

AIR❖WATER❖WASTE CONSULTANTS

NEW REGISTRATION APPLICATION

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

ISSUED TO

4283929 DELAWARE LLC.

DECEMBER 2020

Prepared for:
Fond Memories
511 New Hope Rd. W
McKinney, Texas 75071

James E. Burnham
12/10/20

Prepared by:
Source Environmental Sciences, Inc.
2060 North Loop West, Suite 140
Houston, Texas 77018



www.source-environmental.com



4283929 DELAWARE, LLC. NEW REGISTRATION APPLICATION FOR MSW FACILITY

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Source Environmental Sciences, Inc.
Firm Registration No. _____

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Registered P.E.: Jim Burnham, P.E.
Registration No. _____ State _____
Source Environmental Sciences, Inc.
Firm Registration No. _____

Facility Name:
Permittee/Registrant Name:
MSW Authorization #:
Initial Submittal Date:
Revision Date:



Texas Commission on Environmental Quality
Part I Application Form for New Permit, Permit
Amendment, or Registration for a
Municipal Solid Waste Facility

1. Reason for Submittal

☒ Initial Submittal ☐ Notice of Deficiency (NOD) Response

2. Authorization Type

☐ Permit ☒ Registration

3. Application Type

☐ New Permit ☐ Permit Major Amendment ☐ Permit Major Amendment (Limited Scope)
☒ New Registration

4. Application Fees

Amount

☐ \$2,050 for Permits and Permit Amendments ☒ \$150 for Registrations

Payment Method

☐ Check ☒ Online through ePay portal <<https://www3.tceq.texas.gov/epay/>>

If paid online, enter ePay Trace Number:

5. Application URL

Is the application submitted for a Type I Arid Exempt (AE) or Type IV AE facility?

☐ Yes ☒ No

If the answer is "No", provide the URL address of a publicly accessible internet web site where the application and all revisions to that application will be posted.
http://

6. Application Publishing

Party Responsible for Publishing Notice:

☐ Applicant ☐ Agent in Service ☒ Consultant

Contact Name: **George Chandlee** Title: **Senior Consultant**

7. Alternative Language Notice

Is an alternative language notice required for this application? (For determination refer to Alternative Language Checklist on the Public Notice Verification Form TCEQ-20244-Waste)

☒ Yes ☐ No

8. Public Place Location of Application

Name of the Public Place: **TCEQ Region 4**

Physical Address: **2309 Gravel Dr.**

City: **Fort Worth** County: **Collin** State: **Texas** Zip Code: **76118**

(Area code) Telephone Number: **817-588-5800**

9. Consolidated Permit Processing

Is this submittal part of a consolidated permit processing request, in accordance with 30 TAC Chapter 33?

☐ Yes ☒ No ☐ Not Applicable

If "Yes", state the other TCEQ program authorizations requested:

10. Confidential Documents

Does the application contain confidential documents?

☒ Yes ☐ No

If "Yes", cross-reference the confidential documents throughout the application and submit as a separate attachment in a binder clearly marked "CONFIDENTIAL."

11. Permits and Construction Approvals

Permit or Approval	Received	Pending	Not Applicable
Hazardous Waste Management Program under the Texas Solid Waste Disposal Act	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Underground Injection Control Program under the Texas Injection Well Act	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
National Pollutant Discharge Elimination System Program under the Clean Water Act and Waste Discharge Program under Texas Water Code, Chapter 26	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Prevention of Significant Deterioration Program under the Federal Clean Air Act (FCAA). Nonattainment Program under the FCAA	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
National Emission Standards for Hazardous Air Pollutants Preconstruction Approval under the FCAA	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Ocean Dumping Permits under the Marine Protection Research and Sanctuaries Act	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Dredge or Fill Permits under the CWA	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Licenses under the Texas Radiation Control Act	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Other (describe)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (describe)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (describe)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (describe)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

12. General Facility Information

Facility Name: 4283929 Delaware, LLC.

Contact Name: **Michael Dunn**Title: **Project Manager**

MSW Authorization No. (if available):

Regulated Entity Reference No. (if issued)*: **RN104271523**Physical or Street Address (if available): **511 New Hope Rd W**City: **McKinney** County: **Collin** State: **TX** Zip Code: **75071**(Area Code) Telephone Number: **469-617-3604**Latitude (Degrees, Minutes Seconds): **33°12'24.65"N**Longitude (Degrees, Minutes Seconds): **96°34'26.37"W**Benchmark Elevation (above mean sea level): **5810ft.**

Provide a description of the location of the facility with respect to known or easily identifiable landmarks: **The facility is located at 511 New Hope Road West; approximately 250 feet southwest of the intersection of FM 2933 and FM 1827.**

Detail access routes from the nearest United States or state highway to the facility: **The route to the facility from McKinney city is to travel North on State Highway 75 and exit West University Drive. Travel 3.5 miles southeast along West University drive and turn north at FM 1827. Travel 0.65 north along FM 1827 and the facility is located to the east.**

*If this number has not been issued for the facility, complete a TCEQ Core Data Form (TCEQ-10400) and submit it with this application. List the Facility as the Regulated Entity.

13. Facility Type(s)

- | | | |
|------------------------------------|-------------------------------------|--|
| <input type="checkbox"/> Type I | <input type="checkbox"/> Type IV | <input checked="" type="checkbox"/> Type V |
| <input type="checkbox"/> Type I AE | <input type="checkbox"/> Type IV AE | <input type="checkbox"/> Type VI |

14. Activities Conducted at the Facility

- | | | |
|---|--|-----------------------------------|
| <input checked="" type="checkbox"/> Storage | <input checked="" type="checkbox"/> Processing | <input type="checkbox"/> Disposal |
|---|--|-----------------------------------|

15. Facility Waste Management Unit(s)

- | | |
|---|---|
| <input type="checkbox"/> Landfill Unit(s) | <input checked="" type="checkbox"/> Incinerator(s) |
| <input type="checkbox"/> Class 1 Landfill Unit(s) | <input type="checkbox"/> Autoclave(s) |
| <input type="checkbox"/> Process Tank(s) | <input checked="" type="checkbox"/> Refrigeration Unit(s) |
| <input type="checkbox"/> Storage Tank(s) | <input type="checkbox"/> Mobile Processing Unit(s) |
| <input type="checkbox"/> Tipping Floor | <input type="checkbox"/> Type VI Demonstration Unit |
| <input type="checkbox"/> Storage Area | <input type="checkbox"/> Compost Pile(s) and/or Vessel(s) |
| <input type="checkbox"/> Container(s) | <input type="checkbox"/> Other (specify): |
| <input type="checkbox"/> Roll-off Boxes | <input type="checkbox"/> Other (specify): |
| <input type="checkbox"/> Surface Impoundment | <input type="checkbox"/> Other (specify) |

16. Description of Proposed Facility or Changes to Existing Facility

Provide a brief description of the proposed activities if application is for a new facility, or the proposed changes to an existing facility or permit conditions if the application is for an amendment.

Not Applicable

17. Facility Contact Information

Site Operator (Permittee/Registrant) Name: Fond Memories

Customer Reference No. (if issued)*: **CN604602185**

Contact Name: **Andrew Winkler**

Title: **Site Manager**

Mailing Address: **511 New Hope Rd. W**

City: **McKinney** County: **Collin** State: **Texas** Zip Code: **75071**

(Area Code) Telephone Number: **469-617-3604**

Email Address:

TX Secretary of State (SOS) Filing Number: **082005719**

*If the Site Operator (Permittee/Registrant) does not have this number, complete a TCEQ Core Data Form (TCEQ-10400) and submit it with this application. List the Site Operator (Permittee/Registrant) as the Customer.

Operator Name¹:

Customer Reference No. (if issued)*:

Contact Name:

Title:

Mailing Address:

City: County: State: Zip Code:

(Area Code) Telephone Number:

Email Address:

TX SOS Filing Number:

¹If the Operator is the same as Site Operator/Permittee type "Same as "Site Operator (Permittee/Registrant)".

*If the Operator does not have this number, complete a TCEQ Core Data Form (TCEQ-10400) and submit it with this application. List the Operator as the customer.

Consultant Name (if applicable):

Texas Board of Professional Engineers Firm Registration Number:

Contact Name:

Title:

Mailing Address:

City: County: State: Zip Code:

(Area Code) Telephone Number:

E-Mail Address:

Agent in Service Name (required only for out-of-state):

Mailing Address:

City: County: State: Zip Code:

(Area Code) Telephone Number:

E-Mail Address:

18. Facility Supervisor's License

Select the Type of License that the Solid Waste Facility Supervisor, as defined in 30 TAC Chapter 30, Occupational Licenses and Registrations, will obtain prior to commencing facility operations.

☐ Class A ☐ Class B**19. Ownership Status of the Facility**

- | | | |
|---|--|---|
| <input checked="" type="checkbox"/> Corporation | <input type="checkbox"/> Limited Partnership | <input type="checkbox"/> Federal Government |
| <input type="checkbox"/> Individual | <input type="checkbox"/> City Government | <input type="checkbox"/> Other Government |
| <input type="checkbox"/> Sole Proprietorship | <input type="checkbox"/> County Government | <input type="checkbox"/> Military |
| <input type="checkbox"/> General Partnership | <input type="checkbox"/> State Government | <input type="checkbox"/> Other (specify): |

Does the Site Operator (Permittee/Registrant) own all the facility units and all the facility property?

☒ Yes ☐ No

If "No", provide the information requested below for any additional ownership.

Owner Name:

Street or P.O. Box:

City: County: State: Zip Code:

(Area Code) Telephone Number:

Email Address (optional):

20. Other Governmental Entities Information

Texas Department of Transportation District: Dallas

District Engineer's Name: **Mohamed "Mo" Bur**

Street Address or P.O. Box: **4777 E. Highway 80**

City: **Mesquite** County: **Dallas** State: **Texas** Zip Code: **75150**

(Area Code) Telephone Number: **(214) 320-6100**

E-Mail Address (optional):

The Local Governmental Authority Responsible for Road Maintenance (if applicable): Dallas District

Contact Person's Name:

Street Address or P.O. Box: **4777 E. Highway 80**

City: **Mesquite** County: **Dallas** State: **Texas** Zip Code: **75150**

(Area Code) Telephone Number: **(214) 320-6100**

E-Mail Address (optional):

City Mayor Information

City Mayor's Name: **George Fuller**

Office Address: **222 N. Tennessee St.**

City: **McKinney** County: **Collin** State: **Texas** Zip Code: **75069**

(Area Code) Telephone Number: **(972) 547-7507**

E-Mail Address (optional):

City Health Authority: Health Compliance

Contact Person's Name:

Street Address or P.O. Box: **410 N. Tennessee St.**

City: **McKinney** County: **Collin** State: **Texas** Zip Code: **75069**

(Area Code) Telephone Number: **(972) 547-**

E-Mail Address (optional): **healthinfo@mckinneytexas.org**

County Judge Information

County Judge's Name: **Chris Hill**

Street Address or P.O. Box: **2300 Bloomdale Rd., Suite 4192**

City: **McKinney** County: **Collin** State: **Texas** Zip Code: **75071**

(Area Code) Telephone Number: **(972) 424-1460**

E-Mail Address (optional):

County Health Authority: Collin County Health Care Services

Contact Person's Name:

Street Address or P.O. Box: **825 N McDonald St., Ste. 145**

City: **McKinney** County: **Collin** State: **Texas** Zip Code: **75069**

(Area Code) Telephone Number: **(972) 548-5500**

E-Mail Address (optional):

State Representative Information

District Number: **70**

State Representative's Name: **Scott Sanford**

District Office Address: **115 West Virginia Street**

City: **McKinney** County: **Collin** State: **Texas** Zip Code: **75069**

(Area Code) Telephone Number: **(972)548-7500**

E-Mail Address (optional):

State Senator Information

District Number: **30**

State Senator's Name: **Pat Fallon**

District Office Address: **3305 South Maryhill Road, Suite 125**

City: **Denton** County: **Denton** State: **Texas** Zip Code: **76208**

(Area Code) Telephone Number: **(940)320-6792**

E-Mail Address (optional):

Council of Government (COG) Name: North Central Texas Council of Governments

COG Representative's Name: **Mr. R. Michael Eastland**

COG Representative's Title: **Executive Director**

Street Address or P.O. Box: **616 Six Flags Drive**

City: **Arlington** County: **Tarrant** State: **Texas** Zip Code: **76005**

(Area Code) Telephone Number: **(817)695-9101**

E-Mail Address (optional):

River Basin Authority Name: Trinity River Authority

Contact Person's Name:

Watershed Sub-Basin Name:

Street Address or P.O. Box: **5300 S. Collins**

City: **Arlington** County: **Tarrant** State: **Texas** Zip Code: **76004**

(Area Code) Telephone Number: **(817) 467-4343**

E-Mail Address (optional):

Coastal Management Program

Is the facility within the Coastal Management Program boundary?

☐ Yes ☒ No

U.S. Army Corps of Engineers

The facility is located in the following District of the U.S. Army Corps of Engineers:

☐ Albuquerque, NM ☐ Galveston, TX
☒ Ft. Worth, TX ☐ Tulsa, OK

Local Government Jurisdiction

Within City Limits of:

Within Extraterritorial Jurisdiction of:

Is the facility located in an area in which the governing body of the municipality or county has prohibited the storage, processing or disposal of municipal or industrial solid waste?

☐ Yes ☐ No

If "Yes", provide a copy of the ordinance or order as an attachment.

Signature Page

I, Kelly Clinton,
(Site Operator (Permittee/Registrant)'s Authorized Signatory)

Vice President
(Title)

certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: [Signature]

Date: Dec 8, 2020

TO BE COMPLETED BY THE OPERATOR IF THE APPLICATION IS SIGNED BY AN AUTHORIZED REPRESENTATIVE FOR THE OPERATOR

I, _____, hereby designate _____
(Print or Type Operator Name) (Print or Type Representative Name)

as my representative and hereby authorize said representative to sign any application, submit additional information as may be requested by the Commission; and/or appear for me at any hearing or before the Texas Commission on Environmental Quality in conjunction with this request for a Texas Water Code or Texas Solid Waste Disposal Act permit. I further understand that I am responsible for the contents of this application, for oral statements given by my authorized representative in support of the application, and for compliance with the terms and conditions of any permit which might be issued based upon this application.

Printed or Typed Name of Operator or Principal Executive Officer

Signature

SUBSCRIBED AND SWORN to before me by the said Kelly Clinton

On this 8th day of Dec., 2020

My commission expires on the N/A day of N/A, N/A

[Signature] Harmanpreet S. Dhillon

Notary Public in and for (City) Ontario, Canada
Guelph County, Texas

(Note: Application Must Bear Signature & Seal of Notary Public)





TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Property Owner Affidavit

I, Kelly Clinton, the owner of record of the property herein described:
BPP at 511 W. New Hope Rd., Collin County, TX as
extracted from Collin County Appraisal District records.

have all rights and covenants to lease, rent, or assign to _____
the property described.

I acknowledge that 4283929 Delaware LLC has, or intends to file for, a registration
to operate a solid waste (whole used or scrap tires) recycling, processing, and/or storage
facility upon such property.

I acknowledge that the State of Texas may hold the undersigned and 4283929 Delaware LLC
either jointly or severally responsible for the operation, maintenance, closure, and any required
post-closure care of the site and facility.

I acknowledge my responsibility to file with the county deed records, upon closure of the site, an
Affidavit to the Public advising that the land has been used for recycling, processing, and/or
storage of waste tires.

I acknowledge the requirement that the site operator/registrant shall have access to the property
described herein for a period of five years or until said registration expires, whichever period is
shorter, for the purpose of operation and maintenance of the site and for the conduct of
business.

WITNESS MY HAND on this 8th day of December, 2020.

[Signature]
Property Owner

SWORN TO AND SUBSCRIBED before me on this 8th day of December, 2020.

Harmanpeters-Dillon, For Guelph ^{City} Ontario
County, Texas, Canada
Notary Public

My Commission Expires: N/A

Part I Attachments

(See Instructions for P.E. seal requirements.)

Required Attachments

Attachment No.

Supplementary Technical Report	PT.1
Property Legal Description	A
Property Metes and Bounds Description	A
Facility Legal Description	A
Facility Metes and Bounds Description	A
Metes and Bounds Drawings	A
On-Site Easements Drawing	A
Land Ownership Map	A
Land Ownership List	A
Electronic List or Mailing Labels	A
Texas Department of Transportation (TxDOT) County Map	A
General Location Map	A
General Topographic Map	A
Verification of Legal Status	A
Property Owner Affidavit	A
Evidence of Competency	A

Additional Attachments as Applicable- Select all those apply and add as necessary

<input type="checkbox"/> TCEQ Core Data Form(s)	N/A
<input checked="" type="checkbox"/> Signatory Authority Delegation	PT1
<input checked="" type="checkbox"/> Fee Payment Receipt	PT1
<input checked="" type="checkbox"/> Confidential Documents	C
<input checked="" type="checkbox"/> Waste Storage, Processing and Disposal Ordinances	PT1
<input checked="" type="checkbox"/> Final Plat Record of Property	B
<input type="checkbox"/> Certificate of Fact (Certificate of Incorporation)	N/A
<input type="checkbox"/> Assumed Name Certificate	N/A

Signature Requirements in 30 TAC §305.44

The purpose of this document is to clarify the signature requirements for water quality permit applications subject to 30 Texas Administrative Code (TAC) section (§)305.44. This includes most applications relating to authorizations issued under 30 TAC Chapter 305 (relating to Consolidated Permits), Chapter 205 (relating to General Permits for Waste Discharges), 30 TAC Chapter 312 (relating to Sludge Use, Disposal and Transportation), and 30 TAC Chapter 321 (relating to Control of Certain Activities By Rule).

TCEQ is currently updating the signatory instructions in its application forms. You may have recently received a notice of deficiency (NOD) letter indicating failure to meet the signatory requirements. Please review the information provided below concerning signatory requirements and have a person authorized to sign under §305.44 and submit the enclosed certification. The certification must clearly indicate the applicant and the original application form subject to the NOD. Upon satisfactory review of your signed certification, your submission will no longer be deficient for failing to meet the signatory requirements.

You are encouraged to use the attached certification page for water quality permit and registration applications, and other authorization forms subject to §305.44, until the forms have been updated.

IF YOU ARE A CORPORATION:

The regulation governing who may sign an application form is 30 TAC §305.44(a)(1) (see attached). According to this provision, any corporate representative may sign an application form so long as the authority to sign such a document has been delegated to that person in accordance with corporate procedures. By signing the application form, you are certifying that such authority has been delegated to you. The TCEQ may request documentation evidencing such authority.

IF YOU ARE A MUNICIPALITY OR OTHER GOVERNMENT ENTITY:

The regulation governing who may sign an application form is 30 Texas Administrative Code §305.44(a)(3) (see attached). According to this provision, only a ranking elected official or principal executive officer may sign an application form. Persons such as the City Mayor or County Commissioner are ranking elected officials. The principal executive officer may be identified in your city charter, county or city ordinances, or the Texas statute(s) under which your governmental entity was formed. An application form that is signed by a governmental official who is not a ranking elected official or principal executive officer does not conform to §305.44(a)(3). The signatory requirement may not be delegated to a government representative other than those identified in the regulation. By signing the application, you are certifying that you are either a ranking elected official or principal executive officer. Documentation demonstrating your position as a ranking elected official or principal executive officer may be requested by the TCEQ.

If you have questions or need additional information concerning the signatory requirements discussed above, please contact either Matt Beeter at (512) 239-1406 or Carol Lear at (512) 239-1025, of the Texas Commission on Environmental Quality's Environmental Law Division.

30 Texas Administrative Code

§305.44. Signatories to Applications.

(a) All applications shall be signed as follows.

(1) For a corporation, the application shall be signed by a responsible corporate officer. For purposes of this paragraph, a responsible corporate officer means a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation; or the manager of one or more manufacturing, production, or operating facilities employing more than 250 persons or having gross annual sales or expenditures exceeding \$25 million (in second-quarter 1980 dollars), if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures. Corporate procedures governing authority to sign permit or post-closure order applications may provide for assignment or delegation to applicable corporate positions rather than to specific individuals.

(2) For a partnership or sole proprietorship, the application shall be signed by a general partner or the proprietor, respectively.

(3) For a municipality, state, federal, or other public agency, the application shall be signed by either a principal executive officer or a ranking elected official. For purposes of this paragraph, a principal executive officer of a federal agency includes the chief executive officer of the agency, or a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., regional administrator of the EPA).

CERTIFICATION

Permit/Registration No. _____

Applicant: 4283929 Delaware LLC

I, Kelly Clinton
Typed or printed name

Vice President
Title

certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

I further certify that I am authorized under 30 Texas Administrative Code § 305.44 to sign this document and can provide documentation in proof of such authorization upon request.

Signature: 

Date: Dec 8, 2020

PART I.A: GENERAL INFORMATION

Facility Name:	4283929 Delaware, LLC.			
Physical or Street Address:	511 New Hope Rd. W			
(City)(County)(State)(Zip Code):	McKinney	Collin	Texas	75071
(Area Code) Telephone Number:	(469) 617-3604			
Charter Number:	N/A			

If the application is submitted on behalf of a corporation, provide the Charter Number as recorded with the Office of the Secretary of State for Texas.

Operator Name:	Fond Memories			
Authorized Individual:	Andrew Winkler			
Mailing Address:	511 New Hope Rd. W			
(City)(County)(State)(Zip Code):	McKinney	Collin	Texas	75071
(Area Code) Telephone Number:	469-617-3604			
(Area Code) Fax Number:	Not applicable			
Charter Number:	Not applicable			

If the permittee is the same as the operator, type "Same as Operator".

Permittee Name:	Same as Operator			
Physical or Street Address:	Same as Operator			
(City)(County)(State)(Zip Code):	Same as Operator			
(Area Code) telephone Number:	Same as Operator			
Charter Number:	Not applicable			

If the application is submitted by a corporation or by a person residing out of state, the applicant must register an Agent in Service or Agent of Service with the Texas Secretary of State's office and provide a complete mailing address for the agent. The agent must be a Texas resident.

Agent Name:	Not Applicable			
Mailing Address:	Not Applicable			
(City)(County)(State)(Zip Code):	Not Applicable			
(Area Code) Telephone Number:	Not Applicable			
(Area Code) Fax Number:	Not Applicable			

Application Type:

<input checked="" type="checkbox"/> Registration	<input type="checkbox"/> Major Amendment	<input type="checkbox"/> Minor Amendment
<input type="checkbox"/> Permit	<input type="checkbox"/> Modification	<input type="checkbox"/> Temporary Authorization
	<input type="checkbox"/> New Registration w/Public Notice	
	<input checked="" type="checkbox"/> w/out Public Notice	<input type="checkbox"/> NOD Response

Facility Classification:

<input type="checkbox"/>	Type I	<input type="checkbox"/>	Type IV	<input checked="" type="checkbox"/>	Type V	<input type="checkbox"/>	Type IX
<input type="checkbox"/>	Type I AE	<input type="checkbox"/>	Type IV AE	<input type="checkbox"/>	Type VI		

Activities covered by this application (check all that apply):

<input checked="" type="checkbox"/>	Storage	<input checked="" type="checkbox"/>	Processing	<input type="checkbox"/>	Disposal
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Waste management units covered by this application (check all that apply):

<input type="checkbox"/>	Containers	<input type="checkbox"/>	Tanks	<input type="checkbox"/>	Surface Impoundments	<input type="checkbox"/>	Landfills
<input checked="" type="checkbox"/>	Incinerators	<input type="checkbox"/>	Composting	<input type="checkbox"/>	Type IV Demonstration Unit	<input type="checkbox"/>	Type IX Energy/ Material Recovery
<input checked="" type="checkbox"/>	Other (Specify)	Refrigeration Units		<input type="checkbox"/>	Other (Specify)		
<input type="checkbox"/>	Other (Specify)			<input type="checkbox"/>	Other (Specify)		

Is this submittal part of a Consolidated Permit Processing request, in accordance with 30 TAC Chapter 33?

☐ Yes ☒ No

If yes, state the other TCEQ program authorizations requested.

Not Applicable

Provide a brief description of the portion of the facility covered by this application. For amendments, modifications, and temporary authorizations, provide a brief description of the exact changes to the permit or registration conditions and supporting documents referenced by the permit or registration. Also, provide an explanation of why the amendment, modifications, or temporary authorization is requested.

See description below.

1. Description of Facility

The 4283929 Delaware, LLC. facility located in McKinney, TX. is a municipal solid waste (MSW) Type V solid waste processing facility. The Type V facility collects waste from local veterinarians and accepts waste from the public. The waste is held in refrigeration units until it is time for controlled burn (i.e. incineration) of animal carcasses. A new registration application is required because the facility is operating a pet crematorium without meeting the buffer zone of at least 50 feet from the property boundary of the site as required by the MSW permit by rule for an animal crematory. The Type V facility is located in the city of New Hope, in Collin County.

Does the application contain confidential material?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
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If yes, cross-reference the confidential material throughout the application and submit as a separate document or binder conspicuously marked "CONFIDENTIAL."

2. Alternative Language Notice Application Form

Alternative language notice confirmation for this application:

1. Is a bilingual program required by the Texas Education Code in the school district where the facility is located? ☒ Yes ☐ No
(If NO, alternative language notice publication not required)

2. If YES to question 1, are students enrolled in a bilingual education program at either the elementary school or the middle school nearest to the facility? ☒ Yes ☐ No

(If YES to question 1 and 2, alternative language publication is required; if NO to question 2, then consider the next question)

3. If YES to question 1, are there students enrolled at either the elementary school or the middle school nearest to the facility who attend a bilingual education program at another location?
☐ Yes ☐ No

(If Yes to question 1 and 3, alternative language publication is required; if NO to question 3, then consider the next question)

4. If YES to question 1, would either the elementary school or the middle school nearest to the facility be required to provide a bilingual education program but for the fact that it secured a waiver from this requirement, as available under 19 TAC 89.1205(g)? ☐ Yes ☐ No

(If Yes to questions 1 and 4, alternative language publication is required; if NO to question 4, alternative language notice publication not required)

If a bilingual education program(s) is provided by either the elementary school or the middle school nearest to the facility, which language(s) is required by the bilingual program?

Note: Applicants for new permits and major amendments must make a copy of the administratively complete application available at a public place in the county where the facility is, or will be, located for review and copying by the public.

Public place where administratively complete permit application will be located.				
Public Place (e.g. public library, county courthouse, city hall, etc.):	TCEQ Region 4			
Mailing Address:	2309 Gravel Dr.			
(City)(County)(State)(Zip Code):	Fort Worth	Collin	Texas	76118
(Area Code) Telephone Number:	(817) 588-5800			

3. Permits, Registrations, or Other Authorizations

Table I-1 provides a listing of all permits, registrations, and/or construction approvals received or applied for the All Paws Go to Heaven, LLC. as required by 30 TAC 305.45(a)(7). There are a total of three programs for this site.

Table I-1: List of Permits and Registrations			
TCEQ Program	Authorization Type	Permit/ ID Number	Status
Air New Source Permits	Permit	152484	Active
Air New Source Permits	Registration	132329	Cancelled
Air New Source Permits	Registration	72078	Active

All Paws Go to Heaven, LLC, located in McKinney, Texas has not applied for any permits or construction approvals under any of the following programs; (1) Hazardous Waste Management Program under the Texas Solid Waste Disposal Act, (2) Underground Injection Control Program under the Texas Injection Well Act, (3) National Pollutant Discharge Elimination System Program under the Clean Water Act and Waste Discharge Program under Texas Water Code, Chapter 26, (4) Prevention of Significant Deterioration (PSD) Program under the Federal Clean Air Act (FCAA), (5) Nonattainment Program under the FCAA, (6) National Emission Standards for Hazardous Air Pollutants (NESHAPS) preconstruction approval under the FCAA, (7) Ocean dumping permits under the Marine Protection Research and Sanctuaries Act, (8) Dredge or fill permits under the Federal Clean Water Act, (9) licenses under the Texas Radiation Control Act, and (10) subsurface area drip dispersal system permits under Texas Water Code, Chapter 32.

PART I.B: FACILITY LOCATION

Except for Type I AE and Type IV AE landfill facilities, for permits, registrations, amendments, and modifications requiring public notice, provide the URL address of a publicly accessible internet web-site where application and all revisions to application will be posted.
www.source-environmental.com

Local Government Jurisdiction:	City of McKinney
Within City Limits of:	McKinney
Within Extraterritorial Jurisdiction of City of:	McKinney
Is the proposed municipal or industrial solid waste disposal or processing facility located in an area in which the governing body of the municipality or county has prohibited the disposal or processing of municipal or industrial solid waste? (If YES< provide a copy of the ordinance):	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

Provide a description of the location of the facility with respect to known or easily identifiable landmarks
The facility is located at 511 New Hope Road West; approximately 250 feet southwest of the intersection of FM 2933 and FM 1827.

Detail the access routes from the nearest United States or state highway to the facility.
The route to the facility from McKinney city is to travel North on State Highway 75 and exit West University Drive. Travel 3.5 miles southeast along West University drive and turn north at FM 1827. Travel 0.65 north along FM 1827 and the facility is located to the east.

Provide the latitudinal and longitudinal geographic coordinates of the facility.

Latitude	33°12'24.65"N
Longitude	96°34'26.37"W
Elevation (above msl)	5810 ft

Is the facility within the Coastal Management Program boundary?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Texas Department of Transportation District Location:

TXDOT District Name & Number:	Dallas			
District Engineer's Name:	Mohamed "Mo" Bur			
Street or P.O. Box:	4777 E. Highway 80			
(City) (County)(State)(Zip Code):	Mesquite	Dallas	Texas	75150
(Area Code) Telephone Number:	(214) 320-6100			
(Area Code) Fax Number:	N/A			

The local government authority or agency responsible for road maintenance:

Agency Name	TxDOT Dallas District			
Contact Person's Name:	Mohamed "Mo" Bur			
Street or P.O. Box:	4777 E. Highway 80			
(City)(County)(State)(Zip Code):	Mesquite	Dallas	Texas	75150
(Area Code) Telephone Number:	(214) 320-6100			
(Area Code)Fax Number:	N/A			

State Representative:

District Number:	70			
State Representative's Name:	Scott Sanford			
District Office Address:	115 West Virginia Street			
(City)(County)(State)(Zip Code):	McKinney	Collin	Texas	75069
(Area Code) Telephone Number:	(972) 548-7500			
(Area Code) Fax Number:	N/A			

State Senator:

District Number:	30			
State Senator's Name:	Pat Fallon			
District Office Address:	3305 South Maryhill Road, Suite 125			
(City)(County)(State)(Zip Code):	Denton	Denton	Texas	76208
(Area Code) Telephone Number:	(940) 320-6792			
(Area Code) Fax Number:	N/A			

Council of Government (COG) Information:

COG Name:	North Central Texas Council of Government			
COG Representative's Name:	Mr. R. Michael Eastland			
COG Representative's Title:	Executive Director			
Street or P.O. Box:	616 Six Flags Drive			
(City)(County)(State)(Zip Code):	Arlington	Tarrant	Texas	76005
(Area Code) Telephone Number:	(817) 695-9101			
(Area Code) Fax Number:	N/A			

River Basin Information:

River Authority:	Trinity River Authority			
Contact Person's Name:	Kevin Ward, General Manager			
Watershed Sub-Basin Name:	Clemons Creek-East Fork Trinity River			
Street or P.O. Box:	5300 S. Collins			
(City)(County)(State)(Zip Code):	Arlington	Tarrant	Texas	76004
(Area Code) Telephone Number:	(817) 467-4343			
(Area Code) Fax Number:	N/A			

This site is located in the following District of the U.S. Army Corps of Engineers:
<input type="checkbox"/> Albuquerque, NM <input checked="" type="checkbox"/> Ft. Worth, TX <input type="checkbox"/> Galveston, TX <input type="checkbox"/> Tulsa, OK

PART I.C: MAPS

Maps and figures as required by 30 TAC 330.59(c) are located in Attachment A of this MSW registration application.

1. General Site Map- Attachment A

For this registration a topographic map, ownership map, county highway map is in Attachment A regarding the regulated facility and associated activities. Maps must be on sheets 8-1/2 inches by

14 inches or and are on a scale of not less than one inch equals one mile. The map depicts the approximate boundaries of the tract of land owned or to be used by the applicant and extends at least one mile beyond the tract boundaries sufficient to show the following:

each well, spring, and surface water body or other water in the state within the map area; the general character of the areas adjacent to the facility, including public roads, towns and the nature of development of adjacent lands such as residential, commercial, agricultural, recreational, undeveloped, etc;

the location of any waste disposal activities conducted on the tract not included in the application; and the ownership of tracts of land adjacent to the facility and within a reasonable distance from the proposed point or points of discharge, deposit, injection, or other place of disposal or activity.

2. General Location Map– Attachment A

The general location map is in Attachment A and is at a scale of one-half inch equals one mile. This map has been prepared by Texas Department of Transportation (TxDOT) and is the latest revision available.

3. Land Ownership Map- Attachment A

We have provided a map that locates the property owned by adjacent and potentially affected landowners. The maps show all property ownership within 500 feet of the facility, on-site facility easement holders, and all mineral interest ownership under the facility.

4. Landowners list- Attachment A

The landowners list of provides the adjacent and potentially affected landowners' list, is keyed to the land ownership map, and has each property owner's name and mailing address. The list includes all property owners within 500 feet of the facility, easement holders, and all mineral interest ownership under the facility. We have provided the property, easement holders', and mineral interest owners' names and mailing addresses derived from the real property appraisal records as listed on the date that the application is filed. The list is also provided in electronic form, as well.

PART I.D: PROPERTY OWNER INFORMATION

This new registration does not request a change in the legal description, a change in ownership, or a change in the existing operator. For permits, registrations, amendments and modifications, the following is provided:

1. The legal description of the facility:

BPP at 511 W New Hope Rd., Collin County, Texas as extracted from Collin County Appraisal District records.

2. a property owner affidavit signed by the owner. – Located at the end of Part I

PART I.E: LEGAL AUTHORITY

Indicate Ownership status of the facility:									
<input type="checkbox"/>	Private	<input checked="" type="checkbox"/>	Corporation	<input type="checkbox"/>	Partnership	<input type="checkbox"/>	Proprietorship	<input type="checkbox"/>	Non-Profit Organization
<input type="checkbox"/>	Public	<input type="checkbox"/>	Federal	<input type="checkbox"/>	Military	<input type="checkbox"/>	State	<input type="checkbox"/>	Regional
<input type="checkbox"/>	County	<input type="checkbox"/>	Municipal	<input type="checkbox"/>	Other (Specify)				

Does the operator own the facility units and the facility property?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
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If "No" for permits, registrations, amendments, and modifications that change the legal description, a change in owner, or a change in operators submit a copy of the lease for the use of or the option to buy the facility units or facility property, as appropriate, and identify:	
Owner Name:	<i>Not Applicable</i>
Street or P.O. Box:	
(City) (County) (State) (Zip Code):	

PART I.F: EVIDENCE OF COMPETENCY

In accordance with 330.59(f)(3), a licensed solid waste facility supervisor shall be employed before commencing facility operation. The following tables provide information on the MSW facility supervisors.

For permits, registrations, amendments, and modifications that change the legal description, a change in owner, or a change in operators submit a list of all Texas solid waste sites that the owner and operator have owned or operated within the last ten years.				
Site Name	Site Type	Permit/Reg. No.	County	Dates of Operation
4283929 Delaware, LLC.	Type V	TBD	Collin	2020
All Paws Go to Heaven, LLC.	Type V	TBD	Collin	2015-present

Submit a list of all solid waste sites in all states, territories, or countries in which the owner and operator have a direct financial interest.			
Site Name	Location	Dates of Operation	Regulatory Agency (Name & Address)
<i>None</i>	<i>None</i>	<i>None</i>	<i>None</i>

A licensed solid waste facility supervisor, as defined in 30 TAC Chapter 30, Occupational Licenses and Registrations will be employed before commencing facility operation.

Provide the names of the principals and supervisors of the owner's and operator's organization, together with previous affiliations with other organizations engaged in solid waste activities.

Name (MSW Facility Supervisors)	Previous Affiliation / Other Organization	Licensed Solid Waste Facility Supervisor?
Casey Springer	Regional Manager	TBD

Landfilling/Earthmoving Equipment Types	Personal Experience or Licenses
<i>Not Applicable</i>	<i>Not Applicable</i>

Solid waste, liquid waste, or mobile waste units owned or operated within past 5 years	Texas and federal final enforcement orders, court judgments, consent decrees, and criminal convictions
<i>Not Applicable</i>	<i>Not Applicable</i>

PART I.G: APPOINTMENTS

Provide documentation that the person signing the application meets the requirements of 30 TAC §305.44, Signatories to Applications. If the authority has been delegated, provide a copy of the document issued by the governing body of the owner or operator authorizing the person that signed the application to act as agent for the owner or operator.

PART I.H: APPLICATION FEES

For a new permit, registration, amendment, modification, or temporary authorization, submit a \$150 application fee.

For authorization to construct an enclosed structure over an old, closed municipal solid waste landfill in accordance with 30 TAC 330 Subchapter T, submit a \$2,500 application fee.

If paying by check, send payment to:

Texas Commission on Environmental Quality
Financial Administration Division, MC 214
P. O. Box 13087
Austin, Texas 78711-3087

Payment maybe made online using TCEQ e-pay at www.tceq.state.tx.us/e-services/

E-pay confirmation number	582EA000411201
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2.0 §330.61 CONTENTS OF PART II OF THE APPLICATION

This section has been prepared to provide information required for all applications. Items required by this section describe the existing conditions and character of the site, waste acceptance plan and surrounding area.

2.1 §330.61 (a) Existing Conditions Summary

The facility is located at 511 New Hope Road West, McKinney, Collin County, Texas. The site is located approximately 0.05 miles northwest from the intersection of FM 1827 and FM 2933, and the site is about 4.2 miles southwest from the McKinney National Airport.

The 4283929 Delaware, LLC., McKinney facility, is located in the Town of New Hope's general business district. The property is currently developed, and there are no conditions requiring special design considerations or mitigations that exist at the site.

2.2 §330.61 (b) Waste Acceptance Plan

2.2.1 §330.61(b)(1)(A) Characteristics and Sources of Waste

The facility will receive the following wastes for storage and processing. Deceased pets (i.e. animal carcasses) will be accepted at the facility or the facility will pick up the deceased pets. There will be no hazardous wastes that will be accepted at the facility. The facility will not accept waste defined in 30 TAC §330.15, regulating General Prohibitions unless otherwise identified in this application and the issued Registration.

The sources and characteristics for the types of waste to be received at the facility include the following:

Deceased pets; animal carcasses

The facility will receive waste from the surrounding area which includes the counties immediately adjacent to Collin County. The facility doesn't anticipate that it will receive waste from other areas of Texas. The facility will receive waste from individuals that drop off the deceased pet or a local pet veterinary.

The maximum amount of deceased pets that are received at the facility can vary from month to month because of seasonal differences, general variability, and other causes. The facility has sufficient space for deceased pets due to the short turnaround time for the process which takes on average three (3) to seven (7) days from the time a pet is received to the time it is cremated. Since the complete process takes less than a week, the facility can take in a varied amount of deceased pets.

The maximum and average length of time that the waste will remain at the facility is shown in the table:

Table 1

Waste Type	Daily Volume Received (pounds)	Maximum Waste Storage (pounds)	Storage of Unprocessed Waste (days)		Time on Site (days)		Processing Time (days)	
			Max	Avg	Max	Avg	Max	Avg
Deceased Pet	4,800	5,000	90	5	90	5	7	3
Total	4,800	5,000	-	-	-	-	-	-

The incoming waste is processed at the facility all in the same manner. The process includes: (1) the unloading of the animal carcasses; (2) the cold storage of the animal carcasses; (3) the preparation of keepsakes per owner requests; (4) the cremation process; and (5) the packaging of the remains or the recycling of the remains. The management of these waste streams will in no way cause the operation of the facility to deviate from the applicable Federal, State, or Local regulations.

There are no constituents or characteristics of these wastes that will impact the design or operation of the facility.

2.2.2 §330.61 (h) Impact on Surrounding Area

The facility is not expected to have any environmental or other impact to the surrounding area. There are some residential homes located within one mile of the facility property boundary; however, there aren't any anticipated impacts to these residential homes located nearby the facility.

The area within five miles of the facility is expected to experience a steady growth. According to the Texas Water Development Board and the USGS topographic map, there are no known water, oil, gas, or any other type of well located within 500 feet of the proposed facility.

2.2.2 §330.61 (h)(2) Character of Surrounding Land Use

Information such as the character of surrounding land uses within one mile of the property is incorporated in the Land Use Map (Part 1). Current land uses within one mile of the property include a mixture of mostly residential, commercial and industrial. There are also vacant undeveloped areas near the facility.

2.2.2 §330.61 (h)(3) Growth Trends

Based on historical aerial photographs (1995-2020), from Google Earth, there has not been significant growth or development in the area immediately surrounding the facility. However, in the past 10 years, there hasn't been much residential or industrial development within five miles of the facility. Located directly south of the facility, there are residential structures that have been there for the last 10 years or more. According to the City of New Hope Texas website, the population remained below 100, from the establishment of New Hope in 1850s to 1960s. The US Census Bureau estimated the population in 2015 to be about 639.

2.2.3 §330.61 (h)(4) Proximity to Residential and Other Uses

As shown in the Land Use Map, (Part 1) there are no schools, no hospitals and only one church located within one mile of the facility boundary. Within one mile of the facility are several residential properties and some commercial properties. The closest commercial property is the New Hope convenience store and it is located approximately 400 feet north of the facility. The nearest residence is located approximately 200 feet south of the facility. There are no historic or archaeologically significant structures or sites having exceptional aesthetic quality within one mile of the facility.

2.2.3 §330.61 (h)(5) Nearby Wells

A water well search and oil and gas well search was performed using the Texas Water Development Board and Texas Railroad Commission databases. According to the database, there are no wells located within 500 feet of the facility boundary.

2.2.4 §330.61 (h)(6) Other Information Required by the Executive Director

Other information required by the Executive Director, if so required, will be provided in this section. At this time, no other information is requested.

2.2.5 §330.61 (i) Transportation

There is only one entrance to the facility. No significant increase in traffic is expected for the area. No road improvements will be required for this facility. Essentially all vehicular traffic associated with this facility will arrive and leave the facility using one of two routes. Access to the facility can be made using FM 1827. All roads are paved roads and are adequate for the transportation vehicles utilizing the facility. All routes have adequate signage to control traffic and allow safe turning where needed.

2.2.6 §330.61 (i)(2) Traffic Volume and Expected Traffic

A map derived from the Texas Department of Transportation (TXDot) Statewide Planning Map available on the TXDot website shows the current and future annual average daily traffic in vehicles per day and their locations within one mile radius of the property boundary.

2.2.7 §330.61 (i)(4) Documentation of Coordination

No designs of proposed public roadways improvements associated with the site are available because none are planned at this time.

2.2.8 §330.61 (c)(5) General Location Maps

The proposed facility is not a landfill unit or a landfill mining operation.

2.3.1 §330.545(b) Nearby Airports

There is one small airport located within six miles of the facility. The airport is McKinney National Airport. Notice of this registration will be provided to the airport as required.

2.3 §330.61(j) GENERAL GEOLOGY AND SOILS STATEMENT

2.3.1 §330.61(j)(1) General Geology Discussion

Operations at the facility will be conducted indoors or on the surface outdoors therefore the subsurface is not expected to be affected. According to the United States Geological Survey (USGS), approximately 49 percent of Collin county at the surface is the Austin Chalk, the remainder is primarily the Ozark Formation, Marlbrook Marl, and Recent Alluvium.

According to the Natural Resources Conservation Service, the surface soil is classified as Eddy gravelly clay loam, with 3 to 8 percent slopes. The typical soil profile is clay loam, generally 0-4 inches and well-drained. Bedrock occurs at the depths ranging from 6-40 inches.

§330.61(k) Groundwater and Surface Water

The Woodbine aquifer in the major groundwater source for Collin County. The Woodbine overlies the Trinity aquifer and consists of sandstone interbedded with shale and clay forming three distinct water-bearing zones.

Operations at the facility will be conducted indoors or on the surface outdoors therefore the groundwater and surface water is not expected to be affected.

Texas Pollutant Discharge Elimination System (TPDES) Compliance

Because the McKinney facility does not perform vehicle maintenance, vehicle or equipment rehabilitation, mechanical repairs, painting, fueling, lubrication, or cleaning within the registration boundary of the facility, the site is not subject to the requirements of the TPDES Multi-Section General Permit as required by Section 402 of the Federal Clean Water Act.

The surface water according to the TCEQ Surface Water Quality (Segments) Viewer is East Fork Trinity River. The facility is not performing any construction activities. Therefore, a stormwater permit for "construction only" is not required.

§330.61(l) Oil and Water Wells

There are no oil and gas wells within the vicinity of the facility that could be affected by the facility's operations. The closest water well to the facility is located 3.26 miles away, and is not anticipated to be affected by the facility operations.

§330.61(m) Floodplain and Wetlands

The facility is not located in a floodplain. There are no soils, vegetations or hydrologic conditions indicative of a wetlands environment.

§330.61(n) Endangered Species

Operation of this facility should not affect any endangered species.

§330.61(o) Texas Historical Commission Review

Letter was sent to Ms. Quana Childs, Project Reviewer for the Texas Historical Commission on September 11, 2020.

There are no significant historical areas associated with this facility.

§330.61(p) Council of Governments and Local Government Review

Email sent to Elena, environmental planner, for review of Part I and II of application. Email can be found in attachments

§330.54(a) Floodplains and Wetlands

The facility is not located within a 100 yr. floodway, map of the facility is located at the end of Part II. According to the FEMA Flood Insurance Rate Map, the All Paws Go to Heaven McKinney facility is located within an area of minimal flood hazard. The chance of flood in the area is 0.2% annually, or outside of the 500-year flood zone. The subject property is currently developed. No wetlands, running, or standing water are known to exist at the property. There are no soils, vegetations or hydrologic conditions present on the property that are indicative of a wetlands environment.

§330.55(a) Endangered or Threatened Species

Based on a review of critical habitat requirements for the endangered or threatened species in Collin County, suitable habitat for listed species is not present within or adjacent to the All Paws Go to Heaven McKinney facility. We can conclude the facility will not result in the destruction or adverse modification of the critical habitat of endangered or threatened species. Information on federally threatened, endangered, and candidate species was obtained from the U.S. Fish and Wildlife Services, Texas Ecological Services Field Office in Southwest website (<https://ecos.fws.gov/ecp/report/species-listings-by-current-range-county?fips=48085>). This information was used to evaluate the McKinney facility location and the adjacent areas for the presence of suitable habitat for the listed endangered or threatened species in Collin County. The table below displays the list of endangered or threatened species in Collin County and critical habitat requirements.

Species Group	Name	Population	Status	Lead Office	Recovery Plan	Recovery Plan Action Status
Clams	Texas heelsplitter	Whenever found	Under Review	2		
Reptiles	Alligator snapping turtle	Whenever found	Under Review	4		
Clams	Texas fawnsfoot	Whenever found	Candidate	2		
Reptiles	Western Chicken turtle	Whenever found	Under Review	2		
Birds	Bald Eagle	U.S.A, conterminous (lower 48) States.	Recovery	3		
Birds	Whooping Crane	Wherever found, except where listed as an experimental	Endangered	2	Whooping Crane Recovery Plan, Final Third Revision	Implementation Progress

Birds	Red Knot	population Wherever found	Threatened	5	Recovery Outline for the Rufa Red Knot (<i>Calidris canutus rufa</i>)	Implementation Progress
Birds	Piping Plover	[Atlantic Coast and Northern Great Plains populations] - Wherever found, except those areas where listed as endangered.	Threatened	5	Piping Plover Atlantic Coast Population Revised Recovery Plan	Implementation Progress
Birds	Piping Plover	[Atlantic Coast and Northern Great Plains populations] - Wherever found, except those areas where listed as endangered.	Threatened	5	Volume I: Draft Revised Recovery Plan for the Northern Great Plains Piping Plover (<i>Charadrius melodus</i>)	Implementation Progress
Birds	Piping Plover	[Atlantic Coast and Northern Great Plains populations] - Wherever found, except those areas where listed as endangered.	Threatened	5	Volume II: Draft revised recovery plan for the wintering range of the Northern Great Plains piping plover (<i>Charadrius melodus</i>) and Comprehensive conservation strategy for the piping plover (<i>Charadrius melodus</i>) in its coastal migration and wintering range in the continental United States.	Implementation Progress

§330.54(a) Easements and Buffer Zones

According to a site plan, created by MySitePlan.com for the purpose of an Air Permit Requirement, the property line to the nearest FM 1827 road is about 60 feet away. No solid waste, unloading, storage, disposal or processing operations will occur within any easement, buffer zone, or right-of-way that crosses the facility. No solid waste disposal will occur.

§330.559 Unstable Areas

There are no on-site or local soil conditions that could result in significant differential settling; no on-site or local geologic or geomorphologic features that could result unstable areas; and no on-site or local human-made features or events (both surface and subsurface), that would be considered as unstable areas (e.g., poor foundation conditions, areas susceptible to mass movement, karst terrains, etc.).

3.0 §330.63 CONTENTS OF PART III OF THE APPLICATION

The Supplementary Technical Report can be found in the Part I Form, Attachment of the application.

3.1 §330.63(a) SITE DEVELOPMENT PLAN

This Site Development Plan (SDP) includes details specific to the proposed Municipal Solid Waste (MSW) Type V facility for which this registration application is being prepared. This SDP addresses criteria providing for the wellbeing of the health, welfare, and physical property of the people and environment through consideration of geology, soil conditions, drainage, land use, zoning, adequacy of access roads, and other considerations as the site dictates usage in the selection of the site and design of the facility.

3.2 §330.63(b)(1) GENERAL FACILITY DESIGN

3.2.1 §330.63(b)(1) Facility Access

The facility will provide access control by a fence which runs fifteen feet along the property. Access to the facility is limited by locking bay doors. There is onsite security until midnight. Additional surveillance is monitored with videos inside the building. There has never been any unauthorized “dumping” of animal carcasses. Therefore, these measures are suitable access control to provide protection for health and safety hazards and to discourage the unauthorized entry by the general public.

3.2.2 §330.63(b)(2) Waste Movement

The treatment process begins as solid wastes which are deceased pets are delivered or picked up by the facility via van/truck. Before pickup or delivery, a manifest is checked to determine the different processing criteria of the deceased pet. Once at the facility, the unloading process of the deceased pet is completed by staff members. The pet is verified using the trusted facility applications and then the pet is stored in the corresponding cold storage unit. All pets are labeled in a specific method and this is how each pet is accounted for. All pets will be carefully marked once arriving at the facility and placed into a cold storage. Once all checks have been completed, the pet is ready to be placed in storage for processing. In order for the deceased pet to be accepted, all waste criteria must be met.

The deceased pet can be received directly from the veterinary clinic or from the owner. Once the facility is in possession of the deceased pets, the pets are placed into a cold storage unit. The pets

are placed in the cold storage unit based on four different processing criteria. The four different criteria include private storage, communal storage, paw print storage, and hold storage. Deceased pets are left in this cold storage unit and only removed before processing for making any memorial products. Once memorial products are made, deceased pets are then placed back in the cold storage unit. Pets remain in the cold storage unit until they are ready to be cremated.

Cremated remains are then processed. For a communal cremation, processed remains are cremated put in sealed buckets and properly labeled. Buckets are then picked up by Bluebonnet Pet Cemetery or an alternative authorized facility that serves the same purpose. The location address is 2706 Bryson Road, Mansfield, Texas in Tarrant County. For a private cremation, processed remains are packaged. Remains that are packaged with processed remains in a plastic bag inside an urn and will then be delivered back to the veterinary clinic or to the pet owners.

A list of processing equipment is identified in Part III, Table 1. The equipment identified in Table 1 includes the cold storage unit, processing units, and other equipment routinely used at the facility. Vans and trucks are used to transport deceased pets and cremation remains to and from veterinary clinics or pet owners. These vans and trucks are parked outside the facility on a daily basis. These vehicles are only used for transportation and are not part of the process. They do not add any storage volume to the facility.

3.2.2.1 §330.63(b)(2)(A) Flow Diagram

A flow diagram indicating the storage, processing, and disposal sequences for the waste received at the facility is found in Part III, Attachment B, Figure B-1 and Figure B-2. Figure B-1 Flow Diagram shows the communal cremation and Figure B-2 shows the private (single pet) cremation.

3.2.2.2 §330.63(b)(2)(B) Schematic View

A schematic view drawing shows the various phases of the receiving, separation, processing, and disposal for the waste streams received at the facility. This diagram is found in part III, Figure 3.

3.2.2.3 §330.63(b)(2)(C) Ventilation and Odor Control

All of the waste management activity will take place within an enclosed building with doors opening to the interior of the property. This will prevent odors from leaving the property boundary. There will be no loading or unloading of the waste outside of the property boundary. Building openings such as doors and windows will be controlled for ventilation and to prevent

the release of nuisance odors from leaving the property boundary of the facility. Odor will also be controlled by minimizing contact between unprocessed waste and air also by following good housekeeping practices. If any odor is detected past the property boundary, other odor control measures will be taken and implemented as necessary.

3.2.2.4 §330.63(b)(2)(D) Generalized Construction Details Storage and Processing Units

Generalized construction details including the drawing of the building can be found in Part III, Attachment B, Figure B-3.

3.2.2.5 §330.63(b)(2)(E) Generalized Construction Details Slab and Subsurface Support

The facility is not at risk to have any spills outside the facility or property boundary. Therefore, no additional construction details for slab and subsurface support are needed at this time. Should this change in the future, details will be provided to TCEQ.

3.2.2.6 §330.63(b)(2)(F) Location and Engineering Design Details

A summary and plan layout of the facility are included in Attachment B, Part III, Figure B-4.

3.2.4 §330.63(b)(2)(H) Disposition of Effluent

No wastewater is generated by the process and there is no effluent from the facility. Therefore, there is no disposition of effluent that will need to be addressed for this facility or the process at this facility.

3.2.5 §330.63(b)(2)(I) Noise Pollution Control

All waste processing will take place within the processing building. Building openings will be controlled to prevent noise pollution from leaving the property boundary of the facility.

3.2.6 §330.63(b)(3) Sanitation

The processing facility and equipment will be inspected regularly and cleaned as required in Part IV of this application. Floors and walls will be inspected for any type of waste spill. Processing units will be cleaned and maintained on a regular basis.

3.2.7 §330.63(b)(4) Water Pollution Control

There will be no surface water discharges from the waste storage and processing areas. Any waste that has been spilled will be cleaned immediately in order to prevent any offsite discharge. All wastes are solid and there are no liquid wastes at the facility from the process.

3.3.1 §330.63(d)(1)(A) Storage and Transfer Units

The number and size of the storage units have been selected to provide the facility with the capacity to process waste received each day. The facility has the capability to process 100 lbs/hr per chamber. The holding of all solid waste is minimized. The management of the waste will not be allowed to result in nuisances or public health hazards.

Anticipated processing rates and storage times for unprocessed and processed material are described in Part II, Waste Acceptance Plan.

The facility is designed to control measures for individual containment areas.

3.4 §330.63(f)(7)(A) Groundwater and Sampling Analysis Plan

This is not applicable to the site. This applies to landfill units.

3.5 §330.457(f) Closure Plan

This facility is not a landfill and therefore the requirements of 330.457 (f) are not applicable. All waste and waste residue will be removed from the site at the time of closure and there are no applicable required monitoring programs. Therefore, a post closure plan is not required for the MSW Type V Facility. Should TCEQ require closure documents and an inspection, this information will be provided to them, if requested.

3.6 §330.461 Notice of Closure

Due to the type of facility, no notice is required to be published due to closure of the facility. No unauthorized dumping has occurred at the facility in the past nor is it anticipated to occur in the future. Therefore, it is not required for barriers to be put in place at the facility to prevent unauthorized dumping. This is due to the nature of the facility.

3.7 §330.459 Closure Plan Requirements

A closure plan is not required for the MSW Type V Facility.

3.8 §330.465 Final Closure

All units will be removed prior to closing of the facility. No waste will be left at the facility prior to closing the facility. No waste is stored outdoors.

3.9 §330.505 Outdoor Storage

No wastes are stored outdoors at the facility. Therefore, a closure cost and financial assurance are not required for the facility.

4.0 §330.65 CONTENTS OF PART IV OF THE APPLICATION

4.1 §330.675 Site Operating Plan

Required reports requested by the TCEQ will be provided in accordance with 30 TAC §330.675. The Site Operating Report (SOP) provides general procedures for the day-to-day facility operations. The SOP will be retained during the active life of the facility. The SOP is designed to provide a description of how the requirements of 330 TAC Subchapter E will be implemented. This SOP is found in Attachment C, Figure C-1.

4.2 §330.65(d) Grease, Grit, and Septage Processing Facility

The facility does not process grease, grit, or septage and therefore this is not applicable to the facility.

4.3 §330.203 Waste Acceptance and Analysis

The facility accepts solid wastes which are deceased pets. The facility receives this waste for processing which includes cremation of the pet. Remains of the pet are returned to the owner or disposed of at an authorized disposal facility. The facility does not accept hazardous waste processing and all waste received at the facility will be compatible with this type of treatment facility. The facility will not accept waste defined in 30 TAC §330.15, relating to General Prohibitions unless otherwise identified in this application and issued in the registration.

The treatment process begins with the deceased pet, and either delivered to the facility by the pet owner or picked up by the facility. Once the facility is in possession of the deceased pet, the pet is placed into a cold storage unit based on four different processing criteria. This criterion is discussed previously in Part III of this application. Deceased pets are left in this cold storage unit and only removed before processing for making any memorial products. Once memorial products are made, deceased pets are then placed back in the cold storage unit. Pets remain in the cold storage unit until they are ready to be cremated.

If the facility picks up the pet, the pet is picked up via small truck or van owned by the facility. The vehicle enters the property boundary via the gate and parks in the back area behind the building in order to off load the deceased pets. Pets are then stored in their respective location until it is time for the pets to be cremated.

The management of these waste remains will in no way cause the operation of the facility to deviate from any applicable Federal, State, or Local regulations. There are no unusual

constituents or characteristics associated with these wastes that will impact the design or operations of the facility.

4.3.1 §330.203(a) Source and Characteristics of Waste

All waste generated at the facility is considered to be non-hazardous waste. The source, the deceased pet is picked up from the facility. The deceased pet can be picked up directly from the veterinarian office or from the pet's home. Once the deceased pet is transported to the facility, the facility has an unloading process for the deceased pet. One of the duties includes verifying the pet and any special request needed. The other duty includes transporting the pet to the appropriate storage location. There are two walk-in restaurant type freezers, each shelf has a specific category. The categories include private storage, communal storage, paw print storage, and hold storage. Based on the request by the deceased pet owner, the pet will be stored at the appropriate storage location. Each deceased pet has a unique number that is documented in the facility records. This number will need to be matched in order to ensure that the pet is being stored in the correct location and that the cremated remains go back to the correct pet owner. Once all special requests have been completed on the pet, it will then go through the process of being cremated. The remains from the cremation will be returned to the pet owner, if requested. If the pet owner does not want the remains back, then the facility is contracted with Blue Bonnet Pet Cemetery or another authorized pet cemetery.

4.3.2 §330.203(b) Types and Estimated Amounts of Waste

The maximum amount of deceased pets that are received at the facility can vary from month to month. The facility has sufficient space for deceased pets due to the turnaround time for the process takes three (3) to five (5) days for a pet to be cremated. Since the complete process takes less than a week, the facility can take in a varied amount of deceased pets. The maximum and average length of time that the waste will remain at the facility is shown below:

Table 3

Waste Type	Daily Volume Received (pounds)	Maximum Waste Storage (pounds)	Storage of Unprocessed Waste (days)		Time on Site (days)		Processing Time (days)	
			Max	Avg	Max	Avg	Max	Avg
Deceased Pet	4,800	5,000	90	5	90	5	7	3
Total	4,800	5,000	-	-	-	-	-	-

Once the cremation process occurs, the remains are sent either to the pet owner or the approved facility that is contracted to pick up the remains. The approved facility is Blue Bonnet Pet Cemetery. The recycled waste will be at least 10% of the total incoming waste, as stated in 30 TAC.203(b), and the facility will maintain records on a quarterly basis to provide this information to the TCEQ, if requested. The owner or operator shall determine types and an estimate of the amount of each waste to be received daily; the maximum amount of waste to be stored at any one point in time; the maximum and average lengths of time that waste is to remain at the facility; the maximum and average waste processing times; and the intended destination of the solids and liquids generated by a facility. If applicable, a narrative must be included that describes how 10% of the incoming waste will be recovered and its intended use.

4.4.1 §330.9(g)(1) Quarterly Reports

The facility will provide quarterly reports to the TCEQ. These quarterly reports will include the volume of the waste received, the amount of waste processed, and the amount of waste recycled. The records will be kept at the facility on site and will be updated on a regular basis as needed.

4.5 §330.205 Facility Generated Wastes

4.5.1 §330.205(a) Characteristics of Facility Generated Wastes

Wastes generated by the facility are cremation remains of the deceased pets. The waste is then either taken to the pets owners or picked up by a permitted facility. There are no other wastes generated at the facility.

4.5.1.1 §330.205(b) Processing or Disposal of Facility Generated Waste

All solid waste generated by the facility can be adequately managed by this facility and/or TCEQ approved disposal facilities.

4.5.1.2 §330.205(c) Wastewater Management

There are no wastewaters generated by the facility so this is not applicable for the facility.

4.5.1.3 §330.205(d) Facility Generated Sludge

There is not any sludge generated by the facility so this is not applicable for the facility.

4.5.2 §330.207 Contaminated Water Management

There is no risk of having any contaminated water at the facility from the process. There are no storage tanks at the facility. There are no mining processes that take place at the facility. Therefore, §330.207 is not applicable to the facility.

4.5.3 §330.209 Storage Requirements

4.5.3.1 §330.209(a) Storage of Solid Waste

All waste will be stored in a manner that does not constitute a fire, safety or health hazard or provide food or harborage for animals and vectors and shall be contained so as not to result in litter. All storage containers will be of adequate size and strength and in sufficient numbers to contain all waste generated at the facility.

4.5.3.2 §330.205(b) and (c) Source Separated or Recycled Material

Information required by this provision is not applicable to this MSW Type V Facility.

4.5.4 §330.211 Approved Containers

Information required by this provision is not applicable to this MSW Type V Facility.

4.5.5 §330.213 Citizen's Collection Stations

Information required by this provision is not applicable to this MSW Type V Facility.

4.5.6 §330.215 Requirements for Stationary Compactors

Information required by this provision is not applicable to this MSW Type V Facility.

4.5.7 §330.219 Recordkeeping and Reporting Requirements

The facility will maintain all records required by §330.219.

4.5.7.1 §330.219(a) Facility Maintained Records

A copy of the registration, the approved registration application, and all other required plans or related documents will be maintained at the facility or an alternate location approved by the executive director. All plans will be considered part of the operating record for the facility. These plans will be available for inspection by agency representatives.

4.5.7.2 §330.219(b) Required Records for Recordkeeping

Information and data will be promptly recorded in the operating record and retained at the facility during the active life of the facility. The owner or operator will promptly record and retain the following information in the operating record:

- (1) Any and all applicable location restrictions demonstrations
- (2) Inspection records and training procedures
- (3) Closure plans and any monitoring, testing, or analytical data related to closure requirements.
- (4) Copies of all correspondence and responses relating to the operation of the facility, modifications to the registration, approvals, and other matters pertaining to the technical assistance.
- (5) All documents, manifests, shipping documents, trip tickets, etc., involving special waste.
- (6) Any other documentation as specified by the approved authorization or by the executive director.
- (7) Recordkeeping provisions to justify, on a quarterly basis, that the relevant percentage of the incoming waste is processed to recover recycle products for applicable facility. The owner or operator shall submit an annual report to the Executive Director by March 1st summarizing the recycling activities and percent of incoming waste that was recycled during the past calendar year.

4.5.7.3 §330.219(c)(2) Assignment of New Signatory

If an authorization under this section is no longer accurate because of a change in individuals or position, a new authorization satisfying the requirements of §330.219(c) will be submitted to the Executive Director prior to or together with any reports, information, or applications signed by an authorized representative.

4.5.7.4 §330.219(c)(3) Signatory Certification Statement

Authorized signatories will make the certification in 30 TAC §305.44(b).

4.5.7.5 §330.219(d)(2) and §330.219(d)(3) Maintaining Records Onsite

The facility will maintain all records onsite for review by the agency. Annual reports will be maintained and available at the facility for a minimum of five years.

4.5.7.6 §330.219(e) Records Availability

All information contained in the operating record will be furnished upon request to the Executive Director and will be made available at all reasonable times for inspection by the executive director.

4.5.7.7 §330.219(f) Records Retention

The owner or operator will retain all information contained within the operating record and the different plans required for the facility for the life of the facility.

4.5.7.8 §330.219(f) Alternate Recordkeeping Schedule

The Executive Director may set an alternate schedule for recordkeeping and notification requirements as specified in subsections §330.219(a)-(e).

4.5.7.9 §330.221 Fire Protection

An adequate supply of water under pressure will be available for firefighting purposes. Firefighting equipment will be available as required by local fire codes.

A Fire Protection Plan has been developed. All employees will be properly trained in the contents and use of this Fire Protection Plan. If local fire codes are changed, the Fire Protection Plan will be revised as needed. The Fire Protection Plan is found in Attachment C, Figure C-2.

4.5.8 §330.223 Access Control

4.5.8.1 §330.223(a) Public Access Control

Public access, from the parking lot to the bay doors of the facility, is controlled by a wooden fence in order to protect human health and safety and the environment. Uncontrolled access to the facility, to include offices, storages, and processing areas shall be prevented. An attendant onsite will be available during operating hours. Access control will be maintained when waste handling activities are occurring.

4.5.8.2 §330.223(b) Facility Access Road

The facility access is a two lane road designed for the expected traffic flow. There are adequate turning radii for all transportation vehicles that will utilize the facility. Parking will be provided for transportation trucks, employees, and visitors.

4.5.8.3 §330.223(c) Perimeter Access

Perimeter access is limited by periodic visual checks and by a security force present 16 hours a day. There is no perimeter fence or other physical structure to control access

4.5.9 §330.225 Unloading of Waste

4.5.9.1 §330.225(a) Waste Unloading Area

Incoming trucks will enter the facility through the access parking lot. The unloading of the deceased pets will be unloaded in the rear of the facility inside the fence. Employees will be present during the unloading of the deceased pets into the facility. The facility is not required to accept any waste that is determined to cause or that may cause a problem to maintain full and continuous compliance with this application or the approved registration.

4.5.9.2 §330.225(b) Prohibitions on Waste Unloading Area

The unloading of waste in unauthorized areas is prohibited. The facility will ensure that any waste that is deposited in an unauthorized area will be promptly removed and managed appropriately. The facility will maintain records of material that is removed from the site.

4.5.9.3 §330.225(c) Prohibitions on Incoming Waste Streams

All wastes accepted will be transported by the facility and therefore this does not apply to the facility.

4.5.10 §330.227 Spill Prevention and Control

Information required by this provision is not applicable to this MSW Type V Facility.

4.5.11 §330.229 Facility Operating Hours

4.5.11.1 §330.229(a) Specific Operating Hours

The facility may receive any deceased pets seven days a week which include Monday through Sunday and 24 hours a day. This is to include operating hours and any after hours and weekend emergency calls. The air permit allows the facility to work from dawn to dusk, as some deliveries will occur on weekends.

4.5.11.2 §330.229(b), (c), and (d) Alternative and Temporary Operating Hours

Information required by this provision is not applicable to this MSW Type V Facility.

4.5.12 §330.231 Facility Sign

A sign will be conspicuously displayed at the entrance of the facility. The facility sign will measure a minimum of four feet by four feet with letters at least three inches in height stating the following:

*Facility Name

*Type of Facility

*Hours and days of operations

*Registration Number

*Facility Rules (if applicable)

Additional information may be added to the sign per the discretion of facility management. Additional signs, regarding such site rules such as speed limits and exclusions of waste may also be posted.

4.5.13 §330.233 Control of Windblown Material

Windblown litter is not anticipated for this facility because all processes will occur within the enclosed building. Additionally, waste is managed through enclosed systems. When windblown litter is found, it will be picked up at least once per day on the days the facility is in operation to minimize unhealthy, unsafe, or unsightly conditions. Additional fencing or screening will not be required due to the nature of the incoming waste.

4.5.14 §330.235 Materials along the Route to the Facility

Information required by this provision is not applicable to this MSW Type V Facility.

4.5.15 §330.237 Facility Access Roads

4.5.15.1 §330.237(a) All Weather Roads

Paved surfaces are provided within the facility for wet weather operations. All weather surfaces will be maintained to prevent the tracking of mud and debris onto public roadways.

4.5.15.2 §330.237(b) Dust Control

Dust from onsite and other access roadways are not anticipated as onsite and other access roads to the facility are paved.

4.5.15.3 §330.237(c) Access Road Maintenance

There are no onsite roadways at the facility. The parking lot and driveways will be maintained on a regular basis to minimize depressions, ruts, and potholes, as appropriate. Offsite access roads and their repairs are under the jurisdiction of the City of McKinney and/or TxDOT.

4.5.16 §330.239 Noise Pollution and Visual Screening

The transfer and/or unloading of waste will occur approximately 10 feet from the open bay doors. The fence, that is installed to prevent public access, is an 8-foot-high barrier used to prevent visual observation from outside the facility. Steps will be taken to minimize the amount of noise pollution generation from the site. While most of the activity will take place within the processing building, steps to reduce noise pollutions outside of the building may include, but not limited, to turning waste transport vehicles off during loading and unloading.

4.5.17 §330.241 Overloading and Breakdown

The design capacity of the facility did exceed in the past, but we do not anticipate exceeding the design capacity, in the event design capacity is exceeded, an authorized alternate facility will be contacted and the exceedance will be transferred. The facility can start the cremation process at a rate that the facility can handle and can control how many cremations are taking place at once. There will not be any anticipated odors with this because all deceased animals are kept in a freezer prior to the cremation process. Maximum storage times can be found in part II of this application.

The maximum number, size, type, and function of the equipment to be utilized at the facility are based on the estimation of deceased pets that the facility will receive. If a major mechanical breakdown or a significant work stoppage occurs which won't allow for the deceased pets to stay in the freezer or be cremated, no additional waste will be accepted by the facility.

There will be no grease, grit or septage at the facility and therefore no storage of these types of waste will be included in this registration. If there is an extended breakdown, all incoming material will be diverted to another approved facility.

4.5.18 §330.243 Sanitation

All working surfaces that come into contact with wastes shall be washed down on a weekly basis at the completion of processing. If continual operations are conducted, exposed working surfaces that come into contact with waste material will be swept daily and cleaned thoroughly to ensure all waste is cleaned up promptly. All wastes are solid waste and there will not be any wash waters involved in the sanitation process.

4.5.19 §330.245 Ventilation and Air Pollution Control

4.5.19.1 §330.245(a) Air Emissions

The facility will not cause or contribute to air pollution as defined in the Texas Clean Air Act. All in plant driveways and work areas will be cleaned by pressure washing as necessary to obtain maximum control of dust emissions.

4.5.19.2 §330.245(c)-(f) Odor Control and Ventilation

The facility will be designed and operated to provide adequate ventilation for odor control and employee safety. All activities that could result in the increased emissions will be conducted in such a manner that does not create a nuisance condition. Building openings such as doors and windows will be controlled for ventilation and to prevent the release of nuisance odors from leaving the property boundary of the facility. Odor will also be controlled at the facility by minimizing contact between unprocessed waste and air and following good housekeeping practices.

4.5.19.3 §330.245(g) Recovery of Material

This is not applicable for the facility.

4.5.19.4 §330.245(h) Exposure of Liquid Waste

This is not applicable for the facility.

4.5.19.5 §330.245(j) Emissions Event Reporting and Recordkeeping

The facility will promptly notify the TCEQ and local air pollution control programs defined in 30 TAC §101.201(a) of any reportable emissions event that in any 24-hour period. For emissions events that are not reportable, records will be maintained as required under 30 TAC §101.201(b).

4.5.19.5 §330.245(k) Controlling Ponded Water

This is not applicable for the facility.

4.5.20.1 §330.247 Health and Safety

Facility personnel will be trained in the appropriate sections of the facility's health and safety plan. The Site Health and Safety Plan for this facility is included in Part IV Attachments.

4.5.21.1 §330.249 Employee Sanitation Facilities

Potable water and sanitary facilities are provided for all employees and visitors.

ATTACHMENT A

FIGURES/MAPS

General Site Map

General Location Map

Landowners Map

Landowners List

Boundary Metes and Bounds Description

Property Drawing (Boundary Metes and Bounds Description)

Wind Rose Map

General Topographic Map

Aerial Photograph

Land-Use Map

Published Zoning Map

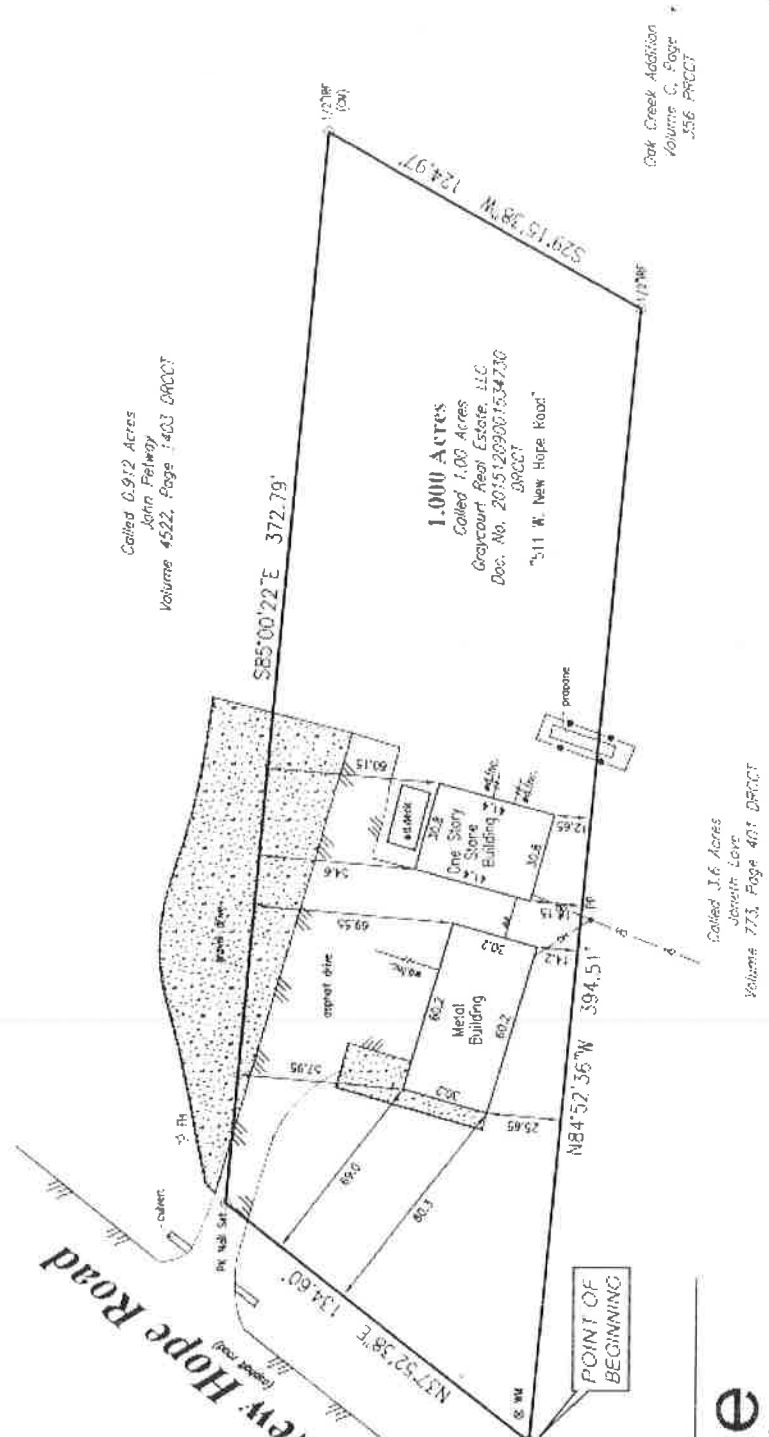
FEMA Map



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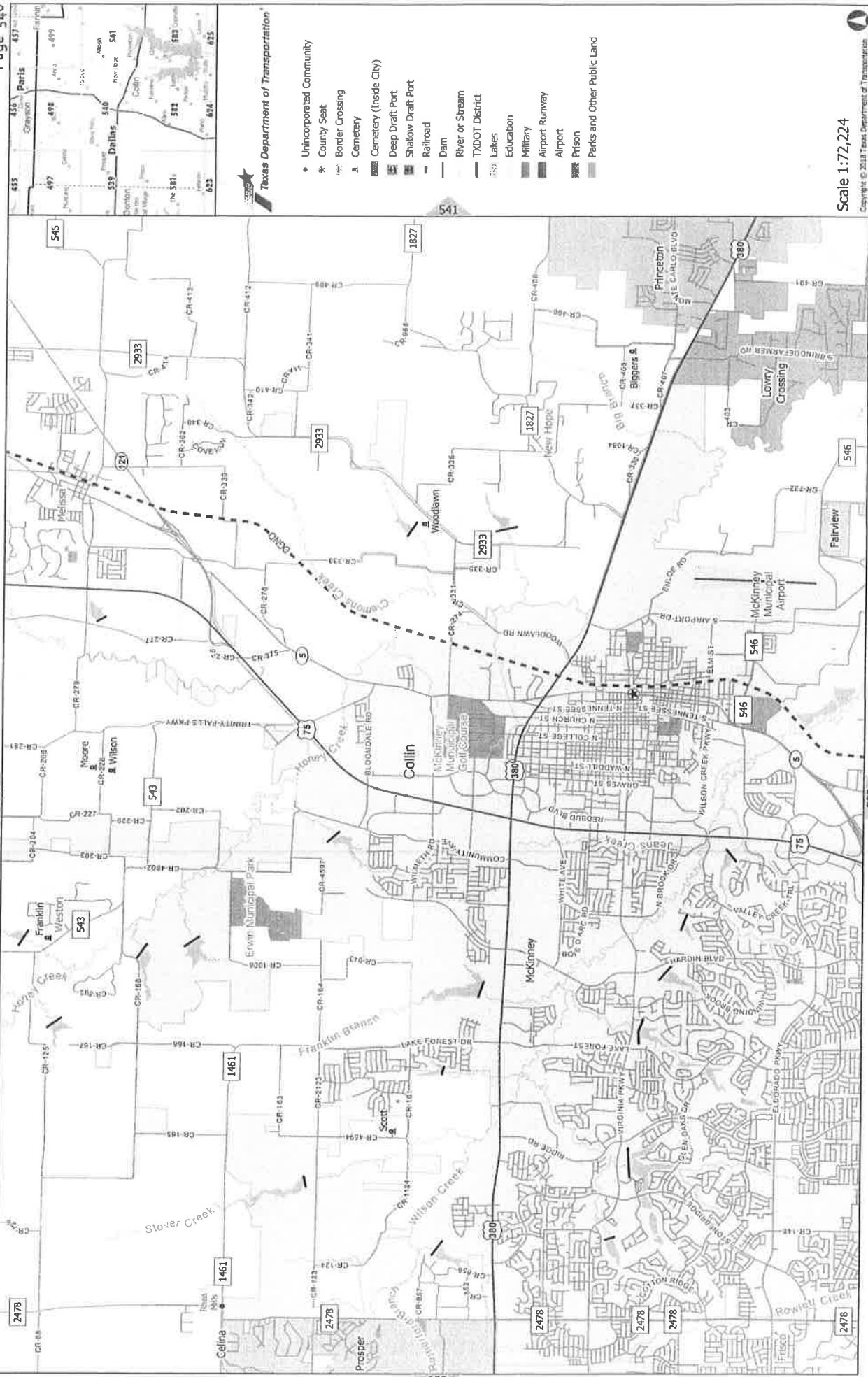


Legend

	Light Pole
	Fire Hydrant
	Power Pole
	Overhead Lines
	Chain Link Fence
	Wood Fence

Figure I.C (1) - General Site Map
Fond Memories, Type V Facility
Collin County, Texas
Date: December 2020
Page: A-2

SOURCE
ENVIRONMENTAL SCIENCES, INC.



Disclaimer: This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes. It does not represent an on-the-ground survey and represents only the approximate relative location of property boundaries.



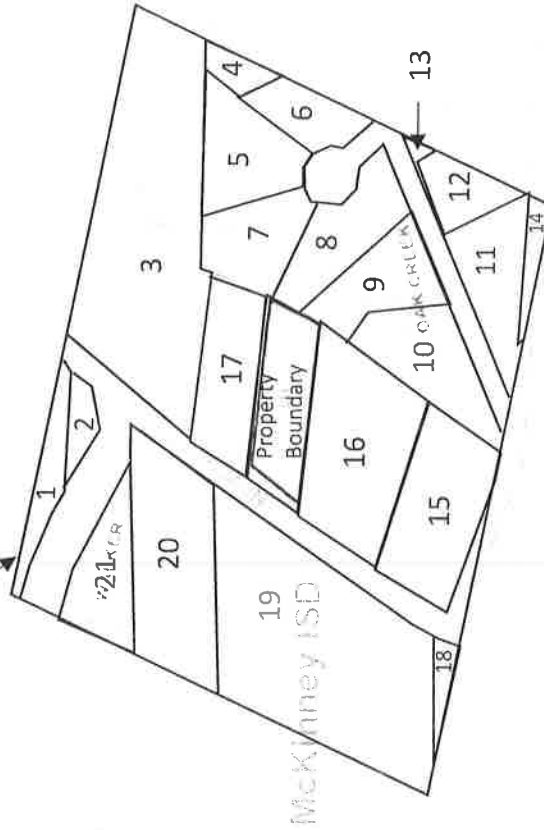
Layers

500 FOOT BUFFER



James E. Brinkman
12/10/20

A0157



Map Legend

- Abstracts
- Cities
- Lakes
- Parcels
- Railroads
- Roads
- School Districts
- Subdivisions

Real Property Search

Owner Name

Go!

Address

511

new_hope

Go!

Matching properties if property
Displaying all 1 results

Owner Name

SEBECOST REAL ESTATE LLC

Siteus Address

511 W New Hope Rd
McKinney, TX 75069

9



If you'd prefer to use a standalone version of this map, please [click here](#)

Landowner's List

1.

MCKINNEY HILL PARK LLC
924 S BELT LINE ROAD
COPPELL TX 75019

2.

A AND A EXCLUSIVE LLC
420 FOUR STONES BLVD
LEWISVILLE TX 75056

3.

OXFORD BARBARA J
PO BOX 215
MCKINNEY TX 75070

4.

HUGHES KELLY L AND JILL
211 OAK CREEK DRIVE
MCKINNEY TX 75071

5.

HOFFMAN CONNIE
110 OAK CREEK DRIVE
MCKINNEY TX 75071

6.

BHARGAVA MARINA
12100 LAVINIA LANE
AUSTIN TX 78753

7.

RUTLEDGE MICHAEL LEON AND VICKI
111 OAK COURT
MCKINNEY TX 75071

8.

WOOD WILLIAM E
121 OAK CREEK DRIVE
MCKINNEY TX 75071

9.

BOURLAND MARCUS AND MANDY
111 OAK CREEK DRIVE
MCKINNEY TX 75071

10.

BURKE DARLENE A
212 S VILLAGE DRIVE
MCKINNEY TX 75071

11.

HOWARD ROBERT AND MELINDA
100 OAK CREEK DRIVE
MCKINNEY TX 75071

12.

LUNA WAYNE AND CONNIE
3444 FM 1461
MCKINNEY TX 75071

13.

SAMMONS PATRICK M AND LETITIA
120 OAK CREEK DRIVE
MCKINNEY TX 75071

14.

MCGINTY DENNIS
2555 STICKHORSE LANE
MCKINNEY TX 75071

15.

PETTY LIVING REVOC TRUST
561 W NEW HOPE ROAD
MCKINNEY TX 75071

16.

ESTATE OF LOVE JONETH WILLIAM JR
521 W NEW HOPE ROAD
MCKINNEY TX 75071

17.

PETWAY JOHN AND DEBBIE
501 W NEW HOPE ROAD
MCKINNEY TX 75071

18.

TALIAFERRO JAMES D AND FRANCES K
610 W NEW HOPE ROAD
MCKINNEY TX 75071

19.

NEW HOPE HOLDINGS LLC
560 W NEW HOPE ROAD
MCKINNEY TX 75071

20.

SMITH RONNIE ELVERT
500 E NEW HOPE ROAD
MCKINNEY TX 75071

21.

CASTLE JOYCE
FM 2933
MCKINNEY TX 75071



2000 Avenue G, Suite 810
Plano, Texas 75074

Phone (972) 423-4372 / Fax (972) 423-7523
www.roomesurveying.com / Firm No. 10013100

Property Description

SITUATED in the State of Texas, the County of Collin and the City of New Hope, being part of the H. T. Chenoweth Survey, Abstract No. 157, being all of a called 1.00 acre tract conveyed to Graycourt Real Estate, LLC by deed recorded in Document No. 20151209001534730 of the Deed Records of Collin County, Texas and being more particularly described as follows:

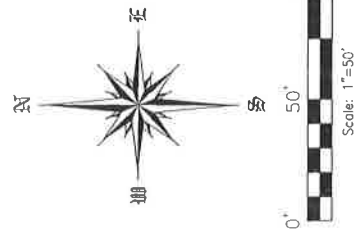
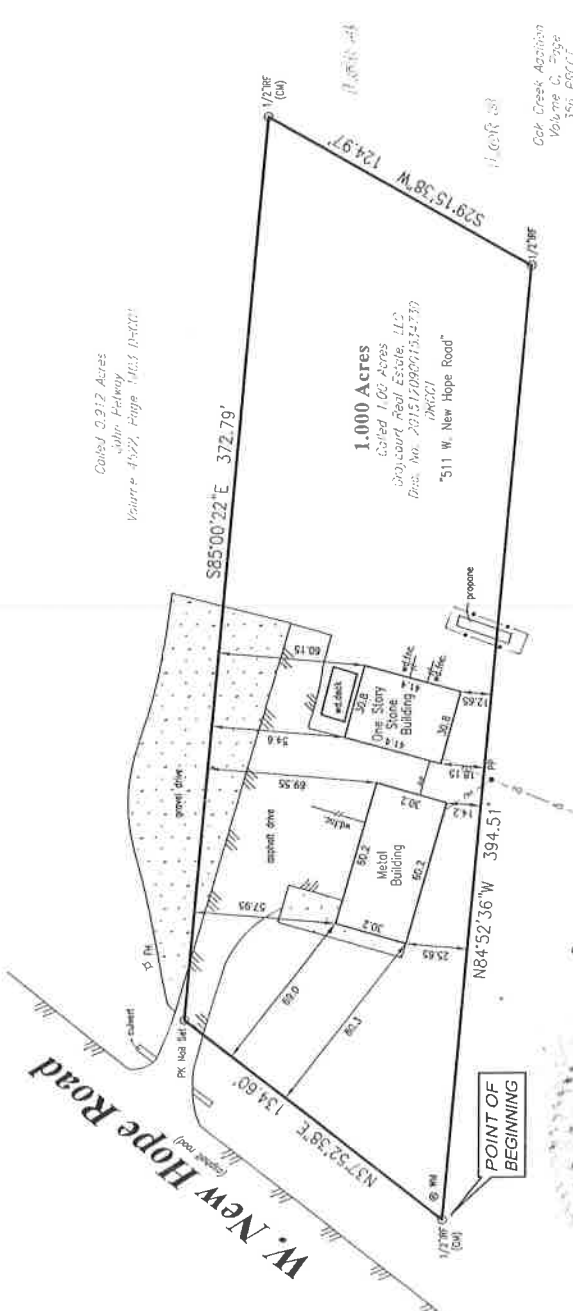
BEGINNING at a 1/2 inch iron rod found for corner in the east right-of-way line of W. New Hope Road and marking the northwest corner of a called 3.6 acre tract conveyed to Joneth Love by deed recorded in Volume 773, Page 401 of the Deed Records of Collin County, Texas and the southwest corner of said 1.00 acre tract;

THENCE with said East right-of-way line and the west line of said 1.00 acre tract, North 37°52'38" East, 134.60 feet to a PK Nail set for corner in an asphalt driveway marking the southwest corner of a called 0.912 acre tract conveyed to John Pelway by deed recorded in Volume 4522, Page 1403 of the Deed Records of Collin County, Texas and the northwest corner of said 1.00 acre tract;

THENCE with the south line of said 0.912 acre tract and the north line of said 1.00 acre tract, South 85°00'22" East, 372.79 feet to a 1/2 inch iron rod found for corner in the west line of Oak Creek Addition, an addition to the City of New Hope, Collin County, Texas, according to the plat thereof recorded in Volume C, Page 356 of the Plat Records of Collin County, Texas and marking the southeast corner of said 0.912 acre tract and the northeast corner of said 1.00 acre tract;

THENCE with the west line of Oak Creek Addition and the east line of said 1.00 acre tract, South 29°15'38" West, a distance of 124.97 feet to a 1/2 inch iron rod found for corner marking the northwest corner of said 3.6 acre tract and the southeast corner of said 1.00 acre tract;

THENCE with the north line of said 3.6 acre tract and the south line of said 1.00 acre tract, North 84°52'36" West, 394.51 feet to the POINT of BEGINNING and containing 1.000 acres of land, more or less.



Legend	
Roome Capital	Roome Capital
Deed Record Collin County Texas	Deed Record Collin County Texas
Plat Record Collin County Texas	Plat Record Collin County Texas
Iron Rod Found	Iron Rod Found
Controlling Monument	Controlling Monument
Light Pole	Light Pole
Fire Hydrant	Fire Hydrant
Power Pole	Power Pole
Overhead Line	Overhead Line
Chain Link Fence	Chain Link Fence
Wood Fence	Wood Fence

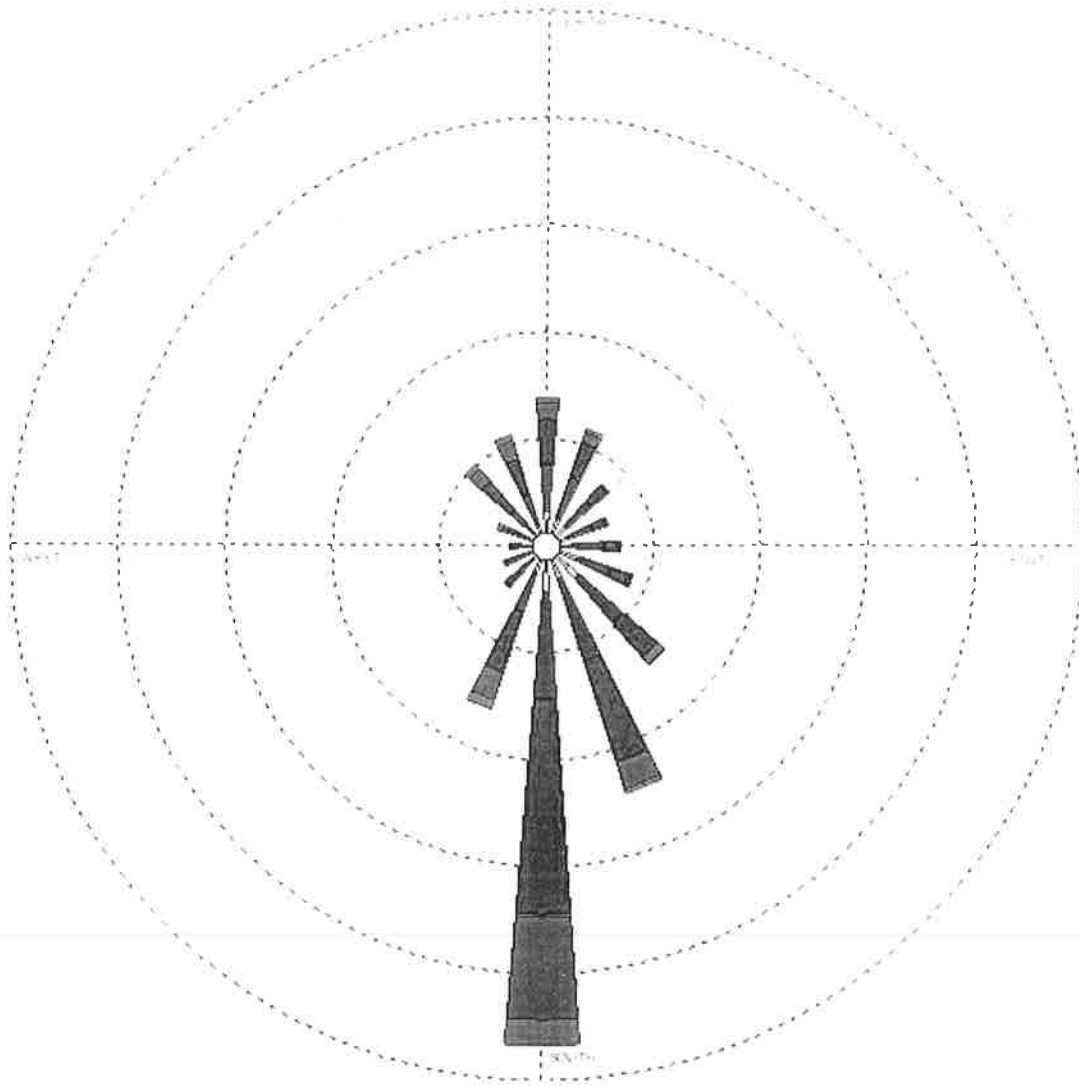
NOTES: (1) Source bearing is based on the plat of Oak Creek Addition recorded in Volume C, Page 356 of the Plat Records of Collin County, Texas, unless otherwise noted. (2) (CM) = Controlling monument. (3) Surveyor's signature will appear in red ink on original copies. (4) No part of the subject property lies within a Special Flood Hazard Area inundated by 100-year flood per Map Number 4808500280U of the F.E.M.A. Flood Insurance Rate Maps for Collin County, Texas & Incorporated Area dated June 2, 2009. (Zone X). This statement does not imply that the property and/or structures will be free from flooding or flood damage. On occasion, greater floods can occur and flood heights may be increased by man-made or natural causes. This flood statement shall not create liability on the part of the surveyor. (5) Final grade assumed finished floor elevations are at the brick ledge. (6) Drainage arrows, if shown, were determined by elevations shown hereon. (7) Subject property is affected by any & all notes, details, easements & other matters, that are shown on or as part of the recorded plat. (8) Survey performed without a title commitment. There may be easements, or other matters, not shown.

CERTIFICATION
On the basis of my knowledge, information & belief, I certify to The Pet Loss Center that, as a result of a survey made on the ground to the normal standard of care of a Registered Professional Land Surveyor practicing in the State of Texas, I find the plat hereon is true, correct & accurate as to the boundaries of the subject property & if shown, location & type of buildings & visible improvements hereon.

Date: 4/3/2020 Revised: Job No. ES662479

LEGEND: [illegible text]

Station #03927 - DALLAS/FORT WORTH REGIONAL AR, TX



	Sara West	8/29/2002	USDA-ARS
	Wind Speed	m/s	
	5.76 m/s	2.32%	
	Direction (blowing from)	1961 Apr 1 - Apr 30 Midnight - 11 PM	



James E. Burdick
12/10/20

4283929 Delaware, LLC.

Legend

- 511 New Hope Rd W
- Property Boundary

511 New Hope Rd W

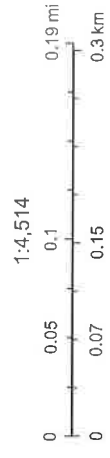
Google Earth

1000 ft

4283929 Delaware, LLC.



December 4, 2020



USDA FSA, GeoEye, Maxar



ATTACHMENT B

FIGURES/MAPS

Flow Diagram Private Cremation

Flow Diagram Communal Cremation

Construction Details Storage and Processing Units

Location and Engineering Design Details

Private Cremations

Receive pets from Veterinary Clinic or Directly from Pet Owners (*Fig. 1*)



Pets are transported to Fond Memories (*Fig. 2*)



Pets are placed into cold storage (*Fig. 3*)



Memorial products are made for pets that require them (*Fig. 4*)



Pets are placed back into cold storage after memorial products are made



Pets are cremated (*Fig. 5*)



Cremated remains are processed (*Fig. 6*)



Processed remains are packaged (*Fig. 7*)



Packaged remains are delivered back to Veterinary Clinics or Pet Owners (*Fig. 8*)

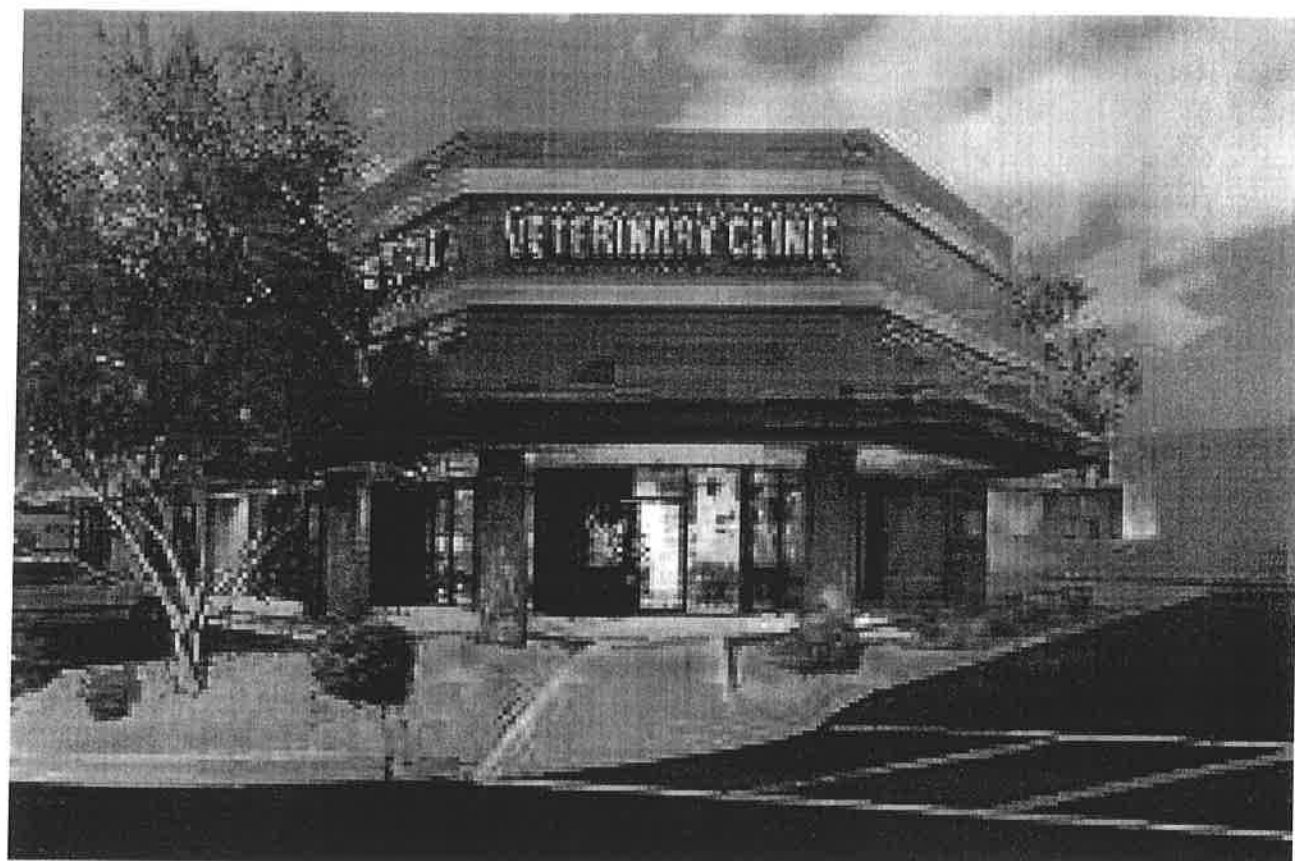


Figure 1



Figure 2

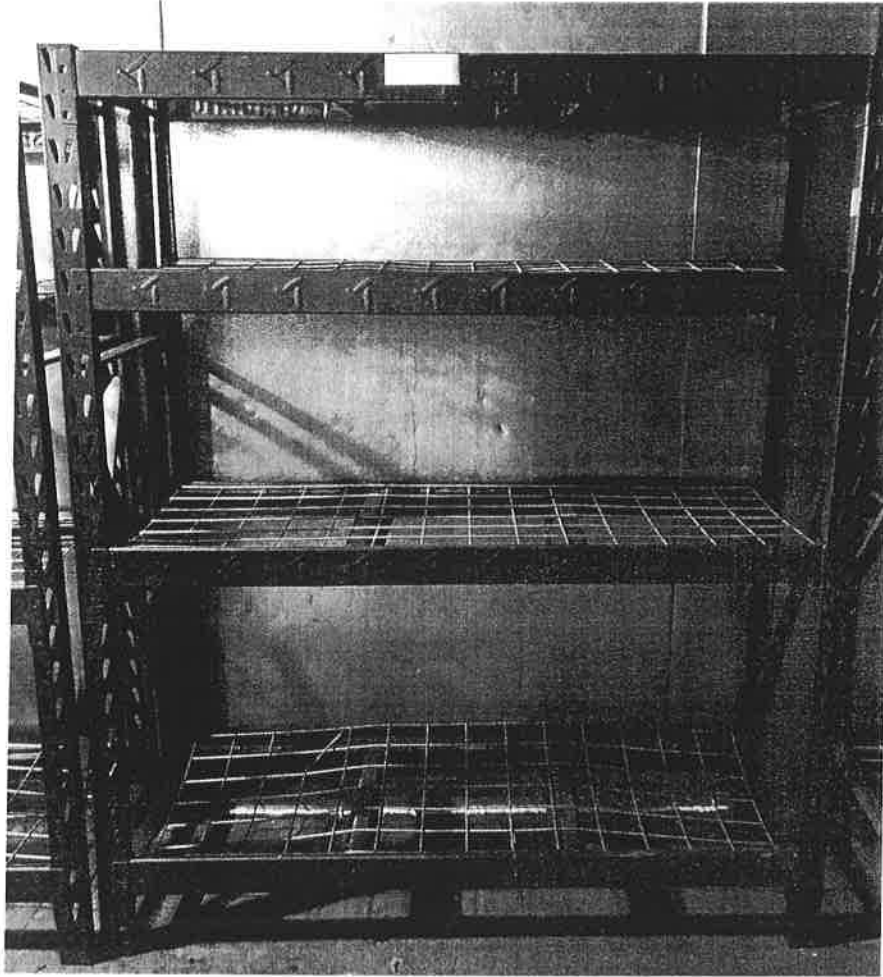


Figure 3

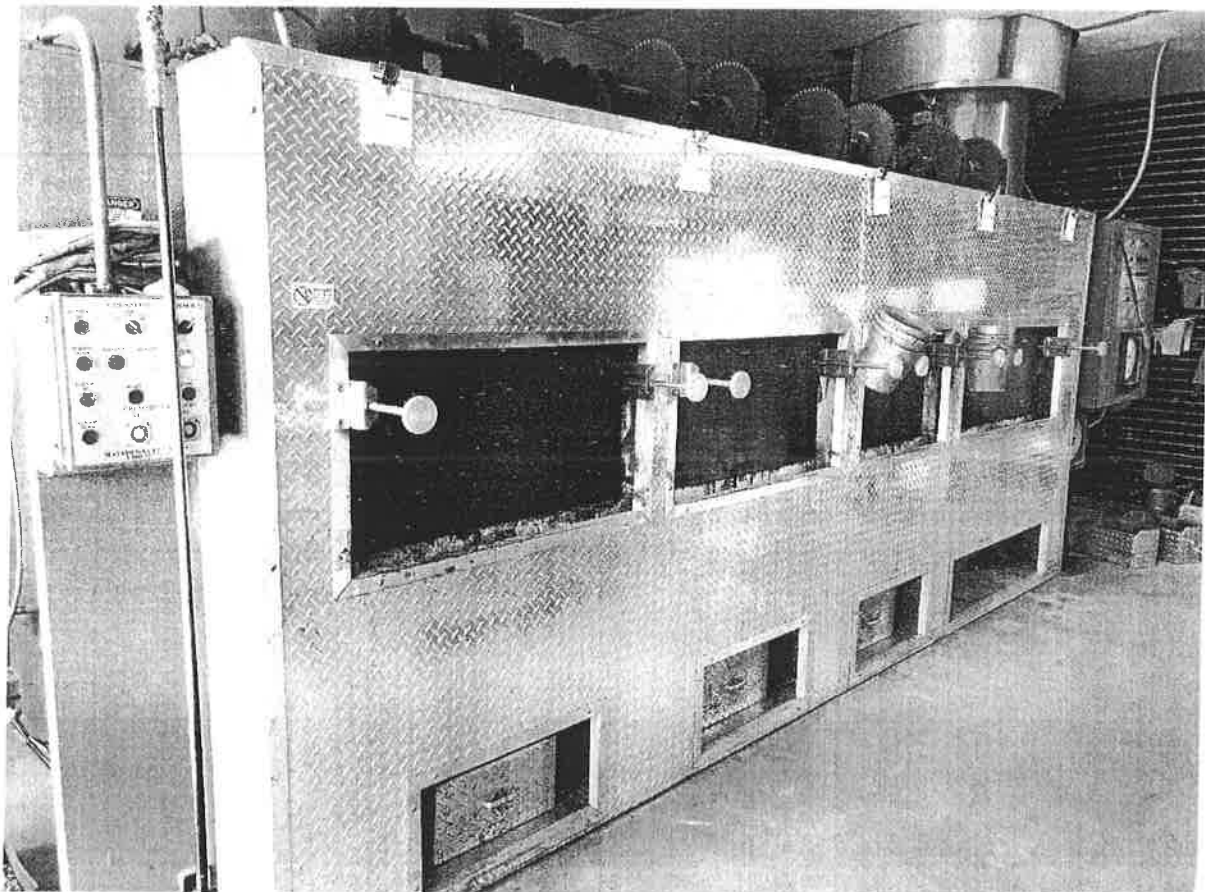


Figure 4

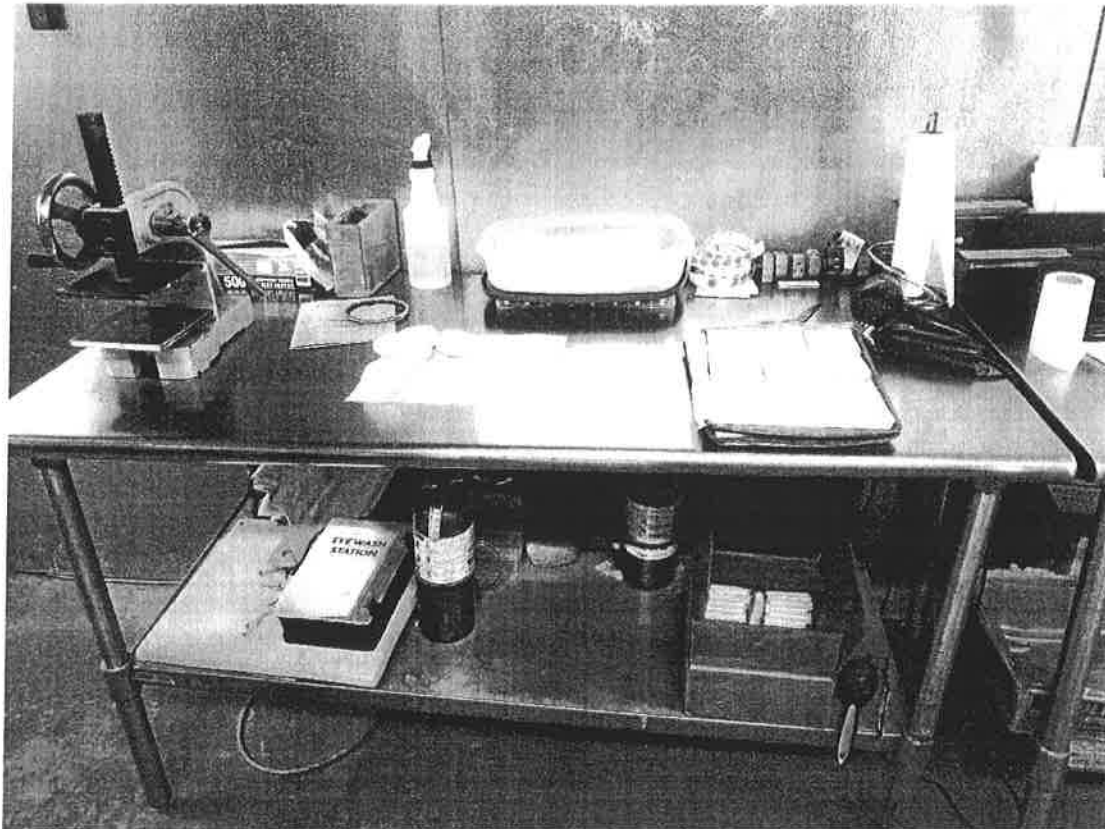


Figure 5



Figure 6

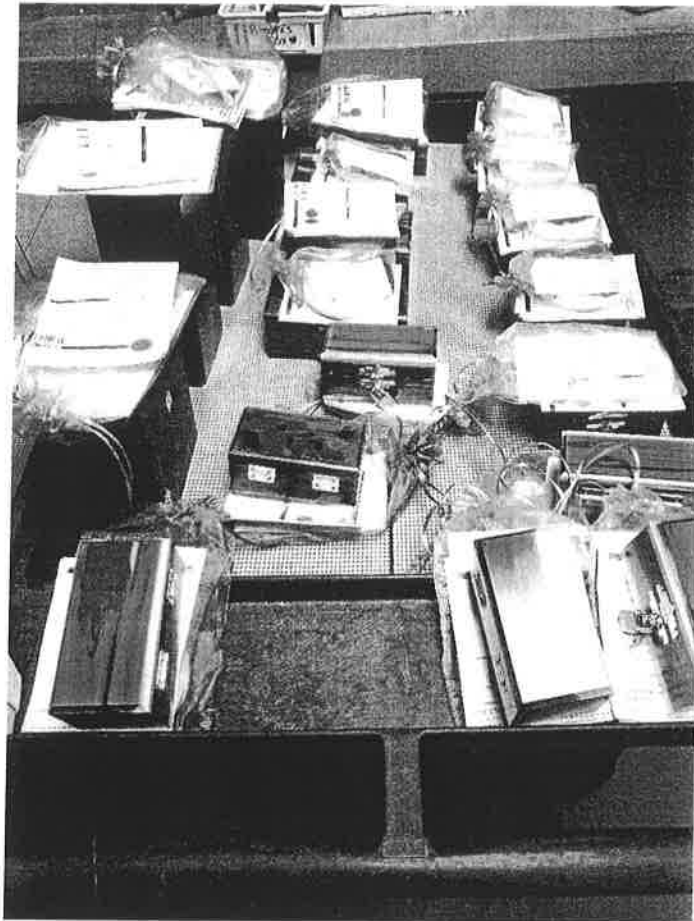


Figure 7



Figure 8

Communal Cremations

Receive pets from Veterinary Clinic or Directly from Pet Owners (*Fig. 1*)



Pets are transported to Fond Memories (*Fig. 2*)



Pets are placed into cold storage (*Fig. 3*)



Memorial products are made for pets that require them (*Fig. 4*)



Pets are placed back into cold storage after memorial products are made



Pets are cremated (*Fig. 5*)



Cremated remains are processed (*Fig. 6a*)



Processed remains are stored in sealed buckets labeled alpha numerically (*Fig. 7a*)



Buckets are picked up by Bluebonnet Pet Cemetery and are spread at that location
2706 Bryson Rd, Mansfield, TX 76063 (*Fig. 8a*)



Figure 1



Figure 2

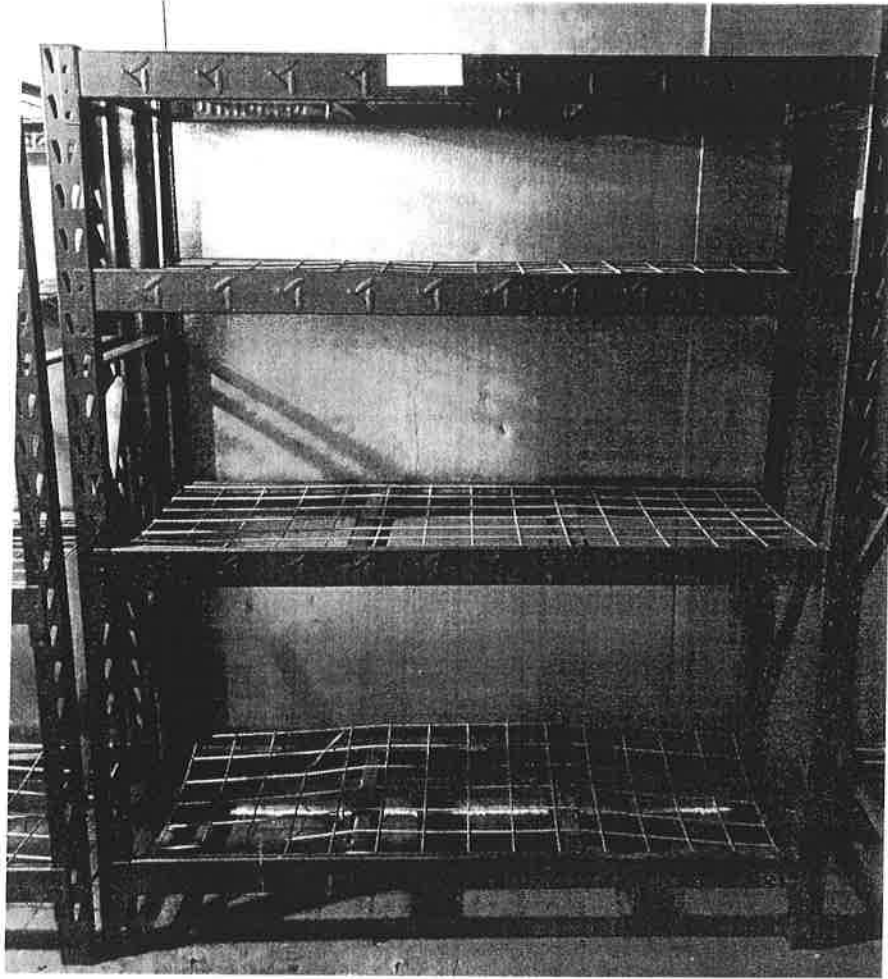


Figure 3

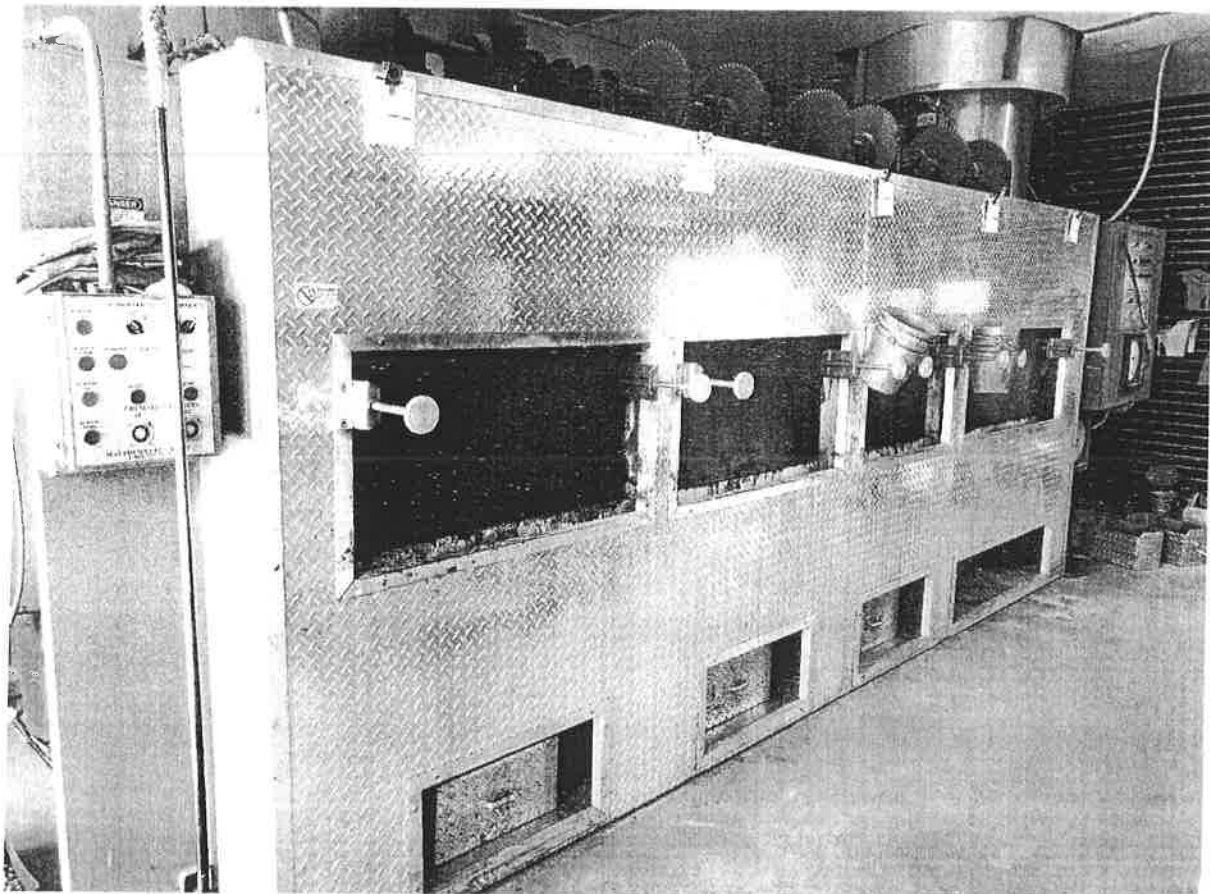


Figure 4

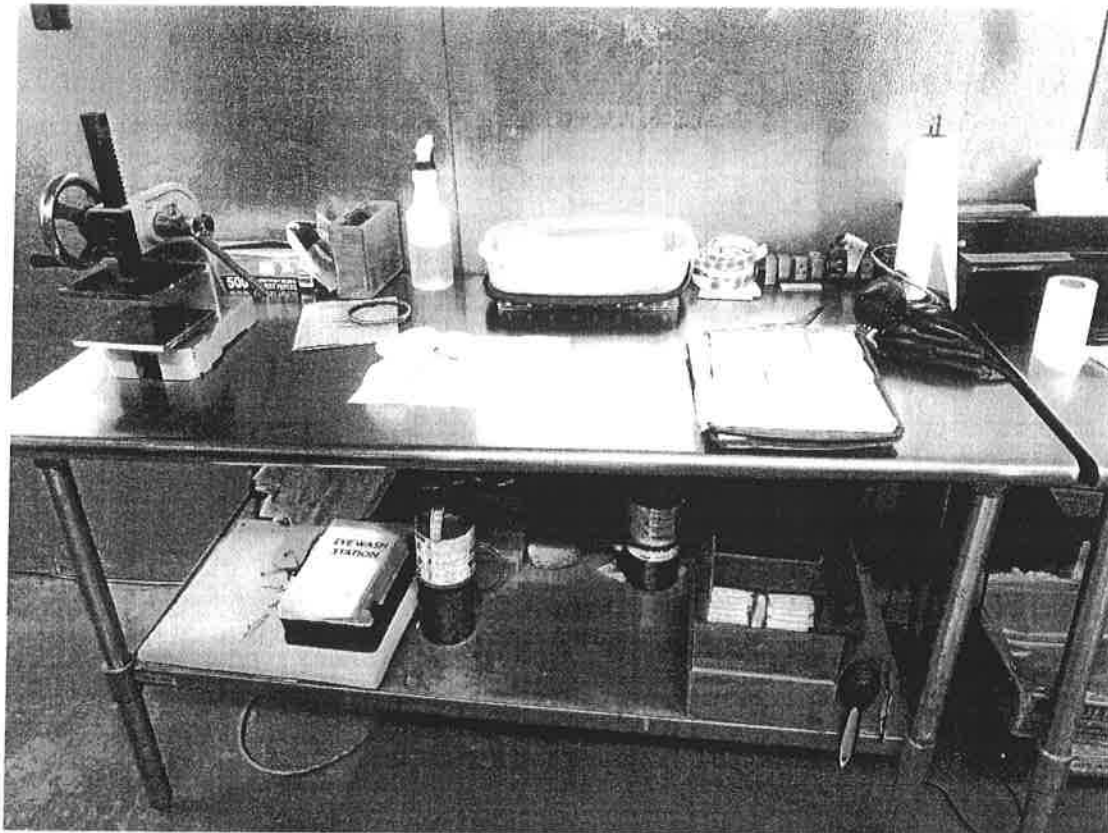


Figure 5

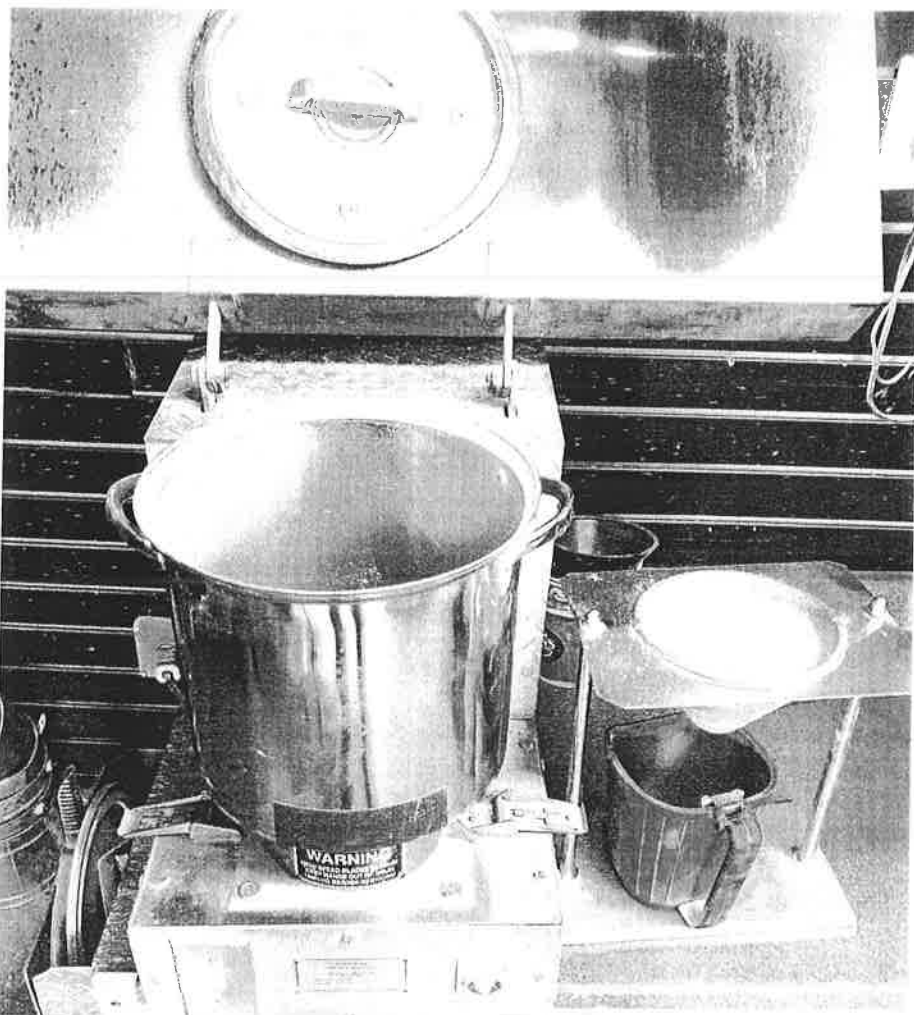


Figure 6a



Figure 7a



Figure 8a

SPECIFICATIONS- Model IEB Series 32-5S

1. Equipment Type..... Model IEB Series 32-5S
 - A. Model No. IEB 32-5S
2. Dimensions
 - A. Footprint 18' – 7"L x 6' – 5" (5.66 m x 1.96 m)
 - B. Maximum Length..... 20' – 8" (6.3 m)
 - C. Maximum Width 6' -8" (2.03 m)
 - D. Maximum Height..... 8' – 1" (2.46 m)
 - E. Chamber 1 Large Loading Opening 26" H x 36" W x 55"D (.7m x .9m x 1.4m)
 - F. Chamber 2 Large Loading Opening 26" H x 36" W x 30"D (.7m x .9m x .8m)
 - G. Chamber 3 Medium Loading Opening..... 26" H x 28" W x 30"D (.7m x .7m x .8m)
 - H. Chambers 4 & 5 Small Loading Openings..... 26" H x 20" W x 30"D (.7m x .9m x .8m)
3. Weight 41,500 lbs. (18,824 kg)
4. Utility/Air Requirements
 - A. Gross Gas Input, Natural or LP Gas..... 4,500,000 BTU/hr max
 - Running Gas Pressure, Natural Gas 11 inches (279.4 mm) water column or greater
 - Running Gas Pressure, LP Gas 11 inches (279.4 mm) water column or greater
 - B. Electrical Supply..... 230 volt, 3Ø or 1Ø, 50/60 hz (other available)
 - C. Air Supply..... 2,500 cfm (70.8 standard m³/min)
5. Incineration Capacity 250 lbs./hr. (113 kg/h)
6. Typical Loading Capacity of Waste Types..... 1000 lbs. (453.6 kg)
7. Construction and Safety Standards..... Incineration Institute of America
8. Steel Structure Construction
 - A. Frame 2" (51 mm) square tubing
 - B. Front/Rear Plates..... 3/8" (9.5 mm) plate
 - C. Floor Plates..... 3/16" (5 mm) plate
 - D. Outer Side Casing..... 12 gauge (3 mm) plate
 - E. Inner Side Casing..... 12 gauge (3 mm) plate
9. Stack Construction
 - A. Inner Wall..... 3" (76 mm) insulating firebrick or castable
 - B. Outer Wall..... 12 gauge (3 mm) stainless steel sheet, welded seams (unlined stack available)
10. Draft Nozzle Construction Schedule 40 type 316 s.s. pipe, welded connections
11. Main Chamber Door Construction
 - A. Steel Shell..... 3/16" (5 mm) steel, welded with reinforcement
 - B. Outer Refractory..... 1" (25 mm) insulating block
 - C. Inner Refractory 3" (76 mm) insulating firebrick
12. Primary Chamber Wall Construction
 - A. Outer Casing Wall 12 gauge (3 mm) sheet
 - B. Inner Frame/Air Compartment..... 2" (51 mm) air compartment
 - C. Inner Casing Wall..... 12 gauge (3 mm) sheet
 - D. Outer Refractory Wall..... 5" (127 mm) insulating block

SPECIFICATIONS- Model IEB Series 32-5S

- | | | |
|----|-----------------------------|------------------------|
| E. | Inner Refractory Wall | 4½" (114 mm) firebrick |
|----|-----------------------------|------------------------|
13. Secondary Chamber Wall Construction
- | | | |
|----|----------------------------------|------------------------------|
| A. | Outer Casing Wall | 12 gauge (3 mm) sheet |
| B. | Inner Frame/Air Compartment..... | 2" (51 mm) air compartment |
| C. | Inner Casing Wall..... | 12 gauge (3 mm) sheet |
| D. | Outer Refractory Wall..... | 6" (152 mm) insulating block |
| E. | Inner Refractory Wall | 4½" (114 mm) firebrick |
14. Refractory Temperature Ratings
- | | | |
|----|-----------------------------------|---------------------|
| A. | Standard Firebrick..... | 3,100° F. (1704° C) |
| B. | Insulating Firebrick | 2,600° F. (1427° C) |
| C. | Castable Refractory (Hearth)..... | 2,550° F. (1399° C) |
| D. | Castable Refractory | 2,550° F. (1399° C) |
| E. | Insulating Block..... | 1,900° F. (1038° C) |
| F. | Bonding Mortar | 3,200° F. (1760° C) |
15. Chamber Volumes (not including external flues, stacks or chimneys)
- | | | |
|----|------------------------|---------------------------------------|
| A. | Chamber 1 | 30 cubic feet (0.85 m ³) |
| | Chamber 2 | 16 cubic feet (0.46 m ³) |
| | Chamber 3 | 13 cubic feet (0.36 m ³) |
| | Chambers 4 & 5 | 9 cubic feet (0.26 m ³) |
| B. | Secondary Chamber..... | 145 cubic feet (4.11 m ³) |
16. Emission Control Features
- | | | |
|----|--|----------|
| A. | Secondary Chamber with Afterburner | Included |
| B. | Opacity Monitor and Controller with Visual and Audible Alarms..... | Included |
| C. | Auxiliary Air Control System | Included |
| D. | Microprocessor Temperature Control System | Included |
17. Operating Temperatures
- | | | |
|----|-------------------------|---|
| A. | Primary Chamber | 0° F. - 1,800° F. (-18° C - 982° C) |
| B. | Secondary Chamber | 1,400° F. - 1,800° F. (760° C - 982° C) as required |
18. Secondary Chamber Retention Time > 1 second
19. Ash Removal Door functions as a heat shield. Sweep out beneath front door into hopper that fills collection pan.
20. Safety Interlocks
- | | | |
|----|-----------------------------|----------|
| A. | High Gas Pressure..... | Optional |
| B. | Low Gas Pressure..... | Optional |
| C. | Blower Air Pressure | Included |
| D. | Door Position | Included |
| E. | Opacity..... | Included |
| F. | Motor Starter Function..... | Included |
| G. | Chamber Temperature | Included |
| H. | Motor Overload | Included |
| I. | Flame Quality..... | Included |
| J. | Burner Safe Start | Included |

SPECIFICATIONS- Model IEB Series 32-5S

22. Burner Description The nozzle mix burners used on this cremation equipment are industrial quality and designed for incinerator use.
23. Ultraviolet Flame Detection Ultraviolet flame detection has proven to be the most reliable means of flame safety. The system is completely sealed in a quartz capsule to eliminate problems, caused by moisture and dust created in the cremation process, which effect flame rod detectors.
24. Operating Panel Indicating Lights
- A. Safe Run Included
 - B. Door Closed Included
 - C. Pollution Alarm Included
 - D. Afterburner On (Secondary Burner)..... Included
 - E. Cremation Burner On Included
 - F. Low Fire Cremation Burner On..... Included
 - G. Afterburner (Secondary Burner) Reset Included
 - H. Cremation Burner Reset..... Included
 - I. Throat Air Off Included
25. Automatic Timer Functions
- A. Master Cycle Included
 - B. Afterburner (Secondary Burner) Included
 - C. Cremation Burner..... Included
 - D. Low Fire Cremation Burner Included
 - E. Throat Air Included
 - F. Pollution Monitoring..... Included
 - G. Afterburner (Secondary Burner) Prepurge..... Included
 - H. Cremation Burner Prepurge Included
 - I. Cool Down Included
26. Exterior Finish
- A. Primer 2 coats rust inhibiting
 - B. Finish 2 coats textured finish
27. Start-Up and Training..... Startup of cremation equipment and training of operators to properly operate and maintain the equipment is performed on-site under actual operating conditions. Included is a comprehensive owner's manual, with details on the equipment, its components and proper operation.
28. Environmental Submittals Complete technical portion of state environmental permits. Engineering calculations, technical data, and equipment blueprints provided.

SPECIFICATIONS- Model IEB Series 56-4S

1. Equipment Type..... Model IEB Series 56-4S
 - A. Model No. IEB 56-4S
2. Dimensions
 - A. Footprint 20' – 3 $\frac{3}{8}$ " L x 8' W (6.18 m x 2.44 m)
 - B. Maximum Length..... 21' – 1" (6.43 m)
 - C. Maximum Width 10' – 4" (3.15 m)
 - D. Maximum Height..... 8' – 5" (2.57 m)
 - E. Chamber Loading Openings 20" H x 39 $\frac{1}{4}$ " W (.5m x 1m)
 - F. Chamber Lengths [Chamber #s] 70 $\frac{1}{2}$ " (1.79m) [1,4], 44 $\frac{1}{2}$ " (1.13m) [2,3]
3. Weight 54,500 lbs. (24,721 kg)
4. Utility/Air Requirements
 - A. Gross Gas Input, Natural or LP Gas..... 4,500,000 BTU/hr max
 - Running Gas Pressure, Natural Gas 11 inches (279.4 mm) water column or greater
 - Running Gas Pressure, LP Gas 11 inches (279.4 mm) water column or greater
 - B. Electrical Supply 230 volt, 3Ø or 1Ø, 50/60 hz (other available)
 - C. Air Supply 3,000 cfm (84.9 standard m³/min)
5. Incineration Capacity 340 lbs./hr. (154 kg/h)
6. Typical Loading Capacity of Waste Types 1700 lbs. (771 kg)
7. Construction and Safety Standards..... Incineration Institute of America
8. Steel Structure Construction
 - A. Frame 2" (51 mm) square tubing
 - B. Floor Plates..... 3/16" (5 mm) plate
 - C. Outer Side Casing..... 12 gauge (3 mm) plate
 - D. Inner Side Casing 12 gauge (3 mm) plate
9. Stack Construction
 - A. Inner Wall..... 4 $\frac{1}{2}$ " (114 mm) insulating firebrick or castable
 - B. Outer Wall..... 12 gauge (3 mm) stainless steel sheet, welded seams (unlined stack available)
10. Draft Nozzle Construction..... Schedule 40 type 316 s.s. pipe, welded connections
11. Main Chamber Door Construction
 - A. Steel Shell..... 3/16" (5 mm) steel, welded with reinforcement
 - B. Outer Refractory 1" (25 mm) insulating block
 - C. Inner Refractory 3" (76 mm) insulating firebrick
12. Primary Chamber Wall Construction
 - A. Outer Casing Wall 12 gauge (3 mm) sheet
 - B. Inner Frame/Air Compartment..... 2" (51 mm) air compartment
 - C. Inner Casing Wall..... 12 gauge (3 mm) sheet
 - D. Outer Refractory Wall..... 6" (152 mm) insulating block
 - E. Inner Refractory Wall 4 $\frac{1}{2}$ " (114 mm) firebrick

SPECIFICATIONS- Model IEB Series 56-4S

- | | |
|--|--|
| 13. Secondary Chamber Wall Construction | |
| A. Outer Casing Wall..... | 12 gauge (3 mm) sheet |
| B. Inner Frame/Air Compartment..... | 2" (51 mm) air compartment |
| C. Inner Casing Wall..... | 12 gauge (3 mm) sheet |
| D. Outer Refractory Wall..... | 6" (152 mm) insulating block |
| E. Inner Refractory Wall | 4½" (114 mm) firebrick |
| 14. Refractory Temperature Ratings | |
| A. Standard Firebrick..... | 3,100° F. (1704° C) |
| B. Insulating Firebrick..... | 2,600° F. (1427° C) |
| C. Castable Refractory (Hearth) | 2,550° F. (1399° C) |
| D. Castable Refractory | 2,550° F. (1399° C) |
| E. Insulating Block..... | 1,900° F. (1038° C) |
| F. Bonding Mortar | 3,200° F. (1760° C) |
| 15. Chamber Volumes (not including external flues, stacks or chimneys) | |
| A. Chambers 1 & 4 | 52 cubic feet (1.48 m³) |
| Chambers 2 & 3 | 33 cubic feet (0.93 m³) |
| B. Secondary Chamber | 182 cubic feet (5.15 m³) |
| 16. Emission Control Features | |
| A. Secondary Chamber with Afterburner | Included |
| B. Opacity Monitor and Controller with Visual and Audible Alarms..... | Included |
| C. Auxiliary Air Control System..... | Included |
| D. Microprocessor Temperature Control System ... | Included |
| 17. Operating Temperatures | |
| A. Primary Chamber..... | 0° F. - 1,800° F. (-18° C - 982° C) |
| B. Secondary Chamber | 1,400° F. - 1,800° F. (760° C - 982° C) as required |
| 18. Secondary Chamber Retention Time | > 1 second |
| 19. Ash Removal | Door functions as a heat shield. Sweep out beneath front door into hopper that fills collection pan. |
| 20. Safety Interlocks | |
| A. High Gas Pressure..... | Optional |
| B. Low Gas Pressure | Optional |
| C. Blower Air Pressure | Included |
| D. Door Position | Included |
| E. Opacity | Included |
| F. Motor Starter Function | Included |
| G. Chamber Temperature..... | Included |
| H. Motor Overload | Included |
| I. Flame Quality..... | Included |
| J. Burner Safe Start | Included |
| 22. Burner Description | The nozzle mix burners used on this cremation equipment are industrial quality and designed for incinerator use. |

SPECIFICATIONS- Model IEB Series 56-4S

- | | |
|---|---|
| 23. Ultraviolet Flame Detection | Ultraviolet flame detection has proven to be the most reliable means of flame safety. The system is completely sealed in a quartz capsule to eliminate problems, caused by moisture and dust created in the cremation process, which effect flame rod detectors. |
| 24. Operating Panel Indicating Lights | |
| A. Safe Run..... | Included |
| B. Door Closed..... | Included |
| C. Pollution Alarm..... | Included |
| D. Afterburner On (Secondary Burner) | Included |
| E. Cremation Burner On..... | Included |
| F. Low Fire Cremation Burner On | Included |
| G. Afterburner (Secondary Burner) Reset..... | Included |
| H. Cremation Burner Reset | Included |
| I. Throat Air Off | Included |
| J. Hearth Air Off..... | Included |
| 25. Automatic Timer Functions | |
| A. Master Cycle..... | Included |
| B. Afterburner (Secondary Burner) | Included |
| C. Cremation Burner..... | Included |
| D. Low Fire Cremation Burner | Included |
| E. Throat Air..... | Included |
| F. Pollution Monitoring | Included |
| G. Afterburner (Secondary Burner) Prepurge..... | Included |
| H. Cremation Burner Prepurge | Included |
| I. Cool Down | Included |
| 26. Exterior Finish | |
| A. Primer | 2 coats rust inhibiting |
| B. Finish | 2 coats textured finish |
| 27. Start-Up and Training..... | Startup of cremation equipment and training of operators to properly operate and maintain the equipment is performed on-site under actual operating conditions. Included is a comprehensive owner's manual, with details on the equipment, its components and proper operation. |
| 28. Environmental Submittals | Complete technical portion of state environmental permits. Engineering calculations, technical data, and equipment blueprints provided. |

RECOMMENDED

	RECOMMENDED	MINIMUM
TOP:	2 FEET [610 mm]	6 INCHES [152 mm]
CABINET SIDE:	4 FEET [1.22 m]	4 FEET [1.22 m]
OTHER SIDE:	2 FEET [610 mm]	6 INCHES [152 mm]
FRONT:	9 FEET [2.74 m]	8 FEET [2.44 m]
REAR:	3 FEET [0.91 m]	32 INCHES [812 mm]
STACK:	9 INCHES [229 mm]	9 INCHES [229 mm]

1. FOR CLEARANCES OTHER THAN THOSE SHOWN, OR FOR SPECIAL REQUIREMENTS, CONSULT YOUR MCD REP.

2. FROM HIGHEST POINT ON UNIT.

3. CONTROL CABINET MOUNTS ON UNIT'S LEFT OR RIGHT SIDES, OR REMOTELY. (SEE PLAN VIEW, SHEET 1).

4. REAR OF UNIT REFERS TO THE "BACK PLATE", RATHER THAN THE BACK OF THE "WHISPER SHIELD". (SEE PLAN VIEW, SHEET 1).

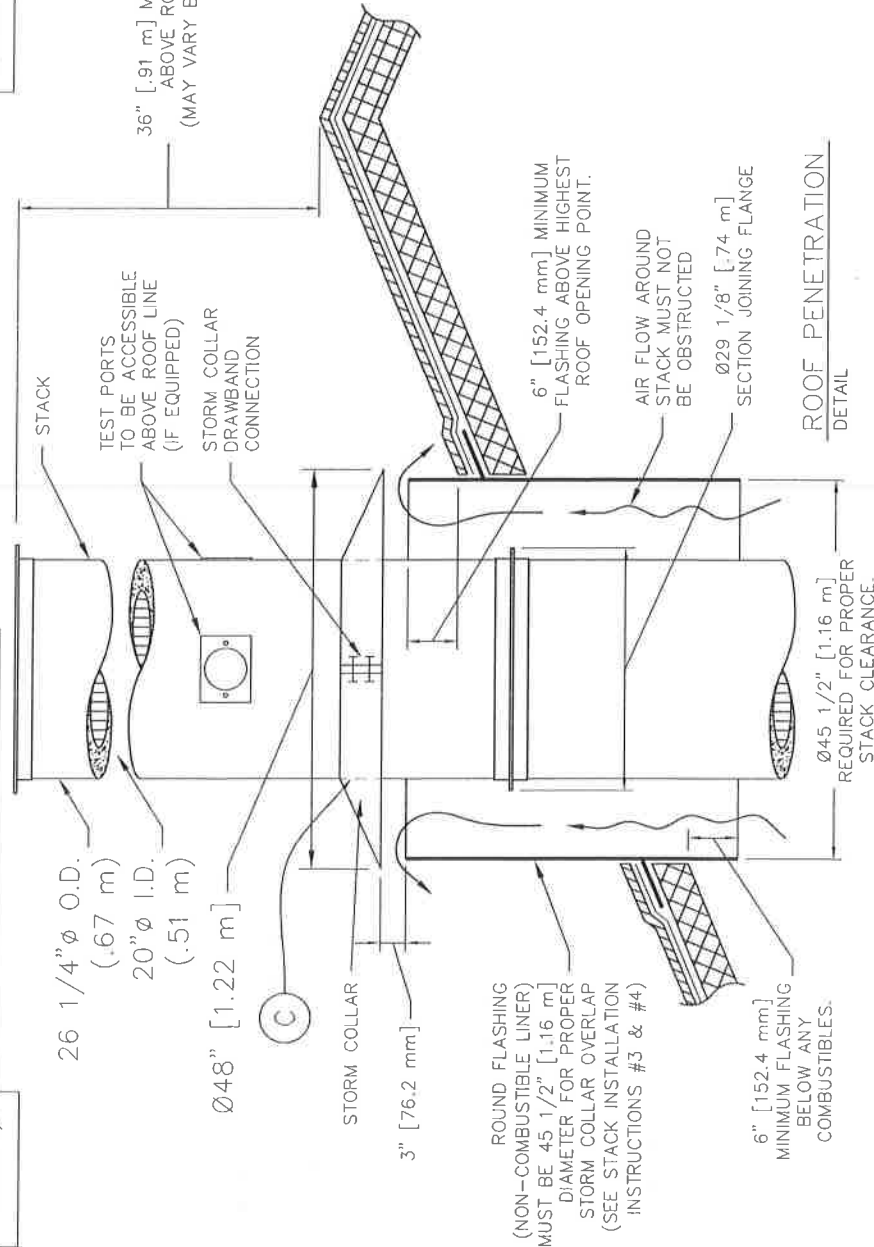
FUEL: A PRESSURE REGULATOR ADJUSTABLE TO 11" [279 mm] W.C. FOR NATURAL GAS, OR 11" [279 mm] W.C. FOR LP GAS.

CAPACITY: 4.5 MILLION BTU/HR [4.7 MILLION KILOJOULES/HR]

ELECTRICAL: 230 VOLT, 3 ϕ . (40A BREAKER) AND 115v (10A BREAKER), OR 230 VOLT, 1 ϕ . (70A BREAKER) AND 115v (10A BREAKER) 50/60 HERTZ

AIR: LOUVER NEAR THE REAR OF THE UNIT CAPABLE OF PASSING 2,500 CU FT/MIN [70.8 CU M/MIN] OF FREE AIR (36" X 36") [914 mm X 914 mm]

1. APPLY A 1/2" THICK MORTAR JOINT TO EXPOSED REFRACTORY SURFACE IN STACK RING. LOWER THE BASE STACK SECTION (B) ONTO STACK RING (A) AND FASTEN WITH HARDWARE PROVIDED. (NO MORE THAN (2) STACK SECTIONS SHALL BE LIFTED TOGETHER). REPEAT PROCESS FOR REMAINING STACK SECTIONS. SECTIONS OF VARYING LENGTHS ARE SUPPLIED, ASSEMBLE AS TO AVOID FLANGES & LIFTING EYES INTERFERING WITH RAIN COLLAR LOCATION.
2. INSTALL STORM COLLAR ON STACK, 3" [72 mm] ABOVE NON-COMBUSTIBLE LINER (FLASHING), ALLOWING FOR PROPER VENTILATION (SEE DETAIL).
3. APPLY A 1/4" [6 mm] BEAD OF HIGH-TEMPERATURE SILICON SEALANT (PROVIDED BY MCD) TO THE JOINT BETWEEN THE STORM COLLAR (C) AND THE STACK (B).
4. STORM COLLAR IS FURNISHED BY MCD, THE NON-COMBUSTIBLE LINER (FLASHING) TO BE PROVIDED BY THE OTHERS.
5. IF FIFTY PERCENT OF THE STACK LENGTH IS ABOVE THE ROOF, GUY WIRES MAY BE REQUIRED. CONSULT WITH YOUR MCD REP.
6. RAIN CAP NOT REQUIRED.



(2) LIFTING EYES PER STACK SECTION

26 1/4" ϕ O.D.

36" [.91 m] MINIMUM STACK ABOVE ROOF PEAK (MAY VARY BY LOCATION).

SEE #1 ABOVE.

FASTEN FLANGES TOGETHER WITH HARDWARE PROVIDED.

STACK INSTALLATION DETAIL

ROUND FLASHING (NON-COMBUSTIBLE LINER) MUST BE 45 1/2" [1.16 m] DIAMETER FOR PROPER STORM COLLAR OVERLAP (SEE STACK INSTALLATION INSTRUCTIONS #3 & #4)

6" [152.4 mm] MINIMUM FLASHING BELOW ANY COMBUSTIBLES.

6" [152.4 mm] MINIMUM FLASHING ABOVE HIGHEST ROOF OPENING POINT.

AIR FLOW AROUND STACK MUST NOT BE OBSTRUCTED

29 1/8" [.74 m] SECTION JOINING FLANGE

ROOF PENETRATION DETAIL

45 1/2" [1.16 m] REQUIRED FOR PROPER STACK CLEARANCE.

Mathews

ENVIRONMENTAL SOLUTIONS

2045 Sprint Boulevard
Apopka, Florida 32703
USA

IEB 32-5S

STACK DETAILS, CLEARANCES & INSTALLATION INSTRUCTIONS
REFRACTORY STACK DETAIL

DRAWN BY:	JG	DATE:	05.11.2013	REVISION:
APPROVED BY:		DATE:		
SCALE:	1/4" = 1'-0"	SHEET:	OF:	
0000-512-E55	-MARKETINGSTACKREFS2R5-0000111			
DWG NUMBER:	Model			

Matthews
ENVIRONMENTAL SOLUTIONS

OPERATING & MAINTENANCE MANUAL

MODEL IEB 32-5S
With
SmokeBuster™

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WARRANTY

Cremators and collateral equipment sold are warranted free from defects in workmanship and/or materials, under normal use and service, for one (1) year from date of shipment.

Matthews Environmental Solutions obligation under this warranty is limited to the repair or replacement of any parts or part, f.o.b. Orlando, Florida, which may prove defective under normal use and service, within one (1) year from date of shipment, and which is found by our inspection to be thus defective.

This warranty shall not apply to any cremator and collateral equipment which has been repaired or altered outside our factory in any way so as, in our judgment, to affect its performance, safety, stability, and reliability. *No other express warranty is given.*

EXTERNAL CARE AND CLEANING

All cleaning should be done with the cremator off and completely cooled!

General Cleaning

The top of the cremator should be kept clean at all times. Accumulations of dust can adversely affect electrical components, which are sensitive to dust.

To clean the exterior of the cremator, use a vacuum cleaner, yard leaf blower and a whisk broom. Be careful not to step on any of the piping or electrical components when cleaning the top of the equipment.

Painted Surfaces

The cremator is finished with a textured paint. If it is necessary to clean any painted surface use only warm water and a soft cloth or sponge. Do not use solvents.

Aluminum Diamond Plate Panels

Parts of the cremator may be covered with aluminum diamond plate. If it is necessary to clean the diamond plate, use soapy water and a soft cloth. Rinse with clean water and dab dry.

OPERATING PANEL DESCRIPTION

The operating panel may be mounted on the cremator or on the wall nearby. Below is a brief description of each item on the panel, starting at the top.

MASTER CONTROLS

POWER OFF/ON Switch

The POWER OFF/ON switch energizes the control circuits.

CYCLE START Illuminated Push Button [and SAFE RUN Light]

The green CYCLE START illuminated push button will start the blower(s) and initiate the cycle. Pushing this button during operation will reset the CYCLE TIMER. The SAFE RUN light will illuminate when the CYCLE timer is activated and safe operating conditions exist.

DOOR CLOSED Light

The green DOOR CLOSED light will illuminate when the front door is fully closed.

CYCLE Timer

The CYCLE timer controls the total cycle time before the automatic cool-down process starts.

TEMPERATURE CONTROLLER

The temperature controller detects the chamber temperature and adjusts the fuel flow rate to the burners to maintain proper temperature inside the cremator.

OPERATING PANEL DESCRIPTION (CON'T)

BURNER CONTROLS

AFTERBURNER OFF/ON Switch

The Afterburner OFF/ON switch is used to activate the afterburner.

AFTERBURNER ON Light

The amber AFTERBURNER ON light will illuminate when there is an established afterburner flame.

AFTERBURNER RESET Light (illuminated push button)

The red AFTERBURNER RESET light illuminates only if there is a problem with the burner lighting, or if the burner fails during the normal cycle. If the AFTERBURNER RESET light comes on, push the illuminated push button to reset the afterburner combustion control.

CREMATION BURNER 3-Position Switch

The CREMATION BURNER 3-position switch is used to activate the cremation burner in the low fire start mode or in the high fire mode.

CREMATION BURNER LOW FIRE Light

The blue cremation burner LOW FIRE light will illuminate when the low fire mode of the cremation burner is established.

CREMATION BURNER HIGH FIRE Light

The white CREMATION BURNER HIGH FIRE light will illuminate when the cremation burner is in the high fire mode.

CREMATION BURNER RESET Light (illuminated push button)

The red CREMATION BURNER RESET light illuminates only if there is a problem with the burner lighting or if the burner fails during the normal cycle. If the CREMATION BURNER RESET light comes on, push the illuminated push button to reset the cremation burner combustion control.

REAR CREMATION BURNER 3-Position Switch

The REAR CREMATION BURNER 3-position switch is used to activate the rear cremation burner in either the timer control mode or in the manual mode.

REAR CREMATION BURNER ON Light

The white REAR CREMATION BURNER ON light will illuminate when there is an established burner flame.

REAR CREMATION BURNER RESET Light (illuminated push button)

The red RESET light illuminates only if there is a problem with the burner lighting or if the burner fails during the normal cycle. If the RESET light comes on, push the illuminated push button to reset the combustion control.

REAR CREMATION BURNER Timer

The REAR CREMATION BURNER timer controls the amount of time you wish to delay activation of the burner.

AIR CONTROL**THROAT AIR 3-Position Switch**

The THROAT AIR 3-position switch activates the throat air in timer control mode or manual mode.

THROAT AIR OFF Light

The red THROAT AIR OFF light will illuminate when the THROAT AIR timer has timed to zero or the THROAT AIR switch is in the OFF position

OPERATING PANEL DESCRIPTION (CON'T)

CONTROL TIMERS

CREMATION BURNER Timer

The CREMATION BURNER timer controls the amount of time you wish to delay increasing the firing rate after burner has started.

THROAT AIR Timer

The THROAT AIR timer controls the amount of time the throat air is open after the THROAT AIR switch is turned to the OFF DELAY position.

OPTIONAL EQUIPMENT

POLLUTION CONTROL OFF/ON Switch

The POLLUTION CONTROL OFF/ON switch activates the pollution control system.

POLLUTION ALARM Light

The red POLLUTION ALARM light will illuminate when the pollution alarm has been activated.

PREHEAT BURNER OFF/ON Switch

The PREHEAT BURNER OFF/ON switch is used to activate the preheat burner.

PREHEAT BURNER ON Light

The red PREHEAT BURNER ON light will illuminate when there is an established burner flame.

PREHEAT BURNER RESET Light (illuminated push button)

The red RESET light illuminates only if there is a problem with the burner lighting, or if the burner fails during the normal cycle. If the RESET light comes on, push the illuminated push button to reset the combustion control.

CONTROL CABINET DESCRIPTION

The electrical control cabinet is normally located on the front left or right side of the cremator or on the wall nearby.

Blower Motor Starters

The blower motor starters start the motors and ensure proper electrical consumption. Built-in thermal overload protection shuts off the motors if there are electrical supply problems or possible motor malfunctions.

Burner Combustion Controls

The burner combustion controls use fuel valves, ignition transformers and flame detectors to ensure safe operation of the burners. The combustion controls are activated by switches and timers on the operating panel. If any component involved in the burner operation should fail, the combustion control will not allow the burner to fire. It will stop the program on a safety lockout shutdown and illuminate the appropriate red reset light on the operating panel. Each burner has a dedicated combustion control.

Cool-Down Timer

The Cool-Down Timer initiates the cool-down period when the Cycle Timer has timed to zero. This timer is normally set for a 1 hour cooling cycle.

Pollution Control Timer

The Pollution Control Timer responds to a signal from the pollution control system. It shuts off the cremation burner(s) and activates the throat air for 3½ minutes.

High Limit Relay

If the unit becomes too hot this relay will interrupt the safe run light and stop all burners.

Voltage Tester

The voltage tester is used to check the power running to any of the electrical terminals or components in the control cabinet. Excess wire is stored in the panduit beside the tester.

Ground Lug

The ground lug is the earth ground connection point for the control components.

CONTROL CABINET DESCRIPTION (CON'T)

Terminal Strip

The terminal strip is a common junction point for the wiring used in the cremator's control system.

Panduit

Panduit is semi-flexible plastic conduit casing which keeps all the wiring in order.

Warning! Never touch or allow anything to touch the terminal strip. The terminals may be energized and injury could result.

One- or Two-Pen Recorder (optional, door of control cabinet)

The one- or two-pen circular recorder makes a permanent record of chamber temperatures during the cremation cycle. A one-pen recorder normally charts afterchamber temperature. A two-pen recorder charts afterchamber and cremation chamber temperatures.

TOP OF CREMATOR DESCRIPTION

BURNERS

All the burners are the same brand. They have connections for gas and air, spark plug and flame detector attachment. The gas/air mixture is ignited by the spark plug and watched by the flame detector, which uses ultraviolet sensing to ensure a safe and stable flame. The spark plug and flame detector require occasional cleaning.

The cremation burner is on top in the middle front of the unit. It is fired in two stages: low fire and high fire. The firing rate is controlled by the CREMATION BURNER 3-position switch and CREMATION BURNER TIMER and the low fire and high fire gas valves. The low fire flame ignites the materials in the containers. Then for the remainder of the cremation the larger high fire flame is used.

The afterburner, beside the stack at the rear of the unit, is used to heat the afterchamber and minimize emissions. The afterburner is activated by the AFTERBURNER OFF/ON switch. The afterburner gas input is adjusted automatically by the temperature controller.

The rear cremation burner is behind the cremation burner. It is controlled by the REAR CREMATION BURNER 3-position switch and the REAR CREMATION BURNER TIMER and the main gas valve. The rear cremation burner is used for animal cremation to increase the burn rate of remains in the rear of the chamber.

The PREHEAT BURNER (if applicable) is with the AFTERBURNER. The afterburner/preheat is a special oversized burner which acts as both an afterburner and a preheat burner. It is controlled by the PREHEAT BURNER OFF/ON switch and the main gas valve. The preheat burner is used to shorten the preheat time in locations with high preheat temperature requirements.

Electric Gas Valves

The electric gas valves allow gas to flow to the burners.

Afterburner Actuator

The afterburner actuator opens and closes the gas valve to adjust the flow of gas to the burner.

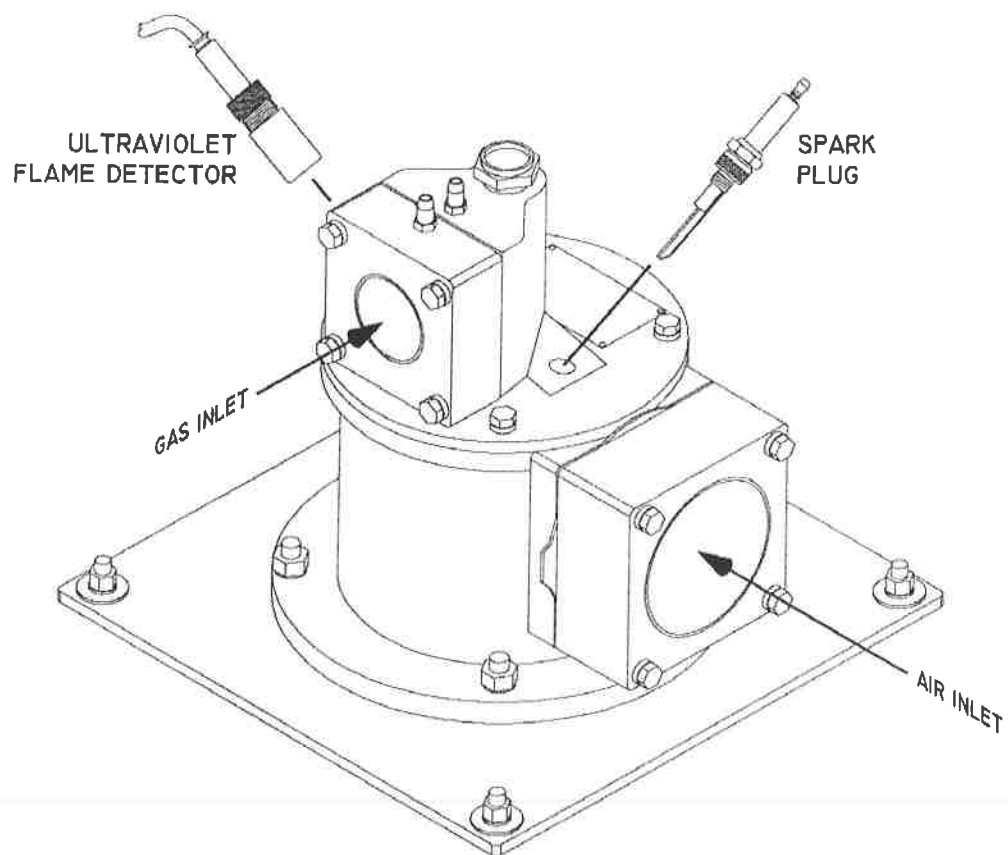
Manual Orifice Valves

The manual orifice valves are used to regulate the gas flow to the burners.

2" FIP Gas Connection

The gas connection is where the facility's gas line is connected to the machine.

BURNER DRAWING



TOP OF CREMATOR DESCRIPTION (CON'T)

AIR SYSTEM

Blower

The blower provides air for combustion, maintains a negative draft through the interior chambers, and cools the exhaust gases before they exit the vent stack.

Throat Air Actuator & Valve

The throat air actuator opens and closes the throat air valve. It is controlled by the THROAT AIR 3-position switch and the THROAT AIR timer. The throat air is generally used during the first half of the cremation cycle to provide additional combustion air in the afterchamber.

Air Proving Switch

The air proving switch checks for sufficient air pressure for combustion, cooling and draft. If there is an air supply problem, this switch will discontinue the green SAFE RUN (CYCLE START) light and shut off the burners.

ELECTRICAL SYSTEM

WARNING! Be certain the power supply is off before servicing any of the electrical components.

6 × 6 Electrical Boxes and Incoming Power Wires

The three 6 × 6 electrical boxes contain the incoming wiring connections for all the cremator's electrical components. In the rear box are two black wires (single phase) or three black wires (three-phase) for the incoming power and a grounding lug for the equipment ground connection. Control circuit incoming power connections are also supplied.

Ignition Transformers

The ignition transformers generate high voltage for the burner spark plugs.

Thermocouples

Thermocouples provide the temperature controller(s) and (optional) pen recorder with temperature input signals. On a standard unit, they are located in

TOP OF CREMATOR DESCRIPTION (CON'T)

the front of the unit under the diamond plate (accessible through removable plate) for afterburner thermocouple and on the top of the unit near the afterburner for the cremation chamber thermocouple. This unit uses a **type-K** thermocouple.

Pollution Control System (PCS)

The pollution control system SmokeBuster™ monitors the clarity of exhaust gases as they enter the vent stack. The PCS consists of a transmitter and a receiver mounted on opposite sides of the stack. The transmitter shines a light through the stack to the receiver. If a pollution condition should arise, the PCS detects it and immediately takes measures to correct it. Both the transmitter and receiver have lenses which must occasionally be cleaned.

Burner Off Limit Switch

The burner off switch shuts off the cremation burner(s) when the door is raised higher than 6".

Door Stop Switch

The door stop switch stops the hydraulic pump when the door reaches its fully raised position.

REFRACTORY (BRICK AND CASTABLES)

Several types of high-temperature refractory are used in our cremation equipment to give it the greatest efficiency and durability available today. Refractory wears according to the use and care it is given. Normal wear in refractory will produce expansion cracks in the bricks and cast sections. Spalling, another normal wear condition, has the appearance of peeling. These "peelings" eventually fall away, exposing new refractory. When wear or spalling decays the surface of the refractory to a depth of 1½ to 2", it is time to consider repairs.

Refractory maintenance and inspection procedures are described in this manual. If there are questionable sections of refractory in the cremation equipment, please take photographs and send the photos to our service department. We will evaluate the condition and advise you of our recommendation in writing or by telephone.

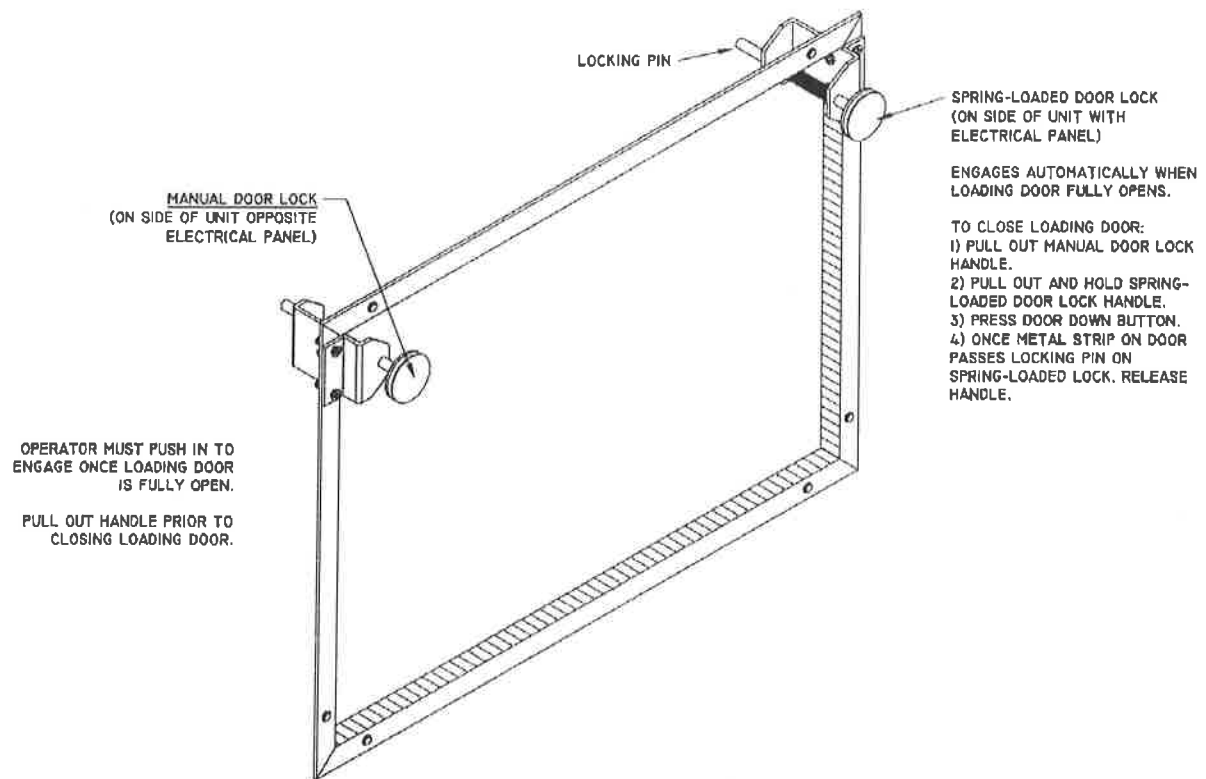
OPERATION OF THE EQUIPMENT

LOADING PROCEDURES FOR ANIMAL REMAINS

WARNING! DO NOT EXTEND ANY PART OF YOUR BODY BENEATH THE OVERHEAD DOOR! THIS COULD CAUSE SERIOUS INJURY!

1. Open the cremation chamber loading door until the spring-loaded door lock engages.
2. Push in the manual door lock on the opposite side of the loading door.
3. Place an identification disc into the cremation chamber (front right side) using the roller/disc placement tool. (If applicable).
4. Push the animal remains off the loading cart or tray and into the chamber using the clean-out tool, stoking tool or the roller/disk placement tool.
5. Close the cremation chamber loading door by pulling out the manual door lock. Then, while pulling out the handle of the spring-loaded door lock, lower the Door. Once the pin on the door lock makes contact with the 1½" stainless steel strip on the loading door, release the handle.

DOOR LOCKS



OPERATION OF THE EQUIPMENT (CON'T)

It's important to prioritize the cremation workload by weight. Heavier loads should be cremated first. Always exercise caution when loading flammable containers and remains into a hot cremation chamber.

WARNING! DO NOT EXTEND ANY PART OF YOUR BODY BENEATH THE OVERHEAD DOOR! THIS COULD CAUSE SERIOUS INJURY!

1. Adjust the timers to the following settings **(for an average cremation of 700 lbs)**:

CYCLE TIMER	270 minutes (4 ½ hours)
(FRONT) CREMATION BURNER	60 minutes (1 hour) delay
THROAT AIR	180 minutes (3 hours)

2. Turn the POWER OFF/ON switch to the ON position.
3. Open Doors. Load the chamber. Close the doors. In some locations, this step must be performed after the preheat period.
4. Set the AFTERBURNER switch to ON. If your cremator has a PREHEAT BURNER, turn the PREHEAT BURNER switch to ON.
5. Turn the POLLUTION CONTROL OFF/ON switch to ON. This activates the pollution control system.
6. Press the CYCLE START Illuminated push button.
 - a. The blower will start and the SAFE RUN lights should illuminate, indicating that all safety limits have been met (i.e., proper temperature and air pressure). The burners will not fire unless these circuits are made.
 - b. The pollution control system, including the pollution control timer, will test itself, and keep the POLLUTION ALARM light on for 3½ minutes.
 - c. The afterburner will ignite within 30 to 90 seconds and will run for the time set on the CYCLE TIMER.

OPERATION OF THE EQUIPMENT (CON'T)

7. This part of the cycle is the preheat period. When the afterburner has run for 30 minutes the chamber will be hot enough to begin the cremation. More time may be necessary to reach the required minimum temperature in some locations.

The preheat time can be varied as necessary. However, it should never be less than 15 minutes.

8. After the preheat period is over it is time to start the cremation. Turn the CREMATION BURNER switch to LOW FIRE START, the THROAT AIR switch to OFF DELAY. Also turn the REAR CREMATION BURNER switch to AUTO.

- a. The cremation burner will ignite in LOW FIRE MODE to ignite the highly flammable materials in the chamber. Also, the throat air valve will open.

- b. 60 minutes after the cremation burner LOW FIRE MODE starts, the high fire mode will activate, increasing the firing rate to speed up the cremation. The time differential between low fire and high fire can be varied by changing the CREMATION BURNER timer setting or by turning the CREMATION BURNER switch to the HIGH FIRE position when desired.

Also, the REAR CREMATION BURNER timer will activate the rear cremation burner to help speed up the cremation

- c. 3 hours after the cremation starts, the THROAT AIR timer will close the throat air valve. The throat air is only needed during the first half of the cycle to help burn the gases from the cremation.

- d. 4 ½ hours after start-up, the burners will shut off. This cycle time is determined by the CYCLE timer and can be extended or shortened as necessary to complete the cremation.

- e. The blower will continue to run for cooling purposes until the automatic cooling cycle is over, or until the POWER ON switch is turned to the OFF position.

OPERATION OF THE EQUIPMENT (CON'T)

Visual Inspections

We recommend periodic visual inspections of the progress of the cremation to ensure that the burners stay activated long enough to complete the cremation.

CAUTION: DO NOT OPEN DOOR DURING THE FIRST 30 MINUTES OF THE CREMATION PROCESS.

Repositioning During the Cremation Cycle

Repositioning the remains and container remnants during the cremation cycle is not required, but it will shorten the cremation process. Reposition when the cremation is approximately 75% complete. Ensure the throat air is on during the repositioning procedure. This will help minimize any emissions created by repositioning.

Cool Down Before Removal

As soon as the first cremation of the day has been completed, shut all the burners off. Cool the remains before removal by resetting the CYCLE timer. Cool the remains for approximately 15-20 minutes before removing them from the cremation chamber.

Clean-Out

Make sure the cremated remains collection pan is in place. Open the loading door and carefully transfer all the remains to the front of the cremation chamber using the provided clean-out tools. Remove the remains by transferring them into the clean-out hopper in front of the cremation chamber.

Cool Down Between Successive Cremations

After removing all remains from the hearth, make sure that the CYCLE timer has sufficient time remaining and that all burners are off. With each successive cremation performed the same day, increase the cool down times.

Minimum cool down time between:

1st and 2nd cremations:	60 minutes
2nd and 3rd cremations:	90 minutes
3rd and 4th cremations:	90+ minutes
4th and 5th cremations:	90+ minutes

OPERATION OF THE EQUIPMENT (CON'T)

Preheat For Successive Cremations

With each successive cremation performed the same day, preheat times before loading may be decreased. If your cremator is equipped with a supplemental preheat burner, it may not be necessary to turn it on.

Minimum Preheat time before loading:

2nd cremation:	20 minutes
3rd cremation:	15 minutes
4th cremation:	10 minutes
5th cremation:	< 10 minutes

Ensure all the air controls are in the OFF position when preheating.

MAINTENANCE

Quarterly Maintenance

WARNING! TURN OFF THE POWER SUPPLY AND SHUT OFF THE GAS SUPPLY TO THE CREMATION EQUIPMENT BEFORE PERFORMING ANY MAINTENANCE.

WARNING! IF FOR ANY REASON ACCESS IS REQUIRED BENEATH THE CREMATION CHAMBER DOOR OR INSIDE THE CREMATION CHAMBER, MAKE SURE THE DOOR LOCKS ARE ENGAGED.

1. Clean Spark Plugs: Unscrew each spark plug from its burner. Clean the end of the spark plug electrode and ground rod with fine steel wool or fine sandpaper. Remove any soot or carbon buildup. After cleaning, reset the spark plug gap (the distance between the electrode and ground rod) to 1/8" or 3/16".

2. Clean Flame Detectors: Loosen the aluminum nut attaching the flame detector to the burner base. Locate the lens inside, at the end with the attachment nut. Clean the lens with a dry cotton cloth or tissue, removing any soot or carbon buildup. After cleaning, reattach to the burner by tightening the aluminum nut "hand tight, only."

3. Clean and Adjust Pollution Control System: Use a soft cloth and wipe off both the transmitter bulb and the receiving lens. If the lenses do not come completely clean, a window cleaning fluid may be required. To adjust the PCS:

- a. Turn the POWER ON/OFF and POLLUTION CONTROL ON/OFF switches ON.
- b. Place the shaded plastic opacity plate, hanging on a chain from the PCS transmitter, over the center of the transmitter bulb.
- c. Turn the round adjustment knob (on the transmitter back plate) counterclockwise, dimming the light until the receiver starts its "buzzing" alarm. Then very slowly turn the knob back clockwise, brightening the light just until the receiver stops buzzing.

4. Inspect Door Systems: The loading doors are lifted by a chain attached to sprockets. The sprockets are rotated by counter weights. The door system should be inspected every 400 cremation cycles.

- a. Inspect the chains for wear, dryness, nicks, bowing and stretching.
- b. Inspect the master links (connection links at both ends of a chain) for wear, dryness, nicks, bowing and stretching.
- c. Check all chains' points of connections and doors for wear and abnormalities.
- d. Inspect the main drive shaft for wear, rust, bowing and abnormalities.

MAINTENANCE (CON'T)

- e. Inspect all sprockets for wear, dryness, missing teeth, chain connections and shaft key placement.
- f. Check the shafts bearings for wear, dryness and stretching.
- g.

Replace any worn or questionable part as needed, chains every 2,000 cycles or sooner.

Annual Maintenance

WARNING! TURN OFF THE POWER SUPPLY AND SHUT OFF THE GAS SUPPLY TO THE CREMATION EQUIPMENT BEFORE PERFORMING ANY MAINTENANCE. IF FOR ANY REASON ACCESS IS REQUIRED BENEATH THE CREMATION CHAMBER DOOR OR INSIDE THE CREMATION CHAMBER, MAKE SURE THE DOOR LOCKS ARE ENGAGED.

1. **Lubricate Blower Motor:** Locate the grease fittings on the motor and lubricate them with an all-purpose grease.
2. **Inspect Refractory:** Refractory should be inspected and evaluated annually. Check to be sure no areas of refractory have fallen away to expose the steel structure. Refractory in the interior chambers is a minimum of 4½" thick. General wear or spalling as deep as 2" can be tolerated, but should be noted for future repairs. Wear or spalling more than 2" deep should be repaired as soon as possible. Consult the factory for further instructions.
 - a. **Inspect Refractory in the Cremation Chamber:** Enter the cremation chamber with a flashlight and inspect the refractory throughout the chamber.
 - b. **Inspect Refractory in the Main Loading Door:** To inspect the refractory on the inside of the main loading door, one person should be inside the cremation chamber with a flashlight, while a second person stands outside the equipment and partially closes the loading door behind the first person. This allows the person inside the chamber to have a good look at the condition of the firebrick in the loading door.
 - c. **Inspect Refractory in the Afterchamber:** To gain access to the afterchamber remove both plates at the rear of the unit. After removing all 3/8" nuts and pulling off the plates there will be insulation to remove, then a dry fitted refractory wall which must also be removed to gain access. Particular attention should be paid to the center divider wall, baffles and supporting arches.

TROUBLESHOOTING

WARNING! TURN OFF THE POWER SUPPLY BEFORE PERFORMING ANY SERVICE ON THIS EQUIPMENT.

Blower

1. If the Blower Does Not Start:

- a. Check that the power source or supply breaker has not tripped off.
- b. Reset the motor starter in the control panel by pressing the reset bar.
- c. Check the 5-amp fuse located in the electrical control cabinet on the side of the cremation equipment.
- d. Consult with the manufacturer for technical advice.

2. If the Blower Does Not Stop Automatically:

- a. With the CYCLE timer zeroed out, ensure that the internal cool-down timer is timing down. If not, the timer is malfunctioning and should be replaced at the earliest convenience.

Burners

1. If Burners Will Not Fire:

- a. Check to be sure the green BLOWER ON light is on.
- b. If not, check the air proving switch on top of the cremation equipment to be sure it is proving that the blower is providing sufficient air.
- c. Check that the transmitter bulb and the receiving lenses on the pollution control system are clean. Note: This procedure applies to the cremation burner only.
- d. With the POWER ON/OFF switch OFF, turn the pollution control timer all the way counterclockwise to the zero position. If this corrects the burner failure, leave this timer at zero and order a replacement timer. If this does not correct the burner failure, reset the timer to 3½ minutes.

TROUBLESHOOTING (CON'T)

Burners (Con't.)

2. If Either Burner Reset Light Should Illuminate:

- a. Press the Illuminated RED RESET button on the applicable burner control.
- b. Clean the burner spark plug on the burner that has failed, as explained in the quarterly maintenance procedure.
- c. Clean the ultraviolet flame detector on the burner that has failed, as explained in the quarterly maintenance procedures.
- d. If the above steps fail, consult with the manufacturer for technical support.

Thermocouple(s)

1. If the Temperature Controller Shows OPEN in the Display:

- a. Check the wiring from the thermocouple to the temperature controller to ensure no wires are touching and that all wiring connections are tight.

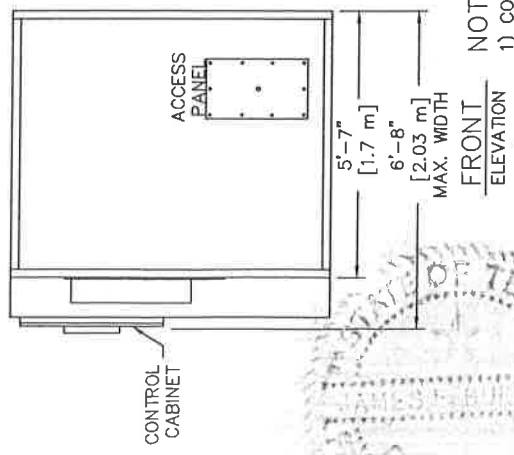
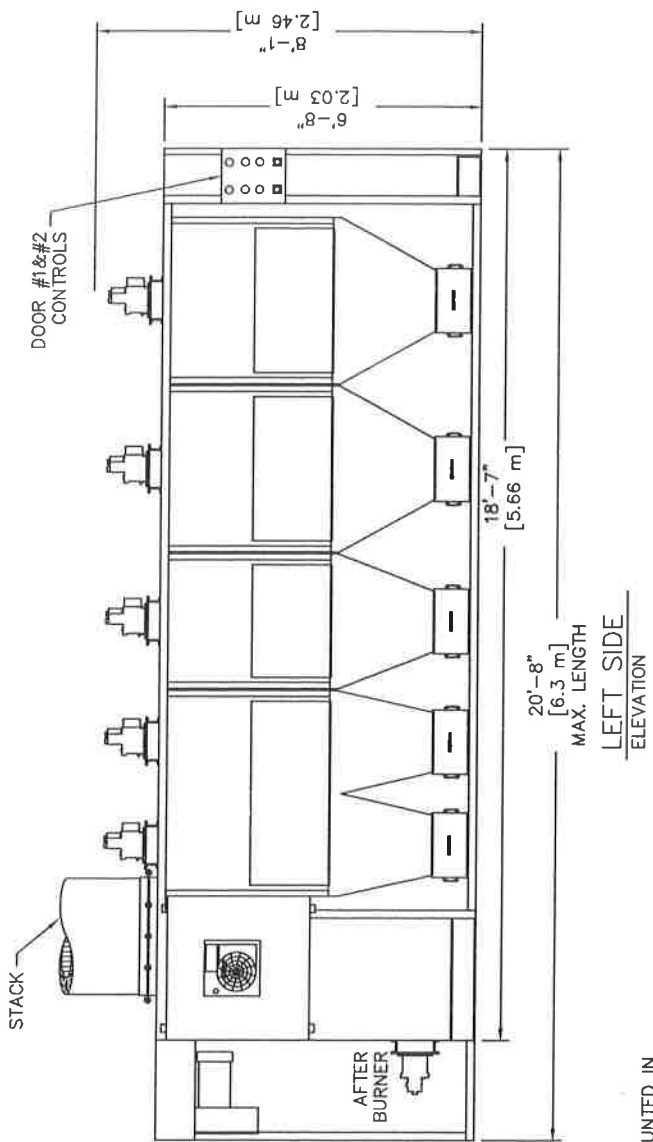
Note: you do not have to shut off the power to the cremator to check thermocouple wires.

- b. Remove the cap and verify that the yellow wire is firmly connected to the positive terminal and the red wire is firmly connected to the negative terminal.
- c. Remove the entire thermocouple assembly and inspect the casing. If the casing is cracked or ruptured, replace it.
- d. Remove and inspect the thermocouple insert for cracks or separation points in the entwined metal at its tip. If the insert is damaged, replace it.

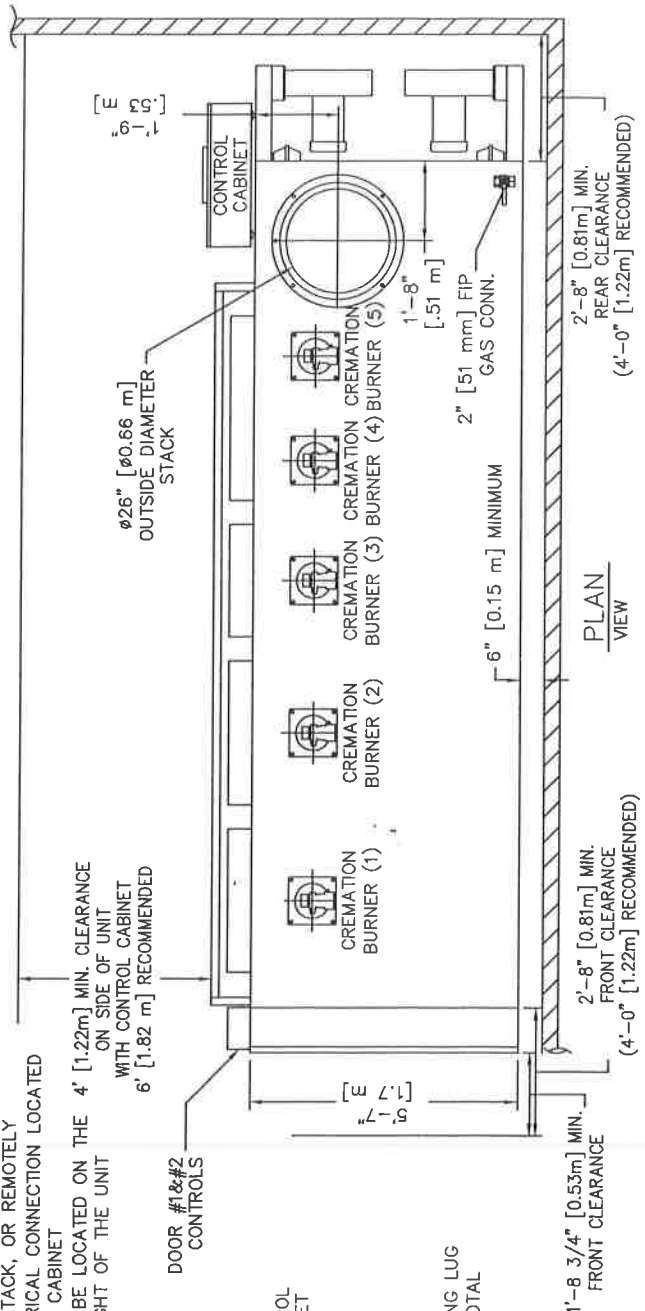
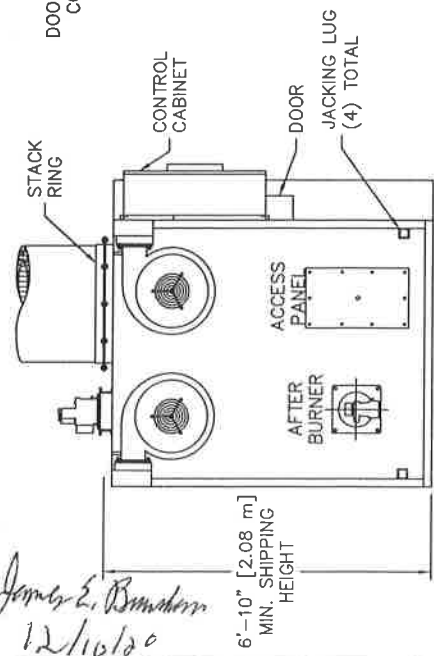
REPLACEMENT PARTS LIST

<u>Description</u>	<u>Part Number</u>
* Combustion Control, Afterburner or Cremation Burner	17-0658
* Flame Detector, Ultraviolet	12-1252
* Light Bulbs, Operating Panel (MB155)	17-04011
* Spark Plug, Therm-Jet	17-3703
Switch, Air Proving	15-2227
Switch, Limit (Door Stop or Burner Off)	17-4055
* Thermocouple, K-Type, 24"	17-44405
Thermocouple, K-Type, 18" (Optional)	17-44404
* OMRON Timer (Universal)	17-45691
Pollution Control Timer, (Eagle)	17-4650
Bulb, Pollution Control Transmitter	17-0350
Receiver, Pollution Control	17-2752
Wire, Ignition GT015	29-0700
Terminal, Ignition, 90 Deg.	29-0855
Terminal, Ignition, Ring Type	29-0400

* Spares of these parts should be kept at your facility.

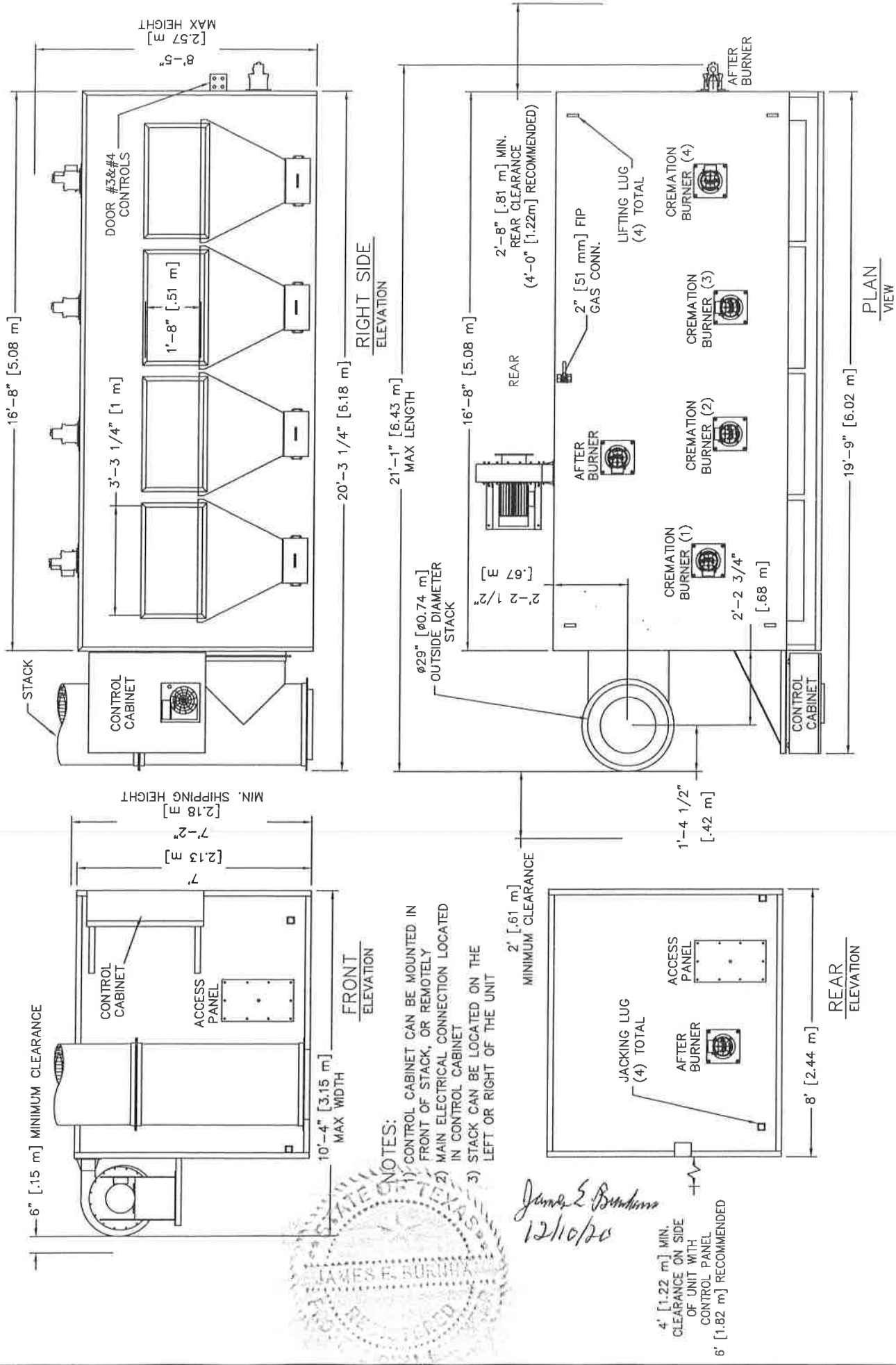


- NOTES:
- 1) CONTROL CABINET CAN BE MOUNTED IN FRONT OF STACK, OR REMOTELY
 - 2) MAIN ELECTRICAL CONNECTION LOCATED IN CONTROL CABINET
 - 3) STACK CAN BE LOCATED ON THE 4' [1.22m] MIN. CLEARANCE ON SIDE OF UNIT WITH CONTROL CABINET 6' [1.82 m] RECOMMENDED LEFT OR RIGHT OF THE UNIT



Matthews ENVIRONMENTAL SOLUTIONS 2045 Sprint Boulevard Apopka, Florida 32703 USA		IEB SERIES 32-5S		DRAWN BY: JG DATE: 05.11.2015 REVISION: 1
PLAN & ELEVATIONS INCL: CLEARANCES, REQUIREMENTS & RECOMMENDATIONS		APPROVED BY: - DATE: 07.10.2017 REMOVED EXTRA BURNER		SHEET: 2 OF: 07.21.2017 ADDED NOTE ABOUT ELEC. CONN.
DWG FILE:		DWG NUMBER: 09-004		

James E. Brumaker
12/10/20



- NOTES:**
- 1) CONTROL CABINET CAN BE MOUNTED IN FRONT OF STACK, OR REMOTELY
 - 2) MAIN ELECTRICAL CONNECTION LOCATED IN CONTROL CABINET
 - 3) STACK CAN BE LOCATED ON THE LEFT OR RIGHT OF THE UNIT



James E. Burnham
12/10/20

<div>Matthews</div> <div>ENVIRONMENTAL SOLUTIONS</div> <div>2045 Sprint Boulevard</div> <div>Apopka, Florida 32703</div> <div>USA</div>	IEB SERIES 56-4S			
	DRAWN BY:	OE	DATE:	07.12.2018
	APPROVED BY:	-	DATE:	-
	SCALE:	1/4" = 1'-0"		SHEET:
	DWG FILE:			
	DWG NUMBER:	09-004		
	PLAN & ELEVATIONS INCL: CLEARANCES, REQUIREMENTS & RECOMMENDATIONS			

ATTACHMENT C

FIGURES/MAPS

Site Operating Plan

Fire Protection Plan



The Pet Loss Center

Clay Paw Print Policy November 2019

Purpose



The purpose of this SOP is to provide clear and precise guidance to ensure the proper execution of all responsibilities and requirements associated with the current Paw Prints process.



Overview

The Paw Print is an option provided by The Pet Loss Center that allows a pet parent to memorialize their pet with a personalized reminder of their lost loved one. The Paw Print process provides detailed instruction on how to produce this personalized keepsake with the level of quality demanded by the Pet Loss Center standards.

1. Identifying Pets requiring Paw Prints

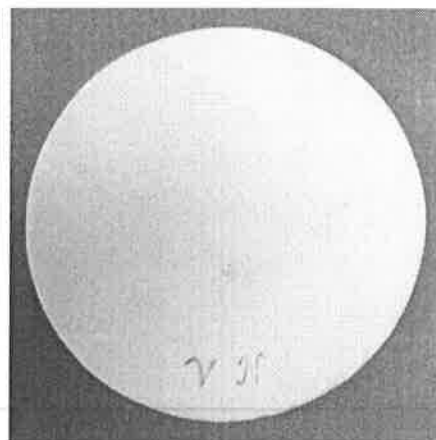
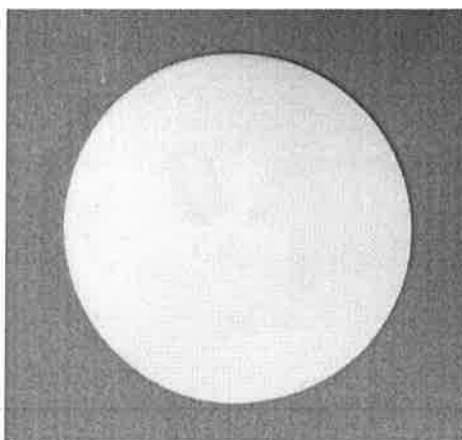
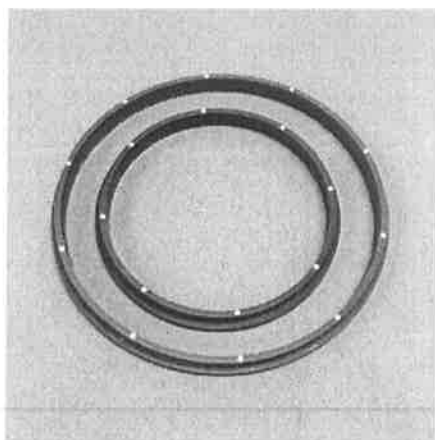
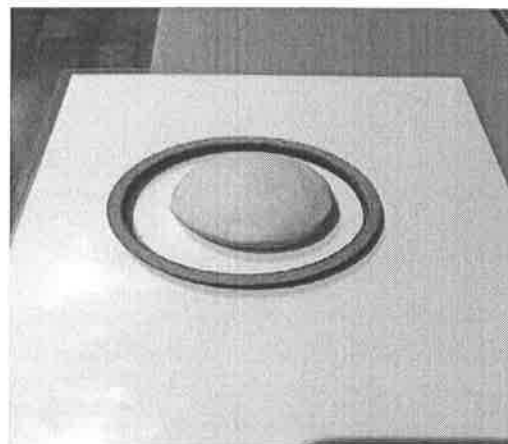
- a. The Paw Print (PP) process begins as the pet is received at The Pet Loss Center facility.
- b. The Paw Print Technician (PPT) will review all service orders to identify each pet that will receive a Paw Print.
- c. Service orders that require a paw print will have a green sticker placed at the top and have the paw print request section populated.
- d. As the pets are identified for Paw Prints, they are scanned into TJ for storage in the designated Paw Print Storage Area, unless the pet is going straight to the PP station.
- e. Once the pets have been segregated, the Paw Print Technician may begin the paw print process.
- f. The PPT will verify on TJ how many Clay Paw Print Patties have been requested for the pet.
- g. The PPT will verify if anything is written in the Special Notes Section of the TJ form.

SPECIAL IN	
 	
359461-1	
Pet Name:	Fluffy
Pet Info:	Dog 8lbs
Disk ID:	332941
Death Date:	Oct 31, 2019
Cremation Service:	Private
Burial:	
Witnessing:	No
Hold:	No
Hold Remains:	
Urn Type:	Journey Urn (1)
Delivery Method:	
Special Notes:	

Paw Print:	Yes (1)	
Ink Paw Print:		
Glass Bead:		
Hair Clipping:	Yes (1)	
Nose Print:		
Name Plate:		

2. Creating Paw Print Patties (PPP)

- a. To create a clay PPP, the PPT will collect the adequate amount of clay that has been designated for the fabrication of the clay PP. 4" or 6".
- b. The clay will be kneaded in order to soften the clay by mixing the oils contained therein. Once the clay is kneaded and softened, it will be rolled into a ball.
- c. To create a perfectly round PPP, place the clay ball inside the designated circle mold and flatten using a rolling pin or press to distribute the clay evenly inside the mold. Make sure to press the clay firmly against the inside edges of the mold. The only circle molds acceptable are the 4" and 6" molds seen below.
- d. Once the clay has been pressed firmly against the edge of the mold it will be turned over to reveal the perfectly flat and smooth face of the PPP. If any blemishes exist on the revealed surface, the process will be repeated until an unblemished surface is created like below.
- e. When an acceptable surface has been created, the PPT will gently remove the clay PPP from the mold in a manner which will not damage the condition of the material.
- f. The PPT will mark the back of the PPP with the initials of the pet parent like below.



3. Paw Print Preparation

- a. Once the pets have been segregated, we can begin preparing the pets paw for the PP.
- b. If pet hair/fur prevents achieving a successful print, the PPT will take one of the paws and trim away any excess hair/fur. Place the excess hair/fur inside the bag with the pet or directly into garbage can.
- c. When the excess hair/fur has been removed, the PPT will wipe the paw with a wet cloth to remove any remaining debris.
- d. If the paw is too dirty to collect a clean impression, the PPT will then scrub the paw with a soft bristle scrub brush; the process may have to be repeated for heavily soiled paws in order to properly prepare it for an uncontaminated impression/print.
- e. Pets that have claws/nails that are long enough to affect the quality of the impression/print must be trimmed to an acceptable length. The nails should be placed inside the bag with the pet or directly into the garbage can.
- f. Team members should focus on the front paws to achieve the paw prints. However, this is not mandatory.

4. Making the Paw Impression




- a. The PPT will verify on the TJ form the correct amount of clay PPP's to be conducted for the pet.
- b. The PPT will use a clay PPP and will place the pet's paw at the center of the clay and press the paw into the material with adequate pressure to create a quality impression.
- c. The impression should penetrate at least a third of the way into the PPP, this technique will be rehearsed during the PPT training.
- d. If the impression is soiled, attempt to remove the debris without damaging the impression; if this is not possible, the paw must receive further cleaning and a new PPP may be required.
- e. Some paws will be too soiled to make a clean impression; if it is not possible after multiple attempts to make a clean impression, the PPP will have to be cleaned after baking.
 - a. In the event of receiving a severely damaged or soiled pet, that is unable to be used for an impression, please notify management for a resolution.

5. Stenciling the name into the Paw Print

- a. Once an acceptable Paw Print has been collected, the PPT will begin the process of stenciling the pets name into the PPP.
- b. The PPT will confirm the pets name and proper spelling with the TJ form prior to assembling the stencil.
- c. Once the stencil has been prepared, the PPT will press the lettering into the clay far enough to create an adequate impression.
 - i. If the edges of the letter framing show in the impression, the impression is too deep; this will be rehearsed during PP training.

6. Scanning and Initialing TJ form for PP

- a. The PPT will initial on the service order by the Paw Print number amount to be completed to verify that the paw print has been completed and correct amount of paw prints have been completed.
- b. The PPT will scan the TJ form once the PP is completed, not before.
- c. If no other services are requested and the pet is ready for cremation, the PPT will initial the green sticker.

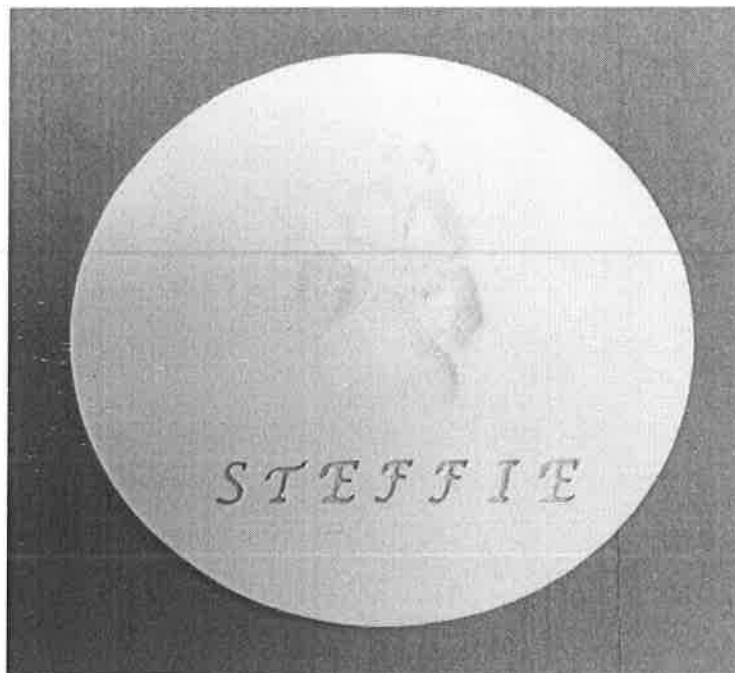
SPECIAL INSTRUCTIONS		Trusted Journey Form	
		Initials: <i>ABC</i>	
Pet Name:	Bella	Paw Print:	Yes (3) <i>CP</i> 
Pet Info:	Dog 14lbs	Ink Paw Print:	
Disk ID:	302894	Glass Bead:	
Death Date:	Oct 26, 2019	Hair Clipping:	Yes (1) <i>CP</i> 
Cremation Service:	Private	Nose Print:	
Burial:		Name Plate:	
Witnessing:	No	Clinic Name:	Fetch Specialty & Cancer Veterinary Centers
Hold:	No	Owner:	Regina Ortiz
Hold Remains:		Phone:	
Urn Type:	N / A	Remembrance Items:	
Delivery Method:	Deliver to Clinic		TB2920-A Odyssey Crimson (petite)
Special Notes: <i>CP</i>			

7. Baking of the Paw Prints

- a. The PPP must be baked and inspected before cremating the pet associated with the PPP.
- b. When the PPP has received all impressions, it is ready to be placed in the designated paw print oven.
- c. The PPT will utilize the proper tracking procedures to ensure proper tracking of the paw print during the baking process.
- d. The oven must be preheated to 275 degrees before depositing the PP for baking.
- e. Once the oven has reached the desired temperature, the PPT will be placed inside and baked for 19 minutes. Some ovens require a different amount of cooking time. Verify the specifics for your location oven.
 - i. The PPT will utilize the clock on the oven to ensure that the paw prints bake for the proper amount of time.

8. Preparation for Packaging

- a. Once the baking cycle has been completed, the PPT will remove the baking sheets and allow them to cool.
- b. Once the PPP have cooled, the PPT will examine the PPP for any blemishes that can be fixed (hair, dirt, fingerprints, rough edges, etc.).
- c. The PPT will utilize the tools necessary to remove all blemishes, so that the paw print is the same quality as the example paw print.
- d. Once the quality has been confirmed, place them into an organza bag along with any other requested items.
- e. The paw print will be placed in the designated drop off location for packaging.



Any questions about or request for changes to all TPLC Operations policies should be directed to the VP of Operations.

The Pet Loss Center

Fire Prevention Plan

511 New Hope Road West
McKinney, TX 75071



The Pet Loss Center

HONORING THE JOURNEY

The Pet Loss Center

Fire Prevention Plan

Table of Contents

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- III. Assignment of Responsibility
- IV. Plan Implementation
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 - B. Maintenance
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 - A. Incinerator Hazards
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 - D. Office Fire Hazards
 - E. Flammable and Combustible Materials
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- VI. Training
- VII. Program Review
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 - A. Fire Risk Survey
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 - D. Flammable and Combustible Material Checklist
 - E. DWC Resources

**Fire Prevention Plan
for
The Pet Loss Center
Last Revised: 1.2.2020**

I. OBJECTIVE

The purpose of this Fire Prevention Plan is to eliminate the causes of fire, prevent loss of life and property by fire, and comply with the Occupational Safety and Health Administration's (OSHA) standard on fire prevention, 29 CFR 1910.39. The plan helps employees recognize, report, and control fire hazards.

II. BACKGROUND

The Pet Loss Center (PLC) is committed to minimizing the threat of fire to employees, visitors, and property. PLC complies with all applicable laws, regulations, codes, and good practices pertaining to fire prevention. PLC's separate Emergency Action Plan outlines procedures for responding to fires. This Fire Prevention Plan reduces the risk of fires at PLC in the following ways:

- A. identifies materials that are potential fire hazards and their proper handling and storage procedures;
- B. distinguishes potential ignition sources and the proper procedures for control of those materials;
- C. describes fire protection equipment or systems;
- D. identifies people responsible for maintaining the equipment and systems installed to prevent or control ignition of fires;
- E. identifies people responsible for the control and accumulation of flammable or combustible material;
- F. describes good housekeeping procedures for ensuring control of accumulated flammable and combustible waste material and residues; and
- G. provides employee training about fire hazards they may encounter.

III. ASSIGNMENT OF RESPONSIBILITY

Fire safety is everyone's responsibility. All employees should know how to prevent and respond to fires, and should understand that they are responsible for adhering to company policy regarding fire emergencies.

A. PLC Management

PLC management determines the fire prevention and protection policies. PLC management will provide adequate controls to provide a safe workplace, and will provide adequate resources and training to its employees to encourage fire prevention and the safest possible response in a fire emergency.

B. Plan Administrator

The Director of Operations will manage the Fire Prevention Plan for PLC and will maintain all records pertaining to the plan. The Plan Administrator will also:

1. develop and administer the PLC fire prevention training program;
2. ensure that fire control equipment and systems are properly maintained;
3. control fuel source hazards; and
4. ensure fire risk surveys (see Appendix A) are conducted with the local fire department and other emergency responders, and make recommendations.

C. Location Managers

Location Managers are responsible for ensuring that employees receive appropriate fire safety training and for notifying the Director of Operations when changes in operation increase the risk of fire. Location Managers are also responsible for enforcing PLC fire prevention and protection policies.

D. Employees

All employees will:

1. complete all required training before working without supervision;
2. conduct operations safely to limit fire risk;
3. report potential fire hazards to Location Managers; and
4. follow fire emergency procedures.

IV. PLAN IMPLEMENTATION

The following procedures will be implemented to reduce the risk of fire and personal injury to employees.

A. Good Housekeeping

To limit the risk of fires, employees will take the following precautions:

1. minimize storage of combustible materials;

2. make sure doors, hallways, stairs, and other exit routes are free of obstructions;
3. dispose of combustible waste in covered, airtight containers, in accordance to federal and local regulations;
4. use and store flammable materials in well-ventilated areas away from ignition sources;
5. keep incompatible (chemically reactive) substances away from each other;
6. perform "hot work" (working with an open flame or other ignition source) in controlled and well-ventilated areas;
7. keep equipment in good working order; inspect electrical wiring and appliances regularly and keep motors and machine tools free of dust and grease;
8. ensure that heating units are safeguarded;
9. report all gas leaks immediately to the Location Manager, who will ensure they are repaired immediately;
10. repair and clean up flammable liquid leaks immediately;
11. keep work areas free of dust, lint, sawdust, scraps, and similar material;
12. do not rely on extension cords if wiring improvements are needed, and take care not to overload circuits with multiple pieces of equipment;
13. turn off electrical equipment when not in use.

B. Maintenance

The Location Manager will ensure that equipment is maintained according to manufacturers' specifications. PLC must also comply with requirements of National Fire Protection Association (NFPA) codes for specific equipment. Only properly trained people may perform maintenance work.

The following equipment is subject to maintenance, inspection, and testing procedures:

1. equipment installed to detect fuel leaks, control heating, and control pressurized systems;
2. portable fire extinguishers, automatic sprinkler systems, and fixed extinguishing systems;
3. detection systems for smoke, heat, or flame;
4. fire alarm systems; and
5. emergency backup systems and the equipment they support.

C. Engineering

Local regulations may require certain engineering protocols. The Location Manager is responsible for communicating any lack of adherence to the Director of Operations.

When fire prevention engineering protocols are implemented, the Location Manager will ensure:

1. no modifications are made unless specifically instructed by the engineer, regulating authority, or PLC management;
2. routine inspection of all engineering protocols; and
3. report any required maintenance to PLC management.

D. Personal Protective Equipment

PLC will make available personal protective equipment (PPE) to all employees. It is the responsibility of the Location Manager to ensure adequate protection is provided for any, and all team members that request it.

At a minimum, PLC will provide:

1. welding / high temperature gloves;
2. face shields;
3. high temperature aprons.

If there are additional PPE items an employee desires, they should communicate this to the Location Manager.

V. TYPES OF HAZARDS

The following sections address the major workplace fire hazards at PLC facilities and the procedures for controlling the hazards.

A. Incinerator Hazards

Daily operations at PLC facilities require the use of incinerators. These utilize flammable gas and open flames to operate at temperatures above 1600 degrees Fahrenheit. Fires can result from gas leaks, electric failures, as well as improper operating techniques.

To prevent incinerator fires, employees will:

1. complete required training before operating machines;
2. conduct routine inspections to ensure equipment is in operable condition;
3. ensure incinerator stacks are routinely inspected and in operating condition;
4. immediately report any issues with incinerators to the Location Manager;
5. ensure to use proper technique while cremating pets;
6. never use or store flammable substances near incinerators; and
7. schedule regular performance and maintenance inspection (PMI) on each incinerator with the appropriate company.

B. Electrical Fire Hazards

Electrical system failures and the misuse of electrical equipment are leading causes of workplace fires. Fires can result from loose ground connections; wiring with frayed insulation; or overloaded fuses, circuits, motors, or outlets.

To prevent electrical fires, employees will:

1. make sure worn wires are replaced;
2. use only appropriately rated fuses;
3. never use extension cords as substitutes for permanent wiring;
4. use only approved extension cords [those with the Underwriters Laboratory (UL) or Factory Mutual (FM) label];
5. check wiring in hazardous locations where the risk of fire is especially high;
6. check electrical equipment to ensure it is properly grounded or double insulated; and
7. ensure adequate spacing during maintenance.

C. Portable Heaters

All portable heaters must be approved by the Location Manager. Portable electric heaters must have tip-over protection that automatically shuts off the unit when it is tipped over. A portable heater may only be plugged into a wall outlet and never into an extension cord or cubicle outlet. Always allow adequate clearance between the heater and combustible furnishings or other materials.

D. Office Fire Hazards

Fire risks are not limited to PLC industrial facilities. Office fires have become more likely due to increased use of electrical equipment, such as computers and copiers. To prevent office fires, employees must:

1. avoid overloading circuits with office equipment;
2. turn off and unplug nonessential electrical equipment, at the end of each workday;
3. keep storage areas clear of rubbish;
4. ensure that extension cords are not placed under carpets; and
5. ensure that trash and paper set aside for recycling is not allowed to accumulate.

E. Flammable and Combustible Materials

Location Managers will regularly evaluate the presence of combustible materials at their facility (see Appendix D).

Certain types of substances can ignite at relatively low temperatures or pose a risk of catastrophic explosion if ignited. Such substances obviously require special care and handling.

1. Class A combustibles.

These include common combustible materials (wood, paper, cloth, rubber, and plastics) that can act as fuel and are found in non-specialized areas, such as offices.

To handle Class A combustibles safely:

- a. Dispose of waste daily.
- b. Keep trash in receptacles with tight-fitting covers. Wastebaskets that are emptied every day do not need to be covered.
- c. Keep work areas clean and free of fuel paths that could allow a fire to spread.
- d. Keep combustibles away from accidental ignition sources, such as hot plates, soldering irons, or other heat- or spark-producing devices.
- e. Store paper stock in cabinets.
- f. Store rags in bins with lids.
- g. Do not order excessive amounts of combustibles.
- h. Frequently inspect areas where combustibles are kept.

Water, multi-purpose dry chemical (ABC), and halon 1211 are approved fire-extinguishing agents for Class A combustibles.

2. Class B combustibles.

These include flammable and combustible liquids (oils, greases, tars, oil-based paints, and lacquers), flammable gases, and flammable aerosols.

To handle Class B combustibles safely:

- a. Use only approved pumps, taking suction from the top, to dispense liquids from tanks, drums, barrels, or similar containers (or use approved self-closing valves or faucets).
- b. Do not dispense Class B flammable liquids into containers unless the nozzle and container are electrically interconnected by contact or a bonding wire. Either the tank or container must be grounded.
- c. Store, handle, and use Class B combustibles only in approved locations where vapors are prevented from reaching ignition sources, such as heating or electric equipment, open flames, or mechanical or electric sparks.

- d. Do not use a flammable liquid as a cleaning agent inside a building. The only exception is in a closed machine approved for cleaning with flammable liquids.
- e. Do not use, handle, or store Class B combustibles near exits, stairs, or other areas normally used as exits.
- f. Do not weld, cut, grind, or use unsafe electrical appliances or equipment near Class B combustibles.
- g. Do not generate heat, allow an open flame, or smoke near Class B combustibles.
- h. Know the location of and how to use the nearest portable fire extinguisher rated for Class B fire.

Do not use water to extinguish Class B fires caused by flammable liquids. Water can cause burning liquid to spread, making the fire worse. To extinguish a fire caused by flammable liquids, exclude the air around the burning liquid. The following fire-extinguishing agents are approved for Class B combustibles: carbon dioxide, multi-purpose dry chemical (ABC), halon 1301, and halon 1211. (NOTE: Halon is an ozone-depleting substance and is no longer being manufactured. Existing systems using halon can be kept in place, but employers must post signs indicating where halon or other agents that pose a serious health hazard are used.)

F. Smoking

Please refer to the Employee Handbook for current smoking policies.

VI. TRAINING

Location Managers will present basic fire prevention training to all employees upon employment and will maintain documentation of the training, which includes:

- A. review of 29 CFR 1910.38, including how it can be accessed;
- B. this Fire Prevention Plan, including how it can be accessed;
- C. good housekeeping practices;
- D. proper response and notification in the event of a fire;
- E. instruction in the use of portable fire extinguishers, as determined by company policy in the Emergency Action Plan; and
- F. how to recognize potential fire hazards.

Location Managers will train employees about fire hazards associated with the specific materials and processes to which they are exposed, and will maintain documentation of the training. Employees will receive this training:

- A. at their initial assignment;
- B. annually; and

C. when changes in work processes necessitate additional training.

VII. PROGRAM REVIEW

The Director of Operations will review this Fire Prevention Plan at least annually for necessary changes.

Appendix A

Fire Risk Survey
The Pet Loss Center
Location: __McKinney__
Date: __2/5/2020__

Perform a walkthrough of the facility with the local fire department and other emergency responders to assess the layout of the structures, types and volume of hazardous chemical storage, and other hazards they may encounter when responding to an emergency. Provide a copy of this survey to local authorities for their records.

Type of Fire Hazard	Location	Emergency Actions	Required PPE
Propane tank	Storage Shed	Call 911	Flame Resistant
LPG Tank	Behind building	Turn off gas Call 911 and Douglas Distributing	Flame resistant

Completed by: _____ Date: _____

Appendix B

The Pet Loss Center Location: McKinney General Fire Prevention Checklist

Use this checklist to ensure that fire prevention measures conform with the general fire prevention requirements found in OSHA standards.

- ☒ Yes ☐ No Is the local fire department acquainted with your facility, its location, and its specific hazards?
- ☒ Yes ☐ No If you have a fire alarm system, is it tested at least annually?
- ☐ Yes ☐ No If you have interior standpipes and valves, are they inspected regularly?
- ☐ Yes ☐ No If you have outside, private fire hydrants, are they on a routine preventive maintenance schedule and flushed at least once a year?
- ☐ Yes ☐ No Are fire doors and shutters in good operating condition?
- ☐ Yes ☐ No Are fire doors and shutters unobstructed and protected against obstructions, including their counterweights?
- ☐ Yes ☐ No Are automatic sprinkler system water-control valves, air pressure, and water pressure checked weekly or at other intervals?
- ☐ Yes ☐ No Has responsibility for the maintenance of automatic sprinkler systems been assigned to an employee or contractor?
- ☐ Yes ☐ No Are sprinkler heads protected by metal guards?
- ☐ Yes ☐ No Is proper clearance maintained below sprinkler heads?
- ☒ Yes ☐ No Are portable fire extinguishers provided in adequate number and type?
- ☒ Yes ☐ No Are fire extinguishers mounted in readily accessible locations?
- ☒ Yes ☐ No Are fire extinguishers recharged regularly with the recharge date noted on an inspection tag?
- ☒ Yes ☐ No Are employees periodically instructed in the use of extinguishers and fire protection procedures?

Completed by: Andrew Winkler Date: 2/5/2020

Appendix C

The Pet Loss Center Location: McKinney Exits Checklist

Use this checklist to evaluate PLC's compliance with OSHA's standard on emergency exit routes.

- | | |
|---|---|
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Is each exit marked with an exit sign and illuminated by a reliable light source? |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Are the directions to exits, when not immediately apparent, marked with visible signs? |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Are doors, passageways, or stairways that are neither exits nor access to exits, and which could be mistaken for exits, marked "NOT AN EXIT" or with another appropriate marking? |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Are exit signs provided with the word "EXIT" in letters at least 5 inches high with lettering at least 1 inch wide? |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Are exit doors side-hinged? |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Are all exits kept free of obstructions? |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Are there at least two exit routes provided from elevated platforms, pits, or rooms where the absence of a second exit would increase the risk of injury from hot, poisonous, corrosive, suffocating, flammable, or explosive substances? |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Is the number of exits from each floor of a building and from the building itself appropriate for the building occupancy? (NOTE: Do not count revolving, sliding, or overhead doors when evaluating whether there is a sufficient number of exits.) |
| <input type="checkbox"/> Yes <input type="checkbox"/> No | Are exit stairways that are required to be separated from other parts of a building enclosed by at least one-hour fire-resistant walls (or at least two-hour fire-resistant walls in buildings more than four stories high)? |
| <input type="checkbox"/> Yes <input type="checkbox"/> No | Are the slopes of ramps used as part of emergency building exits limited to dimensions of 1 foot vertical and 12 feet horizontal? |
| <input type="checkbox"/> Yes <input type="checkbox"/> No | Are glass doors or storm doors fully tempered, and do they meet the safety requirements for human impact? |

- ☒ Yes ☐ No Can exit doors be opened from the direction of exit travel without a key or any special knowledge or effort?
- ☒ Yes ☐ No Are doors on cold storage rooms provided with an inside release mechanism that will release the latch and open the door even if it's padlocked or otherwise locked on the outside?
- ☐ Yes ☐ No Where exit doors open directly onto any street, alley, or other area where vehicles may be operated, are adequate barriers and warnings provided to prevent employees from stepping into the path of traffic?
- ☐ Yes ☐ No Are doors that swing in both directions and are located between rooms where there is frequent traffic equipped with glass viewing panels?

Completed by: Andrew Winkler Date: 2/5/2020

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Appendix D

The Pet Loss Center Location: McKinney **Flammable and Combustible Material Checklist**

Use this checklist to evaluate PLC's compliance with OSHA's standards on flammable and combustible materials:

- | | |
|---|--|
| <input type="checkbox"/> Yes <input type="checkbox"/> No | Are combustible scrap, debris, and waste materials, such as oily rags, stored in covered metal receptacles and removed from the worksite promptly? |
| <input type="checkbox"/> Yes <input type="checkbox"/> No | Are approved containers and tanks used to store and handle flammable and combustible liquids? |
| <input type="checkbox"/> Yes <input type="checkbox"/> No | Are all connections tight on drums and combustible liquid piping, vapor, and liquid? |
| <input type="checkbox"/> Yes <input type="checkbox"/> No | Are all flammable liquids kept in closed containers when not in use? |
| <input type="checkbox"/> Yes <input type="checkbox"/> No | Are metal drums of flammable liquids electrically grounded during dispensing? |
| <input type="checkbox"/> Yes <input type="checkbox"/> No | Do storage rooms for flammable and combustible liquids have appropriate ventilation systems? |
| <input type="checkbox"/> Yes <input type="checkbox"/> No | Are NO SMOKING signs posted on liquefied petroleum gas tanks? |
| <input type="checkbox"/> Yes <input type="checkbox"/> No | Are all solvent wastes and flammable liquids kept in fire-resistant, covered containers until they are removed from the worksite? |
| <input type="checkbox"/> Yes <input type="checkbox"/> No | Is combustible dust vacuumed rather than blown or swept whenever possible? |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Are fuel gas cylinders and oxygen cylinders separated by distances or fire-resistant barriers while in storage? |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Are fire extinguishers appropriate for the materials in the areas they are mounted?* |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Are appropriate fire extinguishers mounted within 75 feet of outside areas containing flammable liquids and within 10 feet of any inside storage area for such materials?* |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Are extinguishers free from obstruction or blockage?* |

Appendix D: DWC Resources

DWC features a free occupational safety and health DVD loan library. Call 512-804-4620 for more information or visit the DWC website at www.txsafetyatwork.com. DVDs on emergency action plans include:

Chemical Handling: Flammables

DVD2084ES, 14 min.

NOTE: This DVD should be supplemented with one of the Global Harmonization System DVDs. Defines the three forms of flammables. Discusses the properties of flammable materials and what makes fire burn. Covers how to identify flammables and how they should be handled and stored, safety data sheets, emergency responses, spills, fires, and first aid for both exposure and burns. 2004, 2003. Coastal. Includes quiz.

Egress/Exit Safety

DVD545, DVD545S, 5 min.

Discusses obstructions, exit doors, and how to exit safely. Safety Shorts. Includes quiz.

Fire! In the Workplace

DVD1453ES, 17 min.

Trains employees about causes and dangers of workplace fires. Covers classes of fires, proper housekeeping, and how to extinguish small fires. Coastal. No copyright date. 2006/1991. Includes employee quiz.

Fire Prevention

DVD2317, 5 min.

Teaches employees to take simple precautions and to keep alert to fire hazards. Discusses flammable storage, smoke inhalation, smoke detectors, and heat sources. Safety Shorts. Includes brief quiz.

Fire Prevention & Safety in Industrial Facilities

DVD1603, DVD1603S, 20 min.

Explains that when a workplace fire consumes chemicals, plastics, and other modern substances, it can create toxic infernos that spread quickly and kill instantly. Shows employees in industrial facilities how they can do their part in fire prevention by staying alert and following their company's Fire Prevention Plan. Reviews the precautions employees must take to prevent office fires and the things they should do if a workplace fire breaks out. ERI. 2003. Includes quiz.