

CACHUMA RESOURCE CONSERVATION DISTRICT
AGREEMENT FOR SERVICES OF INDEPENDENT CONTRACTOR

This Agreement is made and entered this 21st day of July, 2022 between Cachuma Resource Conservation District (hereinafter "Contractor"), a public entity in the State of California, and Santa Barbara County Association of Governments (hereinafter "Client") a public entity in the County of Santa Barbara. In consideration of the mutual covenants and agreements herein, the Client and the Contractor (hereinafter "the Parties") agree as follows.

1. SCOPE OF SERVICES

The Client shall compensate the Contractor for all professional services and products necessary to fulfill the Scope of Services, which is attached hereto as Exhibit A, incorporated herein by reference. The Contractor will take direction solely from the Client's Executive Director for all matters pertaining to the fulfillment of this Scope of Services and will not be responsible to other Client personnel. The Client shall be responsible for maintaining the necessary agreements with the land owners and the project funder.

2. TIME FOR PERFORMANCE

This Agreement will become effective as of _____, 2022 and will continue in effect for an initial term of 5 years (60 months), ending July 31, 2027, unless earlier terminated. Services will be performed in accordance with the Schedule of Services attached hereto as Exhibit B, incorporated herein by reference.

3. FORCE MAJEURE

Neither the Client nor the Contractor shall be in default of performance where such performance is prevented or delayed by any cause which is beyond the Client's or Contractor's control, as appropriate. In the event conditions outside the Client's or Contractor's control develop which preclude the completion of the work within the agreed upon time schedule, the Parties shall in good faith negotiate a modification to the time, scope, and/or the pay schedule.

4. COMPENSATION

The Contractor shall provide the professional services and products described in the accompanying Exhibit(s). In return for such services, the Client shall pay the Contractor an amount up to but not-to-exceed 'Six-Hundred Twenty-Six-Thousand Nine-Hundred Fifty-Three dollars' (\$626,953.00) for time and materials, including all cost reimbursements, as estimated in the Fee Estimate attached hereto as Exhibit C, incorporated herein by reference. Tasks will include the monitoring, management, implementation, and reporting required for *Limonium duriusculum* treatments at Carpinteria Salt Marsh Reserve as mitigation for the Santa Barbara County Association of Governments' Santa Claus Lane Bike Path Project. Additional services outside of those described in the Exhibit(s) may be added at a rate consistent with this Agreement. The Contractor will not perform additional services, or bill for such services, unless the Parties have agreed to in writing as a modification to this Agreement consistent with Section 9 (below).

The Contractor shall submit invoices for time and materials no more frequently than monthly but no less frequently than quarterly. The Client shall compensate the Contractor for their services accordingly, no later than 30 days after each invoice is received by Client, unless circumstances outside of the Client's and Contractor's control preclude payment in a timely manner. The Contractor reserves the right to stop work if payments are not received within 90 days after an invoice is received by the Client. This fee will be applied to the invoice total once paid.

5. DISPUTE RESOLUTION

In the event a dispute arises between the Parties during any time covered by this Agreement, the Parties agree first to attempt to resolve the dispute through good faith negotiations. In the event such negotiations fail to resolve the dispute, this Agreement will be terminated, and the dispute will not be brought to a third-party mediator.

6. INDEPENDENT CONTRACTOR STATUS

Contractor hereby declares that during the performance of all services pursuant to this Agreement, that it shall act as an independent contractor, and that it is not an employee or agent of, or a partner or in joint venture with, the Client.

7. SUBCONTRACTORS

The Contractor may subcontract with other persons or firms with special expertise in a particular area(s) which is/are required to perform the Scope of Services described in Exhibit A. The Contractor shall notify Client of any subcontractors, and the Contractor shall be responsible for paying all fees, costs, taxes, insurance premiums and other costs and liabilities incurred as a result of the subcontract.

8. INSURANCES

At all times during the performance period of this Agreement the Contractor, must carry the following insurances in the amounts identified below:

- a. Workers' Compensation Insurance as required by the state or province where the work is performed, and Employers Liability Insurance as follows: one million dollars (\$1,000,000.00USD) bodily injury by accident each accident, one million dollars (\$1,000,000.00USD) bodily injury by disease each employee, and one million dollars (\$1,000,000.00USD) bodily injury by disease aggregate.

9. MODIFICATION

The Agreement may be modified only upon the execution of a written modification signed by both Parties and made a part hereof. Modification includes, but is not limited to, the inclusion of additional projects or adding services to an existing project.

10. CHOICE OF LAW & FORUM

The Contractor will comply with all County, State, and Federal ordinances, statutes, regulations and State or Federal Executive Orders now in force or which may hereafter be in force with regard to this Agreement. This Agreement shall be governed by the laws of the State of California. Any arbitration, litigation, or other legal proceeding regarding this Agreement or its contents shall be filed and maintained in the County of Santa Barbara, if in state court, or in the federal district court nearest to Santa Barbara County, if in federal court, in the U.S. District Court of California Central Division.

11. OWNERSHIP OF WORKPRODUCT

All physical copies of documents and products, but not copyright thereto, prepared either exclusively or collectively by the Contractor and other person or firm performing pursuant to this Agreement shall be co-owned by the Client and Contractor unless otherwise agreed upon.

12. CONSTRUCTION

This Agreement, including attached Exhibits, shall constitute the entire agreement between the Parties, and it supersedes all prior oral or written understandings and agreements between the Parties in regard to this scope of services. This Agreement shall bind the Client, the Contractor, and their successors and assigns.

13. SEVERABILITY

In the event any provision in this Agreement is found for any reason to be invalid, illegal or unenforceable, such defect shall not affect any other provision in this Agreement, and this Agreement shall be construed as if such defect were never contained in this Agreement.

14. WARRANTY

In performing under this Agreement, Contractor shall use best efforts, and shall perform diligently and competently, in accordance with generally accepted professional standards of practice in existence at the time the services are rendered.

15. RECORDS, AUDIT, AND REVIEW

Contractor shall keep such business records pursuant to this Agreement as would be kept by a reasonably prudent practitioner of Contractor's profession and shall maintain such records for at least four (4) years following the termination of this Agreement. All accounting records shall be kept in accordance with generally accepted accounting practices. Client shall have the right to audit and review all such documents and records at any time during Contractor's regular business hours or upon reasonable notice. In addition, if this Agreement exceeds ten thousand dollars (\$10,000.00) Contractor shall be subject to the examination and audit of the State Auditor General for a period of three (3) years after final payment under the Agreement (Cal. Govt. Code Section 8546.7). Contractor shall participate in any audits and review, whether by Client or the State, at no charge to Client.

16. NONDISCRIMINATION

Contractor shall comply with Title VI of the Civil Rights Act of 1964, as amended, and with the provisions contained in Title 49, Code of Federal Regulations (CFR), Part 21 through Appendix C and 23 CFR 710.405(b). During the performance of this Agreement, the Contractor, for itself, its assignees and successors in interest agrees as follows:

- A. Compliance with Regulations. Contractor shall comply with the regulations relative to nondiscrimination in federally-assisted programs of the Department of Transportation (hereinafter, "DOT") 49 CFR Part 21, as they may be amended from time to time (hereinafter referred to as the Regulations), which are herein incorporated by reference and made a part of this Agreement.
- B. Nondiscrimination. The Contractor or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this Agreement. The Contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of DOT-assisted contracts. Failure by the Contractor to carry out these requirements is a material breach of this Agreement, which may result in the termination of this contract or such other remedy as recipient deems appropriate. Contractor, with regard to the work performed by it during the agreement, shall not discriminate on the grounds of race, religion, color, sex, age or national origin in the selection or retention of subcontractors, including procurement of materials and leases of equipment. Contractor shall not participate either directly or indirectly in the discrimination prohibited by Title 49, Code of Federal Regulations, section 21.5 of the Regulations, including employment practices when the contract covers a program set forth in Appendix B of the regulations.

- C. Solicitations for Subcontractors, including Procurement of Materials and Equipment. In all solicitations either by competitive bidding or negotiations made by Contractor for work to be performed under the subcontract, including procurement of materials or leases of equipment, each potential subcontractor or supplier shall be notified by Contractor of Contractor's obligations under this agreement, and the Regulations relative to nondiscrimination on the grounds of race, religion, color, sex, age or national origin.
- D. Information and Reports. Contractor shall provide all information and reports required by the Regulations or directives issued pursuant thereto, and shall permit access to its books, records, accounts, other sources of information and its facilities as may be determined by SBCAG to be pertinent to ascertain compliance with such Regulations, orders and instructions. Where any information required of a Contractor is in the exclusive possession of another who fails or refuses to furnish this information, Contractor shall so certify to Client, and shall set forth what efforts it has made to obtain the information.
- E. Sanctions for Noncompliance. In the event of Contractor's noncompliance with the nondiscrimination provisions of this Agreement, Client shall impose such Agreement sanctions as it may determine to be appropriate, including, but not limited to:
 - i. Withholding of payments to Contractor under this Agreement until Contractor complies, and/or
 - ii. Cancellation, termination or suspension of the Agreement in whole or in part.

17. TERMINATION

- A. For Convenience. Any Party may terminate this Agreement in whole or in part upon thirty (30) days written notice.
- B. For Nonappropriation of Funds. Notwithstanding any other provision of this Agreement, in the event that no funds or insufficient funds are appropriated or budgeted by federal, state or local governments, or funds are not otherwise available for payments in the fiscal year(s) covered by the term of this Agreement, then Client will notify Contractor of such occurrence and Client may terminate or suspend this Agreement in whole or in part, with or without a prior notice period. Subsequent to termination of this Agreement under this provision, Client shall have no obligation to make payments with regard to the remainder of the term.
- C. For Cause. Should Contractor default in the performance of this Agreement or materially breach any of its provisions, Client may, at Client's sole option, terminate or suspend this Agreement in whole or in part by written notice. Upon receipt of notice, Contractor shall immediately discontinue all services affected (unless the notice directs otherwise) and notify Client as to the status of its performance. The date of termination shall be the date the notice is received by Contractor, unless the notice directs otherwise.
- D. Upon termination, the Contractor shall deliver to Client all data, estimates, graphs, summaries, reports, and all other property, records, documents or papers as may have been accumulated or produced by Contractor in performing this Agreement, whether completed or in process, except such items as Client may, by written permission, permit Contractor to retain. Notwithstanding any other payment provision of this MOU 2021, SBCAG shall pay Contractor for satisfactory services performed to the date of termination to include a prorated amount of compensation due hereunder less payments, if any, previously made. In no event shall Contractor be paid an amount in excess of the full price under this MOU 2021. Contractor shall furnish to Client such financial information as in the judgment of Client is necessary to determine the reasonable value of the services rendered. In the event of a dispute as to the reasonable value of the services rendered, the decision of a neutral

third party agreed to by the Parties shall be final. The foregoing is cumulative and shall not affect any right or remedy which Client may have in law or equity.

18. DEBARMENT AND SUSPENSION

Contractor certifies to Client that it and its employees and principals are not debarred, suspended, or otherwise excluded from or ineligible for, participation in federal, state or local government contracts. Contractor certifies that it shall not contract with a contractor to complete services that is so debarred or suspended.

19. CONFLICT OF INTEREST

The Parties covenant that they presently have no employment or interest and shall not acquire any employment or interest, direct or indirect, including any interest in any business, property, or source of income, which would conflict in any manner or degree with the performance of services required to be performed under this Agreement. Contractor agrees to promptly disclose to Client, in writing, any potential conflict of interest. Client retains the right to waive a conflict of interest disclosed if Client determines it to be immaterial, and such waiver is only effective if provided by Client in writing.

20. SECTION HEADINGS

The headings of the several sections, and any table of contents appended hereto, shall be solely for convenience of reference and shall not affect the meaning, construction or effect hereof.

21. SEVERABILITY

If any one or more of the provisions contained herein shall for any reason be held to be invalid, illegal or unenforceable in any respect, then such provision or provisions shall be deemed severable from the remaining provisions hereof, and such invalidity, illegality or unenforceability shall not affect any other provision hereof, and this Agreement shall be construed as if such invalid, illegal or unenforceable provision had never been contained herein.

22. REMEDIES NOT EXCLUSIVE

No remedy herein conferred upon or reserved is intended to be exclusive of any other remedy or remedies, and each and every such remedy, to the extent permitted by law, shall be cumulative and in addition to any other remedy given hereunder or now or hereafter existing at law or in equity or otherwise.

23. NO WAIVER OF DEFAULT

No delay or omission of any of the Parties to exercise any right or power arising upon the occurrence of any event of default shall impair any such right or power or shall be construed to be a waiver of any such default or an acquiescence therein; and every power and remedy given by this Agreement shall be exercised from time to time and as often as may be deemed expedient.

24. COUNTERPARTS

This Agreement may be executed in any number of counterparts and each of such counterparts shall for all purposes be deemed to be an original; and all such counterparts, or as many of them as the Parties shall preserve undestroyed, shall together constitute one and the same instrument.

25. AUTHORITY

All signatories and Parties to this Agreement warrant and represent that they have the power and authority to enter into this Agreement in the names, titles and capacities herein stated and on behalf of any entities, persons, or firms represented or purported to be represented by such entity(ies), person(s), or firm(s) and that all formal requirements necessary or required by any State and/or federal law in order to enter into this Agreement have been fully complied with.

26. SURVIVAL

All provisions of this Agreement which by their nature are intended to survive the termination or expiration of this Agreement shall survive such termination or expiration.

27. PRECEDENCE

In the event of conflict between the provisions contained in the numbered sections of this MOU 2021 and the provisions contained in the Exhibits, the provisions of the numbered sections shall prevail over those in the Exhibits.

28. SUSPENSION FOR CONVENIENCE

Client may, without cause, order Contractor in writing to suspend, delay, or interrupt the services under this Agreement in whole or in part for up to 30 days. Client shall incur no liability for suspension under this provision and suspension shall not constitute a breach of this Agreement.

29. ADMINISTRATIVE AMENDMENTS

Client's Executive Director, or designee, is authorized to make immaterial amendments to this Agreement such as updating the Designated Representatives, updating addresses for notices, or other clerical error corrections which will not result in a material change to the Agreement or any Exhibits, including but not limited to the Statement of Work, or total Agreement amount, in accordance with Section 9 and upon review and concurrence by legal counsel.

30. INDEMNIFICATION

In lieu of and notwithstanding the pro rata risk allocation which might otherwise be imposed between the Parties pursuant to California Government Code Section 895.6, the Parties agree that all losses or liabilities incurred by a Party shall not be shared pro rata but instead all Parties agree that pursuant to California Government Code Section 895.4, each of the Parties hereto shall fully indemnify and hold each of the other Parties, their officers, board members, employees and agents, harmless from any claim, expense or cost, damage or liability imposed for injury (as defined by California Government Code Section 810.8) occurring by reason of the negligent acts or omissions or willful misconduct of the indemnifying party, its officers, board members, employees or agents, under or in connection with or arising out of any work, authority or jurisdiction delegated to such party under this Agreement. No party, nor any officer, board member, employee or agent thereof shall be responsible for any damage or liability occurring by reason of the negligent acts or omissions or willful misconduct of other Parties hereto, their officers, board members, employees or agents, under or in connection with or arising out of any work, authority or jurisdiction delegated to such other Parties under this Agreement.

31. DESIGNATED REPRESENTATIVES

Fred Luna at phone number 805-961-8926 is the representative of SBCAG and will administer this Agreement for and on behalf of SBCAG. Anna Olsen at phone number 805-868-4013 is the authorized

representative for CONTRACTOR. Changes in designated representatives shall be made only after advance written notice to the other party.

32. NOTICES

Any notice or consent required or permitted to be given under this Agreement shall be given to the respective parties in writing, by first class mail, postage prepaid, or otherwise delivered as follows:

To Client: Santa Barbara County Association of Governments
260 North San Antonio Road, Suite B
Santa Barbara, CA 93110
Attention: Marjie Kim, Executive Director

To Contractor: Cachuma Resource Conservation District
920 East Stowell Road
Santa Maria, CA 93454
Attention: Anna Olsen, Executive Director

or at such other address or to such other person that the parties may from time to time designate in accordance with this Notice section. Notices and consents under this section, which are sent by mail, shall be deemed to be received five (5) days following their deposit in the U.S. mail. This Notices section shall not be construed as meaning that either party agrees to service of process except as required by applicable law.

33. PREVAILING WAGE REQUIREMENTS

- A. Contractor shall comply with the State of California's General Prevailing Wage Rate requirements in accordance with California Labor Code, Section 1770, and all Federal, State, and local laws and ordinances applicable to the work.
- B. Any subcontract entered into as a result of this Agreement shall contain all of the provisions of this Section.
- C. When prevailing wages apply to the services described in the scope of work, transportation and subsistence costs shall be reimbursed at the minimum rates set by the Department of Industrial Relations (DIR) as outlined in the applicable Prevailing Wage Determination. See <http://www.dir.ca.gov>.
- D. No contractor or subcontractor may be listed on a bid proposal for a public works project unless registered with the Department of Industrial Relations pursuant to Labor Code § 1725.5 [with limited exceptions from this requirement for bid purposes only under Labor Code § 1771.1(a)]; no contractor or subcontractor may be awarded a contract for public work on a public works project unless registered with the Department of Industrial Relations pursuant to Labor Code § 1725.5; and this project is subject to compliance monitoring and enforcement by the Department of Industrial Relations.

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IN WITNESS HEREOF, THE PARTIES HEREBY EXECUTE THIS AGREEMENT:

FOR CLIENT:

Das Williams
Santa Barbara County Association of Governments
Chair

FOR CONTRACTOR:

Anna Olsen
Cachuma Resource Conservation District
Executive Director

CLIENT SIGNATURE

CONTRACTOR SIGNATURE

DATE SIGNED

DATE SIGNED

ATTEST:

Marjie Kirn
Santa Barbara County Association of Governments
Clerk of the Board

By: _____
Deputy Clerk

APPROVED AS TO FORM:

Rachel Van Mullem
County Counsel

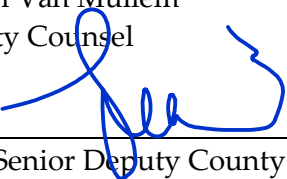
By:  _____
Senior Deputy County Counsel
Counsel for Client

Exhibit A: Santa Claus Bike Path Mitigation Project Scope of Services

Task 1: Project Management and Coordination (Years 1-5)

- a) Manage all aspect of project and scheduling; and
- b) Coordinate with Client regarding progress and deliverables; and
- c) Coordinate with UC Reserve Manager and landowners for access and provide project updates as requested.

Task 2: Pre-Treatment *Limonium* Coverage Surveys (Years 1-3) and First Bi-annual *Limonium* Coverage Surveys (Years 4-5)

- a) Survey targeted treatment areas for presence of *Limonium duriusculum* prior to start of years 1-3 treatment seasons; and
- b) Map all occurrences of *Limonium duriusculum* using sub-meter handheld GPS unit; and
- c) Create maps to be used in percent coverage surveys; and
- d) Perform percent coverage surveys prior to start of treatments; and
- e) Compile and analyze data to be used in annual reporting; and
- f) Perform similar bi-annual mapping and coverage surveys at the start of years 4-5.

Task 3: CHMAMA Surveys and Avoidance Measures (Years 1-3)

- a) Maintain required collection permits for *Chloropyron maritimum* ssp. *maritimum* (CHMAMA) at Carpinteria Salt Marsh Reserve; and
- b) Surveying, mapping, and monitoring for CHMAMA occurrences within and adjacent to the treatment areas; and
- c) Flagging and protecting all CHMAMA populations within and adjacent to treatment areas.

Task 4: CHMAMA Seed Collection, Processing & Dispersal (Years 4-5)

- a) Maintain required collection permits for CHMAMA at Carpinteria Salt Marsh Reserve; and
- b) Collection of *Chloropyron maritimum* ssp. *maritimum* seed from donor populations in Carpinteria Salt Marsh Reserve; and
- c) Process, sort, and count collected CHMAMA seed; and
- d) Seasonal dispersal of CHMAMA seeds into appropriate habitat areas previously treated for *Limonium duriusculum*.

Task 5: *Limonium duriusculum* Treatments (Years 1-3)

- a) Perform *Limonium duriusculum* treatments during designated treatment season (August 15th – March 31st); and
- b) Treat and/or re-treat an area of salt marsh habitat consistent with the SBCAG's mitigation requirements (approximately 90,000 sq ft or 2 acres); and
- c) Perform treatments such as solarization, hand pulling, scraping, and/or flame treatments; and
- d) Document areas treated using sub-meter GPS handheld unit; and
- e) Create maps of annual treatments; and
- f) Reduce *Limonium duriusculum* populations to less than 5% absolute coverage by the end of Year 5.

Task 6: Post-Treatment *Limonium* Efficacy Surveys (Years 1-3) and Second Bi-annual Limonium Coverage Surveys (Years 4-5)

- a) Perform *Limonium duriusculum* efficacy percent coverage surveys at the end of each treatment season; and
- b) Compile and analyze data to be used in annual reporting; and
- c) Perform similar bi-annual mapping and coverage surveys at the end of years 4-5.

Task 7: Agency Reporting (Years 1-5)

- a) Data analysis for all reporting; and
- b) Prepare annual monitoring reports for each of the five years to ensure compliance with the Nationwide Permit 14 Verification Letter, Section 401 Water Quality Certification, and the Final Lake or Streambed Alteration Agreement; and
- c) The fifth annual monitoring report at the end of the 5-year monitoring period will be considered the final report; and
- d) The final report will be submitted to USACE, RWQCB, and CDFW to be evaluated and to approve the success of the off-site mitigation; and
- e) Coordinate with agency staff as necessary to provide updates and discuss results presented in annual reports.

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Exhibit B: Santa Claus Bike Path Mitigation Project Schedule of Services

Year	Work Schedule (Annual Reports due on July 31 st of each year)
1	<ul style="list-style-type: none"> • Early August: Pre-treatment <i>Limonium</i> coverage surveys • August 15 – March 31: Treatment Season #1 • Early April: Post-treatment <i>Limonium</i> coverage surveys • April-July: Off-season
2	<ul style="list-style-type: none"> • Early August: Re-treatment <i>Limonium</i> coverage surveys • August 15 – March 31: Treatment Season #2 • Early April: Post-treatment <i>Limonium</i> coverage surveys • April-July: Off-season
3	<ul style="list-style-type: none"> • Early August: Re-treatment <i>Limonium</i> coverage surveys • August 15 – March 31: Treatment Season #3 • Early April: Post-treatment <i>Limonium</i> coverage surveys • April-July: Off-season
4	<ul style="list-style-type: none"> • September: First Bi-annual <i>Limonium</i> coverage surveys • September-December: CHMAMA seed collection and dispersal • March: Second Bi-annual <i>Limonium</i> coverage surveys
5	<ul style="list-style-type: none"> • September: First Bi-annual <i>Limonium</i> coverage surveys • September-December: CHMAMA seed collection and dispersal • March: Second Bi-annual <i>Limonium</i> coverage surveys

Exhibit C: Santa Claus Bike Path Mitigation Project Fee Estimate

Year 1 (Aug 15-Mar 30)

Task	Totals	Assumes 90,000 sq ft of new treatments
Project Management & Coordination	\$22,240	
Pre-treatment Baseline Limonium coverage surveys	\$29,680	Assumes surveys performed by 4 person team Assumes 2 days of mapping surveys followed by 4 days of % cover surveys Assumes no more than 400 quadrats Assumes additional time for entering data & QA/QC Assumes 1 half day of post survey GIS work
CHMAMA Surveys & Avoidance Measures	\$3,920	Assumes 1 day of CHMAMA Surveys and flagging off any occurrences
L. duriusculum Treatment	\$67,680	Assumes solarization, scraping and hand pulling. Materials include: *Sandbags to weigh down tarps and solarize scaped material on-site *40,000 square feet of Solarization Tarps deployment/removal *Garden staples to secure solarization tarps
Post-Treatment Lidu Efficacy Surveys	\$20,400	Assumes 4 days of Lidu treatment efficacy % cover surveys (no mapping) with 4 person crew
Agency Reporting	\$16,400	Data analysis and Reporting will comply with the Nationwide Permit 14 Verification Letter, Section 401 Water Quality Certification, and the Final Lake or Streambed Alteration Agreement Assumes reports are due no earlier than July following the end of the treatment season
Totals	\$160,320	

Year 2 (Aug 15-Mar 30)

Task	Totals	Assumes 90,000 sq ft of new treatments and/or re-treatments
Project Management & Coordination	\$21,585	
Pre-treatment Limonium coverage surveys	\$30,274	Assumes surveys performed by 4 person team Assumes 2 days of mapping surveys followed by 4 days of % cover surveys Assumes no more than 400 quadrats Assumes additional time for entering data & QA/QC Assumes 1 half day of post survey GIS work
CHMAMA Surveys & Avoidance Measures	\$3,998	Assumes 1 day of CHMAMA Surveys and flagging off any occurrences
L. duriusculum Treatment	\$56,039	Assumes flame treatments will be preferred re-treatment method Assumes 15 days of flame treatments with a 4 person crew Additional solarization materials may be needed
Post-Treatment Lidu Efficacy Surveys	\$20,808	Assumes 4 days of Lidu treatment efficacy % cover surveys (no mapping) with 4 person crew
Agency Reporting	\$16,728	Data analysis and Reporting will comply with the Nationwide Permit 14 Verification Letter, Section 401 Water Quality Certification, and the Final Lake or Streambed Alteration Agreement Assumes reports are due no earlier than July following the end of the treatment season
Totals	\$149,432	

Year 3 (Aug 15-Mar 30)

Task	Totals	Assumes 90,000 sq ft of new treatments and/or re-treatments
Project Management & Coordination	\$20,480	
Pre-treatment Limonium coverage surveys	\$30,879	Assumes surveys performed by 4 person team Assumes 2 days of mapping surveys followed by 4 days of % cover surveys Assumes no more than 400 quadrats Assumes additional time for entering data & QA/QC Assumes 1 half day of post survey GIS work
CHMAMA Surveys & Avoidance Measures	\$4,078	Assumes 1 day of CHMAMA Surveys and flagging off any occurrences
L. duriusculum Treatment	\$40,513	Assumes no solarization will be performed Assumes 10 days of flame treatments with a 4 person crew Assumes some hand pulling that will require off-site disposal
Post-Treatment Lidu Efficacy Surveys	\$21,224	Assumes 4 days of Lidu treatment efficacy % cover surveys (no mapping) with 4 person crew
Agency Reporting	\$17,063	Data analysis and Reporting will comply with the Nationwide Permit 14 Verification Letter, Section 401 Water Quality Certification, and the Final Lake or Streambed Alteration Agreement Assumes reports are due no earlier than July following the end of the treatment season
Totals	\$134,237	

Year 4 (Aug 15-Mar 30)

Task	Totals	Assumes No Re-treatments
Project Management & Coordination	\$13,678	
First Bi-annual Limonium coverage surveys	\$31,390	Assumes surveys performed by 4 person team Assumes 2 days of mapping surveys followed by 4 days of % cover surveys Assumes no more than 400 quadrats Assumes additional time for entering data & QA/QC Assumes 1 half day of post survey GIS work
CHMAMA Seed Collection, Processing & Dispersal	\$6,495	Assumes 1 day of seed collection with 3 person crew Assumes 1 day of seed processing by staff Associate & field technician Assumes 0.5 day spreading seeds with 3 person crew
Second Bi-annual Limonium coverage surveys	\$21,645	Assumes 4 days of Lidu treatment efficacy % cover surveys (no mapping) with 4 person crew
Agency Reporting	\$17,404	Data analysis and Reporting will comply with the Nationwide Permit 14 Verification Letter, Section 401 Water Quality Certification, and the Final Lake or Streambed Alteration Agreement Assumes reports are due no earlier than July following the end of the treatment season
Totals	\$90,616	

Year 5 (Aug 15-Mar 30)

Task	Totals	Assumes No Re-treatments
Project Management & Coordination	\$13,872	
First Bi-annual Limonium coverage surveys	\$32,018	Assumes surveys performed by 4 person team Assumes 2 days of mapping surveys followed by 4 days of % cover surveys Assumes no more than 400 quadrats Assumes additional time for entering data & QA/QC Assumes 1 half day of post survey GIS work
CHMAMA Seed Collection, Processing & Dispersal	\$6,624	Assumes 1 day of seed collection with 3 person crew Assumes 1 day of seed processing by staff Associate & field technician Assumes 0.5 day spreading seeds with 3 person crew
Second Bi-annual Limonium coverage surveys	\$22,082	Assumes 4 days of Lidu treatment efficacy % cover surveys (no mapping) with 4 person crew
Agency Reporting	\$17,752	Data analysis and Reporting will comply with the Nationwide Permit 14 Verification Letter, Section 401 Water Quality Certification, and the Final Lake or Streambed Alteration Agreement Assumes reports are due no earlier than July following the end of the treatment season
Totals	\$92,348	

5-Year Total:	\$626,953
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