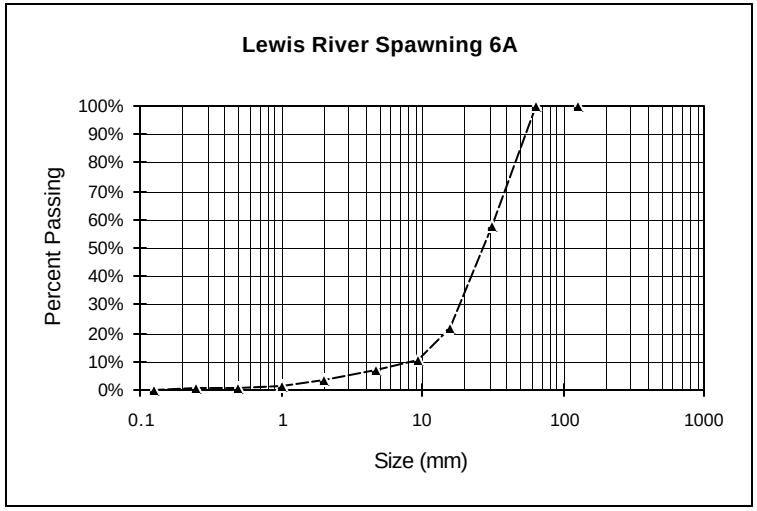


Sub-Armor Layer

Size (mm)	Weight (g)	Percent	Cum %	Avg size		
128	0	0%	100%	0	Grain Size Metrics	
64	2,116	14%	100%	13.79813	D84	30.8
31.5	5,163	35%	86%	16.74591	D75	26.8
16	2,757	19%	51%	4.44768	D65	22.4
9.5	1,286	9%	32%	1.113741	D50	15.8
4.75	1,184	8%	23%	0.57302	D25	5.8
2	695	5%	15%	0.159328	D16	2.3
1	511	3%	10%	0.052065	Dg	36.9
0.5	748	5%	7%	0.038106	Sorting	4.6
0.25	237	2%	2%	0.006037	Fredle	8.0
0.125	20	0%	0%	0.000255	% finer than 2 mm	10.3%
0.063	3	0%	0%	1.92E-05	% finer than 1 mm	6.9%
0.003	2	0%	0%	4.48E-06		
pan	14,722			36.93	mm	
				0.1212	ft	

Lewis River Spawning Samples

Station **Lewis River Spawning 6A**

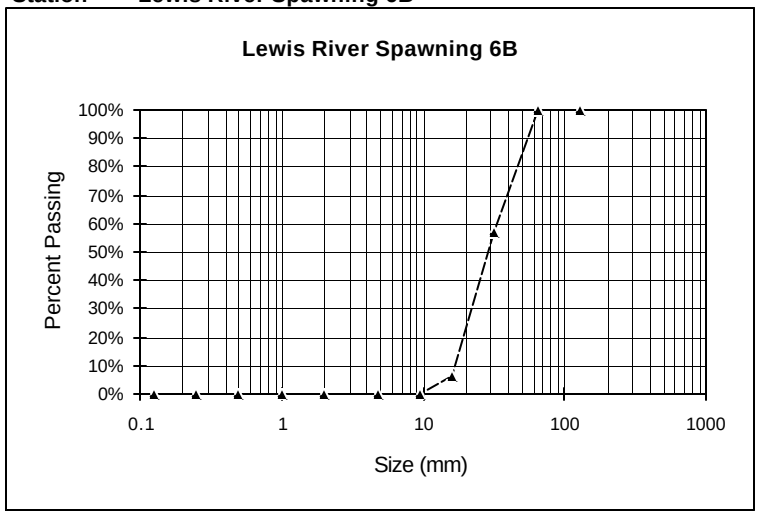


Sub-Armor Layer

Size (mm)	Weight (g)	Percent	Cum %	Avg size		
128	0	0%	100%	0	Grain Size Metrics	
64	6,037	43%	100%	40.88262	D84	51.8
31.5	5,054	36%	57%	17.02374	D75	44.9
16	1,549	11%	22%	2.595143	D65	37.3
9.5	534	4%	11%	0.480284	D50	28.3
4.75	490	3%	7%	0.246279	D25	17.4
2	309	2%	4%	0.073566	D16	12.6
1	98	1%	1%	0.01037	Dg	61.3
0.5	50	0%	1%	0.002645	Sorting	2.6
0.25	36	0%	0%	0.000952	Fredle	23.8
0.125	13	0%	0%	0.000172	% finer than 2 mm	1.4%
0.063	4	0%	0%	2.65E-05	% finer than 1 mm	0.7%
0.003	2	0%	0%	4.66E-06		
pan	14,176			61.32	mm	
				0.2012	ft	

Lewis River Spawning Samples

Station **Lewis River Spawning 6B**

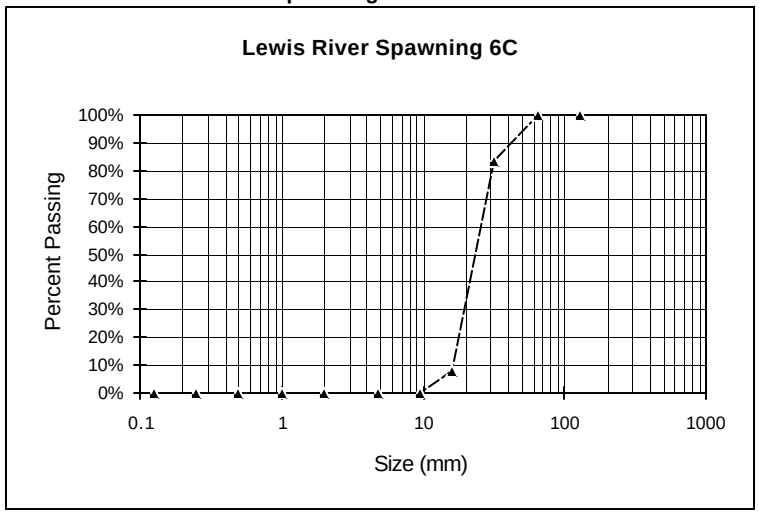


Sub-Armor Layer

Size (mm)	Weight (g)	Percent	Cum %	Avg size		
128	0	0%	100%	0	Grain Size Metrics	
64	6,690	43%	100%	41.16132	D84	51.9
31.5	7,978	51%	57%	24.41514	D75	45.1
16	916	6%	6%	1.394283	D65	37.5
9.5	17	0%	0%	0.013892	D50	29.3
4.75	1	0%	0%	0.000457	D25	21.8
2	1	0%	0%	0.000216	D16	19.0
1	0	0%	0%	0	Dg	67.0
0.5	0	0%	0%	0	Sorting	2.1
0.25	0	0%	0%	0	Fredle	32.4
0.125	0	0%	0%	0	% finer than 2 mm	0.0%
0.063	0	0%	0%	0	% finer than 1 mm	0.0%
0.003	0	0%	0%	0		
pan	15,603			66.99	mm	
				0.2198	ft	

Lewis River Spawning Samples

Station **Lewis River Spawning 6C**

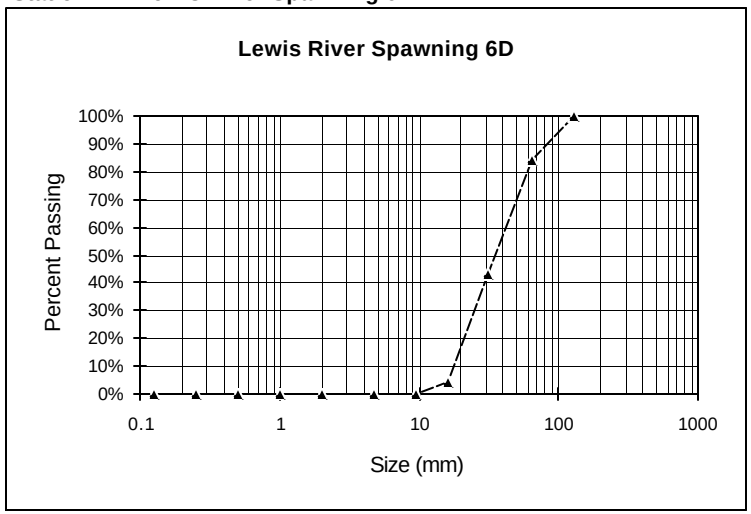


Sub-Armor Layer

Size (mm)	Weight (g)	Percent	Cum %	Avg size		
128	0	0%	100%	0	Grain Size Metrics	
64	2,667	17%	100%	15.92041	D84	32.6
31.5	12,092	75%	83%	35.90306	D75	29.8
16	1,287	8%	8%	1.90065	D65	27.7
9.5	36	0%	0%	0.028541	D50	24.6
4.75	0	0%	0%	0	D25	19.5
2	0	0%	0%	0	D16	17.6
1	0	0%	0%	0	Dg	53.8
0.5	0	0%	0%	0	Sorting	1.5
0.25	0	0%	0%	0	Fredle	35.1
0.125	0	0%	0%	0	% finer than 2 mm	0.0%
0.063	0	0%	0%	0	% finer than 1 mm	0.0%
0.003	0	0%	0%	0		
pan	16,082			53.75	mm	
				0.1764	ft	

Lewis River Spawning Samples

Station **Lewis River Spawning 6D**

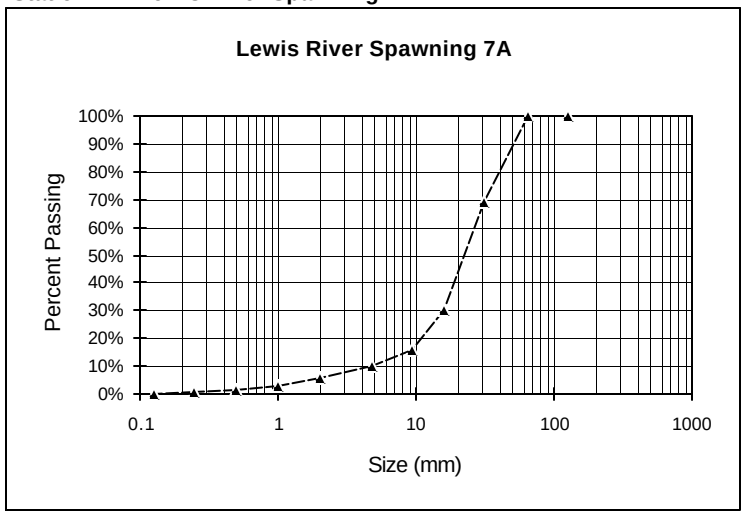


Sub-Armor Layer

Size (mm)	Weight (g)	Percent	Cum %	Avg size		
128	2,653	16%	100%	30.72788	Grain Size Metrics	
64	6,809	41%	84%	39.43198	D84	64.0
31.5	6,375	38%	43%	18.36317	D75	56.9
16	717	4%	4%	1.027252	D65	49.0
9.5	14	0%	0%	0.010768	D50	37.1
4.75	5	0%	0%	0.002149	D25	24.3
2	1	0%	0%	0.000204	D16	20.6
1	1	0%	0%	9.05E-05	Dg	89.6
0.5	1	0%	0%	4.52E-05	Sorting	2.3
0.25	1	0%	0%	2.26E-05	Fredle	38.2
0.125	0	0%	0%	0	% finer than 2 mm	0.0%
0.063	0	0%	0%	0	% finer than 1 mm	0.0%
0.003	0	0%	0%	0		
pan	16,577			89.56	mm	
				0.2938	ft	

Lower Lewis River Spawning Samples

Station **Lewis River Spawning 7A**

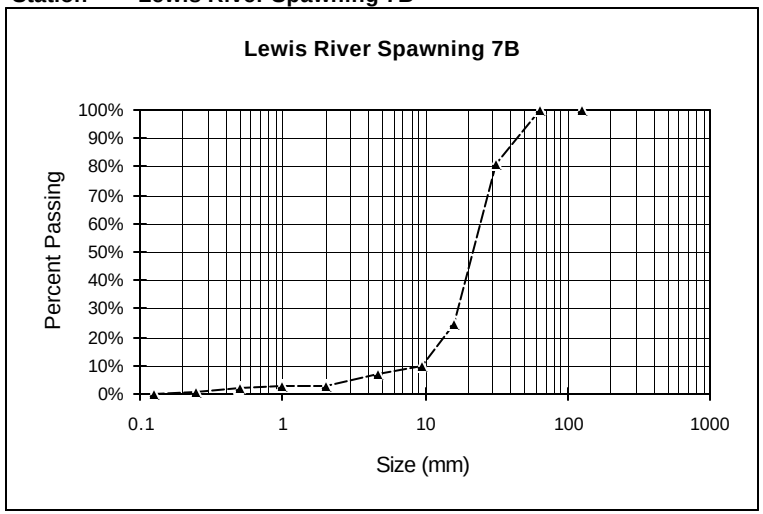


Sub-Armor Layer

Size (mm)	Weight (g)	Percent	Cum %	Avg size		
128	0	0%	100%	0	Grain Size Metrics	
64	5,056	31%	100%	29.80876	D84	47.3
31.5	6,254	38%	69%	18.33989	D75	37.8
16	2,439	15%	31%	3.557468	D65	27.4
9.5	871	5%	16%	0.682015	D50	23.9
4.75	697	4%	10%	0.304988	D25	13.6
2	458	3%	6%	0.09493	D16	9.7
1	241	1%	3%	0.022201	Dg	52.8
0.5	197	1%	2%	0.009074	Sorting	2.8
0.25	59	0%	0%	0.001359	Fredle	19.0
0.125	7	0%	0%	8.06E-05	% finer than 2 mm	3.1%
0.063	2	0%	0%	1.15E-05	% finer than 1 mm	1.6%
0.003	2	0%	0%	4.05E-06		
pan	16,283			52.82 mm		
				0.1733 ft		

Lewis River Spawning Samples

Station **Lewis River Spawning 7B**

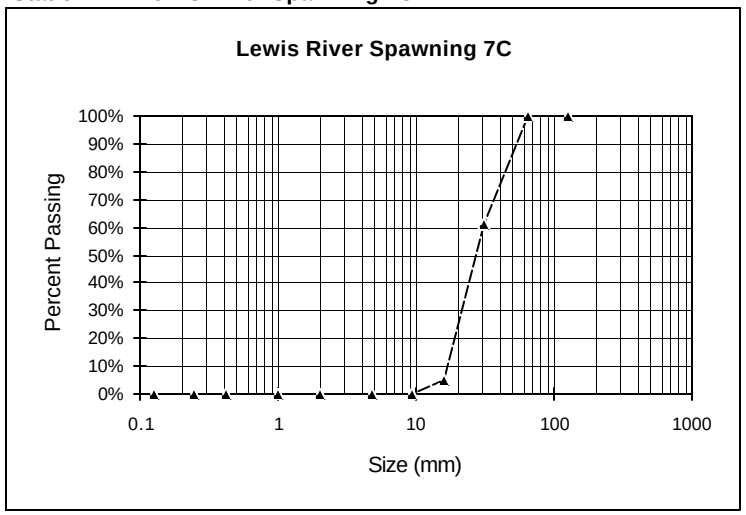


Sub-Armor Layer

Size (mm)	Weight (g)	Percent	Cum %	Avg size		
128	0	0%	100%	0	Grain Size Metrics	
64	3,186	19%	100%	18.25352	D84	36.7
31.5	9,485	57%	81%	27.02965	D75	29.9
16	2,483	15%	24%	3.519411	D65	27.1
9.5	454	3%	10%	0.345458	D50	23.0
4.75	619	4%	7%	0.263212	D25	16.2
2	103	1%	3%	0.020746	D16	12.3
1	87	1%	3%	0.007788	Dg	49.5
0.5	194	1%	2%	0.008683	Sorting	1.8
0.25	118	1%	1%	0.002641	Fredle	26.8
0.125	20	0%	0%	0.000224	% finer than 2 mm	2.5%
0.063	4	0%	0%	2.24E-05	% finer than 1 mm	2.0%
0.003	3	0%	0%	5.91E-06		
pan	16,756			49.45	mm	
				0.1622	ft	

Lewis River Spawning Samples

Station **Lewis River Spawning 7C**

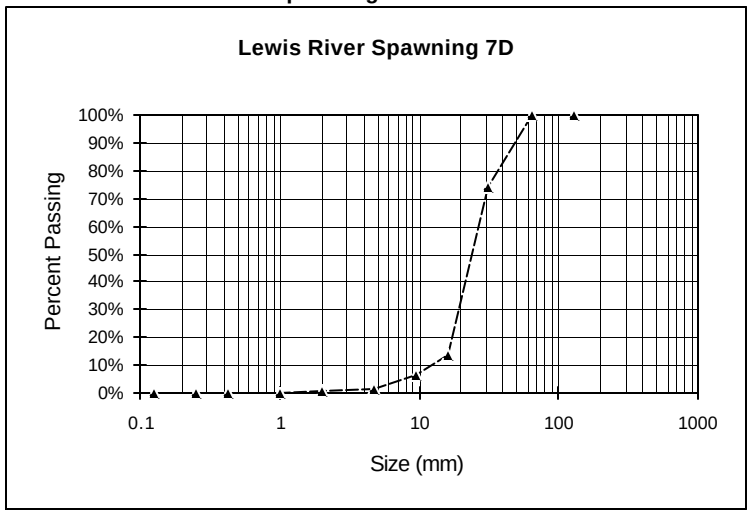


Sub-Armor Layer

Size (mm)	Weight (g)	Percent	Cum %	Avg size		
128	0	0%	100%	0	Grain Size Metrics	
64	5,231	39%	100%	37.48701	D84	50.7
31.5	7,520	56%	61%	26.80502	D75	43.2
16	620	5%	5%	1.099209	D65	34.9
9.5	3	0%	0%	0.002855	D50	28.5
4.75	6	0%	0%	0.003191	D25	21.6
2	9	0%	0%	0.002267	D16	19.1
1	4	0%	0%	0.000448	Dg	65.4
0.425	2	0%	0%	0.000106	Sorting	2.0
0.25	1	0%	0%	2.52E-05	Fredle	32.7
0.125	0	0%	0%	0	% finer than 2 mm	0.1%
0.063	0	0%	0%	0	% finer than 1 mm	0.0%
0.003	0	0%	0%	0		
pan	13,396			65.40	mm	
				0.2146	ft	

Lewis River Spawning Samples

Station **Lewis River Spawning 7D**

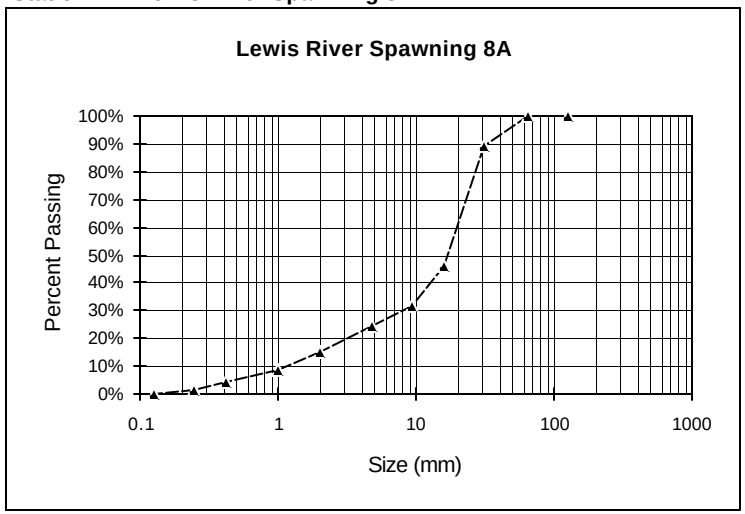


Sub-Armor Layer

Size (mm)	Weight (g)	Percent	Cum %	Avg size		
128	0	0%	100%	0	Grain Size Metrics	
64	3,537	26%	100%	24.74869	D84	43.8
31.5	8,339	61%	74%	29.02239	D75	32.5
16	915	7%	13%	1.58391	D65	29.1
9.5	774	6%	7%	0.719278	D50	25.3
4.75	69	1%	1%	0.035833	D25	18.9
2	46	0%	1%	0.011316	D16	16.7
1	22	0%	0%	0.002405	Dg	56.1
0.425	12	0%	0%	0.000623	Sorting	1.7
0.25	4	0%	0%	9.84E-05	Fredle	32.7
0.125	1	0%	0%	1.37E-05	% finer than 2 mm	0.3%
0.063	1	0%	0%	6.85E-06	% finer than 1 mm	0.1%
0.003	0	0%	0%	0		
pan	13,720			56.12	mm	
				0.1841	ft	

Lewis River Spawning Samples

Station **Lewis River Spawning 8A**

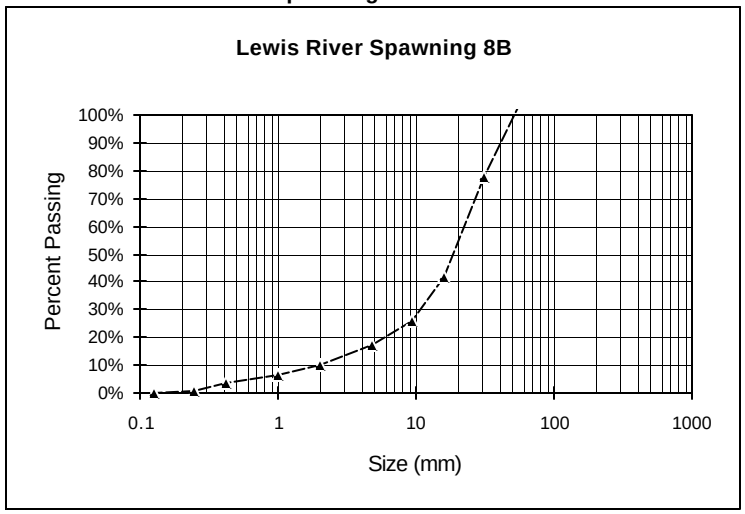


Sub-Armor Layer

Size (mm)	Weight (g)	Percent	Cum %	Avg size		
128	0	0%	100%	0	Grain Size Metrics	
64	1,727	11%	100%	10.23787	D84	15.2
31.5	6,978	43%	89%	20.57549	D75	26.3
16	2,327	14%	46%	3.412761	D65	22.7
9.5	1,207	7%	32%	0.950306	D50	17.4
4.75	1,476	9%	24%	0.649407	D25	5.1
2	1,124	7%	15%	0.234253	D16	2.2
1	635	4%	8%	0.058818	Dg	36.1
0.425	456	3%	4%	0.020063	Sorting	5.1
0.25	226	1%	2%	0.00471	Fredle	7.0
0.125	26	0%	0%	0.000301	% finer than 2 mm	8.4%
0.063	7	0%	0%	4.06E-05	% finer than 1 mm	4.4%
0.003	5	0%	0%	1.02E-05		
pan	16,194			36.14	mm	
				0.1186	ft	

Lewis River Spawning Samples

Station **Lewis River Spawning 8B**

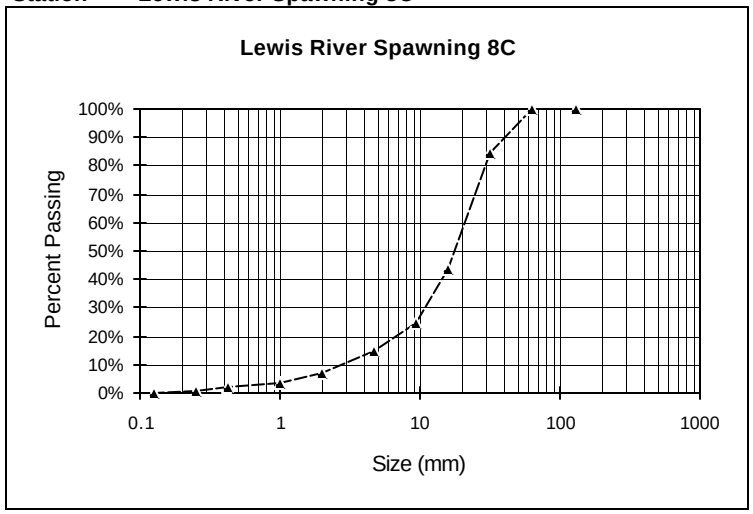


Sub-Armor Layer

Size (mm)	Weight (g)	Percent	Cum %	Avg size		
128	0	0%	110%	0	Grain Size Metrics	
64	5,454	33%	110%	31.24755	D84	37.9
31.5	5,947	35%	78%	16.94732	D75	30.4
16	2,695	16%	42%	3.8199	D65	26.0
9.5	1,445	9%	26%	1.099532	D50	19.5
4.75	1,199	7%	17%	0.50984	D25	9.0
2	659	4%	10%	0.132736	D16	4.2
1	447	3%	6%	0.040016	Dg	53.8
0.425	426	3%	4%	0.018114	Sorting	3.4
0.25	153	1%	1%	0.003082	Fredle	15.9
0.125	16	0%	0%	0.000179	% finer than 2 mm	6.3%
0.063	4	0%	0%	2.24E-05	% finer than 1 mm	3.6%
0.003	2	0%	0%	3.94E-06		
pan	18,447			53.82	mm	
				0.1766	ft	

Lewis River Spawning Samples

Station **Lewis River Spawning 8C**

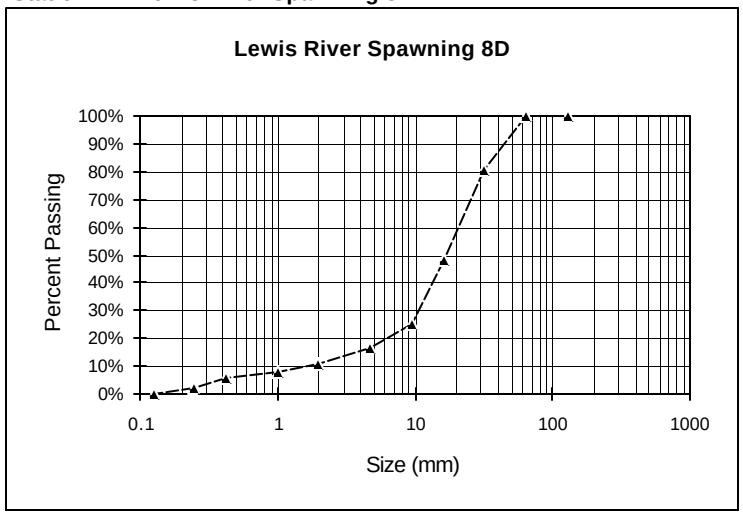


Sub-Armor Layer

Size (mm)	Weight (g)	Percent	Cum %	Avg size		
128	0	0%	100%	0	Grain Size Metrics	
64	2,806	16%	100%	15.15903	D84	31.4
31.5	7,168	40%	84%	19.26123	D75	28.0
16	3,452	19%	44%	4.613675	D65	24.1
9.5	1,710	10%	24%	1.226927	D50	18.4
4.75	1,443	8%	15%	0.57858	D25	9.7
2	621	3%	7%	0.117945	D16	5.3
1	231	1%	3%	0.019499	Dg	41.0
0.425	231	1%	2%	0.009262	Sorting	2.9
0.25	94	1%	1%	0.001785	Fredle	14.2
0.125	11	0%	0%	0.000116	% finer than 2 mm	3.2%
0.063	2	0%	0%	1.06E-05	% finer than 1 mm	1.9%
0.003	1	0%	0%	1.86E-06		
pan	17,770			40.99	mm	
				0.1345	ft	

Lewis River Spawning Samples

Station **Lewis River Spawning 8D**

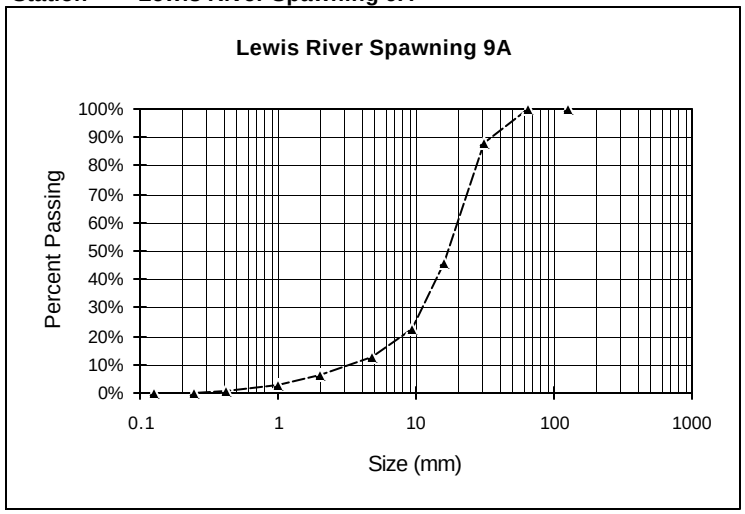


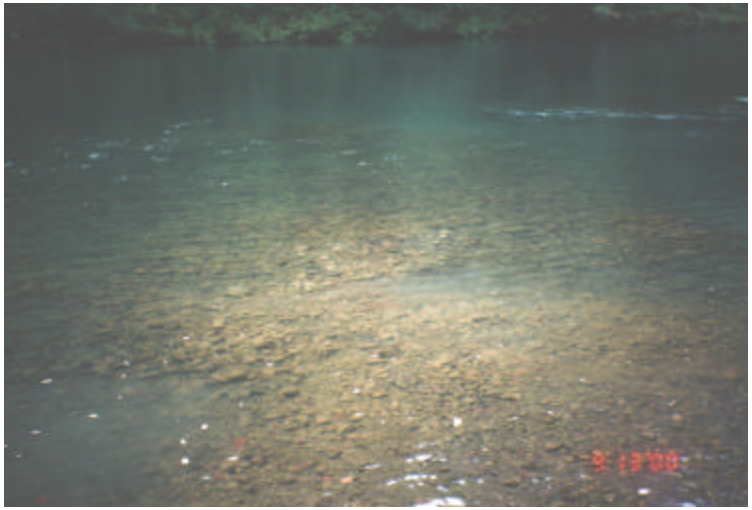
Sub-Armor Layer

Size (mm)	Weight (g)	Percent	Cum %	Avg size		
128	0	0%	100%	0	Grain Size Metrics	
64	3,067	20%	100%	18.96869	D84	37.7
31.5	4,980	32%	80%	15.31987	D75	29.0
16	3,615	23%	48%	5.531262	D65	24.1
9.5	1,280	8%	25%	1.051411	D50	16.9
4.75	890	6%	17%	0.408533	D25	9.5
2	424	3%	11%	0.092192	D16	4.5
1	386	2%	8%	0.037302	Dg	41.4
0.425	586	4%	6%	0.026899	Sorting	3.0
0.25	247	2%	2%	0.005371	Fredle	13.6
0.125	37	0%	0%	0.000447	% finer than 2 mm	8.2%
0.063	6	0%	0%	3.63E-05	% finer than 1 mm	5.7%
0.003	4	0%	0%	8.5E-06		
pan	15,522			41.44	mm	
				0.1360	ft	

Lewis River Spawning Samples

Station **Lewis River Spawning 9A**



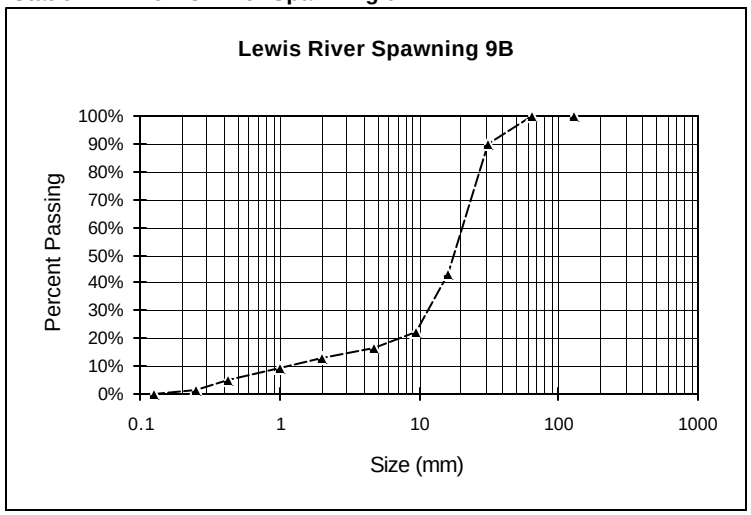


Sub-Armor Layer

Size (mm)	Weight (g)	Percent	Cum %	Avg size		
128	0	0%	100%	0	Grain Size Metrics	
64	2,400	12%	100%	11.23135	D84	29.9
31.5	8,672	42%	88%	20.18563	D75	26.6
16	4,823	24%	46%	5.583809	D65	23.0
9.5	2,022	10%	23%	1.256727	D50	17.5
4.75	1,283	6%	13%	0.445616	D25	10.2
2	743	4%	6%	0.12224	D16	6.4
1	384	2%	3%	0.028078	Dg	38.9
0.425	155	1%	1%	0.005384	Sorting	2.6
0.25	23	0%	0%	0.000378	Fredle	14.9
0.125	4	0%	0%	3.66E-05	% finer than 2 mm	2.8%
0.063	3	0%	0%	1.37E-05	% finer than 1 mm	0.9%
0.003	2	0%	0%	3.22E-06		
pan	20,514			38.86	mm	
				0.1275	ft	

Lewis River Spawning Samples

Station **Lewis River Spawning 9B**

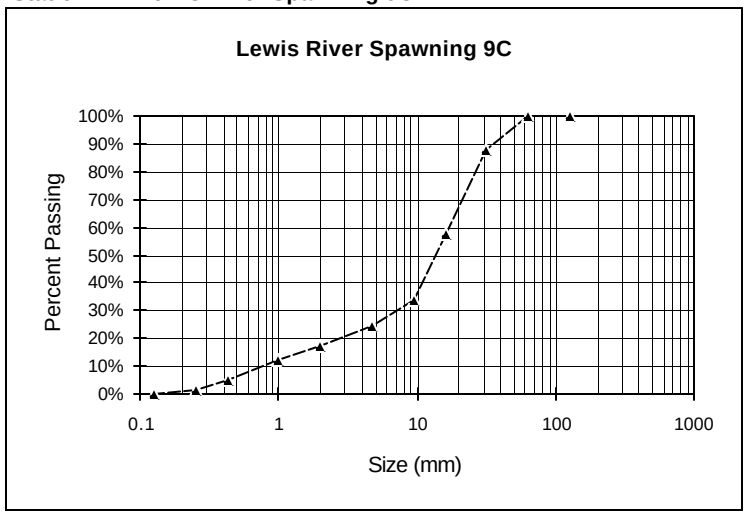


Sub-Armor Layer

Size (mm)	Weight (g)	Percent	Cum %	Avg size		
128	0	0%	100%	0	Grain Size Metrics	
64	1,715	10%	100%	9.464789	D84	29.5
31.5	8,210	47%	90%	22.53679	D75	26.5
16	3,652	21%	43%	4.986203	D65	23.2
9.5	972	6%	22%	0.712446	D50	18.3
4.75	616	4%	16%	0.252314	D25	10.4
2	621	4%	13%	0.120487	D16	4.4
1	694	4%	9%	0.059845	Dg	38.2
0.425	706	4%	5%	0.028918	Sorting	2.5
0.25	180	1%	1%	0.003492	Fredle	15.0
0.125	19	0%	0%	0.000205	% finer than 2 mm	9.2%
0.063	5	0%	0%	2.7E-05	% finer than 1 mm	5.3%
0.003	5	0%	0%	9.49E-06		
pan	17,395			38.17	mm	
				0.1252	ft	

Lewis River Spawning Samples

Station **Lewis River Spawning 9C**

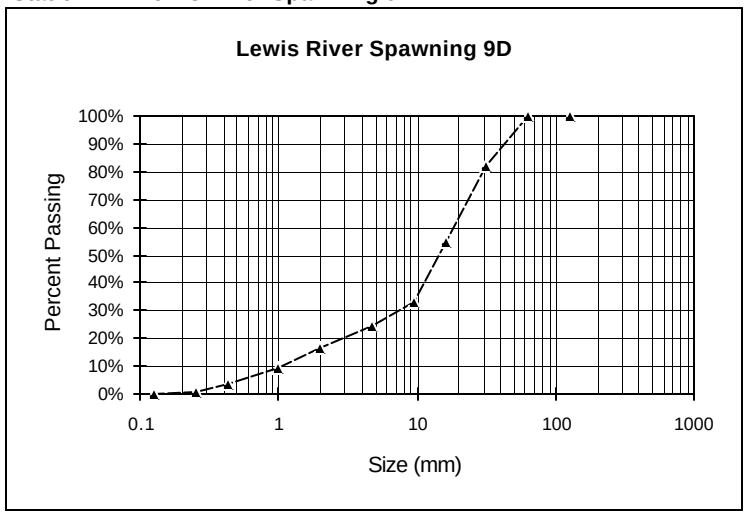


Sub-Armor Layer

Size (mm)	Weight (g)	Percent	Cum %	Avg size		
128	0	0%	100%	0	Grain Size Metrics	
64	2,202	12%	100%	11.7551	D84	29.6
31.5	5,464	30%	88%	14.50848	D75	25.0
16	4,190	23%	57%	5.533698	D65	19.9
9.5	1,716	10%	34%	1.216649	D50	13.9
4.75	1,244	7%	25%	0.492882	D25	5.0
2	1,018	6%	18%	0.191055	D16	1.4
1	1,196	7%	12%	0.099761	Dg	33.8
0.425	742	4%	5%	0.029399	Sorting	5.0
0.25	181	1%	1%	0.003397	Fredle	6.7
0.125	19	0%	0%	0.000198	% finer than 2 mm	12.0%
0.063	6	0%	0%	3.14E-05	% finer than 1 mm	5.3%
0.003	5	0%	0%	9.18E-06		
pan	17,983			33.83	mm	
				0.1110	ft	

Lewis River Spawning Samples

Station **Lewis River Spawning 9D**

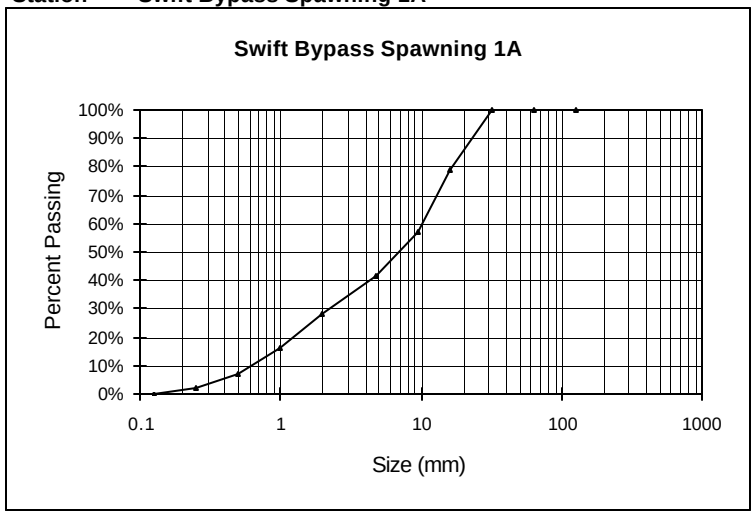


Sub-Armor Layer

Size (mm)	Weight (g)	Percent	Cum %	Avg size		
128	0	0%	100%	0	Grain Size Metrics	
64	3,226	18%	100%	17.05374	D84	34.7
31.5	5,024	28%	82%	13.21013	D75	27.4
16	3,945	22%	55%	5.159347	D65	21.8
9.5	1,548	9%	33%	1.086839	D50	14.6
4.75	1,442	8%	24%	0.565763	D25	5.1
2	1,323	7%	16%	0.245877	D16	1.9
1	1,005	6%	9%	0.083012	Dg	37.4
0.425	525	3%	4%	0.020598	Sorting	5.4
0.25	106	1%	1%	0.00197	Fredle	7.0
0.125	10	0%	0%	0.000103	% finer than 2 mm	9.1%
0.063	4	0%	0%	2.07E-05	% finer than 1 mm	3.6%
0.003	2	0%	0%	3.63E-06		
pan	18,160			37.43 mm		
				0.1228 ft		

Lewis River Spawning Samples

Station **Swift Bypass Spawning 1A**

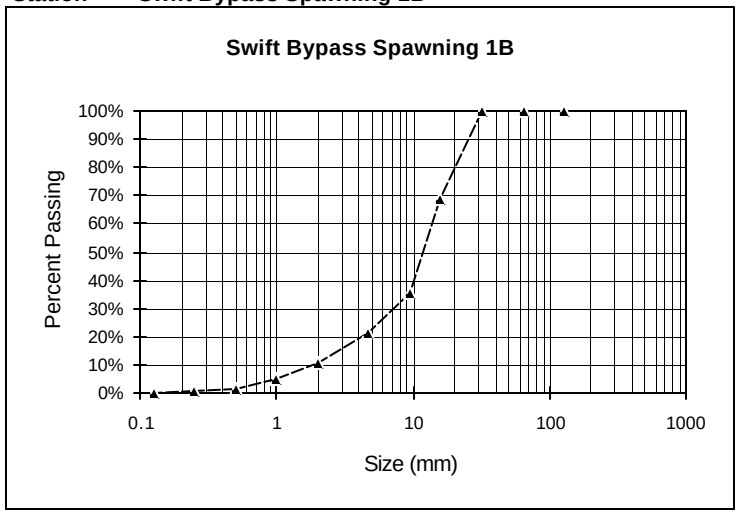


Sub-Armor Layer

Size (mm)	Weight (g)	Percent	Cum %	Avg size			
128	0	0%	100%	0		Grain Size Metrics	
64	0	0%	100%	0		D84	19.7
31.5	1,114	21%	100%	10.04409		D75	14.8
16	1,178	22%	79%	5.282761		D65	11.9
9.5	791	15%	57%	1.904315		D50	7.4
4.75	721	14%	42%	0.970001		D25	1.7
2	641	12%	28%	0.408492		D16	1.0
1	483	9%	16%	0.136801		Dg	18.8
0.5	274	5%	7%	0.038803		Sorting	8.5
0.25	80	2%	2%	0.005665		Fredle	2.2
0.125	10	0%	0%	0.000354		% finer than 2 mm	16.1%
0.063	2	0%	0%	3.55E-05		% finer than 1 mm	6.9%
0.003	2	0%	0%	1.25E-05			
pan	5,296			18.79	mm		
				0.0617	ft		
0.09							
0.063							
0.003							
pan	10,592			37.64	mm		
				0.1235	ft		

Lewis River Spawning Samples

Station **Swift Bypass Spawning 1B**

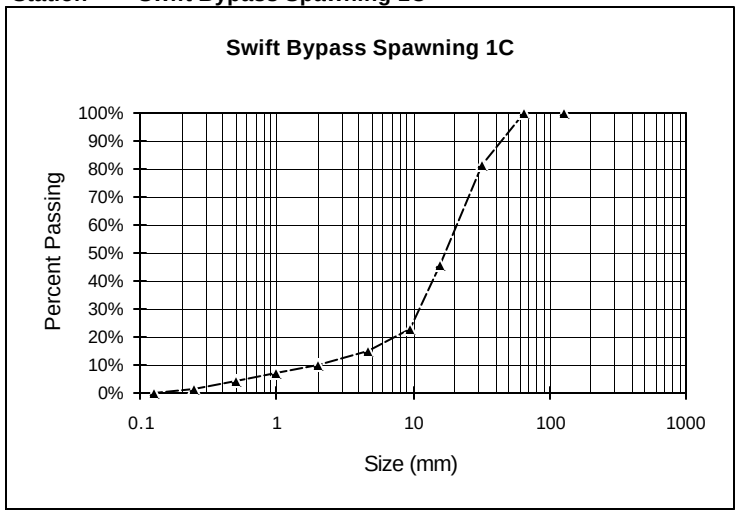


Sub-Armor Layer

Size (mm)	Weight (g)	Percent	Cum %	Avg size		
128	0	0%	100%	0	Grain Size Metrics	
64	0	0%	100%	0	D84	23.5
31.5	2,949	31%	100%	14.762	D75	19.0
16	3,218	34%	69%	8.012108	D65	15.2
9.5	1,331	14%	35%	1.779039	D50	12.3
4.75	1,009	11%	21%	0.753656	D25	6.0
2	584	6%	11%	0.206625	D16	3.3
1	293	3%	5%	0.046074	Dg	25.6
0.5	119	1%	2%	0.009356	Sorting	3.2
0.25	26	0%	0%	0.001022	Fredle	8.1
0.125	4	0%	0%	7.86E-05	% finer than 2 mm	4.7%
0.063	2	0%	0%	1.97E-05	% finer than 1 mm	1.6%
0.003	4	0%	0%	1.38E-05		
pan	9,539			25.57	mm	
				0.0839	ft	

Lewis River Spawning Samples

Station **Swift Bypass Spawning 1C**

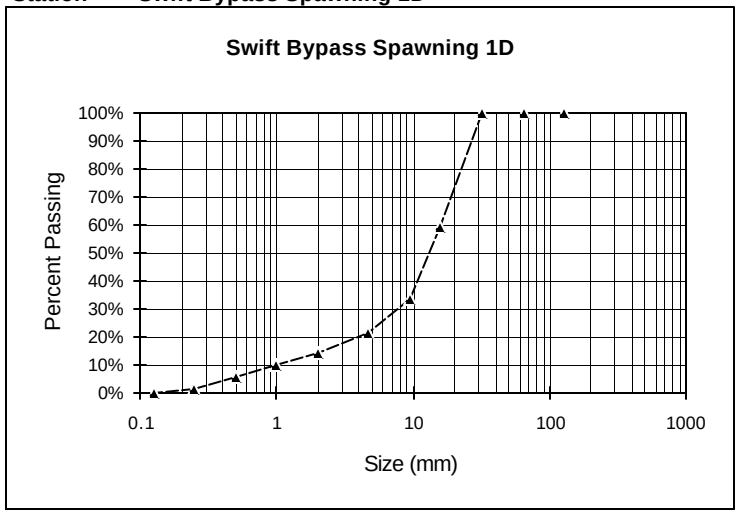


Sub-Armor Layer

Size (mm)	Weight (g)	Percent	Cum %	Avg size		
128	0	0%	100%	0	Grain Size Metrics	
64	2,227	18%	100%	17.57724	D84	35.6
31.5	4,399	36%	82%	17.26977	D75	28.6
16	2,720	22%	46%	5.31119	D65	24.3
9.5	981	8%	23%	1.028344	D50	17.9
4.75	622	5%	15%	0.364363	D25	10.0
2	360	3%	10%	0.099893	D16	5.3
1	354	3%	7%	0.043657	Dg	41.7
0.5	339	3%	4%	0.020904	Sorting	2.9
0.25	131	1%	1%	0.004039	Fredle	14.6
0.125	19	0%	0%	0.000293	% finer than 2 mm	7.0%
0.063	6	0%	0%	4.64E-05	% finer than 1 mm	4.1%
0.003	5	0%	0%	1.36E-05		
pan	12,163			41.72	mm	
				0.1369	ft	

Lewis River Spawning Samples

Station **Swift Bypass Spawning 1D**

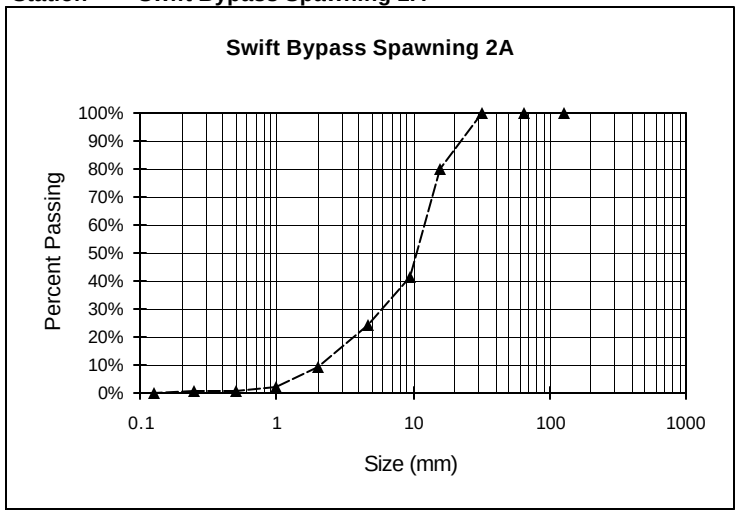


Sub-Armor Layer

Size (mm)	Weight (g)	Percent	Cum %	Avg size		
128	0	0%	100%	0	Grain Size Metrics	
64	0	0%	100%	0	D84	25.4
31.5	4,281	40%	100%	19.28651	D75	21.9
16	2,725	26%	60%	6.106119	D65	18.1
9.5	1,315	12%	34%	1.581871	D50	13.6
4.75	799	8%	21%	0.537114	D25	6.1
2	424	4%	14%	0.135013	D16	2.7
1	435	4%	10%	0.061562	Dg	27.7
0.5	439	4%	6%	0.031064	Sorting	3.6
0.25	152	1%	2%	0.005378	Fredle	7.7
0.125	19	0%	0%	0.000336	% finer than 2 mm	10.0%
0.063	5	0%	0%	4.43E-05	% finer than 1 mm	5.8%
0.003	5	0%	0%	1.56E-05		
pan	10,599			27.75	mm	
				0.0910	ft	

Lewis River Spawning Samples

Station **Swift Bypass Spawning 2A**

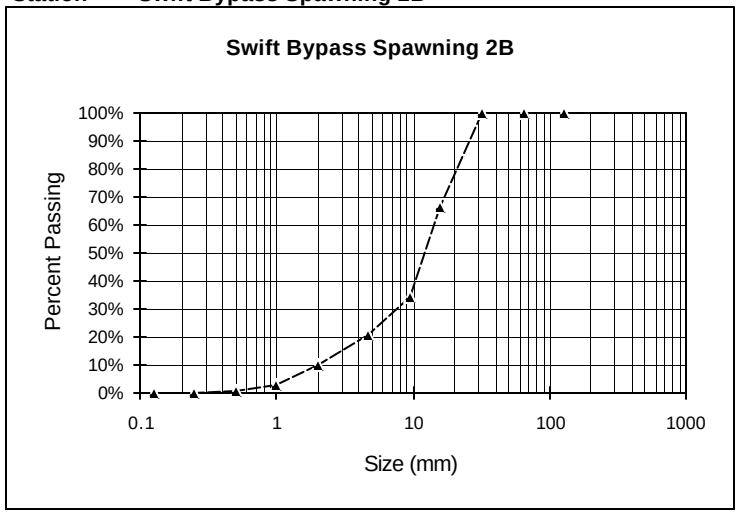


Sub-Armor Layer

Size (mm)	Weight (g)	Percent	Cum %	Avg size		
128	0	0%	100%	0	Grain Size Metrics	
64	0	0%	100%	0	D84	19.2
31.5	1,539	20%	100%	9.611202	D75	12.2
16	2,945	39%	80%	9.147757	D65	13.5
9.5	1,329	17%	41%	2.216159	D50	11.0
4.75	1,146	15%	24%	1.067911	D25	5.0
2	517	7%	9%	0.228208	D16	3.3
1	103	1%	2%	0.020207	Dg	22.3
0.5	33	0%	1%	0.003237	Sorting	2.4
0.25	20	0%	0%	0.000981	Fredle	9.2
0.125	6	0%	0%	0.000147	% finer than 2 mm	2.2%
0.063	3	0%	0%	3.69E-05	% finer than 1 mm	0.9%
0.003	5	0%	0%	2.16E-05		
pan	7,646			22.30 mm		
				0.0731 ft		

Lewis River Spawning Samples

Station **Swift Bypass Spawning 2B**

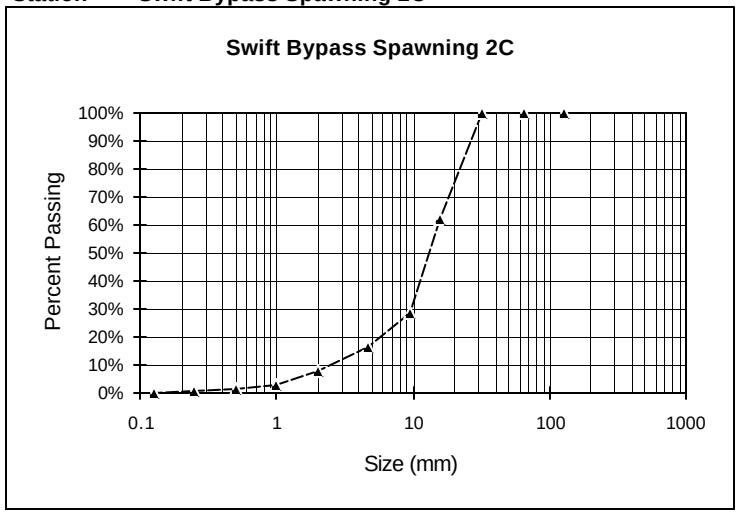


Sub-Armor Layer

Size (mm)	Weight (g)	Percent	Cum %	Avg size		
128	0	0%	100%	0	Grain Size Metrics	
64	0	0%	100%	0	D84	24.1
31.5	2,815	34%	100%	16.00956	D75	19.9
16	2,726	32%	66%	7.711112	D65	15.7
9.5	1,120	13%	34%	1.70081	D50	12.7
4.75	871	10%	21%	0.739147	D25	6.3
2	596	7%	10%	0.239578	D16	3.5
1	187	2%	3%	0.033409	Dg	26.4
0.5	54	1%	1%	0.004824	Sorting	3.2
0.25	19	0%	0%	0.000849	Fredle	8.3
0.125	4	0%	0%	8.93E-05	% finer than 2 mm	3.2%
0.063	2	0%	0%	2.24E-05	% finer than 1 mm	1.0%
0.003	2	0%	0%	7.86E-06		
pan	8,396			26.44	mm	
				0.0867	ft	

Lewis River Spawning Samples

Station **Swift Bypass Spawning 2C**

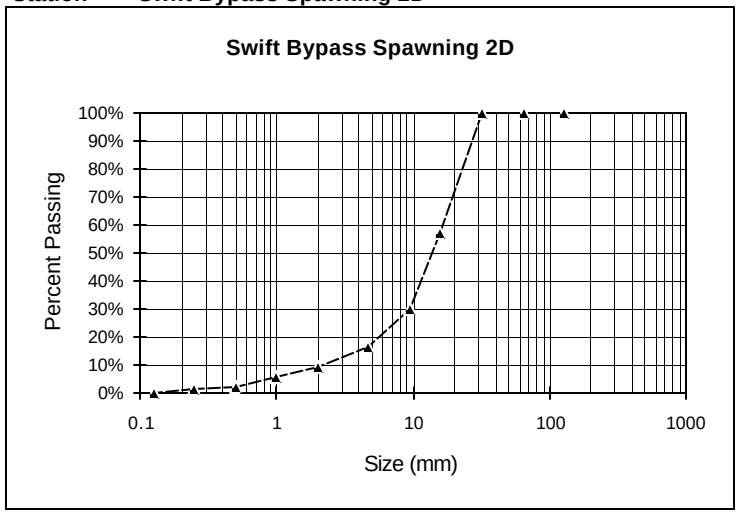


Sub-Armor Layer

Size (mm)	Weight (g)	Percent	Cum %	Avg size		
128	0	0%	100%	0	Grain Size Metrics	
64	0	0%	100%	0	D84	24.9
31.5	4,611	38%	100%	18.04715	D75	21.2
16	4,123	34%	62%	8.026332	D65	17.1
9.5	1,491	12%	28%	1.558217	D50	13.7
4.75	983	8%	16%	0.574088	D25	8.2
2	612	5%	8%	0.169303	D16	4.7
1	228	2%	3%	0.028033	Dg	28.4
0.5	97	1%	1%	0.005963	Sorting	2.6
0.25	43	0%	0%	0.001322	Fredle	10.9
0.125	8	0%	0%	0.000123	% finer than 2 mm	3.1%
0.063	2	0%	0%	1.54E-05	% finer than 1 mm	1.2%
0.003	2	0%	0%	5.41E-06		
pan	12,200			28	mm	
				0.0932	ft	

Lewis River Spawning Samples

Station **Swift Bypass Spawning 2D**

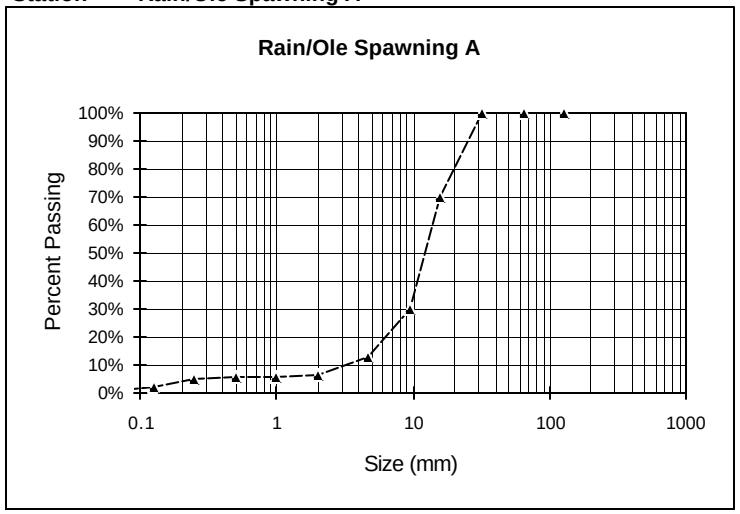


Sub-Armor Layer

Size (mm)	Weight (g)	Percent	Cum %	Avg size		
128	0	0%	100%	0	Grain Size Metrics	
64	0	0%	100%	0	D84	25.7
31.5	7,400	43%	100%	20.36599	D75	22.4
16	4,686	27%	57%	6.414553	D65	18.8
9.5	2,422	14%	30%	1.779856	D50	14.2
4.75	1,212	7%	16%	0.497723	D25	7.7
2	668	4%	9%	0.129942	D16	4.6
1	529	3%	6%	0.045735	Dg	29.2
0.5	184	1%	2%	0.007954	Sorting	2.9
0.25	196	1%	1%	0.004236	Fredle	10.0
0.125	37	0%	0%	0.0004	% finer than 2 mm	5.5%
0.063	10	0%	0%	5.42E-05	% finer than 1 mm	2.5%
0.003	6	0%	0%	1.14E-05		
pan	17,350			29.25	mm	
				0.0960	ft	

Lewis River Spawning Samples

Station **Rain/Ole Spawning A**

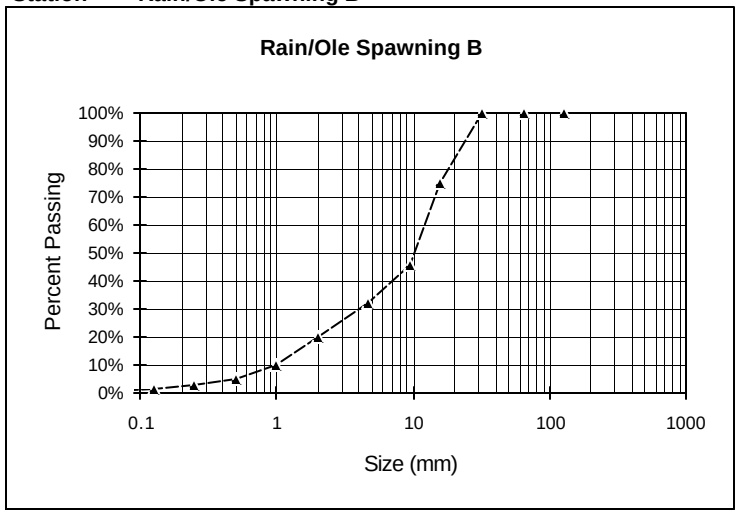


Sub-Armor Layer

Size (mm)	Weight (g)	Percent	Cum %	Avg size		
128	0	0%	100%	0	Grain Size Metrics	
64	0	0%	100%	0	D84	23.2
31.5	2,312	30%	100%	14.23755	D75	18.5
16	3,129	40%	70%	9.583924	D65	15.2
9.5	1,331	17%	30%	2.18858	D50	12.7
4.75	471	6%	13%	0.432793	D25	8.2
2	47	1%	7%	0.020457	D16	5.7
1	14	0%	6%	0.002708	Dg	26.5
0.5	47	1%	6%	0.004546	Sorting	2.3
0.25	216	3%	5%	0.010446	Fredle	11.7
0.125	136	2%	2%	0.003289	% finer than 2 mm	6.0%
0.063	35	0%	1%	0.000424	% finer than 1 mm	5.8%
0.003	16	0%	0%	6.81E-05		
pan	7,754			26.48	mm	
				0.0869	ft	

Lewis River Spawning Samples

Station **Rain/Ole Spawning B**

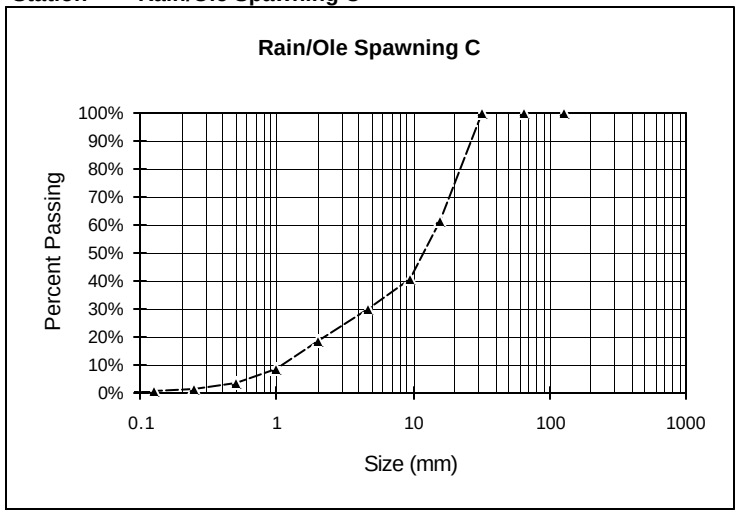


Sub-Armor Layer

Size (mm)	Weight (g)	Percent	Cum %	Avg size		
128	0	0%	100%	0	Grain Size Metrics	
64	0	0%	100%	0	D84	21.6
31.5	2,496	25%	100%	12.00604	D75	16.1
16	2,868	29%	75%	6.86159	D65	13.8
9.5	1,342	14%	46%	1.723633	D50	10.4
4.75	1,261	13%	32%	0.90507	D25	3.1
2	979	10%	20%	0.332842	D16	1.6
1	460	5%	10%	0.069507	Dg	21.9
0.5	218	2%	5%	0.01647	Sorting	5.1
0.25	182	2%	3%	0.006875	Fredle	4.3
0.125	72	1%	1%	0.00136	% finer than 2 mm	9.9%
0.063	24	0%	0%	0.000227	% finer than 1 mm	5.2%
0.003	25	0%	0%	8.31E-05		
pan	9,927			21.92	mm	
				0.0719	ft	

Lewis River Spawning Samples

Station **Rain/Ole Spawning C**

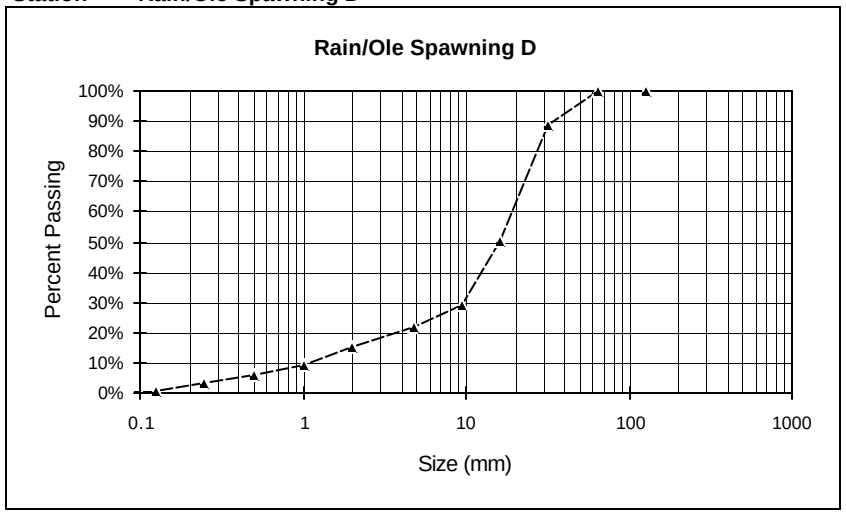


Sub-Armor Layer

Size (mm)	Weight (g)	Percent	Cum %	Avg size		
128	0	0%	100%	0	Grain Size Metrics	
64	0	0%	100%	0	D84	25.1
31.5	3,491	39%	100%	18.41936	D75	21.5
16	1,893	21%	61%	4.967818	D65	17.4
9.5	981	11%	41%	1.382072	D50	12.4
4.75	1,010	11%	30%	0.795166	D25	3.6
2	895	10%	19%	0.333771	D16	1.7
1	457	5%	9%	0.075746	Dg	26.0
0.5	173	2%	4%	0.014337	Sorting	6.0
0.25	100	1%	2%	0.004144	Fredle	4.4
0.125	29	0%	1%	0.000601	% finer than 2 mm	8.6%
0.063	9	0%	0%	9.35E-05	% finer than 1 mm	3.6%
0.003	12	0%	0%	4.38E-05		
pan	9,050			25.99	mm	
				0.0853	ft	

Lewis River Spawning Samples

Station **Rain/Ole Spawning D**



Sub-Armor Layer

Size (mm)	Weight (g)	Percent	Cum %	Avg size		
128	0	0%	100%	0	Grain Size Metrics	
64	1,411	11%	100%	10.67087	D84	29.5
31.5	4,869	38%	89%	18.31533	D75	25.9
16	2,681	21%	51%	5.016051	D65	21.8
9.5	957	8%	29%	0.961222	D50	15.8
4.75	862	7%	22%	0.483831	D25	6.7
2	715	6%	15%	0.1901	D16	2.4
1	422	3%	9%	0.049866	Dg	35.7
0.5	368	3%	6%	0.021743	Sorting	3.9
0.25	313	2%	3%	0.009246	Fredle	9.3
0.125	69	1%	1%	0.001019	% finer than 2 mm	9.4%
0.063	16	0%	0%	0.000118	% finer than 1 mm	6.1%
0.003	11	0%	0%	2.86E-05		
pan	12,694			35.72	mm	
				0.1172	ft	