

REQUEST FOR INDUSTRY INPUT AND QUOTE

“Nearshore Artificial Reef Construction and Deployment Services”

GENERAL INFORMATION

Purpose

The Louisiana Artificial Reef Program is seeking partnerships with qualified non-profit organizations per La R.S. 56:639.8 for the **potential** of creating a cooperative endeavor agreement for the design and placement of artificial reefs in nearshore Louisiana waters. In addition to designing the reef in accordance to the specifications below, this project must also include: providing the artificial reef material, loading and transporting material to the reef site, and deploying material within a permitted reef footprint.

Background

The Louisiana Artificial Reef Program (Program) is responsible for the planning, siting, material selection, permitting, and monitoring of artificial reef development. Nearshore reefs are those developed solely in waters between Louisiana’s coastline and 100 feet of water depth. These reefs can be utilized by a great number of Louisiana’s fishermen due to short travel distances and provide options to stay closer to shore during inclement weather conditions. The overall mission of the Program is to enhance fishing opportunities, reduce or eliminate conflict between user groups, and construct new reefs based on: siting criteria; input expressed by advisory organizations; the fishing public and other constituents; increase accessibility to fishing sites; have a net positive impact to fisheries; and increase fishing opportunities while keeping a management focus. Please see the Inshore and Nearshore Artificial Reef Plan (Appendix A) for additional background information.

Objective

LDWF intends to evaluate applications and potentially award a Cooperative Endeavor Agreement* to the organization with the most developed nearshore reef development plan (see Appendix B), competitive amounts of resources, and experience for the purpose of reef construction. Project plans that include deployment of materials in approved development zones (see Appendix C) will be considered a higher point of importance to the objective and will score higher in the Evaluation Criteria (Appendix D) than those that do not. Award amount will be subject to reef program allocation. All reasonable replies to the Request for Industry Input and Quote will be considered.

The Louisiana Artificial Reef Program requires that partners in Cooperative Endeavor Agreements provide matching funds that equal the amount awarded through some combination of dollars and in-kind donations. **Quotes without match will not eligible for a Cooperative Endeavor Agreement.**

Grant period

One year, but two-year grants may be considered.

Total Award Amount

Not to Exceed \$600,000.00

Use of Funds

Funds may be used as necessary to carry out the functions and tasks described in the Specifications for Reef Creation (Appendix E), including but not limited to salaries, equipment purchases, leases, and other operating costs.

Deliverables

- A detailed pre-deployment operations plan and a certified surveyor's plat will be required, with additional communications required throughout the project, as described in the Specifications for Reef Creation (Appendix E).
- A final report must be submitted within 60 days of project completion, and must include (at minimum) letter of completion, certified surveyor's plat, post project bottom contour and side-scan sonar survey, total expenses, quantity of material placed in reef site, location of material placed in reef site, problems that may have occurred and how they were addressed.

Performance

Performance will be monitored by the Artificial Reef Program staff, through on-site visits during deployment, to ensure the placement of reef material is in compliance with the USACE permit. Meetings, e-mails, and phone calls throughout the duration of reef creation may also be necessary. Performance will be measured by completeness and timeliness of deliverables.

Minimum Qualifications of Applicant/Execution of Reef Development

- Applicants must submit a detailed Reef Development Plan for proposed nearshore artificial reefs as described in Appendix B and adhere to all specifications outlined in Appendix E.
- Applicants may propose any materials that are clean and meet criteria listed in Section 4.2 of the Inshore Nearshore Artificial Reef Plan siting factors (Appendix A).
- Applicant, if selected, must agree to enter into a Cooperative Endeavor Agreement with LDWF.
 - The Cooperative Endeavor Agreement requires matching funds equal to the award; both cash and in-kind donations are eligible to be matching funds.

Experience and Understanding

All applicants should submit detailed information and quote outlining their background, qualifications, and experiences of their organization, partnering organizations, and/or planned contractors. Please include a detailed summary of all cooperating parties experienced in this type of work.

Describe your qualifications to demonstrate your ability to implement and administer the project.

- a) Provide previous partnerships where similar artificial reef projects were performed and references for partnerships.
- b) Include number of years of involvement in artificial reef construction projects successfully completed
- c) Documentation of non-profit status

Budget

A quote should be included and itemized in a statement of fees. Provide a detailed outline of pricing for:

- Artificial reef material cost (cost per unit: cost per ton or cubic yard if using limestone or concrete rubble; cost per reef unit is using pre-constructed reef units)
- Loading and transportation (list over land and on water separately)
- Deployment
- Preliminary Biological assessment cost, if NOT located in permit area
- Administration costs
- In-kind donations (if applicable)
- Matching funds
- Post deployment certified surveyor's plat and as-built drawings

EVALUATION AND SELECTION

Evaluation Team

The evaluation of applications will be accomplished by an evaluation team, to be designated by the LDWF Office of Fisheries, Artificial Reef Program, according to the scoring criteria described below.

Evaluation Criteria

All applications will be reviewed to determine compliance with requirements described in the Inshore and Nearshore Artificial Reef Plan (Appendix A), the specifications sheet (Appendix E) and Development Plan (Appendix B). Applications found not to be in compliance, such as proposing the use of unacceptable reef material or describing an unsafe clearance at the proposed site, will be rejected from further consideration. Application which do not include matching funds will be rejected from further consideration.

Evaluation of the budget will be scored using a fixed budget approach. The cost per ton deployed of proposed projects will be compared to the average deployment cost (cost per ton deployed) of artificial reef projects created using similar material types completed by LDWF in the past 5 years.

The Evaluation Team will evaluate and score the applications using the following criteria and scoring detailed in Appendix D and specified in the following table:

Evaluation Scoring

Criteria	Maximum Score
Location	15
Habitat	5
Material	20
User Group Consideration	10
Deployment Plan	15
Schedule of Operations	5
Available Resources	5
Experience and Understanding	30
Budget	10
Total Score	115

Please note, after the Evaluation Team scores the applications, **it is not guaranteed the highest scoring, or any applicant will be selected to enter into a Cooperative Endeavor Agreement.**

RESPONSE INSTRUCTIONS

Document Submission

If you are interested in providing information for this RFIQ, please submit responses by **June 15th, 2020 at 2:00 p.m.** Responses can be emailed to mmcdonough@wlf.la.gov with the title “Nearshore Artificial Reef Construction and Deployment Services” as the subject line.

Responses may also be submitted in writing and delivered by hand, Fed Ex, or mail. All interested parties mailing their documents should mail to:

Mike McDonough, Room 327
The Louisiana Department of Wildlife and Fisheries
2000 Quail Drive
Baton Rouge, LA 70808
mmcdonough@wlf.la.gov
225-763-5418

It is solely the responsibility of the applicant to assure that their documents are delivered at the specified place and prior to the deadline for submission. **Submissions which for any reason are not received timely will not be considered.**

ADMINISTRATIVE INFORMATION

All questions should be directed to Mike McDonough, 225-763-5418 mmcdonough@wlf.la.gov

Appendix B

Nearshore Reef Development Plan

Development Plan must include detailed descriptions of:

Location

- Water body, Parish
- Latitude and Longitude of reef center point
- Water depth and reef clearance
- Name of deployment zone, if reef will be deployed within one
- Describe impacts to any nearby biologically sensitive areas such as wetlands/water bottoms.

Habitat

- Discuss the habitat in the area and how the reef design will best suit the environment. Include salinity, temperature, oxygen levels, potential pollutants, current, substrate, storm events, and descriptions of nearby biologically sensitive areas.
- Why is the proposed project needed?

Material

- Provide detailed description, inventory, and source of material that is to be used in reef creation.
- Provide a drawing of material design and layout in drawing form. Include the site's acreage, height of material and water depth.
- Include a concise itemized description of material type to be submitted. Include the weight, size, number, and pictures (if possible). Include, at minimum, the following:
 - **Complexity and High Surface area:** Identify the external surface area of material to be deployed, as well as surface area of coverage in permitted area. *Weight per unit.* Identify the weight of each unit of material, or average weight per unit if there is variability between units, and total weight (in tons) of the proposed project.
 - **Stability/Durability:** Demonstrate stability and durability of the material type.
 - **Tendency to subside:** Demonstrate the tendency of each material unit to subside and how the reef design or material used may counter these effects.
 - **Provide cost per ton of material, deployed:** Demonstrate the total cost per ton, from acquisition and transportation to deployment.

User Group Consideration (including conversation groups, oil and gas interests, commercial groups and recreation groups)

- Describe benefits to user groups
- Describe impacts to user groups

Deployment plan

- Directions to staging area of material for on-site material inspection
- Description of vessels and equipment needed to deploy
- Navigation route of vessels from staging area to reef location
 - Transportation of material should be loaded in a manner, as not to damage water bottoms over which they pass.
- Describe step-by-step tasks of procuring, loading, transporting, handling, and deploying the selected materials through the time the material is placed on the bottom.
- Describe how the material placement will be in compliance with Coast Guard standards to allow for its safe transport to the reef construction site and preventing damage of natural resources.
- Describe the proposed anchoring system for the vessel and the proposed method to deploy the material
- Describe any coordination required with subcontractors.

Schedule of Operations

- Provide the total number of estimated days at sea and associated vessel loading days that will be required to complete the project.
- Provide number of days to manufacture material if it is not already made.
- Provide a schedule factoring in weather, availability of equipment, materials, and other commitments commencing from the anticipated date of Contract execution to estimated completion of the operation.
- Specifications (load capacity, vessel type, etc.) of the tugboat and/or other support vessels that will deploy the material and the port they will be leaving from.
- Provide a weather contingency plan

Appendix C

Approved Deployment Zones

The centerpoints and water depths for the deployment zones are in Table 1. All material must be deployment within 1400' of this centerpoint.

Table 1:

Platform	OCS Area	Block #	Latitude	Longitude	Water Depth (feet)
EI-100 28	EI	100	29.0703729	-91.4718908	23
EI-100 36	EI	100	29.05739	-91.449665	23
EI-100 4	EI	100	29.059551	-91.4442	23
EI-100 7	EI	100	29.063181	-91.444204	23
EI-100 A-TK	EI	100	29.06096	-91.446298	23
VR-100 A	VR	100	29.1708294	-92.5378591	62
VR-101 1	VR	101	29.188604	-92.5943282	62
VR-101 9	VR	101	29.170027	-92.604759	68
VR-101 B	VR	101	29.180888	-92.60864	65
VR-102 5	VR	102	29.148264	-92.616166	67
VR-102 A	VR	102	29.1569634	-92.6062456	65
VR-102 B	VR	102	29.1565748	-92.5961403	60
EC-104 A	EC	104	29.198463	-92.837266	62
EC-104 A	EC	104	29.1817894	-92.8643836	64
EC-104 A-AUX	EC	104	29.199073	-92.837535	62
EC-106 A	EC	106	29.164561	-92.75074	65
EC-106 B	EC	106	29.164561	-92.75074	65
SM-11 16	SM	11	28.965548	-91.986356	70
SM-11 50	SM	11	28.965708	-91.999371	68
SM-11 52	SM	11	28.975835	-92.005939	75
SM-11 A	SM	11	28.970174	-92.007293	70
SM-11 B	SM	11	28.961824	-91.983793	68
SM-11 C	SM	11	28.962157	-91.98317	70
SM-11 L	SM	11	28.958763	-91.979897	70
VR-114 A	VR	114	29.0997945	-92.2696346	56
VR-114 B	VR	114	29.128559	-92.274021	70
VR-114 C	VR	114	29.103361	-92.268538	70
VR-115 2	VR	115	29.103691	-92.314553	59
VR-115 A	VR	115	29.1192557	-92.3378101	56
VR-115 B	VR	115	29.1134243	-92.3126531	55

VR-115 PLTF.C	VR	115	29.0994976	-92.3351488	61
VR-116 3	VR	116	29.125656	-92.384072	61
EC-118 A	EC	118	29.1392963	-92.9895491	70
EC-118 B	EC	118	29.141403	-92.970992	65
EC-118 C	EC	118	29.141619	-92.984444	67
VR-119 D	VR	119	29.095124	-92.517162	71
VR-119 G	VR	119	29.12059	-92.502505	69
EC-121 2	EC	121	29.101627	-92.893071	75
EC-121 A	EC	121	29.08508	-92.870765	77
EC-121 B	EC	121	29.1074997	-92.8916336	73
EC-122 2	EC	122	29.087448	-92.863299	77
EC-122 B	EC	122	29.0811887	-92.8618516	78
VR-122 A	VR	122	29.058724	-92.606962	77
VR-122 A-PRD	VR	122	29.059162	-92.606079	77
VR-122 B	VR	122	29.0730782	-92.5921424	76
VR-124 E	VR	124	29.087152	-92.50521	70
VR-124 F	VR	124	29.08403	-92.525854	75
VR-124 H	VR	124	29.086695	-92.517148	73
VR-124 I	VR	124	29.079603	-92.528772	70
EC-128 1	EC	128	29.058216	-92.628712	76
EC-129 A	EC	129	29.049849	-92.64173	65
EC-129 A(SEAHORSE)	EC	129	29.0568782	-92.6686438	81
EI-129 1	EI	129	28.968973	-91.615885	52
EI-129 9	EI	129	28.969393	-91.632331	50
EI-129 B	EI	129	28.96556	-91.6297	52
EI-129 CF PROD	EI	129	28.959632	-91.62452	45
EI-129 FH	EI	129	28.959633	-91.623895	45
EI-129A 1	EI	129A	28.95039	-91.639281	55
VR-131 14	VR	131	29.06891	-92.162159	57
VR-131 5	VR	131	29.068041	-92.172487	56
VR-131 8	VR	131	29.073015	-92.168781	55
VR-131 A	VR	131	29.0652778	-92.1755556	57
VR-131 E	VR	131	29.0552703	-92.175826	60
EC-14 1	EC	14	29.582595	-92.896584	33
EC-14 1	EC	14	29.595676	-92.901823	32
EC-14 3	EC	14	29.598944	-92.909326	32

EC-14 5	EC	14	29.592005	-92.891382	33
EC-140 A	EC	140	29.0177755	-92.845293	82
VR-144 C	VR	144	28.9786406	-92.5172387	90
VR-144 JA	VR	144	28.967144	-92.502197	90
VR-144 JB	VR	144	28.97127	-92.484142	88
VR-147 A	VR	147	28.986277	-92.380448	82
VR-148 A	VR	148	28.972955	-92.332246	80
EC-149 A	EC	149	28.9781644	-92.7331065	83
EC-151 A	EC	151	28.976704	-92.839667	80
EC-151 B(FMR CAIS.#3)	EC	151	28.9616706	-92.8541853	78
EC-151 C	EC	151	28.9760546	-92.856479	80
EC-152 A	EC	152	28.9839385	-92.9040441	82
VR-156 A	VR	156	28.964084	-92.348496	83
VR-156 JA	VR	156	28.9410996	-92.3530658	86
EI-158 10	EI	158	28.815343	-91.752318	82
VR-159 CJ	VR	159	28.9637423	-92.5107036	89
EC-160 2	EC	160	28.937789	-92.739117	84
EC-160 A	EC	160	28.939063	-92.746616	85
EC-160 C	EC	160	28.950794	-92.73882	84
VR-160 AJ	VR	160	28.964141	-92.528813	89
VR-160 BJ	VR	160	28.9348749	-92.5339144	93
EC-161 A	EC	161	28.9485458	-92.7243788	85
VR-161 5	VR	161	28.933008	-92.577799	85
VR-161 A	VR	161	28.936516	-92.596802	90
VR-161 BJ	VR	161	28.941362	-92.587293	93
VR-171 8	VR	171	28.914133	-92.162469	89
VR-171 9	VR	171	28.9159626	-92.2016114	85
VR-171 A	VR	171	28.904148	-92.162385	85
WC-171 6	WC	171	29.378884	-93.248724	44
WC-171 B	WC	171	29.377115	-93.269468	38
WC-171 B- AUX1	WC	171	29.37712	-93.269154	38

WC-171 B-AUX2	WC	171	29.377111	-93.269781	38
WC-171 C	WC	171	29.399652	-93.283203	45
WC-171 C-AUX1	WC	171	29.399656	-93.282889	45
EI-175 B	EI	175	28.790828	-91.731624	85
EI-175 E	EI	175	28.790292	-91.732474	85
EC-178 D	EC	178	28.865737	-92.7377911	92
EC-185 A	EC	185	28.819245	-92.736523	95
EC-185 B	EC	185	28.8319003	-92.7602888	95
EC-185 C	EC	185	28.8234702	-92.7422364	96
VR-191 A	VR	191	28.839942	-92.171524	95
VR-191 D	VR	191	28.846981	-92.167434	96
WC-192 1	WC	192	29.314488	-93.016139	55
WC-192 A	WC	192	29.293836	-93.055838	56
WC-192 A	WC	192	29.317861	-93.034767	55
WC-192 B	WC	192	29.294182	-93.013211	68
WC-192 B-AUX	WC	192	29.294179	-93.013427	68
EC-196 A	EC	196	28.7753867	-92.7583196	100
EI-199 1	EI	199	28.693966	-91.759486	105
EI-199 4	EI	199	28.704207	-91.769166	113
EI-199 6	EI	199	28.700684	-91.757003	113
EI-199 A-GEN	EI	199	28.704454	-91.764333	108
EC-2 1	EC	2	29.654961	-92.983444	28
EC-2 3	EC	2	29.6577342	-93.0138879	30
EC-2 A	EC	2	29.6594537	-93.0037211	28
WC-20 1	WC	20	29.690577	-93.605951	28
WC-20 10	WC	20	29.696864	-93.57994	28
WC-20 4	WC	20	29.691144	-93.605601	28
WC-20 6	WC	20	29.691639	-93.584098	28
WC-20 7	WC	20	29.69161	-93.577438	28
WC-20 8	WC	20	29.690971	-93.58774	28
EC-200 1	EC	200	28.742673	-92.624001	110
EC-201 1	EC	201	28.742741	-92.65011	106
VR-201 5	VR	201	28.763296	-92.598729	105
VR-201 A	VR	201	28.787875	-92.608532	83

VR-201 B	VR	201	28.7633117	-92.5854252	110
EC-213 A	EC	213	28.691577	-92.783729	111
EC-213 B	EC	213	28.69831	-92.7851358	113
SM-217 17	SM	217	29.448097	-92.06561	14
SM-217 25	SM	217	29.45325	-92.056727	14
SM-217 27	SM	217	29.433559	-92.053928	14
SM-217 69	SM	217	29.459025	-92.066623	15
SM-217 7	SM	217	29.437113	-92.061709	14
SM-217 72	SM	217	29.439748	-92.061556	14
SM-217 8	SM	217	29.450378	-92.057966	14
SM-217 86	SM	217	29.444828	-92.062988	12
VR-217 A	VR	217	28.691206	-92.41144	121
VR-217 C	VR	217	28.701479	-92.429607	121
VR-217 F	VR	217	28.6901194	-92.4141821	123
SM-218 19	SM	218	29.445676	-92.073632	14
SM-218 43	SM	218	29.429607	-92.07412	14
SM-218 74	SM	218	29.447023	-92.080513	14
SM-218 79	SM	218	29.44841	-92.078289	12
SM-218 B-PRD	SM	218	29.44614	-92.078097	14
VR-218 B	VR	218	28.691844	-92.444421	120
VR-221 A	VR	221	28.704697	-92.600393	111
VR-226 A	VR	226	28.655885	-92.43103	122
VR-226 C	VR	226	28.645746	-92.401389	125
VR-226 D	VR	226	28.6712219	-92.4072768	118
SM-233 1	SM	233	29.322901	-92.143644	19
SM-233 3	SM	233	29.320185	-92.13323	17
SM-233 A	SM	233	29.3228	-92.157268	13
SM-234 14	SM	234	29.3231971	-92.0839848	20
SM-234 2	SM	234	29.340671	-92.069989	19
SM-234 B	SM	234	29.3231971	-92.0839848	20

SM-235 #1	SM	235	29.3264623	-92.0564916	19
SM-235 #2	SM	235	29.3264678	-92.0564916	19
SM-235 A	SM	235	29.312735	-92.054313	20
SM-235 A	SM	235	29.323923	-92.066082	19
SM-238 133	SM	238	29.334093	-91.896086	23
SM-239 179	SM	239	29.3321678	-91.868641	20
SM-243 6	SM	243	29.295333	-91.9965	23
SM-243 A	SM	243	29.282017	-92.000477	23
SM-243 B	SM	243	29.285785	-92.016343	28
VR-245 1	VR	245	28.576045	-92.450273	126
VR-245 A	VR	245	28.576156	-92.44401	131
VR-245 B	VR	245	28.585141	-92.449941	126
SM-249 A-PRD	SM	249	29.248935	-92.032815	27
SM-249 CA	SM	249	29.249257	-92.032817	27
SM-252 3	SM	252	29.25011	-91.906026	20
SM-252 A	SM	252	29.243205	-91.896571	23
SM-253 3	SM	253	29.2562156	-91.854788	23
SM-253 A	SM	253	29.238666	-91.881296	23
SM-253 B	SM	253	29.238539	-91.881455	23
EI-28 1	EI	28	29.3032542	-91.7147569	12
EI-28 4	EI	28	29.301669	-91.715061	15
EI-30 2(PLTF.B	EI	30	29.3059892	-91.6503944	12
EI-30 C	EI	30	29.3005199	-91.6513151	14
EI-30 JA	EI	30	29.298483	-91.627259	13
VR-31 10	VR	31	29.442569	-92.194759	17
VR-31 20	VR	31	29.439099	-92.187919	14
VR-31 4	VR	31	29.452953	-92.182587	14
VR-31 5	VR	31	29.44666	-92.198665	14
VR-31 7	VR	31	29.453592	-92.189927	15
EI-32 15	EI	32	29.304767	-91.523262	12
EI-32 18	EI	32	29.297332	-91.531561	12
EI-32 19	EI	32	29.295965	-91.526539	12
EI-32 6	EI	32	29.305461	-91.539013	12
EI-32 9	EI	32	29.31576	-91.52893	12
WC-368 3	WC	368	28.910451	-93.297781	75

WC-368 4	WC	368	28.911424	-93.285367	75
WC-368 A	WC	368	28.908738	-93.301739	75
WC-368 B	WC	368	28.908463	-93.301734	75
EI-42 4	EI	42	29.253928	-91.569362	14
EI-42 A	EI	42	29.253058	-91.575926	14
EI-42 B	EI	42	29.253092	-91.575151	14
WC-45 12	WC	45	29.688885	-93.576753	28
WC-45 13	WC	45	29.688851	-93.579549	28
WC-45 17	WC	45	29.6883385	-93.5765235	30
WC-45 18	WC	45	29.673147	-93.604661	32
WC-45 19	WC	45	29.6710258	-93.6075571	35
WC-45 5	WC	45	29.676258	-93.603553	28
WC-45 B	WC	45	29.65029	-93.594173	30
WC-45 Cais.#2	WC	45	29.6502367	-93.5807892	35
EI-51 1	EI	51	29.24747	-91.700746	20
EI-51 B	EI	51	29.236865	-91.684347	17
EI-51 C	EI	51	29.247322	-91.697804	22
VR-51 A	VR	51	29.3836241	-92.1653225	18
VR-52 6	VR	52	29.327227	-92.168439	15
VR-52 7	VR	52	29.327271	-92.16163	15
VR-52 A	VR	52	29.32629	-92.174765	18
EI-57 2	EI	57	29.247439	-91.387139	10
EI-57 3	EI	57	29.239723	-91.393914	14
EI-58 1	EI	58	29.23963	-91.377196	10
EI-58 2	EI	58	29.24733	-91.378909	12
SM-6 A	SM	6	28.995896	-92.016082	65
SM-6 B	SM	6	28.983665	-92.012656	68
SM-6 C	SM	6	29.00991	-92.015511	65
VR-60 4	VR	60	29.343572	-92.57286	45
EI-63 5	EI	63	29.172336	-91.541895	22
SM-66 A	SM	66	28.644486	-91.948401	128
SM-66 C-Aux- ROW	SM	66	28.6470678	-91.9367405	129
SM-66 E	SM	66	28.6115871	-91.9697283	134
WC-68 B	WC	68	29.6313309	-93.0494156	33
WC-68 D	WC	68	29.631194	-93.028414	28
VR-69 1	VR	69	29.2939159	-92.264395	22

VR-69 2	VR	69	29.294816	-92.282605	20
VR-69 A	VR	69	29.295887	-92.276786	20
VR-70 CAIS.#1	VR	70	29.3070282	-92.2135952	20
VR-71 1	VR	71	29.316233	-92.170143	15
VR-71 9	VR	71	29.32171	-92.171108	14
VR-71 A	VR	71	29.2943349	-92.1887105	20
EI-74 2	EI	74	29.140762	-91.639243	16
EI-74 3	EI	74	29.136275	-91.635524	18
EI-74 4	EI	74	29.136839	-91.629105	18
EI-74 A	EI	74	29.140763	-91.63893	16
EC-82 4 B	EC	82	29.3041453	-92.9915083	55
EC-82 A	EC	82	29.3196565	-93.0049319	55
EC-82 C	EC	82	29.2845908	-93.0046683	55
EC-82 D	EC	82	29.2878157	-92.9976478	43
EC-88 15	EC	88	29.2747997	-92.7339461	59
EC-88 A	EC	88	29.276852	-92.740803	58
EC-88 D #2	EC	88	29.2630095	-92.745966	59
EI-88 3	EI	88	29.089914	-91.704976	18
EI-88 4	EI	88	29.09105	-91.706686	17
EI-88 4	EI	88	29.1040284	-91.7071824	12
EI-88 A	EI	88	29.0913613	-91.7093424	20
EC-89 6	EC	89	29.272241	-92.729676	60
EC-89 C	EC	89	29.272241	-92.7296761	60
EC-89 CAIS.#17	EC	89	29.2600867	-92.7066855	60
EI-89 11	EI	89	29.122272	-91.731135	30
EI-89 13	EI	89	29.11799	-91.737607	30
EI-89 21	EI	89	29.099939	-91.711879	30
EI-99 1	EI	99	29.0835729	-91.4782919	25
EI-99 A	EI	99	29.076088	-91.485236	25
EI-99 B	EI	99	29.075439	-91.480653	25
BM-3 28	BM	3	29.03158338	90.16733382	42
GI-26 14	GI	26	29.06434500	90.11972500	24
GI-37 Z	GI	37	29.02744100	90.12026000	50
GI-37 GG	GI	37	29.02015600	90.10912300	54
GI-26 CB	GI	26	29.06708877	-	45

				90.11451480	
GI-47 6	GI	47	28.94275100	-	100
GI-37 22	GI	37	29.03524000	90.12562000	50
GI-26 BB	GI	26	29.05350600	90.10787500	47
GI-47 C	GI	47	28.96040400	90.02349600	88
GI-37 17	GI	37	29.01365740	90.12497195	54
GI-37 Y	GI	37	29.03777700	90.11004100	47
GI-26 1	GI	26	29.07182500	90.11172200	42
GI-37 CO	GI	37	29.03408500	90.12203600	50
GI-26 CH	GI	26	29.06560248	90.11702117	44
GI-37 21	GI	37	29.01977700	90.10881700	54
GI-37 FLR	GI	37	29.02743047	90.11900905	50
GI-26 15	GI	26	29.05359400	90.10785500	47
GI-37 FLR	GI	37	29.02743047	90.11900905	50
GI-47 C-AUX	GI	47	28.96078346	90.02344742	90
GI-37 YA	GI	37	29.03781800	90.11040100	47
GI-22 C	GI	22	29.12723200	89.95944800	53
GI-26 CAIS.#40	GI	26	29.05291056	90.10973139	41
GI-37 CZ	GI	37	29.02743800	90.11994800	50
PL-5 21	PL	5	28.99963095	90.53170437	34
PL-5 18	PL	5	29.01384922	90.51897781	31
PL-5 8	PL	5	28.99303917	90.52552750	38
SP-28 220	SP	28	28.98269800	89.25561700	50

SP-28 58	SP	28	28.97442200	89.23622800	-	40
SP-28 58	SP	28	28.97442200	89.23622800	-	40
SP-28 69	SP	28	28.97803200	89.23360000	-	36
SP-28 58	SP	28	28.97442200	89.23622800	-	40
SP-28 58	SP	28	28.97442200	89.23622800	-	40
SP-28 89	SP	28	28.96573200	89.22418700	-	35
SS-113 51	SS	113	28.85998000	90.85116100	-	50
SS-94 A	SS	94	28.87680800	90.85095900	-	27
SS-94 19	SS	94	28.86845300	90.85075500	-	30
SS-94 S	SS	94	28.86363300	90.85070000	-	38
SS-120 5	SS	120	28.80491000	90.98634800	-	47
SS-120 5	SS	120	28.80491000	90.98634800	-	47
SS-120 5	SS	120	28.80906200	90.94529900	-	41
SS-120 5	SS	120	28.80906200	90.94529900	-	41
SS-94 1	SS	94	28.87479300	90.84752200	-	45
SS-97 A	SS	97	28.87586400	91.02196400	-	29
SS-113 47	SS	113	28.83995000	90.87526500	-	47
SS-113 45	SS	113	28.83897600	90.87586000	-	45
SS-113 52	SS	113	28.83359900	90.88027200	-	47
SS-99 1	SS	99	28.88383462	91.09198752	-	25
SS-97 1	SS	97	28.89047967	91.01688843	-	23
SS-108 36	SS	108	28.85223959	91.12688726	-	22
SS-114 23	SS	114	28.85885200	90.83365600	-	51

SS-169 H(FORMER WG#9)	SS	169	28.66363400	91.01574700	-	56
SS-94 17	SS	94	28.86480500	90.85472400	-	32
SS-108 32	SS	108	28.84692816	91.13477141	-	21
SS-108 39	SS	108	28.84412449	91.12496449	-	21
SS-94 14	SS	94	28.86884600	90.85446100	-	29
SS-94 6	SS	94	28.87148300	90.84624800	-	29
SS-113 48	SS	113	28.83947600	90.87798700	-	47
SS-94 AA	SS	94	28.88219016	90.84845220	-	25
SS-169 7	SS	169	28.65241600	90.99606700	-	65
SS-99 2	SS	99	28.86559400	91.12092500	-	20
SS-94 20	SS	94	28.86553200	90.84620200	-	50
SS-93 39	SS	93	28.88350000	90.83814800	-	45
SS-120 3	SS	120	28.79150300	90.98801700	-	35
SS-120 3	SS	120	28.80577800	90.95068400	-	42
SS-120 3	SS	120	28.79150300	90.98801700	-	35
SS-120 3	SS	120	28.80577800	90.95068400	-	42
SS-113 40	SS	113	28.83365500	90.84717100	-	46
SS-108 23	SS	108	28.84368300	91.13120800	-	21
SS-94 8	SS	94	28.87018100	90.85835900	-	29
SS-99 7	SS	99	28.88759271	91.10050797	-	20
SS-120 7	SS	120	28.79482400	90.97734000	-	40
SS-114 U	SS	114	28.83082000	-	-	40

				90.84196400	
SS-114 58	SS	114	28.82636402	-	53
SS-169 A	SS	169	28.66005200	90.84089867	54
SS-94 9	SS	94	28.86695000	-	32
SS-94 2	SS	94	28.86437200	90.86227900	51
SS-120 5	SS	120	28.80491000	-	47
SS-120 5	SS	120	28.80491000	90.98634800	47
SS-120 5	SS	120	28.80906200	-	41
SS-120 5	SS	120	28.80906200	90.94529900	41
SS-93 62	SS	93	28.86329300	-	30
SS-99 A	SS	99	28.88663543	90.84296100	17
SS-108 CAIS.#43	SS	108	28.83671056	-	22
SS-98 2	SS	98	28.87023344	91.12055797	28
SS-99 E	SS	99	28.89304905	-	13
SS-108 21	SS	108	28.84409500	91.10868158	22
SS-120 3	SS	120	28.79150300	-	35
SS-120 3	SS	120	28.80577800	90.98801700	42
SS-120 3	SS	120	28.79150300	-	35
SS-120 3	SS	120	28.80577800	90.98801700	42
SS-120 4	SS	120	28.80339400	-	40
SS-120 4	SS	120	28.80113600	90.97095300	40
SS-120 4	SS	120	28.80113600	-	40
SS-120 4	SS	120	28.80113600	90.95429500	40
SS-120 4	SS	120	28.80339400	-	40
SS-120 4	SS	120	28.80339400	90.95429500	40

SS-114 51	SS	114	28.84045500	90.83815700	-	50
SS-120 4	SS	120	28.80339400	90.97095300	-	40
SS-120 4	SS	120	28.80113600	90.95429500	-	40
SS-120 4	SS	120	28.80113600	90.95429500	-	40
SS-120 4	SS	120	28.80339400	90.97095300	-	40
SS-113 N	SS	113	28.86216900	90.85278100	-	50
SS-93 63	SS	93	28.88382930	90.81842970	-	28
SS-98 1	SS	98	28.88572900	91.08765300	-	17
SS-94 15	SS	94	28.86853200	90.86096000	-	30
SS-108 16	SS	108	28.85380600	91.10947500	-	22
SS-99 4	SS	99	28.86558600	91.11624000	-	20
SS-169 A-AUX1	SS	169	28.66005100	91.00804300	-	54
SS-99 3	SS	99	28.86560200	91.12561000	-	20
SS-120 6	SS	120	28.79956186	90.96154929	-	40
ST-77 6	ST	77	28.76463984	90.63674301	-	60
ST-54 C	ST	54	28.83020300	90.40768500	-	65
ST-63 J	ST	63	28.80751854	90.21960963	-	86
ST-72 B	ST	72	28.80818431	90.60811717	-	60
ST-23 SA	ST	23	29.02878100	90.18342400	-	43
ST-86 3	ST	86	28.75935000	90.23411800	-	92
ST-34 F	ST	34	28.91928404	90.47294193	-	53
ST-63 #22	ST	63	28.81399700	90.21732700	-	84
ST-63 I	ST	63	28.80243100	-	-	90

				90.22770400	
ST-72 3	ST	72	28.81086800	-	62
ST-86 C	ST	86	28.76616900	-	92
ST-51 10	ST	51	28.88221600	90.48577400	60
ST-63 23	ST	63	28.81675400	-	87
ST-63 K	ST	63	28.79488460	90.21025296	96
ST-23 DD	ST	23	28.99482500	-	53
ST-63 21	ST	63	28.80915796	90.21356273	86
ST-165 E	ST	165	28.57937700	-	91
ST-172 B	ST	172	28.55443200	90.60678400	99
ST-34 4	ST	34	28.93256800	-	52
ST-77 B	ST	77	28.76912900	90.62353600	63
ST-34 11	ST	34	28.92718000	-	52
ST-34 D	ST	34	28.94157493	90.49866382	47
ST-54 A	ST	54	28.83246800	-	67
ST-34 8	ST	34	28.93780700	90.48036100	50
ST-72 CAIS.#16	ST	72	28.80968569	-	60
ST-51 4	ST	51	28.87552300	90.48749200	58
ST-55 F	ST	55	28.85097300	-	65
ST-77 C	ST	77	28.77700508	90.61260438	63
ST-51 CD	ST	51	28.90378909	-	57
ST-63 H	ST	63	28.80181196	90.21956936	92
ST-72 21	ST	72	28.80982895	-	64

ST-72 7	ST	72	28.82188300	90.60693800	-	60
ST-34 2	ST	34	28.91964300	90.47399200	-	52
ST-77 A	ST	77	28.77751100	90.61260100	-	63
ST-86 12	ST	86	28.78009500	90.23045500	-	92
ST-51 4 (29 & 29D)	ST	51	28.90832100	90.49027900	-	58
ST-86 A	ST	86	28.77890500	90.23409800	-	92
ST-54 A-QTR	ST	54	28.83274300	90.38998700	-	67
ST-77 5	ST	77	28.77691644	90.60606658	-	63
ST-86 18	ST	86	28.77187500	90.20724700	-	100
ST-72 CAIS.#17	ST	72	28.82202012	90.60684998	-	60
ST-34 6	ST	34	28.91903600	90.49059300	-	52
ST-54 2	ST	54	28.84583700	90.38674200	-	65
ST-63 15	ST	63	28.79787200	90.23617400	-	86
ST-63 18	ST	63	28.79545904	90.23860355	-	92
ST-72 CAIS#18	ST	72	28.81095024	90.62905854	-	62
ST-77 4	ST	77	28.77746450	90.60572557	-	68
ST-34 9	ST	34	28.91340700	90.49440000	-	53
ST-86 23	ST	86	28.77593500	90.23047600	-	100
ST-23 6	ST	23	29.01966700	90.15601800	-	48
ST-51 5 (30 & 30D)	ST	51	28.90835700	90.49038200	-	58
WD-58 E	WD	58	29.02064752	89.53151408	-	49
WD-32 Q	WD	32	29.12866200	-	-	56

				89.67938800	
WD-32 4	WD	32	29.12898100	89.70074700	61
WD-32 4	WD	32	29.12898100	89.70074700	61
WD-32 4	WD	32	29.14663900	89.68727800	52
WD-32 4	WD	32	29.14663900	89.68727800	52
WD-24 TEST-OIL	WD	24	29.17783400	89.54122900	30
WD-35 8	WD	35	29.15421700	89.78332500	61
WD-18 A	WD	18	29.17726800	89.73839700	30
WD-18 C	WD	18	29.17787400	89.73739800	20
WD-23 16	WD	23	29.18382700	89.55710500	30
WD-23 15	WD	23	29.17998200	89.55748700	30
WD-24 3(Removed)	WD	24	29.17510200	89.54393500	30
WD-23 3-PWR	WD	23	29.17835982	89.55248251	25
WD-79 E	WD	79	28.97758000	89.52053700	90
WD-35 1	WD	35	29.16157100	89.78651700	59
WD-35 A	WD	35	29.13745200	89.79213200	66
WD-32 U	WD	32	29.12508500	89.68006400	57
WD-32 1	WD	32	29.13106500	89.69916000	61
WD-32 1	WD	32	29.13106500	89.69916000	61
WD-23 JA	WD	23	29.18194700	89.55175100	24
WD-23 3-CMP	WD	23	29.17867871	89.55327910	25
WD-35 C	WD	35	29.13747300	89.79209400	66

WD-30 G	WD	30	29.14962600	89.61666900	-	39
WD-32 12	WD	32	29.13810700	89.69597600	-	63
WD-32 18	WD	32	29.14640100	89.69028000	-	55
WD-32 C	WD	32	29.13493700	89.70708700	-	59
WD-23 2	WD	23	29.17678600	89.56522000	-	30
WD-23 3-PRD	WD	23	29.17795696	89.55178142	-	25
WD-58 D	WD	58	29.02019800	89.53123400	-	70
WD-59 2	WD	59	29.00395659	89.55617913	-	60
WD-32 6	WD	32	29.11842400	89.68774000	-	64
WD-24 2	WD	24	29.17822900	89.53395200	-	25
WD-23 4	WD	23	29.18527600	89.56256400	-	30
WD-59 A	WD	59	29.01101307	89.56097894	-	59
WD-59 1	WD	59	29.01266164	89.54375521	-	35
WD-23 10	WD	23	29.17253600	89.55605100	-	30
WD-29 7	WD	29	29.15250700	89.59599300	-	36
WD-58 C	WD	58	29.00410700	89.52318500	-	50
WD-18 D	WD	18	29.17982900	89.72344000	-	20
WD-58 #4	WD	58	29.05045069	89.52087156	-	50
WD-32 1	WD	32	29.13106500	89.69916000	-	61
WD-32 1	WD	32	29.13106500	89.69916000	-	61
WD-32 5	WD	32	29.12337400	89.68765900	-	61
WD-24 4	WD	24	29.17877200	89.54340600	-	30

WD-24 9(Removed)	WD	24	29.17682300	89.53770600	-	30
WD-31 3	WD	31	29.16725400	89.66639900	-	48
WD-29 G	WD	29	29.15266700	89.60847200	-	37
WD-35 7	WD	35	29.15466500	89.80381100	-	70
WD-23 13(Removed)	WD	23	29.18307900	89.56275900	-	30
WD-29 CB- REMOVED	WD	29	29.12143300	89.60957100	-	44
WD-24 1	WD	24	29.17592100	89.53405600	-	30
WD-30 5	WD	30	29.16649600	89.61851200	-	35
WD-30 V	WD	30	29.16335000	89.62420500	-	38
WD-31 R	WD	31	29.11658700	89.66414700	-	54
WD-35 B	WD	35	29.12521700	89.80058500	-	70
WD-24 5	WD	24	29.17643700	89.53959300	-	30
WD-18 5	WD	18	29.17684700	89.74086100	-	20
WD-31 H	WD	31	29.15403900	89.66509200	-	49
WD-29 36	WD	29	29.15771163	89.58490904	-	33
WD-31 1	WD	31	29.15878800	89.67108500	-	48
WD-29 27	WD	29	29.16304300	89.60923700	-	35
WD-32 4	WD	32	29.12898100	89.70074700	-	61
WD-32 4	WD	32	29.12898100	89.70074700	-	61
WD-32 4	WD	32	29.14663900	89.68727800	-	52

WD-32 4	WD	32	29.14663900	89.68727800	-	52
WD-31 W	WD	31	29.14091246	89.66494313	-	53
WD-24 8	WD	24	29.18010100	89.53987200	-	30
WD-24 6	WD	24	29.17799800	89.53715200	-	30
WD-35 3	WD	35	29.16133565	89.77850983	-	58

Appendix D

PROPOSAL EVALUATION SHEET

The department will score the applicant’s proposal based on seven criteria: Site Characteristics, Material Specification, Deployment Plan, Available Resources, User Group Consideration, Experience and Understanding, and Schedule of Operations. Applicants are encouraged to organize their proposals so that the evaluation topics are readily accessible by the LDWF Artificial Reef Program. All proposed work shall conform to the Contract Documents.

Applicant: _____

Department Staff Evaluator (name): _____

Date: _____

Evaluator shall grade the quality of proposals based on the point scales shown below. The evaluator’s proposal score will be the sum of the points awarded below. The LDWF Artificial Reef Program will rank bidders based on the average of the evaluator proposal scores for each proposal.

Location

Does the proposed reef application address impacts to grassbeds and/or environmentally sensitive areas?	Yes, no impacts = 5, Yes, impacts = 1, Not mentioned = 0	
Is the proposed reef to be placed in an approved deployment zone?	Yes = 5, No = 1, Not mentioned = 0	

Habitat

Does the proposed reef provide benefits to the habitat by enhancing or creating the proposed reef?	Yes = 5, No = 1, Not mentioned = 0	
--	------------------------------------	--

Material

Does the proposal provide a detailed description of material to be used on the project, including weight, size, number, and pictures?	Yes = 4, No = 1, Not mentioned = 0	
Does the proposed material provide complexity and high surface area?	Yes = 4, No = 1, Not mentioned = 0	
Is the proposed material proven to be stable and durable?	Yes = 4, No = 1, Not mentioned = 0	

Is the proposed material listed as an unacceptable material in the Inshore Nearshore Artificial Reef Plan?	Yes = 0, No = 5, Not mentioned = 0	
Does the proposed project include the proposed material design and layout in drawing form?	Yes = 3, No = 0	

Deployment Plan

Does the proposed project provide a detailed deployment plan, including description of vessels and equipment needed to deploy, transportation, handling of material, and method of deployment of materials on the bottom?	Yes = 4, No = 0	
Does the proposed project address availability of material for pre-deployment inspection?	Yes = 4, No = 0	
Does the proposed project include a timeline of tasks, outlining key work tasks and overall timeline?	Yes = 3, No = 0	
Does the proposed project address navigation of vessels from staging area to reef site with attention to preventing damage of natural resources?	Yes = 2, No = 0	
Does the proposed project address coordination with subcontractors, if any?	Yes = 2, No = 0	

Available Resources

Does this project provide 1:1 match or greater?	Yes = 2, No = 1, Not mentioned = 0	
Is the proposed material cost at or below the program's average cost per ton of deployed material?	Yes = 1, No = 1, Not mentioned = 0	
Does the applicant have access to the proper equipment to accomplish the proposed project?	Yes = 1, No = 0	
Does the applicant address the completion of a certified surveyor's plat after material is deployed?	Yes = 1, No = 0	

User Group Consideration

Does the proposed project address potential impacts to user groups, including conservation groups, oil and gas interests, commercial groups, and recreation groups?	Yes = 5, No = 1, Not mentioned = 0	
Does the proposed project negatively impact any user groups?	Yes = 1, No = 5, Not mentioned = 0	

Experience and Understanding

Does the applicant provide a detailed description of relevant experience and understanding of artificial reef manufacturing/acquisition and deployments, including a list of artificial reef deployments conducted within at least the last 5 years and number of partnerships relevant to reef development?	Yes, highly qualified = 30, Yes, slightly qualified = 5, Not mentioned = 0	
--	--	--

Schedule of Operations

Does the proposed project provide a complete schedule of operations, including estimated days to acquire material, days to deploy reef, and location of port deployment vessels will depart from?	Yes = 5, No = 1, Not mentioned = 0	
---	------------------------------------	--

Appendix E

Louisiana Department of Wildlife and Fisheries (LDWF) SPECIFICATION FOR NEARSHORE ARTIFICIAL REEF CREATION

If contracted, the following requirements must be met:

Deliverables/Notifications Required of Contracting Party for each designated reef

1. Submit a detailed reef deployment operations plan for review to LDWF prior to commencing work. The plan should include but not be limited to vessels & equipment, vessel drafts, tow-routes, staging areas, methods and location for securing vessels on site, material deployment method, position and clearance verification, etc.
2. Notify LDWF at least 30 days prior to commencing deployment operations.
3. Contact and setup a ticket with LA One Call as required by State Law prior to commencing deployment operations.
4. Contracting Party must display approved U.S. Army Corps of Engineers (USACE) permit onsite during all deployment operations (permit to be obtained and provided by LDWF).
5. Notify LDWF within 24 hours of completion of all reef material deployment.
6. Provide documentation for quantity of material delivered and deployed.
7. Provide a certified surveyor's plat verifying and illustrating elevations and positions of all deployed materials are within specifications.

Material

1. If constructing with concrete or limestone, must meet AASHTO (American Association of State Highway and Transportation Officials) specs for size of stone utilized, or clean preformed concrete acceptable.
2. Material must be clean and free of any hazardous substances, plastics, or trash. Exposed rebar must be cut to no more than 3 inches in length.
3. Material must be made available for inspection and approval by LDWF prior to and during deployment.
4. All material deployed per specifications and permits become property of the State upon completion, termination, or expiration of the agreement.

Transportation

1. Material shall be transported to deployment sites on barges that are such size, and loaded in such a manner, as to not damage the water bottoms over which they pass. Such damage shall be the responsibility of the Contracting Party.
2. LDWF reserves the right to specify the size of barges and tugs to be used and to specify the route to deployment sites, if it determines that the Contracting Party is damaging water bottoms.
3. The Contracting Party is required to have GPS navigation on board so as to track and record the path of the tugboat and deployment equipment during

approach, deployment, and retreat. This information shall be maintained by the Contracting Party and/or subcontractors for no less than 120 days after project completion. Upon request, it shall be made available to LDWF in a timely fashion.

4. Movement of heavy equipment (i.e. rigs, tugs, barges, etc.) across the public oyster seed ground must adhere to the approved access routes and time authorized.

Deployment

1. The deployment of material must meet these specifications and all applicable permits including but not limited to any required USACE permit, Department of Natural Resources Coastal Zone Consistency, and Department of Environmental Water Quality Certification.
2. **All material must be deployed within the boundaries designated by LDWF.** The designated deployment area boundaries will be provided by LDWF.
3. **The minimum permitted reef clearance at Mean Lower Low Water (MLLW) must be maintained over all deployed materials.**
4. Material shall be deployed under the supervision of LDWF. LDWF reserves the right to inspect each individual barge load, and to proportionately reduce payment of the vendor, for that portion of the load that does not meet specifications.
5. Deployment shall take place only during the daylight hours.
6. No “pulling” or “pushing” of vessels by the bucket will be allowed.

Additional Specifications

1. Contracting Party shall provide transportation and accommodations for a LDWF representative during deployment operations.
2. Contracting Party shall require all personnel to wear U.S. Coast Guard-approved personal flotation devices (PFDs) while on deck during deployment.
3. Contracting Party must retrieve any and all floating debris and trash which is expelled from boats, barges, equipment, etc. while operating under this project.
4. Contracting Party is responsible for adhering to all applicable federal and state safety requirements.
5. Contracting Party, and any/all subcontractors shall not discharge any produced waters nor discharge any human waste from any vessel that does not meet or exceed the requirements of the Department of Health and Hospitals.
6. LDWF may assist with the identification of pipelines, oyster leases, potential access routes, etc. in the general project area, but the final responsibility for identification of and damages to water bottoms, structures, pipelines, etc, lies with the Contracting Party.
7. Contracting Party and any/all subcontractors shall provide a letter of completion and as-built drawings of the completed project to the Department no later than 60 days following completion of the permitted activity.

8. A post-project bottom contour and side-scan survey is required (must be stamped and signed by a licensed professional land surveyor). The results of these surveys will be available to the Department, upon request.
9. LDWF staff reserves the right to suspend operations if positioning and other deployment objectives are not being met.