



Ash Tree Treatment Quote to The City of Maple Grove

Submitted by:
Rainbow Treecare
12/07/2021

Project Understanding

The Emerald Ash Borer (EAB) threatens the lives of the thousands of ash trees located in the City of Maple Grove (City).

Fortunately, the City is continuing to prepare for this devastating infestation by electing to protect public ash trees with Emamectin benzoate.

The City has invited Rainbow Treecare to submit a proposal to provide tree injection services (Project) for ash trees within two separate areas: right-of-way (ROW) and private property.

Project Goals

- Protect ash trees from emerald ash borer infestation on public and private property.
- Provide a bulk discount through a formal city program to encourage residents to inject their ash trees on private property in order to preserve the city's tree canopy and the accompanying economic and environmental benefits.
- Educate city residents about the benefits of tree injection treatments for high value ash trees as part of an overall EAB plan.
- Collect and update GPS points for injected ash trees. The information will be used to ensure communication occurs before condemning potentially protected trees, and to gauge the participation and success of the program over time.

Project Areas

Area 1- Right-of-Way

- There are thousands of ash trees growing on public right-of-ways which may be suitable for preservation.
 - The City reserves the right to increase or decrease quantities.

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- All ash injections must be completed between May 15th and October 15th of each year, or before fall leaf color, whichever occurs sooner—any variances in dates must be approved by the City.
- The contractor must collect tree inventory data using a mobile device
- All invoices will be remitted to the city of Maple Grove and itemized by address listing and unique number assigned to each tree

Area 2 – Private Property

- The private property owner will contact the contractor directly to initiate an inspection, receive a quote and provide permission. The City will not be a party to any contract between the private owner and the proposer. Any agreement with the private owner and the proposer shall be subject to the following terms:
 - The contractor will inspect the ash trees on private property and determine whether they are appropriate for treatment
 - All ash tree injections shall be completed between May 15th and October 15th of each year or before fall leaf color, whichever occurs sooner
 - Any variances in dates must be approved by the City Tree Inspector
 - All invoices will be remitted to the homeowner

Terms of Service

Contract Period and Project Completion Dates

The contract will commence on date of contract award and terminate October 15th, 2022, unless terminated sooner in accordance with the provisions contained in this contract.

The City reserves the option under the terms of the agreement with Rainbow Treecare, to extend the contract for one additional two (2) year period. A cost-of-living adjustment may be included in the contract extension. Both the City and the Rainbow Treecare must agree to such terms in writing.

The tree injection period will run from approximately May 15th—October 15th of each year. Injections will occur on trees that have fully expanded leaves and have not reached fall senescence (fall leaf color). The City reserves the right to extend or limit the time period based on seasonal conditions.

Prior to beginning work under this contract, Rainbow Treecare will arrange for a meeting with city staff at which time specifications will be reviewed and the scheduling and progression of work will be discussed. Rainbow Treecare will be represented by the superintendent and the individual(s) arborist(s) who will be representing Rainbow Treecare during the progress of this

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contract and will make applicators available to provide an on-site demonstration prior to the start of the project if requested by the City.

The entire project must be completed by October 15th of each year unless the City approves an extension or alternate proposed timeline.

Subcontractor

No subcontracts will be used to complete any aspect of this project. Rainbow Treecare is fully capable of completing all tree injection, GPS, and marketing work as specified herein.

Superintendence by Contractor

Rainbow Treecare shall have a competent superintendent who is an ISA certified arborist supervising all application crews. Rainbow Treecare shall also provide an adequate and qualified staff certified by the Minnesota Department of Agriculture for the proper coordination and expediting of work under this agreement.

Basis of Payment

Payment for injections on city property will be made within 30 days of acceptance of the work. Rainbow Treecare shall be responsible for invoicing the private property owner for right-of-way and private property tree injections and collecting those payments. The City has no responsibility for the private property tree injections.

Tree Injection Specifications

General

It is the intent of these specifications to describe the tree injection program requirements for each area.

- (a) Area 1: Right-of-Way (ROW)
- (b) Area 2: Private Property

The goals of the program are to:

- Protect ash trees from emerald ash borer infestation on public and private property.
- Provide a bulk discount through a formal city program to encourage residents to inject their ash trees on private property in order to preserve the city's tree canopy and the accompanying economic and environmental benefits.
- Educate city residents about the benefits of tree injection treatments for high value ash trees as part of an overall EAB plan.
- Collect and update GPS points for injected ash trees. The information will be used to ensure communication occurs before condemning potentially protected trees, and to gauge the participation and success of the program over time.

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Equipment and Treatment Specifications

Upon request, Rainbow Treecare will demonstrate proficiency with the injection equipment and knowledge of the products used to prevent EAB. Assigned applicators may be required to provide an on-site demonstration prior to the start of the Project.

Safety Standards

Rainbow Treecare will use work methods, safety procedures and personal protective equipment conforming to all ANSI and OSHA standards in performing the work under this contract and will supply any Material Safety Data Sheets (MSDS) to the City upon request.

Formulation Rates

It is the responsibility of Rainbow Treecare to follow all insecticide label instructions. Any alterations in the formulations or equipment must be approved in advance by the city forester. In order to remain responsive to emerging research, the City reserves the right to request a change in formulation rates or application methods for the duration of the contract. Any such change and additional costs incurred would be agreed to in written correspondence between the Rainbow Treecare and the City.

Ash Tree Injection

- 1) All injections of ash trees shall be injected with a liquid formulation of 4% Emamectin benzoate every two years. The City may give preference to formulations that pose the lowest health risks to applicators as determined by the US EPA signal word listed on the product label. No substitutions of the formulations shall be allowed.
- 2) All Right-Of-Way Trees (Area 1) are to be treated every two years unless otherwise specified by the City. The City reserves the right to change this interval at any time in response to the latest research. Private Trees (Area 2) are proposed to be treated every two years.
- 3) Determination of dosage shall be on the diameter at breast height (DBH) within specific diameter classes. Rainbow Treecare shall inject Emamectin benzoate at the following rates:
 - a. Trees less than 22 inches diameter shall be injected at a variable rate from 2.5 ml. /DBH inch up to 5 ml. /DBH inch.
 - b. Trees 22 inches diameter and larger shall be injected at a 5 ml./DBH inch.

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- 4) Injections shall be made as close to the soil line as possible to ensure the best distribution of the insecticide throughout the tree.

Equipment

Rainbow Treecare will provide all necessary equipment to complete the contract under these specifications:

- 1) Equipment will remain in proper operating condition throughout the term of the contract and RTC is responsible for cleaning and providing upkeep to the injection system on a daily basis. Any maintenance issues or repairs are the sole responsibility of Rainbow Treecare.
- 2) Treatment technicians will use a high-helix drill bit and shall replace the drill bits after every 100 DBH inches to maintain high efficiency. Drilled holes must be the size recommended by the injection equipment manufacturer. Injection holes on ash must be drilled to a depth of approximately 1 inch below the bark to maximize delivery of Emamectin benzoate into ash trees.
- 3) Emamectin benzoate will be injected into ash trees using current industry standard injection systems that have efficacy data that supports their use.
- 4) All injected trees must be tagged with the year of injection clearly indicated on the tag. Rainbow Treecare shall provide tags for trees growing on right-of-way and private properties. The tags must be of a design and type that can persist on the tree for at least 3 years.

Guarantee and Warranty

Rainbow Treecare guarantees public and private ash trees in good condition that are treated by our technicians with a 4% liquid formulation of Emamectin Benzoate will not die from an emerald ash borer infestation for two years after the treatment date. If a healthy injected tree dies of EAB within the guarantee period, Rainbow Treecare shall uphold the agreement with the property owner as written within the proposal. **Rainbow Treecare reserves the right to treat ash trees in poor condition without the warranty.**

Tree Feature Class Attributes

As part of this proposal, Rainbow Treecare includes a commitment to record tree location and tree attributes in a GIS application.

Because Maple Grove's tree inventory program is in progress, tree point features may need to be collected while performing tree activities. In the event a tree point does not exist for the

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active tree, Rainbow Treecare shall collect x-y coordinates within 1 meter of accuracy and verify location data by aerial photography to ensure the accuracy of location data relative to the tree. This is in addition to the data fields to be filled out in entirety from the field while performing tree activities.

Rainbow Treecare shall supply mobile devices such as tablet or phone equipped cellular service to their staff to collect tree data in real-time from the field.

Property Access and Notification

Rainbow Treecare shall not enter private property without having previously obtained permission from the property owner. If Rainbow Treecare personnel desire to enter private property to access trees on a city owned property, it is their responsibility to notify the underlying property owner by knocking on the door at the time of the site visit or making a phone call ahead of time. The City Tree Inspector shall be notified of the Rainbow Treecare's intent on accessing a site through private property. If access is denied, the contractor shall notify the City.

Contract Supervision and Form of Order to Proceed

City staff shall assign trees growing on city property when the program commences. The City will continuously refer residents interested in ROW and private property tree injections throughout the treatment period of May-October of each year in a format mutually agreed upon prior to the start of the program. Rainbow Treecare shall send the City completed work orders and provide GPS data on a monthly basis. The City will reserve the right to request locations planned for treatment during the week and conduct spot checks.

Right-of-Way and Private Property Tree Inspections

Prior to recommending treatment on private property, all proposed ash trees shall be inspected by a qualified Rainbow Treecare employee. There may be instances when a tree is not in suitable health or condition to recommend treatment and Rainbow Treecare shall have an individual experienced in communicating tree information to the general public to explain such decisions. The person assigned to inspect private property trees shall be, at the very minimum, a Certified Minnesota Tree Inspector, or have a degree in forestry, or be an ISA Certified Arborist. The individual shall be qualified to diagnose emerald ash borer and have experience evaluating tree condition. Additionally, the individual shall be able to explain the benefits and

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risks of all ash protection options, with regard to pollinators, water quality, human health, and tree health and condition.

Area Maps and Strategic Planning

During each year of this agreement, Rainbow Treecare shall make staff time and technology available to collect ash tree inventory data from proposed public treatment areas. This tree inventory data shall be collected and shared with the City in an effort to determine the numbers and locations of trees and appropriate management strategies.

Hours of Operations and Uniform

The City reserves the right to set limits on hours of operation on Saturdays, Sundays and holidays. All weekend or holiday work shall be approved by the City in advance. Certified applicators and GPS staff shall wear company uniform and/or a high visibility/safety vest at all times during field operations. Every vehicle associated with the Project shall display a company logo or name.

Capacity

Rainbow Treecare annually protects over 33,000 ash trees and can inject over 900 trees per day at peak summer capacity.

Attachments

- A) Ash Tree Injection Price Quote Form for City Property
- B) Ash Tree Injection Price Quote Form for Private Property

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Attachment A- Ash Tree Injection Price Quote for Emamectin benzoate - City property over the contract time period at a variable rate from 2.5 ml./inch up to 5 ml./inch for trees under 22" and 5 ml./inch for trees 22" and larger.

Tree Diameter (DBH)	Price Per Tree (A)	Price per inch (DBH)
9	\$ 33.30	\$ 3.70
10	\$ 37.00	\$ 3.70
11	\$ 40.70	\$ 3.70
12	\$ 44.40	\$ 3.70
13	\$ 48.10	\$ 3.70
14	\$ 51.80	\$ 3.70
15	\$ 55.50	\$ 3.70
16	\$ 59.20	\$ 3.70
17	\$ 62.90	\$ 3.70
18	\$ 66.60	\$ 3.70
19	\$ 70.30	\$ 3.70
20	\$ 74.00	\$ 3.70
21	\$ 77.70	\$ 3.70
22	\$ 81.40	\$ 3.70
23	\$ 85.10	\$ 3.70
24	\$ 88.80	\$ 3.70
25	\$ 92.50	\$ 3.70
26	\$ 96.20	\$ 3.70
27	\$ 99.90	\$ 3.70
28	\$ 103.60	\$ 3.70
29	\$ 107.30	\$ 3.70
30	\$ 111.00	\$ 3.70
31	\$ 114.70	\$ 3.70
32	\$ 118.40	\$ 3.70
33	\$ 122.10	\$ 3.70
34	\$ 125.80	\$ 3.70
35	\$ 129.50	\$ 3.70
35+	All trees priced at	\$ 3.70

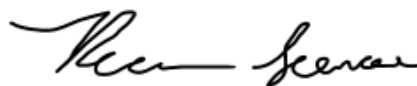
Name of Company:

Rainbow Treecare

Authorized Signature:

Address:

11571 K-Tel Drive
Minnetonka, MN 55343



Phone:

952-252-0553

Date: 12/7/2021



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Attachment B- Ash Tree Injection Price Quote for Emamectin benzoate - Private Property (Area 2) over the contract time period at a variable rate from 2.5 ml./inch up to 5 ml.inch for trees under 22" and 5 ml./inch for trees 22" and larger.

Tree Diameter (DBH)	Price Per Tree (B)	Price per inch (DBH)
9	\$ 60.30	\$ 6.70
10	\$ 67.00	\$ 6.70
11	\$ 73.70	\$ 6.70
12	\$ 80.40	\$ 6.70
13	\$ 87.10	\$ 6.70
14	\$ 93.80	\$ 6.70
15	\$ 100.50	\$ 6.70
16	\$ 107.20	\$ 6.70
17	\$ 113.90	\$ 6.70
18	\$ 120.60	\$ 6.70
19	\$ 127.30	\$ 6.70
20	\$ 134.00	\$ 6.70
21	\$ 140.70	\$ 6.70
22	\$ 147.40	\$ 6.70
23	\$ 154.10	\$ 6.70
24	\$ 160.80	\$ 6.70
25	\$ 167.50	\$ 6.70
26	\$ 174.20	\$ 6.70
27	\$ 180.90	\$ 6.70
28	\$ 187.60	\$ 6.70
29	\$ 194.30	\$ 6.70
30	\$ 201.00	\$ 6.70
31	\$ 207.70	\$ 6.70
32	\$ 214.40	\$ 6.70
33	\$ 221.10	\$ 6.70
34	\$ 227.80	\$ 6.70
35	\$ 234.50	\$ 6.70
35+	All trees priced at	\$ 6.70

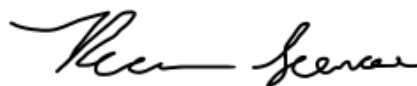
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