

IOWA DEPARTMENT OF NATURAL RESOURCES

Appliance Demanufacturer



PERMIT APPLICATION FORM 50D

New Permit	🔀 Permit Ren	ewal #	ADP-		20	Permit Amendment
Application for an a information require	appliance demanufaced by the applicable	cturer must be solid waste ru	accomp les under	anied by r Iowa A	the plans, speci dministrative Co	fications and additional de 567 Chapter 118.
Send completed ap	plications with attac	hed informati	ion to:			
Land Quality Bu	d Contaminated Site Ste 200					
For questions conce	erning this applicatio	n please cont	act the D	epartme	ent at (515) 217-	0872.
SECTION 1. FACILIT	Y CONTACT INFORM	<u>IATION</u>				
Facility Name: M	etro Park East Sanitan	/ Landfill				
Address: 12181 N	E University Avenue, N	litchellville, IA5	0169-957	1		
Phone: (515)-967-2	2076 Fax:	(515)-967-7965	5	Email:	MMO@MWATO	DAY.COM
Name of Responsib	le Official: Michael	МсСоу		estants.		
Address: 300 East	Locust Street, Suite #1	.00, Des Moines	s, IA 50309	9		
Phone: (515)-323-6	5535 Fax:	(515)-244-9477	, 	Email:	MMC@MWATO	DAY.COM
Name of Facility Op	perator: Colby Reid					
Phone: (S15)-423-5	5321 Fax:	(515)-967-7965		Email:	CRE@MWATOD	AY.COM
Site Legal Description	on: Sanitary Landfil	I				County Polk
¼ or	¼ of ¼	Sec	_ Twp	78	N Range 22	*
Facility Owner: N	lichael McCoy					•
Address: 300 East	Locust Street, Suite #1	00, Des Moines	s, IA 50309			
Phone: (51S)-323-6	5535 Fax:	(5151)-244-947	7	Email:	MMC@MWATO	DAY.COM
Name of Design Eng	gineer (P.E.), if any:	OPN Archited	ts			License #: 05219
Address: 100 Cour	t Avenue, Suite #100, I	Des Moines, IA	50309			
Phone: (515)-309-0	722 Fax: (515)-309-0725		Email:	tgebard@opnarc	hitects.com

SECTION 2. SITE	INFORMATION
Days and hours	of operation of the facility: M-F 6:30AM-4:30PM; Sat. 7AM-2PM (Apr Oct.); Sat. 8AM-1PM (Nov Mar.)
Open to the pub	líc? 🔀 Yes 🗌 No
	he facility <u>and</u> final disposal destination of components: olk County
Disposal Facility	Metro Park East Landfill
	number or weight of appliances to be handled per day, week and year at the facility:
Refrigerators, Freez	ters, Commercial Coolers, Air-conditioning Units, Dehumidifiers, Gas Water Heaters, Furnaces, Clothes washers
and driers, Dishwas	hers, Microwave ovens, Stoves/Ovens
20	per day
119	per week
6154	per year

Description of the appliance handling and demanufacturing process to be used:

Please reference "Site Operations Plan"

SECTION 3. PERMIT APPLICATION CHECKLIST

Checking the appropriate boxes below certifies that the documents submitted in conjunction with this application form are complete and in compliance with the applicable chapters of the lowa Administrative Code. While some of the documents below may have been submitted previously, <u>updated copies of each is required to be provided with each permit renewal application</u>. One (1) copy of each document shall be submitted. If an application is found by the department to be incomplete, it may be denied and returned to the applicant.

	Required Documents	a de la companya de	Attached				
Section A.	 Executive Summary (permit renewals only) Summary of modifications, if any, to the facility that occurred during the current permit cycle. Summary of each special provision of the current permit to determine if it is to remain the same, be revised or be removed. Summary of each permit amendment, if any, that occurred during the current permit cycle to determine if it shall be included with the renewed permit, be revised or be removed. Provide documentation and certification as required for new permit amendment requests and new variance requests from lowa Administrative Code, if any. 						
Section B.	Site Map or Aerial Photograph	IAC 567 118.6(6)	\				
Section C.	Proof of Ownership/Local Zoning Requirements/100 yr. flood elevation	IAC 567 118.6(15) IAC 567 118.7(3)	V				
Section D.	Organizational Chart	IAC 567 102.12(5)	V				
Section E.	Operator Certification	IAC 567 118.6(13)	√				
Section F.	EPA Refrigerant Recovery Device Certification	IAC 567 118.6(8)	\				
Section G.	EPA Notification of PCB Activity	IAC S67 118.6(12)	\				
Section H.	Unique Marking System	IAC 567 118.6(14)	V				
Section I.	Site Operation Plan	IAC 567 118.6(9)	7				
Section J.	Contingency Plan	IAC 567 118.6(10)	V				
Section K.	Site Closure Plan	IAC 567 102.12(10)	√				
Section L.	Proof of Financial Assurance and Closure Cost Estimate	IAC 567 118.16	7				

SECTION 4. APPLICANT CERTIFICATION

Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.

I further certify that the construction and operation of the above described facility will be in accordance with the plans, specifications, reports and related communications accepted by the Iowa Department of Natural Resources and on file in its office; and in accordance with conditions imposed in the permit issued by the Iowa Department of Natural Resources.

Signature:

Matthew J. Mor

Date:

Title:

Compliance Coordinator

Section A: Executive Summary



Executive Summary 2025 Permit Renewal Application – Appliance Demanufacturing Facility Metro Park East Landfill – 77-ADP-11-20

Metro Waste Authority is submitting this permit renewal application for continued operation of the Appliance Demanufacturing Facility located at Metro Park East Landfill. This submittal includes several updates and organizational improvements to reflect current operations and streamline review.

Key revisions in this application include:

- Updated Appliance Handling Estimates: Section 2 of Permit Application Form 50D has been revised to reflect updated quantities of appliances managed per day, week, and year based on operational data.
- **Revised Organizational Chart:** The agency's organizational chart has been updated to reflect current roles and responsibilities.
- **Improved Structure and Formatting:** The permit package has been reorganized to follow the section order of Form 50D for clarity and consistency.
- **Updated Site Map and Aerial Photos:** Visual documentation of the facility has been revised to reflect current site layout and infrastructure.
- **Updated Equipment Certification:** Section F includes updated EPA Refrigerant Recovery Device Certifications and accompanying equipment manuals.
- Combined Sections H and I: To remain consistent with the original permit structure, Section H
 (Unique Marking System) and Section I (Site Operation Plan) are presented as a combined
 section.
- Ownership and Zoning Documentation: Ownership and zoning information from Metro Park East's Solid Waste Disposal Permit (#77-SDP-01-72) has been included to demonstrate compliance with applicable requirements.
- **Financial Assurance and Closure:** As the facility is co-located with a permitted sanitary landfill subject to financial assurance requirements, Section L (Proof of Financial Assurance and Closure Cost Estimate) is not included in this application.

Metro Waste Authority remains committed to safe and compliant operation of its Appliance Demanufacturing Facility. This updated permit package reflects our efforts to maintain accurate records and align with current Iowa DNR expectations.

Central Office | 300 East Locust Street, Suite 100 | Des Moines, Iowa 50309-1864 | 515.244.0021

Metro Park East Landfill | 12181 NE University Avenue | Mitchellville, Iowa 50169-9571 | 515.967.2076

Metro Park West Landfill | 2499 337th Street | Perry, Iowa 50220-8500 | 515.333.5618

Metro Hazardous Waste Drop-Off | 1105 Prairie Drive SW | Bondurant, Iowa 50035-9209 | 515.967.5512

Section B: Site Map or Aerial Photograph





Section C: Proof of Ownership/Local Zoning Requirements/100 year flood elevation

CONDITIONAL USE BOUNDARY DESCRIPTION

METRO WASTE AUTHORITY DES MOINES, IOWA July 6, 2005

That part of Government Lots 1, 2, 3, 4, 5, 6, 7, & 8 and that part of the Northwest Quarter of the Southeast Quarter (NW ¼ - SE ¼) and that part of the Northeast Quarter of the Southeast Quarter (NE ¼ - SE ¼) all in Section One (1), Township 78 North, Range 22 West of the Fifth P.M., Polk County, Iowa;

described as COMMENCING at the Southwest Corner of the Northwest Quarter of the Southeast Quarter (NW ½ - SE ½) of said Section One (1), monumented by a ½ inch reinforcing steel bar with a yellow cap # 15980:

thence North 0^-32'-40" East 1316.91 feet along the west side of the Northwest Quarter of the Southeast Quarter (NW ¼ - SE ¼) of said Section One (1) to the Northwest Corner of said Northwest Quarter of the Southeast Quarter (NW ¼ - SE ¼);

thence North 77^-18'-08" East 147.85 feet to the POINT OF BEGINNING;

thence South 86^-40'-05" West 1,489.80 feet;

thence North 00^-48'-12" East 767.70 feet;

thence North 47^-01'50" West 519.58 feet;

thence North 02^-14'-23" East 66.54 feet;

thence North 13^-02'-28" East 572.82 feet;

thence North 02^-06'-52" East 555.11 feet;

thence North 10^-26'-46" West 1,135.90 feet;

thence North 77^-47'-57" East 455.90 feet;

thence South 80^-18'-18" East 1,283.46 feet;

thence North 00^-34'-32" East 94.75 feet;

thence North 90^-00'-00" East 1,796.53 feet;

thence South 00^-00'-00" East 4,300.00 feet;

thence North 90^-00'-00" West 1,500.00 feet;

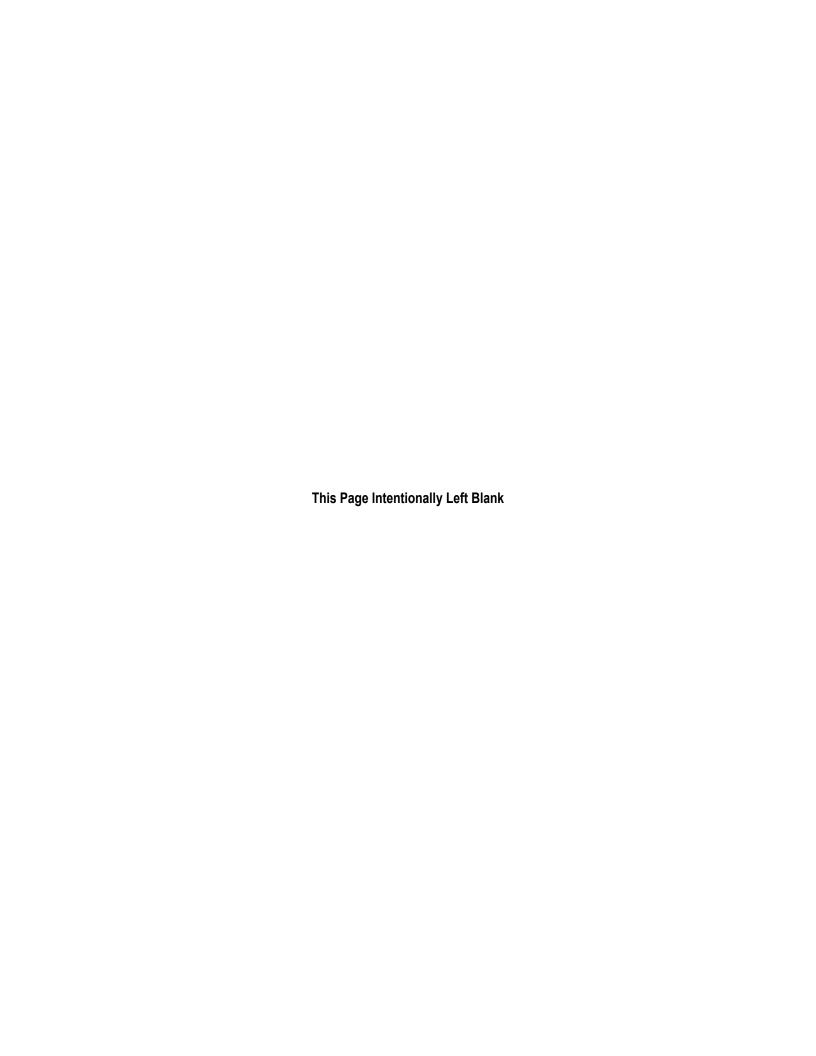
thence North 00^-00'-00" West 191.49 feet;

thence North 27^-48'-57" West 277.02 feet to the POINT OF BEGINNING;

said parcel contains approximately 314.38 Acres and is subject to easements of record.

The west line of the East One-Half (E $\frac{1}{2}$) of said Section One (1) was assumed to bear North 00^-32'-40" East.

END OF DESCRIPTION



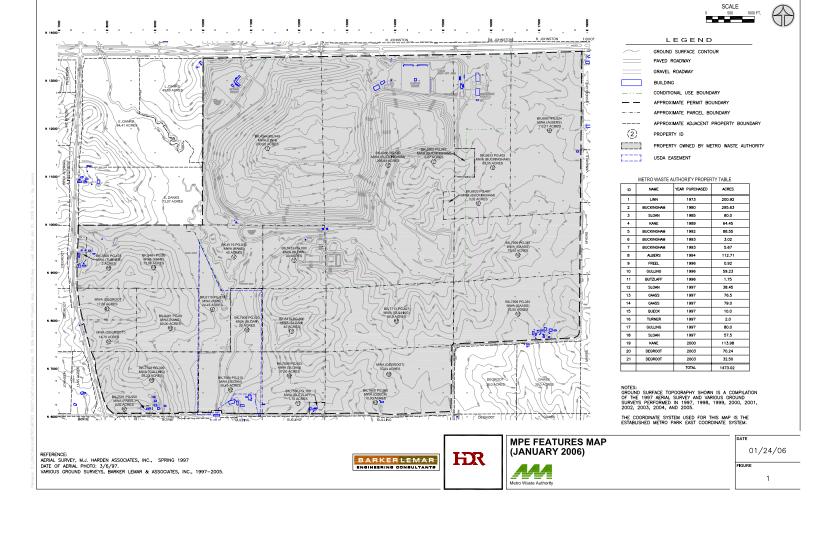
GOVERNMENT LOTS 5, 6, 7 AND 8, A PART OF GOVERNMENT LOTS 1, 2, 3, AND 4, THE NORTH 1/2 OF THE SOUTHEAST 1/4 AND A PART OF THE SOUTHWEST 1/4, BEING IN SECTION 1 AND GOVERNMENT LOTS 6 AND 7, A PART OF GOVERNMENT LOTS 1, 2, AND 8, THE SOUTHEAST 1/4 AND A PART OF THE SOUTHWEST 1/4, BEING IN SECTION 2 AND A PART OF THE NORTH 1/2 OF THE NORTHWEST 1/4 OF SECTION 12, ALL BEING IN TOWNSHIP 78 NORTH, RANGE 22 WEST OF THE 5TH P.M., POLK COUNTY, IOWA AND MORE PARTICULARLY DESCRIBED AS FOLLOWS:

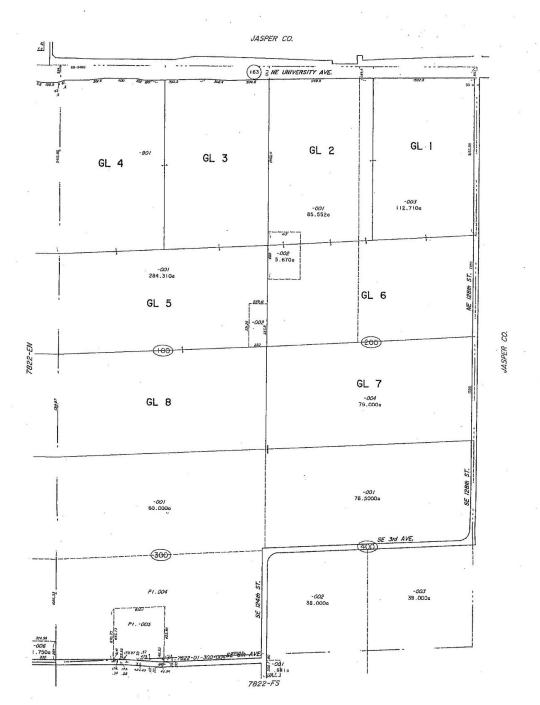
BEGINNING AT THE SOUTHEAST CORNER OF SAID SECTION 2; THENCE NORTH $89^56'22''$ WEST ALONG THE SOUTH LINE OF SAID SOUTHEAST 1/4 OF SECTION 2, A DISTANCE OF 1831.33 FEET; THENCE NORTH $0^03'38''$ EAST, 40.00 FEET TO THE

NORTHERLY RIGHT OF WAY LINE OF SE 6TH AVENUE; THENCE NORTH 89^56'22" WEST ALONG SAID NORTHERLY RIGHT OF WAY LINE, 321.00 FEET; THENCE NORTH 0^03'38" EAST CONTINUING ALONG SAID NORTHERLY RIGHT OF WAY LINE, 60.00 FEET; THENCE NORTH 89^56'22" WEST CONTINUING ALONG SAID NORTHERLY RIGHT OF WAY LINE, 210.00 FEET; THENCE SOUTH 0^03'38" WEST CONTINUING ALONG SAID NORTHERLY RIGHT OF WAY LINE, 40.00 FEET; THENCE NORTH 89^56'22" WEST CONTINUING ALONG SAID NORTHERLY RIGHT OF WAY LINE, 280.00 FEET TO THE EAST LINE OF THE SOUTHEAST 1/4 OF SAID SOUTHWEST 1/4 OF SECTION 2; THENCE NORTH 89^54'50" WEST CONTINUING ALONG SAID NORTHERLY RIGHT OF WAY LINE, 400.84 FEET; THENCE SOUTH 0^05'10" WEST, 60.00 FEET TO THE SOUTH LINE OF SAID SOUTHWEST 1/4; THENCE NORTH 89^54'50" WEST ALONG SAID SOUTH LINE, 545.94 FEET; THENCE NORTH 0^05'10" EAST, 33.00 FEET TO SAID NORTHERLY RIGHT OF WAY LINE OF SE 6TH AVENUE; THENCE NORTH 89^54'50" WEST ALONG SAID NORTHERLY RIGHT OF WAY LINE, 241.98 FEET; THENCE SOUTH 0^05'10" WEST, 33.00 FEET TO SAID SOUTH LINE OF THE SOUTHWEST 1/4; THENCE NORTH 89^54'50" WEST ALONG SAID SOUTH LINE, 582.23 FEET TO THE EASTERLY RIGHT OF WAY LINE OF SE CAMP DRIVE; THENCE NORTH 0^05'10" EAST ALONG SAID EASTERLY RIGHT OF WAY LINE, 33.00; THENCE NORTH 45^49'30" WEST CONTINUING ALONG SAID EASTERLY RIGHT OF WAY LINE, 161.37 FEET; THENCE NORTH 22^40'40" WEST CONTINUING ALONG SAID EASTERLY RIGHT OF WAY LINE, 247.94 FEET; THENCE NORTH 14^18'29" WEST CONTINUING ALONG SAID EASTERLY RIGHT OF WAY LINE, 620.46 FEET; THENCE NORTH 1^33'50" WEST CONTINUING ALONG SAID EASTERLY RIGHT OF WAY LINE, 153.87 FEET; THENCE NORTH 24^23'09" WEST CONTINUING ALONG SAID EASTERLY RIGHT OF WAY LINE, 209.88; THENCE NORTH 11^31'48" WEST CONTINUING ALONG SAID EASTERLY RIGHT OF WAY LINE, 491.55: THENCE NORTH 18^41'33" WEST CONTINUING ALONG SAID EASTERLY RIGHT OF WAY LINE, 410.79; THENCE NORTH 7^14'06" WEST CONTINUING ALONG SAID EASTERLY RIGHT OF WAY LINE, 452,94 FEET TO THE NORTH LINE OF SAID SOUTHWEST 1/4: THENCE NORTH 3^25'58" EAST CONTINUING ALONG SAID EASTERLY RIGHT OF WAY LINE, 302.73 FEET; THENCE NORTH 10^17'15" WEST CONTINUING ALONG SAID EASTERLY RIGHT OF WAY LINE, 152.97 FEET; THENCE NORTH 1^01'20" EAST CONTINUING ALONG SAID EASTERLY RIGHT OF WAY LINE, 168.00 FEET; THENCE NORTH 0^33'05" WEST CONTINUING ALONG SAID EASTERLY RIGHT OF WAY LINE, 182.07 FEET; THENCE NORTH 4^35'55" EAST CONTINUING ALONG SAID EASTERLY RIGHT OF WAY LINE, 400.78 FEET; THENCE NORTH 1\^01'20" EAST CONTINUING ALONG SAID EASTERLY RIGHT OF WAY LINE, 50.00 FEET; THENCE SOUTH 88^58'40" EAST CONTINUING ALONG SAID EASTERLY RIGHT OF WAY LINE, 30.00 FEET; THENCE NORTH 1^01'20" EAST CONTINUING ALONG SAID EASTERLY RIGHT OF WAY LINE, 63.41 FEET TO THE NORTH LINE OF SAID GOVERNMENT LOT 8 OF SAID SECTION 8; THENCE NORTH 89^58'03" EAST ALONG SAID NORTH LINE, 2516.43 FEET TO THE NORTHEAST CORNER OF SAID GOVERNMENT LOT 8; THENCE NORTH 0^44'45" EAST ALONG THE WEST LINES OF SAID GOVERNMENT LOTS 6 AND 2, A DISTANCE OF 3472.53 FEET TO THE SOUTHERLY RIGHT OF WAY LINE NE UNIVERSITY AVENUE; THENCE SOUTH 72^54'35" EAST ALONG SAID SOUTHERLY RIGHT OF WAY LINE, 169.67 FEET; THENCE NORTH 89^20'26" EAST CONTINUING ALONG SAID EASTERLY RIGHT OF WAY LINE 1459.59 FEET; THENCE NORTH 75^41'35" EAST CONTINUING ALONG SAID EASTERLY RIGHT OF WAY

LINE, 223.45 FEET; THENCE NORTH 88^48'01" EAST CONTINUING ALONG SAID EASTERLY RIGHT OF WAY LINE, 768.48 FEET; THENCE NORTH 88^48'01" EAST CONTINUING ALONG SAID EASTERLY RIGHT OF WAY LINE, 357.23 FEET; THENCE NORTH 82^38'17" EAST CONTINUING ALONG SAID EASTERLY RIGHT OF WAY LINE, 201.51 FEET; THENCE NORTH 89^45'46" EAST CONTINUING ALONG SAID EASTERLY RIGHT OF WAY LINE, 400.38 FEET; THENCE SOUTH 79^00'09" EAST CONTINUING ALONG SAID EASTERLY RIGHT OF WAY LINE, 101.13 FEET; THENCE SOUTH 89^58'29" EAST CONTINUING ALONG SAID EASTERLY RIGHT OF WAY LINE, 100.58 FEET; THENCE NORTH 88^08'52" EAST CONTINUING ALONG SAID EASTERLY RIGHT OF WAY LINE, 700.28 FEET; THENCE SOUTH 87^21'33" EAST CONTINUING ALONG SAID EASTERLY RIGHT OF WAY LINE, 300.41 FEET; THENCE NORTH 87^32'35" EAST CONTINUING ALONG SAID EASTERLY RIGHT OF WAY LINE, 509.06 FEET; THENCE NORTH 88^41'03" EAST CONTINUING ALONG SAID EASTERLY RIGHT OF WAY LINE, 1149.98 FEET; THENCE NORTH 89^26'46" EAST, 1502.93 FEET TO THE EAST LINE OF GOVERNMENT LOT 1 OF SAID SECTION 1; THENCE SOUTH 0^30'54" WEST ALONG SAID EAST LINE AND THE EAST LINE OF SAID GOVERNMENT LOT 6 OF SECTION 1, A DISTANCE OF 3337.66 FEET TO THE NORTHEAST CORNER OF SAID GOVERNMENT LOT 7 OF SECTION 1; THENCE SOUTH 0^31'22" WEST ALONG THE EAST LINE OF SAID GOVERNMENT LOT 7, A DISTANCE OF 1320.21 FEET TO THE EAST 1/4 CORNER OF SAID SECTION 1; THENCE SOUTH 0^21'06" WEST ALONG THE EAST LINE OF SAID SOUTHEAST 1/4 OF SECTION 1, A DISTANCE OF 1323.51 FEET TO THE SOUTHEAST CORNER OF THE NORTHEAST 1/4 OF SAID SOUTHEAST 1/4 OF SECTION 1; THENCE SOUTH 87^20'09" WEST ALONG THE SOUTH LINE OF SAID NORTH 1/2 OF THE SOUTHEAST 1/4 OF SECTION 1, A DISTANCE OF 262.87 FEET; THENCE SOUTH 87^06'29" WEST ALONG THE NORTH LINE OF THE SOUTHEAST 1/4 OF SAID SOUTHWEST 1/4, A DISTANCE OF 27.30 FEET TO THE NORTHEAST CORNER OF PARCEL B OF THE SOUTHWEST 1/4 AS SHOWN ON THE PLAT OF SURVEY RECORDED IN BOOK 10484. PAGE 829: THENCE SOUTH 0^45'40" WEST ALONG THE EAST LINE OF SAID PARCEL B, 1409.81 TO THE SOUTHEAST CORNER OF SAID PARCEL B; THENCE SOUTH 87^22'10" WEST ALONG THE SOUTHERLY LINE OF SAID PARCEL B, 1250.73 FEET; THENCE NORTH 89^55'40" WEST CONTINUING ALONG SAID SOUTHERLY LINE, 49.86 FEET; THENCE NORTH 86^47'29" WEST CONTINUING ALONG SAID SOUTHERLY LINE, 424.96 FEET; THENCE NORTH 89^41'30" WEST CONTINUING ALONG SAID SOUTHERLY LINE, 173.97 FEET; THENCE SOUTH 89^06'10" WEST, CONTINUING ALONG SAID SOUTHERLY LINE, 733.32 FEET TO THE POINT OF BEGINNING AND CONTAINING 1481.32 ACRES (64,526,455 S.F.).

PROPERTY SUBJECT TO ANY AND ALL EASEMENTS OF RECORD.



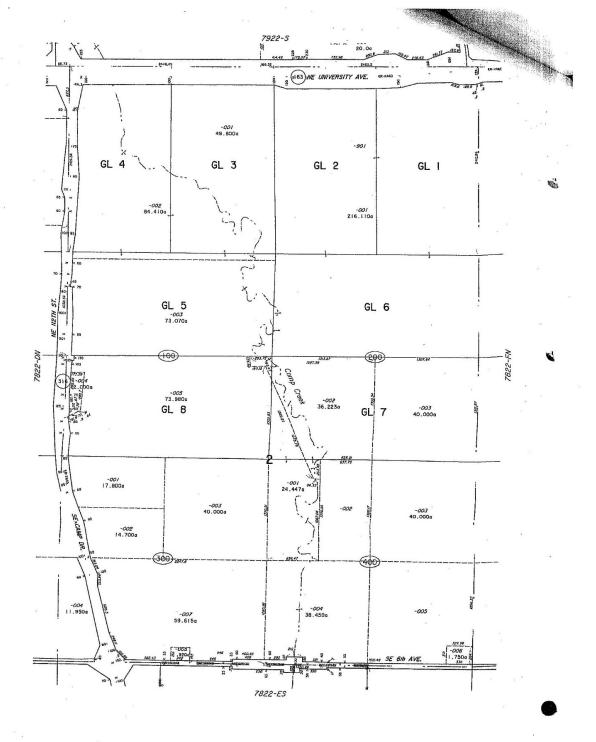


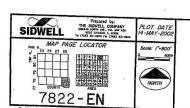
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POLK COUNTY, IOWA

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CAMP TWP. SECTION 2 T.78N. R.22W.

POLK COUNTY, IOWA

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WARRANTY DEEL (corporate)

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aving its principal place of business at	
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	in consideration of the sum of One Dollar and other
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Chand paid does hereby CONVEY unto _	
	litan Area Solid Waste Agency
rantees' Address:	
e following described real estate situated	in Polk County, lowa, to-wit:
	lamb.
The East one-	-half (1/2) of the Government Lot Seven (7)
	(2) and the Northeast Quarter of the
	arter (NE%, SE%) of Section Two (2) all Seventy-Eight (78) North, Range Twenty-Two
(22) West of	the 5th P.M., containing eighty (80) acres.
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	TOWA STATE BAH ASSOCIATION ONICIAL FARM, NO. 101	FOR THE LEGAL EFFECT OF THE USE THIS FORM, CONSULT YOUR LAWYER
0	fled to record and delivered to Lound Auditor this Add day Moderne 10 The Corder's gray yielder's for \$22 state Depute Recorder's fleet der	INST. NO. 069166 POLK COUNTY, IOWA FILED FOR RECORD JUN 3 0 1989 A.M. TIMOTHY J. BRIEN, Recorder By Deputy
	WARRAI WARRAI	VTY DEED SPACE ABOVE THIS LINE FOR RECORDER
)	ror me consideration of	and Three Hundred Sixty-Eight and 50/10
)	Dollar(s) and other valuable consideration, Jerry Ray Kane, a single	person,
T	do hereby Convey to Des Moines Metropol	itan Area Solid Waste Agency
في نون	the following described real estate inPolk	County, lowa:
	Real estate described on Exhibit regarding plats attached.	"A", both Parcel A and Parcel B,
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	STATE OF IOWA JASPER COUNTY, ss: On this 30 day of Quana	Dated: 9400 30, 1989
	19.89, before me, the undersigned, a Notary Public in and for said State, personally appeared Jerry Ray Kane, a single person,	JERRY RAY KANED (Grantor) Pearly November 1987
	to me known to be the identical persons named in and who executed the foregoing instrument and acknowledged that they executed the same as their voluntary act and	(Grantor) Million (Grantor) Million Mi
	deed. Takan Billibegroff	(Gran(or) of them
	(Nathan B. Updegraff) Notary Public (This form of acknowledgment for individual grantor(s) only)	(Grantor)
	© lowa State Bar Association This Printing Colober, 1997	BOOK 5 1 101 WARRANTY DEED Revised September, 1986

(A)

Parcel A

An irregular parcel located in part of Government Lot 8, West One Half of Lot 7 and the West One Half of the Northwest Quarter of the Southeast Quarter all in Section 2, in T78N, R22W of the Fifth P.M., Polk County, Iowa (as recorded in Book 5273, Page 378), and more particularly described as follows:

. Commencing at the East Quarter corner of Section 2, T78N, R22W:

Thence North 00°26'16" East for a distance of 1318.87 feet along the East line of Government Lot 7 within

Thence South 89°35'03" West a distance of 1307.64 feet along the North line of Government Lot 7 within said Section 2 to the point of beginning;

Thence South 00°49'36" West a distance of 1309.54 feet;

Thence South 89°59'51" West for a distance of 658.21 feet along the South line of Government Lot 7 within

Thence South 00°41'55" West for a distance of 253.48

Thence South 89°59'56" West for a distance of 84.33

Thence North 23°45'52" West for a distance of 1569.25

Thence South 89°54'05" West for a distance of 187.15

Thence North 5°42'06" West for a distance of 135.96

Thence North 89°47'14" East for a distance of 283.72 feet to the Northwest corner of Government Lot 7

Thence South 89°35'37" East for a distance of 1313.87 feet along the North line of Government Lot 7 within said Section 2 to the point of beginning.

Together with and subject to covenants, restrictions of record. Said property contains 36.223 acres more or less. (See Exhibit A-1 for a survey plat of this

15610506

GI REFERY CERTIFY THAT THIS SURVEY WAS PREPARED BY HE OR UNDER MY DIRECT PRESCRIAL SUPERVISION AND THAT I AM A DULY REGISTERED LAND SURVEYOR UNDER THE LAWS IN THE STATE OF LOWA.

JOHN H. PANDE S'EES, P.E. & C.S.

NOTES TO THE THE PROPERTY OF T

BDOX 5119 PAGE 814

SHIVE HATTERY ENGINEERS

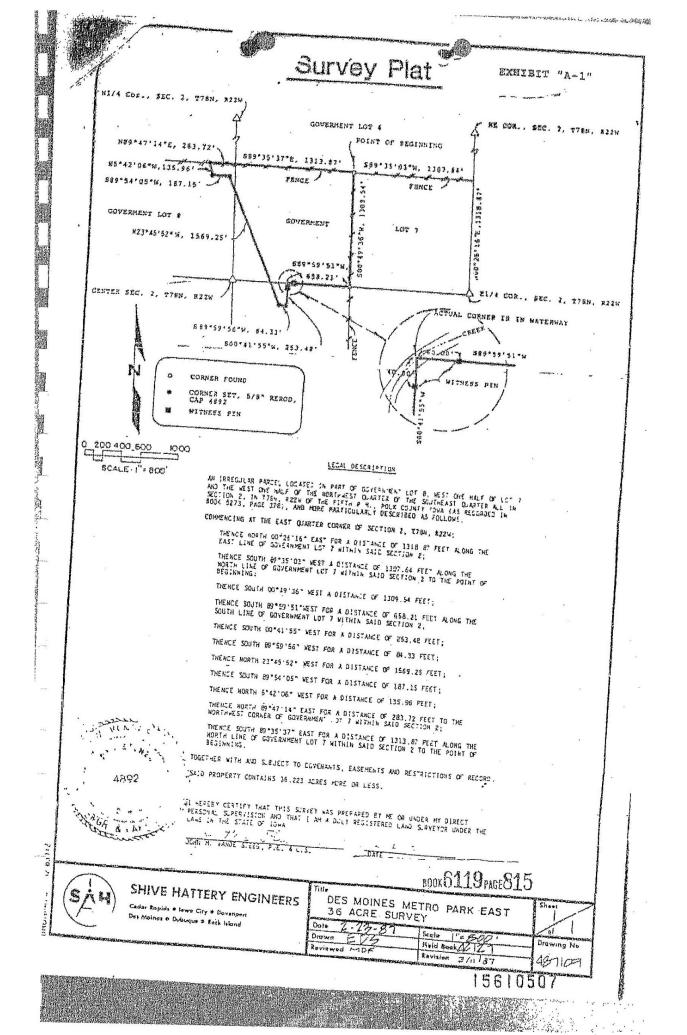
Cadar Rapids & Iowa City & Davenpor er & Dubuque & Back Island

DES MOINES METRO PARK EAST 36 ACRE SURVEY Days

Scale 1"c Field Book 4

12710

15610



Parcel B

Carres 3.85

An irregular parcel located in part of Government Lot 7 and the West One Half of the Northwest Quarter of the Southeast Quarter all in Section 2, in T78N, R22W of the Fifth P.M., Polk County, Iowa (as recorded in Book 5273, Page 378), and more particularly described as follows:

Commencing at the Center Section 2, T78N, R22W:

Thence North 00°55'59" East for a distance of 1005.83 feet slong the West line of Government Lot 7 within

Thence South 23°45'52" East a distance of 1375.78 feet;

Thence North 89°59'56" East for a distance of 84.33

Thence South 00°41'55" West for a distance of 1067.04

Thence South 89°59'56" West for a distance of 659.47 feet along the South line of the Northwest Quarter of the Southeast Quarter of said Section 2;

Thence North 00°45'11" East for a distance of 1320.51 feet along the West line of the Southeast Quarter of said Section 2 to the Point of Beginning.

Together with and subject to covenants, easements and restrictions of record. Said property contains 24.447 acres more or less. (See Exhibit "A-2" for a survey plat of this

15610508

I MEREBY CEPTIFY THAT THIS SURVEY WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SURENISION AND THAT I AM A DULY REGISTERED LAND ELPYETOR UNDER THE LOAD IN THE STATE OF TOWAR.

XIIN H. VANDE STEEG, P.E. A C.S.

DATE

BOOK 5119 PAGE 816



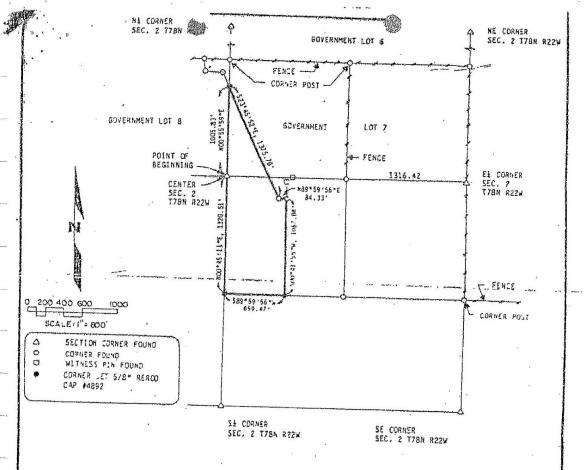
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SHIVE HATTERY ENGINEERS

Cadar Rapids & Iswa City & Davenpers Des Morras & Dubuque & Rock Island

7111 a	total aproduced in 1920 have been a few friends and an analysis and an analysis and	Name of the same o
DES MOINES	METRO PARK EAST	Shari
Date 3/12/27	AND THE THE PART OF THE PART AND ADDRESS OF THE PART O	1
Drawn DB	Scale AS NOTED	Drawing No
Kaviewed MIK	Hard Book WUICT	487109



LEGAL DESCRIPTION

AN TRREGULAR PARCE, LOCATED, IN PART OF GOVERNMENT LOT 7 AND THE WEST ONE MALE OF THE NORTHEEST QUARTER OF THE SOUTHEAST QUARTER ALL IN SECTION 2. IN 1724, RZZW OF THE FIFTH P.M., POLK COUNTY IOWA (AS ASCORDED IN BOTY 5.71, PAGE 378), MIO WORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE CENTER SECTION 2, TTAK, AZZN:

THENCE NORTH 00"55"59" EAST FOR A DISTANCE OF 1005.83 FEET A ING THE MEST LINE OF GOVERNMEN" LOT F WITHIN SAID SECTION 2;

THENCE SOUTH 23"45"52" EAST A DISTANCE OF 1375.78 FEET;

THENCE MORTH 89*59'56" EAST FOR A DISTANCE OF 84.33 FEET:

THENCE SOUTH OG*41'55" WEST FOR A DISTANCE OF 1067.04 FEET;

THENCE SOUTH 29"59"56" NEST FOR A DISTANCE OF 659.47 FEET A DNG THE SOUTH LINE OF THE MORTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SAED SECTION Z_{\pm}

THEMSE MORTH CO-45-11" EAST FOR A DISTANCE OF 1320.51 FEET ALONG THE MEST LINE OF THE SOUTHEAST QUARTER OF SAID SECTION 2 TO THE POINT OF BEGINNING.

TOGETHER WITH AND SUBJECT TO COVERANTS, EASEMENTS AND RESTRICTIONS OF RECOPD.
SALD PROPERTY CONTRINS 24,447 ACRES MORE OF LESS.

I HEREBY CEPTIFY THAT THIS SURVEY WAS PREPARED BY ME OR UNDER MY DIRECT REGISTERED LAND SURVEY AND THAT I AM A DULY REGISTERED LAND SURVEY A MORE THE LANS IN THE STATE OF TOMA.

JOHN M. VANDE STEES, P.E. & L.S.

DATE



SHIVE HATTERY ENGINEERS

Cadar Stoods + lewa City + Davencert Des Maines + Dubuque + Kock Island

4 Tilla	Pathirtenia y India Chamican (Chamican Chamican	
	ETRO PARK EAST	Sheet
Date 3/12/87	Scale AS NOTED	1
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Raviewed MIT	Ravision	487109-0

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15610509

THE IDWA STATE SAR ASSOCIATION		FOR THE	LEGAL EFFECT OF THE USE FORM, CONSULT YOUR LAWYER	
THE IDWA STATE BAR ASSOCIATION DIRECTION No. 101		OF THES	FORM, CONSULT YOUR LAWYER	19
	FILED POLK C	11 P 2:378	NST # 00950 RECORDING FEE 4 AUDITOR FEE 5.	06
4			SPACE ABOVE THIS I	INE
	WARRANTY DEED	1		
For the consideration of Dollar(s) and other valuable considerations husband and wife	One (\$1.00) ion, Ralph Dugene Buckir	gham and Adrien	ne Buckingham.	
do hereby Convey toDes_Moines	Metropolitan Area Soli	d Waste Agency		
the following described real estate in	Polk C	ounty, lowa:		
Sec. 1, thence 58 of Covernment Lot SOO*59'W, 149.4 f	and 6 (see ept the East 12), 0°00° L., along the West 11/20°00° L., along the West 11/20°00° L., along the West 11/20°00° L. and along the 124.0 feet, to the Foint Of Set, themes S 0°00° L. good to the Land 11/20° L. and 11/20	the moth line .1; theorem 9.9 ft. to the 0'58'E, 171.1 ft. g, containing ling read right REAL EST TAKE YAGE [MUMIN] STAND 9	ATE TRANSPER 5 5 3 7 5 2 0 1 1 19 9 9 1 thirtee, Recognity POLK GOUNTY	
the in fee simple; that they have g is Free and Clear of all Liens an Warrant and Defend the real estate of the undersigned hereby reliquistic Words and phrases herein, inclumber, and as masculine or femi	pod and lawfut authority to sel d Encumbrances except as me e against the lawful claims of a hesall rights of dower, homester uding acknowledgement hereo	I and convey the rea hay be above stated; all persons except as ad and distributive sha d, shall be construed	I estate; that the real estate, and grantors Covenant I may be above stated, Eac are in and to the real estate.	e lo th
STATE OF 111inois	DATE	D: November	10, 1992	_
Lake On this _10thday of Noven 19_92 before me, the undersig in and for said State, personally a Ralph Eugene Buckinsham Buckinsham, husband and	ned, a Notary Public ppeared Ralp and Admense	Ligh Engare Stockin	Surface (Granto)r)
to me known to be the identical pe		Malau Outle Lenne Buckingham		οr)
who executed the foregoing instri ledged that they executed the san			this day of	417
Antrice & B	9,48	भद्राच्या व्याप्तान	Tom According to	or)
Patricia L. Blight	Alotary Public		Notes	1
(This form of acknowledgement for individ	PATRICIA L. B	EAL * }	6833 PAGE 402 Granto	or) 4
	KOTARY PUBLIC, STATE O	בותונוס ל פונותונים ל	()OつううがGEHOC	4
CThe fows State Say Association The Profess April 1992	MY COMMISSION EXPIRE	5 12/3/85	101 WARRANTY DE	ED

(5)

IONA STATE BAR ASSOCIATION Official Form No. 106		FOR THE LEGAL EFFECT OF THE USE OF THIS FORM, CONSULT YOUR LAWYER
NG BRICK GENTRY, BOWERS, SWARTZ, STOLIZE, SCHULING & LEVIS, P.C. 550 Seh St. DES MOCHES, NA 50818	FILED FOR RECORD POLK COUNTY, IOWA	INST #
DES MONES, IA 50312	93 AUG 11 P 2: 33 M TIMBLEY J. BRIEN RECORDER	RECORDING FEE 6.00 AUDITOR FEE 5.00
	QUIT CLAIM DEED	SPACE ABOVE THIS LINE FOR RECORDER
For the consideration of	One (1.00) Non, and Adrienne Buckingham,	husband and wife
do hereby Quit Claim toDes_Moir		
all our right, title, interest, estate, claim Polik County, lowa:	and demand in the following describ	ed real estate in
Commencing at the Southea 571.25 feet; thence East beginning all in Lot 5 of Section 1, Township 78 No	United States Survey NOLL	West 230 feet; thence North 557.8 feet to the point of hwest Fractional Quarter of 5th P.M.
220 Camp 193		g.
7		
		Extend commitment books and too to ring this Described a 12 Lings is \$1000 colored by records by records
Exemption #10		Audice
	cluding acknowledgment hereof, shall	mestead and distributive share in and to the real
Dated: August 64, 1993 STATE OF LOWA	Ralph	Eugene Buckingham (Grantor
POLK On this 614 day of A	undersigned, a Notary	nne Buckingham () (Grantov
Public in and for said State, person RAICH EXPERIE BUCKINGERN Ndrienne Buckingham, husband and wife to me known to be the identical pe		(Granto
executed the foregoing instrum that they executed the same as deed.	ent and acknowledged	(Granto
This torm of acknowledgment for individu		(Grante
	PAUL E VOS NY CONUSSION EXPERSE March 22, 1994	50866833 PAGE 401 (Grante

#9367 3 IDWA STATE BAR ASSOCIATION Official Form No. 106 FOR THE LEGAL EFFECT OF THE USE OF THIS FORM, CONSULT YOUR LAWYER FILED FOR RECORD POLK COUNTY, IOWA RETURN TO: VOS LAW FIRM INST # 93 SEP 27 P 2:51日 MITCHELLVILLE, IA 50169 RECORDING FEE iv.iii' J. DRIEN AUDITOR FEE RECORDER SPACE ABOVE THIS LINE FOR RECORDER QUIT CLAIM DEED One (\$1.00) For the consideration of . Ralph Eugene Buckingham and Adrienne Buckingham, Dollar(s) and other valuable consideration, _ husband_and_wife Des Moines Metropolitan Area Solid Waste Agency do hereby Quit Claim to .. all our right, title, interest, estate, claim and demand in the following described real estate in Polk County lows: County, lowa: South 600 feet of the North 2724 feet of the West 412 Feet of Lots 2 and 6 United States Survey of the Northeast Fractional Quarter of Section 1, Township 78 North Range 22 West of the 5th P.M., Polk County, Iowa. 178.22 1-78,93 This deed is given in correction and confirmation of the deed given by Margie M. Buckingham recorded January 22, 1980 but which title was later clouded by an erroneous change of title filed December 1, 1987 at Book 5795 Page 957 and this deed is intended to clarify and confirm the ownership in the above grantee. Revenue Stamps Required: None less than \$500.00 consideration Entered upon transfer books and for taxation this 28 day of the pol 1913 My fee \$ 500 collected Each of the undersigned hereby relinquishes all rights of dower, homestead and distributive share in and to the real estate Words and phrases herein, including acknowledgment hereof, shall be construed as in the singular or plural number, and as masculine or feminine gender, according to the context. Sept 21, 1993 Illinos STATE OF Joke COUNTY, adricane Brickin On this 31 of day of Sept. , 19. 93, before me the undersigned, a Notary Adrienne Buckingham Public in and for said Stale, personally appeared Ralph Eugene Buckingham and Adrienne Buckingham, husband and wife

> many c. meyer _ Notary Public OPPRIAL MAS. NARY C. HEYER MY PRINCE BY MAYER

to me known to be the identical persons named in and who executed the foregoing instrument and acknowledged

that they executed the same as their voluntary act and

deed.

Howa State Bar Association The Profess and 1990

≈ 6862 ± 982

106 QUIT CLAIM DEED

(Grantor)

(Grantor)

(Grantor)

(Grantor)

(Grantor)

(Grantor)

(Grantor)

ATTN: SHERRY 550 39TH ST DES MOINES, IA 50312 RETURN: JIM BRICK, ATTY. ccorded return to: Jeffrey E. Lamson 2008 Financial Center Des Moines, IA 50309 FILED FOR RECORD POLK COUNTY, 1017A 080501 INST # 94 APR -4 PM 12: 28 RECORDING FEE _ TIMOTHY J. BRIEN RECORDER AUDITOR FEE . SPACE ABOVE THIS LINE FOR RECORDER DEGLARATION WARRANTY DEED (CORPORATE GRANTOR) For the consideration of One Dollar (\$1) and other valuable consideration, Nineteen-Sixty Corporation, a corporation organized and existing under the laws of Iowa, does hereby Convey to ______Metro_Waste_Authority ______ the Convey to Metro Waste Authority following described real estate in Polk County, Iowa: 16-0 The Bast 120 acres of Government Lots One (1), Two (2) and Six (6) in Section 1, Township 78 North, Range 22, West of the 5th P.M., Polk County, Iowa except that part which was condemned by the State of Iowa as reflected in Book 6444, Page 388, in the Record Book of the Polk County Recorder's Office. 1-18-22 in the REAL ESTATE TRANSFER TAX BAID \$ 480.40 [XBAPR 0 4 19.94 TIMOTHY J. BRIEN, Recorder
STAMP # POLK COUNTY The Corporation hereby covenants with grantees, and successors in interest, that it holds the real estate by title in fee simple; that it has good and lawful authority to sell and convey the real estate; that the real estate is free and clear of all liens and encumbrances, except as may be above stated; and it covenants to Warrant and Defend the real estate against the lawful claims of all persons, except as may be above stated. Words and phrases herein, including acknowledgment hereof, shall be construed as in the singular or plural number; according to the context. tradium this 4 day could by 1974 hy too \$ 500 collected by reserger Harold F. Albers, President com Parkina

By Harold F. Albers, Secretary

STATE OF FLORIDA.
COUNTY OF <u>Fundlas</u> SS:

On this day of Mark 1994, before me a Notary Public in and for said county, personally appeared Harold F. Albers, to me personally known, who being by me duly sworn did say that that person is President and Secretary of said Nineteen-Sixty Corporation, that (the seal affixed to said instrument is the seal of said or no seal has been procured by the said) corporation and that said instrument was signed and sealed on behalf of the said corporation by authority of its board of directors and the said Harold F. Albers acknowledged the execution of said instrument to be the voluntary act and deed of said corporation by it voluntarily executed.

Photograph of the State of Florida MARY F. CARPENTER

810K 6991 FAGE 824

į T	HE IOWA STATE BAR ASSOCIATION FOR THE USE OF
1	FILED FOR RECORD POLK COUNTY, IOWA
	RETURN TO 96 OCT P 2: 39 SINST #
Printer Printer	epszer Clifford S. Swartz 550 - 39th St., No. 200 Des Moines, IA 50312 515-274-1450 Individual's Name Street Address Crty Phone
デオー	SPACE ABOVE THIS LINE FOR RECORDER WARRANTY DEED
	For the consideration of One and no/100 (\$1.00) Dollar(s) and other valuable consideration, James Donald Freel and Madaline J. Freel, husband and wife,
}	do hereby Convey to Hetro Waste Authority, an Iowa corporation
1	the following described real estate in Polk County, lowa:
	A tract of ground described as beginning at a point 946 feet West and 33 feet North of the Southeast corner of the Southeast 1/4 of the Southwest 1/4 of Section 2, Township 78 North, Range 22, West of the 5th P.M., Polk County, Iowa, thence due North 166 feet, thence West 242 feet, thence South 166 feet, thence East 242 feet to the point of beginning.
i	2-76 22 / FEAL ESTATE TRAH 277
)	TAX PD \$279 1718 TIM SECURIOR 5 CLK 005 0329 0000-000 1:15PH 10411
1	1964 : Sau Canal
	Grantors do Hereby Covenant with grantees, and successors in interest, that grantors hold the real estate by title in fee simple; that they have good and lawful authority to sell and convey the real estate; that the real estate is Free and Clear of all Liens and Encumbrances except as may be above stated; and grantors Covenant to Warrant and Defend the real estate against the lawful claims of all persons except as may be above stated. Each of the undersigned hereby relinquishes all rights of dower, homestead and distributive share in and to the real estate. Words and phrases herein, including acknowledgment hereof, shall be construed as in the singular or plural number, and as masculine or feminine gender, according to the context.
•	STATE OF IOWA Dated: Cat. 11 1996
	On this // day of ocrefier James Donald Freel (Grantor) Public in and for said State, personally appeared James Donald Freel and Madaline J. Freel, husband and wife,
	to me known to be the identical persons named in and who executed the foregoing instrument and acknowledged that they executed the same as their voluntary act and deed. (Grantor)
	Cleffor S. September 19 (Grantor) Notary Public (Grantor) (This form of acknowledgment for individual grantor(s) and s)
± 5	S The love State for Autocounter CALES Technical 3 0 9/94 BK 750 1 PG 905 101 WARRANTY DEED Revised Norumber, 1995

9

: 11-ElOW's STATE BAR ASSOCIATION: 14765	FOR THE LEGAL EMPSOT OF THE USE OF THIS FORM, CONSILT YOUR LAWYER.
FILED FOR RECORD POLYCOUNTY, TOWA POLYCOUNTY	RECORD
97 MAR 14 P 3: 12 \$ 96 DEC 23 1	2:38 9 INST # 044424
TIMOTHY J. BRIEN TIMOTHY J. BRECORDER	BRIER RECORDING FEE 1100 ER AUDITOR FEE 500
PRETURN TO: 550 39th Street Suite 200	Des Moines, IA 50312 515-274-1450 Fhome
Individual's Name Street Address CORRECTED	SPACE ABOVE THIS LINE FOR RECORDER
WARRANTY	
For the consideration of One and no/100 (\$ Dollar(s) and other valuable consideration,	1.00)
O lyle L. Gulling and Marlene J. Gulling.	husband and wife.
O do hereby Convey to	BE A SER
Metro Waste Authority, an Iowa Cor	poration 7 300
the following described real estate in POLX	County, Iowa:
OKOT # 061989 See attached Exhibit "A"	
PRECORDING FEE 16.00	elile
AUDITOR FEE 5.00 INST #	Entered upon bright bold and for booking this bold and for
RECORDING FILE	500 1016 by too of Condended
Ellins)	
1 97 My les the	REAL ESTATE TRAN TOO. 00 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
3 Popular	TIM 500.90 BRIEH RECORDER 5 CLK 003
This Coxrected Warranty Deed is refiled and conthat should have been included in the legal degiven. Correction is underlined in first paragraphs.	cription. No additional consideration
Grantors do Hereby Covenant with grantees, and suc	cessors in interest, that grantors hold the real
estate by title in fee simple; that they have good and law that the real estate is Free and Clear of all Liens and Enci grantors Covenant to Warrant and Defend the real estate a	ful authority to self and convey the real estate; imbrances except as may be above stated; and
grantors covernant to translation between the	gantal trip lawfor Clarita by an polabile encope an
may be above stated. Each of the undersigned hereby of	elinquishes all rights of dower, homestead and
may be above stated. Each of the undersigned hereby r	elinquishes all rights of dower, homestead and hereof, shall be construed as in the singular or
may be above stated. Each of the undersigned hereby redistributive share in and to the real estate. Words and phrases herein, including acknowledgment plural number, and as masculine or feminine gender, accor	elinquishes all rights of dower, homestead and hereof, shall be construed as in the singular or
may be above stated. Each of the undersigned hereby redistributive share in and to the real estate. Words and phrases herein, including acknowledgment plural number, and as masculine or feminine gender, according to the state of the state	hereof, shall be construed as in the singular or sling to the context. Seed: 12-23-96
may be above stated. Each of the undersigned hereby of distributive share in and to the real estate. Words and phrases herein, including acknowledgment plural number, and as masculine or feminine gender, according to the state of the stat	hereof, shall be construed as in the singular or sing to the context.
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may be above stated. Each of the undersigned hereby redistributive share in and to the real estate. Words and phrases herein, including acknowledgment plural number, and as masculine or feminine gender, according to the state of the state	hereof, shall be construed as in the singular or sing to the context. Seed: 12-23-96 L. Gulling (Grantor) Warlene J. Mulling (Grantor)
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may be above stated. Each of the undersigned hereby redistributive share in and to the real estate. Words and phrases herein, including acknowledgment plural number, and as masculine or feminine gender, according acknowledgment plural number, and as masculine or feminine gender, according to the state of the state	elinquishes all rights of dower, homestead and thereof, shall be construed as in the singular or ding to the context. The context of the con
may be above stated. Each of the undersigned hereby of distributive share in and to the real estate. Words and phrases herein, including acknowledgment plural number, and as masculine or feminine gender, according acknowledgment plural number, and as masculine or feminine gender, according to the state of the state	elinquishes all rights of dower, homestead and thereof, shall be construed as in the singular or ding to the context. See: 12-23-96 Carlona Grantor) Grantor) Lene J. Gylling (Grantor) Here J. Gylling (Grantor)

(0)

Exhibit "A"

The East One-Half (E1/2) of the Southwest Quarter (SW1/4) of the Southwest Quarter (SW1/4) and the Southwast Quarter (SE1/4) of the Southwest Quarter (SW1/4) Except the North One Hundred Sixty-six (N 166) feet of the South One Hundred Ninety-nine (S 199) feet of the West Two Hundred Forty-two (W 242) feet of the East One Thousand One Hundred Eighty-eight (E 1.188) feet and Except North Twenty-seven (N 27) feet of the South Sixty (S 60) feet of the East Four Hundred (E 400) feet of the South One-Half (S1/2) of the Southwest Quarter (SW1/4) East of Highway less public highways. Section 2, Township Seventy-eight (78), Range Twenty-two (22), West of the 5th P.M., Polk County Iown; and

A parcel of land in the Southwest Quarter (SW1/4) of Section 2, Township 78 North, Range Twenty-two (22) West of the 5th P.M., Polk County, lowallying on the northeasterly side of part of the following described centerline of Primary Road No. 316, as shown on Right-of-Way Plat Exhibit "A-1" attached hereto which by this reference is made a part hereof.

The centerline of Primary Road No. 316, designated by station points One Hundred (100) feet apart, numbered consecutively from southeast to northwest is described as follows: Beginning at Sta. 277+60.1, a point 692.9 feet east of the Southwest (SW) Corner of said Section Two (2) on the south line of the Southwest Quarter (SW1/4) thereof; thence North Fourteen Degrees (14°) Twenty-nine (29) minutes West, 1439.9 feet to Sta. 292+00.

Said parcel is described as follows: All that part of the West One-Half (W1/2) of the Southwest Quarter (SW1/4) of said Section Two (2) lying easterly of a line beginning at a point 65.5 feet normally distant northeasterly from said centerline on the east line of said West One-Half (W1/2) of the Southwest Quarter (SW1/4) of the Southwest Quarter (SW1/4); thence northwesterly parallel to said centerline to a point normal to Sta. 287+50; thence to a point One Hundred (100) feet normally distant northeasterly from Sta. 289+00; thence to a point Sixty-five (65) feet normally distant northeasterly from said centerline on the north line of said West One-Half (W1/2) of the Southwest Quarter (SW1/4) of the Southwest Quarter (SW1/4).

2.78.22.

BK7592PG400

	EXHIBIT A-1	
\$\$51.7# <u>\</u>	IOWA STATE HIGHWAY COMMISSION RIGHT OF WAY PLAT COUNTY POLK STATE CONTROL NO. PROJECT NO. F-105(& FN-3/5-1(2)-21-77 PARCEL NO. SECTION Z TOWNSHIP 79 N PARCEL NO. ROW-FEE ACQUIRED FROM MARY MURROW NEVEN SOLD TO: Lyle L. Gulling and Marlene Joy Gulling as joint tenant full rights of survivorship and not as terants in comments.	nts with
AND AND THE LOCAL DESIGNATION OF THE PROPERTY OF LANDSON, THE PROPERTY OF THE	THE OF RECORDS	
	SEC. 2-778N-R22W 5	
	SW Corner Sauth Care SW A SEC 2. T7881- FZZ W	

BX7592PG401

BK7506PS+0+

parties of the second of the second	Salar and the sa
UWA STATE HAR ASSOCIATION 14765	FOR THE LEGAL EFFECT OF THE USE OF COMMENT YOUR LAWYER
5:113/114	TINED FOR RECORD OL COUNTY HOWA
214	96 DEC 27 P 1: 10 3 INST #
RETURN TO:	RECORDER AUDITOR FEE 5.00
Preparer Information <u>Clifford S. Swartz</u> 550 ~ 39: Individual's Name St	th St. Des Moines, IA 50312. 515-274-1450 ; rest Address
	PRESCRIPTION SPACE ABOVE THIS LINE FOR RECORDER
Donards) and other valuable consideration,	10/100 (51.00)
lohn H. Butzlaff, a single p	erson, ST CT
do hereby Convey to Metro Waste Authority, an lowa	corporation.
the following described real estate inp	olk County, lowa: F 27 WAD
See attached Exhibit "A".	R. bile
inst # _	059668
RECORDIN AUDITOR	
	737) FEGTE No.
· 47 %; t, ricoller	2 December REAL ESTATE TRAN 779 20
· · · · · · · · · · · · · · · · · · ·	PELX CO 1 B \$279.20 III
This Corrected Warranty Deed is refiled that should have been included in the le	BRIEH. RECORDER 7 CLK 607 10606, DE00-0010 and corrected to slow an additional description Real description. No additional consideration
Grantors do Hereby Covenant with grantees	and successors in interest, that grantors hold the real and lawful authority to sell and convey the real estate;
grantors Covenant to Warrant and Defend the real may be above stated. Each of the undersigned h distributive share in and to the real estate.	and Encumbrances except as may be above stated; and estate against the lawful claims of all persons except as ereby relinquishes all rights of dower, homestead and
plural number, and as masculine or feminine gender	digment hereof, shall be construed as in the singular or r, according to the context. Dated: 12-23-96
STATE OF <u>IOWA</u> ,	Dated: 12-23-96
POLK COUNTY. On this 23 day of the beautiful of the country. 19 96 before me, the undersigned, a Notal Public in and for said State, personally appears	V John B Butalass
John H. Butzlaff, a single person,	
to me known to be the identical persons named is and who executed the foregoing instrument an acknowledged that they executed the same as the voluntary act and deed. A	
Coffee Scarty	(Grantor)
Notary Publi (This form of acknowledgment for individual granter(s) only)	(Grantor)

© The love State Ber Association CALPS Release 3.0 8/94 既7586P\$100 間7547P8306

Havined Hovember, 1935



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- DWA STATE RAR ASSOCIATION 14765		FOR THE LEGAL EFFECT	OF THE USE OF
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219.30 [CG T (1) ETCH	· • · · · · ·	10 9 INST #0443	10
RETURN TO:	TIMG/TH A J. BR RECORDER	AUDITOR FEE	<u>x</u>
reparer formation Clifford S. Swartz Individual's Name	550 ~ 39th St. D	es Noines, IA 50312 515-27	4 <u>–1450</u> .
	CORRESTRATO DEED	SPACE ABOVE YM FOR RECORD	IS LINE ER
For the consideration of Dollar(s) and other valuable considerati	ne and no/100 (51.00)		·
John H. Butzlaff, a	Sinole nercon	→ 19	-o
			운출
do hereby Convey to			<u> </u>
Metro Waste Authority,	an lowa corporation.	25 A	무중 .
		(1) ps	<u>₹</u>
the following described real estate in	Polk	County, lowa: 77 27	CORD
See attached Exhibi	та ^н . о . о		7.
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	mornino	REAL ESTATE TRAH	279
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This Corrected Warranty Deed is that should have been included i given.	n-a acourthere	". one addictoral consider:	ation
Grantors do Hereby Covenant with	represent and sussesses.		
that the real estate is Free and Clear of grantors Covenant to Warrant and Defendant be above stated. Each of the under distributive share in and to the real estate.	all Liens and Encumbrances if the real estate against the resigned hereby relinquishes	ty to sell and convey the real est except as may be above stated; lawful claims of all persons except all rights of dower, homestead;	ate; and t as and
Words and phrases herein, including plural number, and as masculine or femini	arknowledomone bornet	all be construed as in the singular context.	or
STATE OF		-23-96	
POLK COUR On this 23 day of idea. It	ΠY,	Bathery	٠
19 96 , before me, the undersigned public in and for said State, personally ohn H. Butzlaff, a single person	anneared U	zlaff Grant	or)
	 -		1 2
o me known to be the identical persons and who executed the foregoing instru	ment and	Grand 1	(1)
cknowledged that they executed the san	ne as their		_£ ∤
A STATE OF THE STA		(Granto	or)
Chypn Acuty			
No.	ary Public		
his form of acknowledgment for individual assessment		(Granto	ır)

D The lowe State Bar Association

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101 WARRANTY DEED Revised Roventier, 1205

THE HEWA STATE &	14765			FOR THE	E LEGAL EFFECT OF THE USE FORM, CONSERT YOUR LAW
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	(a)	97 FEB 28	P 3: 01.9	RECORDING F	
		TIMOTHY RECO	J. BRIEH RDER	AUDITOR FEE	
reperer EE	TIENTO: Swartz individual's Name	550 39th St.	., No. 200 I	es Hoines, IA	50312 274-1450 Phone
		WARRAN	ITY DEED	SP.	ACE ABOVE THIS LINE FOR RECORDER
Dollar(s) an	consideration of One dother valuable consider k. F. Sloan and Bount		· · · · · · · · · · · · · · · · · · ·	fe,	
do hereby (Convey to O Waste Authority				
the followin	g described real estate in	Polk		County, lowa:	
Polk C South i	authwest 1/4 of the Souther ounty, fown, less 0.75 as i/4 corner; thence North ence South 60 feet, thence oming, containing 0.55 ac	cres, more or less 27 feet; thence E East 321 feet, the	s for a road; exce last 280 feet; the moe South 7 feet:	pt beginning 33 force North 40 feet the thence West 811 force for the thence West 811 force for the thence was a feet to be the thence was a feet force for the thence was a feet force force force for the thence was a feet force force force for the thence was a feet force forc	et North of the hence East 210 bet to the point hways.
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7 1			; ; ;	EAL ESTATE TRAN OLK CO AX PD IN RIEH RECORDER 2 675 0000-000	\$1621 CLK 002 1:4888
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may be abou	renant to Warrant and De we stated. Each of the t share in and to the real es	undersigned herel	ite against the la by relinquishes a	Il rights of dower,	homostead and
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Words an plural number STATE OF PO On this 19 97 Public in an Frank	IT, and as masculine or fe TOWA OLK 28th day of Feb before me, the undersig d for said State, perso F. Sloan and Bonni.	ing acknowledgm minine gender, ac ss: COUNTY, ruary gned, a Notary	cording to the co	Cleary 28, 1997	(Grantor)
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HE 10WA STATE BAR ASSOCIATION 14765		FOR THE LEGAL EFFECT OF THE USE OF THE USE OF THE CONSULT YOUR LAWYER
	20.70	NAME OF STREET, STORY PARTY
•	FILED FOR RECORD FOLK COUNTY, IOWA	00000
	97 HAR 26 P 1:57 =	INST # 064592
ah	TIMOTRY J. BRIEN RECORDER	RECORDING FEE 6:00 AUDITOR FEE 5:00
ormation Clafford S. Swartz individual's Name	550 39th, No. 200 · Street Address	DSM. IA 50312 515-274-1450 Phone
	WARRANTY DEED	SPACE ABOVE THIS LINE FOR RECORDER
For the consideration ofOr Dollar(s) and other valuable consider Harry Edward Gaass, si	ration,	
do hereby Convey to		
The state of the s	an Iowa corporation.	
the following described real estate in		
the following described real estate in	Polk	County, lowa:
P.R., in Polk County,	Iowa, subject to legally	REAL ESTATE TRAM POLK CO TAX PD TIME RECURDER 2 06599 0000-000 11:22PH 34 Established highways. Established high
•		1159.20
estate by title in fee simple; that the rhat the real estate is Free and Clear grantors Covenant to Warrant and De may be above stated. Each of the distributive share in and to the real as	ith grantees, and successors by have good and lawful author of all Liens and Encumbrance efend the real estate against thundersigned hereby relinquishustate, ing acknowledgment hereof, se	in interest, that grantors hold the real prity to sell and convey the real estate; as except as may be above stated; and e lawful claims of all persons except as eas all rights of dower, homestead and shall be construed as in the singular pr
STATE OF ZOW A	, Dated:	3-26-97
On this day of horse 19 97 , before me, the undersign Public in and for said State, perso Harry Edward Gaass, sin	gned, a Notary Harry Edwi	es Edevard Massa etg Gaass (Grantor)
		(Grantor)
to me known to be the identical pen and who executed the foregoing in acknowledged that they executed the	nstrument_and	
Clipped Sura	Z	(Grantor)
This form of acknowledgment for individual gra	Notary Public	(Grantor)
e love State Be Association UKS Palesses 3.0 6/34	77	101 WARRANTY DEED 3



THE IOWA STATE BAR ASSOCIATION 14765		FOR THE LEGAL EFFECT OF TO	HÉ LISE OF
		THIS FORM, CONSULT YOU	- Number
* - ·	FILED FOR RECORD FORK CONTEXT, 10WA	064592	
	97 HAR 25 P 1:57 9	RECORDING FEE 6:00	Σ
A.A.	TIMOTHY J. BRIEN RECORDER	AUDITOR FEE	2
Preparet Clifford S. Swartz Individual's Name	550 39th, No. 200 Street Address	DSM. IA 50312 515-274-14 City Phone	50
	WARRANTY DEED	SPACE ABOVE THIS FOR RECORDER	LINE
For the consideration of Dollar(s) and other valuable consider			
<u> </u>			_
do hereby Convey to Metro Waste Authority,	an Iowa corporation,		
the following described real estate in	lPolk	County, lows:	_
. Quarter all in Section	ates Survey and the Nort 1, Township 78 North, R Iowa, subject to legally	ange 22. West of the 5th	
,		Entered upon transfer boo booston this27_ day o	€7:10°. • ¢ ² /
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1-10-1.97)	-	hiller	K U
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		7659 0000 000	2PH 3/26/9
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÷		1159.20	1
Grantors do Hereby Covenant wi	th neantess and successors i	(\)' n interest, that grantors hold the re	. / !
estate by title in fee simple; that the that the real estate is Free and Clear grantors Covenant to Warrant and Demay be above stated. Each of the distributive share in and to the real estate.	ay have good and lawful author of all Liens and Encumbrance efend the real estate against the undersigned hareby relinquishe state.	rity to sell and convey the real estates sexcept as may be above stated; are lawful claims of all persons except is all rights of dower, homestead are all the construed as in the signals.	e; nd es nd
STATE OF TOWA	, Dated:	3-26-97	
On this 2/ day of 2/ day of 19 97 , before me, the undersign Public in and for said State, person Harry Edvard Gaass, sin	oned, a Notary Harry Edwa onally appeared	ey Salevard Massing Granto	<u>ا</u>
		(Granto	<u> </u>
to me known to be the identical per and who executed the foregoing is acknowledged that they executed the	nstrument_and		, , , , , , , , , , , , , , , , , , ,
Voluntary act and deed.	into	(Grantoi	
(This form of acknowledgment for individual gra	Notary Public	[Grantor	ī



4	NE IOWA STATE BAR ASSOCIATION 14765		FOR THE L	EGAL EFFECT OF THE USE OF
Ť	,		THE FOR	M, CONSULT YOUR LAWYER
אוציי קשמטטיי יאבשונ צוריי אינקה	DECLERATION INST #	65220 EE <u>6.00</u> 10.00	FILED FOR R POLK COUNTY 97 HAR 28 P	C 10WA 2: 10 & BRIEN
	RETURN TO:	, No. 200	RECORDE 5. DSM, IA 50312	R 15-274-1450
-	Individual's Name Str	ent Address	City	Phone ABOVE THIS LINE
ليلامه ما الكالية		335972 ANTY DEED	- F	OR REGORDER
The state of the s	For the consideration of One and no/100 Dollar(s) and other valuable consideration, Steven D. Queck and Dara J. Queck		rife,	
1	do hereby Convey to			
	Metro Waste Authority, an Iowa con	rporation,		
215 E				78-28
ŗ	the following described real estate in	Polk	County, lowa:	3.97
entre de mandre de la companya de l	targhor 14. Z or recon	thence S 90°00'W tion 1, 1286.57 fee the centerline o tenterline o ten	Commencing at the So, along the South line of a to the point of beginn f County Road; thence feet; thence N 83°50'51' a N 86°54'25" W, along 0"E, 676.73 feet; thence the point of beginn EAL ENALE 1841	outh fthe ing; e N "W, the
The state of the s	Grantors do Hereby Covenant with grantees, estate by title in fee simple; that they have good that the real estate is Free and Clear of all Liens a grantors Covenant to Warrant and Defend the real may be above stated. Each of the undersigned hidistributive share in and to the real estate. Words and phrases herein, including acknowled plural number, and as masculine or feminine gender	and lawful author and Encumbrances estate against the tereby relinquishes doment hereof, sh	ity to sell and convey to except as may be about lawful claims of all pen- all rights of dower, but all be construed as in	the real estate; ve stated; and sons except as tomestead and the singular or
,	STATE OF 10WA	os: Dated:	March 28, 1997	
Te . O'TH'AMBRITY	On this 28 day of Marc H 19 97, before me, the undersigned, a Notar Public in and for said State, personally appeare		Queck	(Grantor) (Grantor) (Grantor)
2	Steven D. Queck and Dara J. Queck	Dara'J. Que	J Uluc	(Grantor)
	to me known to be the identical persons named in and who executed the foregoing instrument an acknowledged that they executed the same as the	nd	(4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
· :	Voluntary act and deed.	18		(Grantor)
	Explais 1-15-99 Notary Publi	0	:	(Grantor)
	{This form of acknowledgment for individual grantor(s) only}		1	
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POLK CHINTY, II	n o IN		06711	9
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TIMOTITY J. BRI RECORDER RETURN TÖ:	EH AL	IDITOR FE	I	00
rest Clifford S. Swartz 550 39th 5	t., No. 200 De	s Moines,	IA 50312	515-274-
- Elik	NTY DEED		SPACE ABO FOR R	OVE THIS LINE ECORDER
For the consideration of <u>One and no/100</u> Dollar(s) and other valuable consideration, Michael W. Turner and Karole L. Tur		d wife,		
	8075 - 10065			
do hereby Convey to Metro Waste Authority, an Iowa corpora	tion.			
			·	
he following described real estate in Polk		County, low	·	
See attached Exhibit	"A".			
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			by recorder,	e \$ <u>~?zv)</u> codec
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EXHIBIT "A"

1.78/

8K7606PG479

017206 INST #

RECORDING FEE _ AUDITOR FEE

FILED FOR RECORD POLK COUNTY, IOWA 97 AUG 29 P 4: 23 9

RETURN TO:

AND CONTRACTOR OF THE PROPERTY OF THE PROPERTY

Prepared by: CLIFFORD S. SWARTZ, Attorney at Law. 550 - 39th Street, Suite 200

TIFIOTH I J. BRIEN RECORDER

DECLARATION

WARRANTY DEED

For the consideration of One and no/100 (\$1.00) Dollar and other valuable consideration, Blanche E. Gulling, a single individual , does hereby convey to Matro Waste Authority, an lowa corporation, the following described real estate in Polk County, lowa:

The North H alf of the Southwest Quarter (N1/2SW1/4) of Section 1. Township 78 North, Range 22 West of the 5th P.M., Polk County, Iowa

Grantors do Hereby Covenant with grantees, and successors in interest, that grantors hold the real estate by title in fee simple; that they have good and lawful authority to sell and convey the real estate; that the real estate is Free and Clear of all Liens and Encumbrances except as may be above stated; and granters Covenant to Warrant and Defend the real estate against the lawful claims of all persons except as may be above stated. Each of the undersigned hereby relinquishes all rights of dower, homestead and distributive share in and to the real estate.

Words and phrases herein, including acknowledgment hereof, shall be construed as in the singular or plural number, and as masculine, feminine or neuter gender, according to the context.

REAL ESTATE TRAIL POLK CO TAX PD TEN TO BRIEH... RECORDER 8

511,20 668

Dated: \$ 29-9

SUCCESEL A MAURO

STATE OF IOWA, POLK COUNTY, ss:

On this 25th day of Surgust 1997, before me the undersigned, a Notary Public in and for said State, personally appeared Blanche E. Guilling, to me known to be the identical person named in and who executed the foregoing instrument and acknowledged that she executed the same as her voluntary act and deed.

BK7713PG827

FILED FOR RECORD

97 APR 19 P 1:52 =

TIMOTHY J.BRIEN RECORDER

INST # -RECORDING FEE AUDITOR FEE

Return to: Clifford S. Swartz, 550 Thirty-Ninth Street, Soile 300, Des Mülaes, IA 50312

SPACE ABOVE THIS LINE FOR RECORDER

DECLARATION

WARRANTY DEED

For the consideration of ten Dollar(s) and other valuable consideration, HAWS, Inc., an Iowa Corporation does hereby Convey to METRO WASTE AUTHORITY the following described real estate in Polk County, lowa:

The Southeast ¼ of the Southeast ¼ (except the South 264 feet of the East 330 feet) and the East 1/2 of the Northwest 1/4 of the Southeast 1/4 in Section 2, Township 7/8 North, Range 22 West of the 5th P.M., Polk County, Iowa, less roads

Grantors do Hereby Covenant with grantces, and successors in interest, that grantors hold the real estate by title in fee simple; that they have good and lawful authority to sell and convey the real estate; that the real estate is Free and Clear of all Liens and Encumbrances except as may be above stated; and may be above stated. Each of the undersigned hereby relinquishes all rights of dower, homestead and distributive share in and to the real estate.

Words and phrases herein, including acknowledgment hereof, shall be construed as in the singular or plural number, and as masculine or feminine gender, according to the context.

Dated: April /0, 1997

STATE OF IOWA

REAL ESTATE TRAN
POLK CO
TEX PO

\$536.80 \$586.80 CLK 002 12:52PH 4/10/97 HAWS, Inc

Frank F. Sloan, President

Bonnie L. Sloan, Vice President

MECHEL A MALRO

COUNTY OF POLK)

On this 10 day of April, 1997, before me, the undersigned, a Notary Public in and for the State of Iowa personally appeared Frank F. Sloan and Bonnie L. Sloan, to me personally known, who being by me duly sworn, did say that he is president and she is vice president of HAWS, Inc., an lowa corporation, the cooperation executing the within and foregoing instrument, that no seal has been procured by the corporation; that the instrument was signed on behalf of the corporation by authority of its Board of Directors: and that Frank F. Sloan and Bonnie L. Sloan as officers acknowledged the execution of the foregoing instrument to be the voluntary act and deed of the corporation, by it and by him(her) voluntarily executed.

Notary Public in and for said State BN 7609P6503

DECLARATION FILED

FILEB FOR RECORD POLK COUNTY, IOWA

DO HAR 31 P 3 03.0 TIMOTHY J. BRIEN RECORDER INST# 074883
RECORDING FEE (6.00)
AUDITOR FEE 5.00

RETURN TO:

Prepared By:

Serbert 3. Selby SELBY, UPDEGRAFF, SMITH 1 HOLWERDA Attorneys at Law 101 First Avenue West Newton, Iowa 50208 Telephone: 515-792-4141 Fax Number: 515-792-4550 199.30

Please Send Tax Statements To:

Metre Waste Authority 521 East Locust Street Des Moines, Iowa 50309 Entered upon transfer tooks and for transfer this 3 day of 0.00. Wy tex \$ 5.00 orbited by recorder.

MICHAEL A. MAURO
Autilior

REAL ESTATE TRAM
POLK CO
TAX PO
TAX PO
TAX
POLY

\$799 10 799.20 CLK 004 2:48% 3/31/00

WARRANTY DEED

For the consideration of Five Hundred Thousand and no/100 (\$500,000.00) Dollars and other valuable consideration, Jerry Ray Kane and Marjorie Louise Bass, his wife, do hereby convey to

METRO WASTE AUTHORITY, AN IOWA CORPORATION,

the following described real estate in Polk County, Iowa:

The West Half of Lot 7 of the United States Survey of the Northeast Fractional Quarter; Lot 8 of the United States Survey of the Northwest Quarter;

The Northeast Quarter of the Southwest Quarter;

The West Half of the Northwest Quarter of the Southeast Quarter;

EXCEPT that portion of the described property conveyed to the Iowa State Highway Commission described in the Warranty Deed dated March 27, 1958, filed April 7, 1958, in Book 3028 at Page 603, Polk County Recorder, being 2 acres, more or less;

EXCEPT that portion of the described property commencing at the West Quarter corner of Section 2, Township 78 North, Range 22 West of the 5th P.M., Polk County, Iowa (said corner also being the Southwest Corner of Government Lot 8 of the Fractional Northwest Quarter of said Section 2); thence North 0° 00' East, along the West line of said Section 2, 499.28 feet, thence South 65° 00' East, 61.90 feet to the East right-of-way line of Iowa Highway 316, and the point of beginning; thence North 0° 03' 57" East along said East right-of-way line, 93.78 feet, thence North 1° 30' 28" West along said East

R23 13.00 BK8461PG08



right-of-way line, 182.07 feet, thence North 3° 38' 42" East along said East right-of-way line, 298.85 feet; thence North 90° 00" East, 173.59 feet, thence South 5° 00' West, 490.70 feet South 55° 00' West, 91.44 feet, thence South 55° 00' West, 77.50 feet, to the point of beginning;

All of the above now being in and forming a part of Government Lot 8 of the fractional Northwest Quarter of Section 2, Township 78 North, Range 22 West of the 5th P.M., Polk County, Iowa;

EXCEPT an irregular parcel located in part of Government Lot 8, the West One-half of Lot 7 and the West One-Half of the Northwest Quarter of the Southeast Quarter, all in Section 2, Township 78 North, Range 22 West of the 5th P.M., Polk County, Iowa, (as recorded in Book 5273, Page 378, and more particularly described as follows: Commencing at the East Quarter corner of Section 2, Township 78 North, Range 22 West of the 5th P.M., Polk County, Iowa, thence North 00° 26' 16" East for a distance of 1,318.87 feet along the East line of Government Lot 7 within said Section 2; thence South 89° 35' 03" West a distance of 1,307.64 feet along the North line of Government Lot 7 within said Section 2 to the point of beginning; thence South 00° 49' 36" West a distance of 1,309.54 feet, thence South 89° 59' 51" West for a distance of 658.21 feet along the South line of Government Lot 7 within said Section 2, thence South 00° 41' 55" West for a distance of 253.48 feet, thence South 89° 59' 56" West for a distance of 84.33 feet, thence North 23° 45' 52" West for a distance of 1,569.25 feet, thence South 89° 54' 05" West for a distance of 187.15 feet, thence North 5° 42' 06" West for a distance of 135.96 feet, thence North 89° 47' 14" East for a distance of 283.72 feet to the Northwest Corner of Government Lot 7 within said Section 2, thence South 89° 35' 37" East for a distance of 1,313.87 feet along the North line of Government Lot 7 within said Section 2 to the point of beginning; and

EXCEPT an irregular parcel located in part of Government Lot 7 and the West One-Half of the Northwest Quarter of the Southeast Quarter;

All in Section 2, Township 78 North, Range 22 West of the 5th P.M., Polk County, Iowa, (as recorded in Book 5273, Page 378, and more particularly described as follows:

Commencing at the center of Section 2, Township 78 North, Range 22 West of the 5th P.M., Polk County, Iowa, thence North 00° 55' 59" East for a distance of 1,005.83 feet along the West line of Government Lot 7 within said Section 2, thence South 23° 45' 52" East a distance of 1,375.78 feet, thence North 89° 59' 56" East for a distance of 84.33 feet, thence South 00° 41' 55" West for a distance of 1,067.04 feet, thence South 89° 59' 56" West for a distance of 659.47 feet along the South line

0k846 PG090

of the Northwest Quarter of the Southeast Quarter of said Section 2, thence North 00° 45' 11" East for a distance of 1,320.51 feet along the West line of the Southeast Quarter of said Section 2 to the point of beginning;

Subject to easements and restrictions of record and in use or both of such;

Grantors do hereby covenant with Grantee, and successors in interest, that Grantors hold the real estate by title in fee simple; that they have good and lawful authority to sell and convey the real estate; that the real estate is free and clear of all liens and encumbrances except as may be above stated; and Grantors covenant to warrant and defend the real estate against the lawful claims of all persons except as may be above stated.

Each of the undersigned hereby relinquishes all rights of dower, homestead and distributive share in and to the real estate.

Dated this 3rd day of March , 2000.

(Jerry Ray Kane)

(Marjorie Louise Bass)

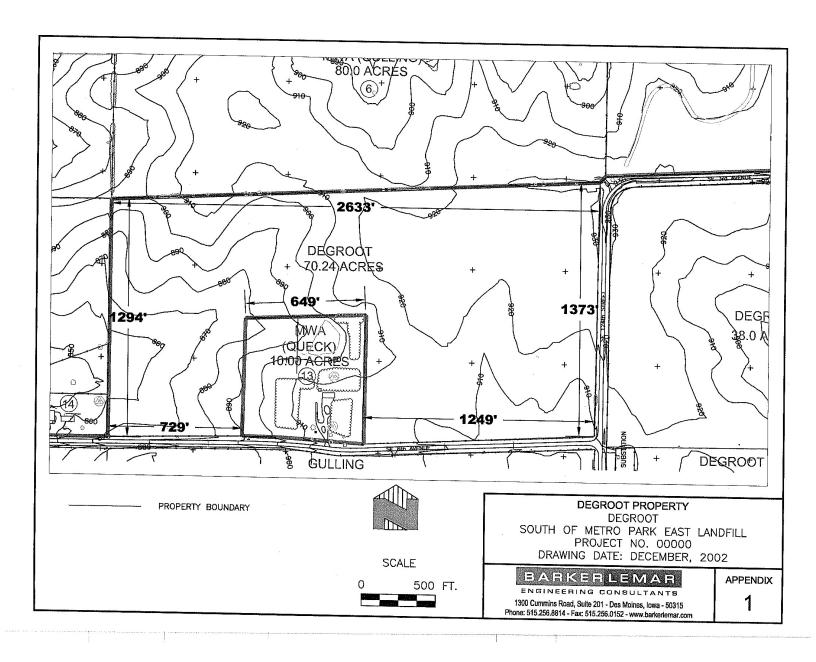
STATE OF IOWA:

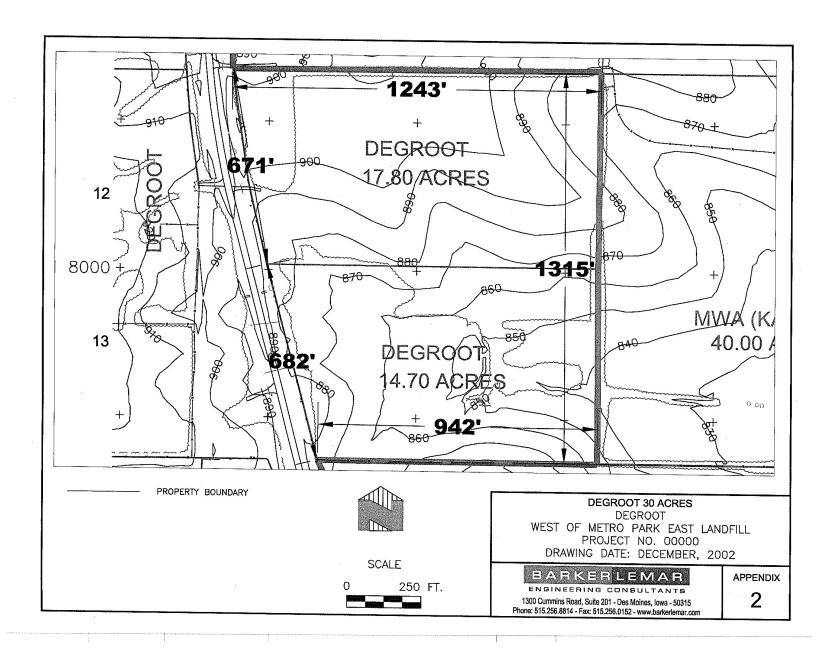
SS:

JASPER COUNTY:

On this 3rd day of March , 2000, before me, the undersigned, a Notary Public within and for the State of Iowa, personally appeared Jerry Ray Kane and Marjorie Louise Bass, his wife, to me known to be the identical persons named in and who executed the within and foregoing instrument and acknowledged that they executed the same as their voluntary agt and deed.

(Herbert S. Selby Notary Public within and for the State of Iowa.





Doc ID: 015078490002 TVDE: GEN
Recorded: 06/09/2004 at vDE: 4157 AM
Fee Amt: \$1.219.80 Page 1 of 2
Revenue Tax: \$1.188.80
Polk County Iowa
TIMOTHY J. BRIEN RECORDER
File# 2004-00138056
BK 10582 Pg485-486

RETURN TO:

Orville W. Bloethe,

702 Third Street, Street Addre

Victor, IA 52347

Address Tax Statement:

Metro Waste Authority, 300 East Locust Street, Suite 100, Des Moines, IA 50309

SPACE ABOVE THIS LINE FOR RECORDER

101 WARRANTY DEED

WARRANTY DEED

For the consideration of One (\$1.00)								
Dollar(s) and other valuable consideration,								
Frederick DeGroot, a/k/a Fredrick DeGroot, a/k/a Fred DeGroot, and Jeanetta DeGroot, a/k/a Jeanetta DeGroot,								
husband and wife, Jeanetta DeGroot signs by Fre	ederick DeGroot, holder	r of Power of Attorney for Jeanetta DeGroot.						
do hereby Convey to								
Metro Waste Authority								
the following described real estate in	POLK	_ County, Iowa:						

See legal description in Exhibit "A" attached hereto and incorporated by this reference herein.

1188 80

Entered upon transfer books and for MICHAEL A. MAURO Auditor

The lowa State Bar Association 2003

Grantors do Hereby Covenant with grantees, and successors in interest, that grantors hold the real estate by title in fee simple; that they have good and lawful authority to sell and convey the real estate; that the real estate is Free and Clear of all Liens and Encumbrances except as may be above stated; and grantors Covenant to Warrant and Defend the real estate against the lawful claims of all persons except as may be above stated. Each of the undersigned hereby relinquishes all rights of dower, homestead and distributive share in and to the real estate.

STATE OF IOWA	, ss:	Dated: May 13, 2004	
Public in and for said S Frederick DeGroot and Jean wife, Jeanetta DeGroot by F. Power of Attorney to me known to be the id and who executed the acknowledged that they e voluntary act and deed.	county, of May he undersigned, a Notary state, personally appeared etta DeGroot, husband and rederick DeGroot, holder of dentical persons named in foregoing instrument and executed the same as their	Frederick DeGroot * **Eresterief* De Groot a Frederick DeGroot by Frederick DeGroot a Holder of Power of Attorney	(Grantor) (Grantor) (Grantor)
<u> </u>	Notary Public		(Grantor)

DECEMBER 10, 2004

	STATE OF				OUNTY, ss:
	On this day of _			before m	e, the undersigned, a
	Notary Public in and for said Sta	te, personally app	peared		
					5.73
	to me known to be the identical	al persons name	d in and who ex	recuted the foreg	joing instrument, and
	acknowledged that they execute	d the same as the	eir voluntary act a	and deed.	
				ř.	
	a garage		,		
*	2				Notary Public
					*
	STATE OF			C	DUNTY, ss:
	On this day of _	,		before m	
	Notary Public in and for said Sta				,
	Hotaly I aprio III alla io. bala 21	, p.a,			
	1444				
	to me known to be the identic	al persons name	ed in and who ex	xecuted the fore	going instrument, and
	to me known to be the identic	al persons name and the same as th	ed in and who ex eir voluntary act	xecuted the foregand deed.	going instrument, and
,	to me known to be the identic acknowledged that they execute	al persons name ad the same as th	ed in and who ex neir voluntary act	xecuted the foregand deed.	going instrument, and
; *-	to me known to be the identic acknowledged that they execute	al persons name ad the same as th	ed in and who e leir voluntary act	xecuted the foregand deed.	going instrument, and
	to me known to be the identic acknowledged that they execute	al persons name ad the same as th	ed in and who e neir voluntary act	xecuted the fore	going instrument, and Notary Public
n e	to me known to be the identic acknowledged that they execute	al persons name ad the same as th	ed in and who e neir voluntary act	xecuted the foregand deed.	

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REAL ESTATE TRANSFER - GROUNDWATER HAZARD STATEMENT

Please read the filing instructions on the reverse side BEFORE completing this form .

PART I - TO BE COMPLETED BY TRANSFEROR

(Please Type or Print Legibly)

TRANSFEROR Nar	ne_ Frederick DeGroot and	d Jeanetta DeGroot, hu	sband and wife		
Add	iress 14782 S. 68th Aven	ue West, Mitchellville,	IA 50169		
	Number and Street or RR		City, Town or P.O.	State	Zip
TRANSFEREE Nam	ne Metro Waste Authority		· · · · · · · · · · · · · · · · · · ·		
Add		eet, Suite 100, Des Moi		r safa	
	Number and Street or RR		City, Town or P.O.	State	Zip
Address of Property	Fransferred Rural Polk Cou	unty, IA			
	Number and Street of		City, Town, or P.O.	State	Zip
Legal Description of	Property See Exhibit A	attached hereto			
		Market and the second s			
1. Wells (check one)					٧.
	nown wells situated on this p or wells situated on this prop		tion(s) and logal status or	a stated below	
		perty. The type(s), toca	tion(s) and legal status ar	e stated below.	
Solid Waste DispoThere is no kno	wn solid waste disposal site	on this property.			
☐ There is a solid	d waste disposal site on this to be potentially hazardous.	property, but no notice	has been received from the	ne Department of Natural	Resources that the
☐ There is a solid	waste disposal site on this	property which has bee	n deemed to be potentially	y hazardous by the Depar	tment of Natural
	e location(s) of the site(s) is	stated below.		* *	y.
3. Hazardous Waste	s (check one) wn hazardous waste on this	property.			
☐ There is hazard	lous waste on this property a	and it is being managed	in accordance with Depar	rtment of Natural Resource	es rules.
★ There are no kno most heating of There is an under	rage Tanks (check one) own underground storage tar il tanks, cisterns and septic t erground storage tank or tank	anks, in instructions.)			
below.					
5. Private Burial Site☑ There are no kn☑ There is a private decedent is stated	nown private burial sites on t te burial site on this propert	this property. y. The location(s) of th	e site(s) is stated below. T	The known identifying in	formation of the
Information, if any, re	equired by statements checke	ed above:			
Attachment for Additi	onal Information 🍞/N	If so, number of pages	1		
I HEREBY DECLAR	RE THAT THE INFORM	ATION CONTAINED	IN PART 1 OF THIS S	TATEMENT IS TRUE	AND CORRECT
Signature:				e Number: 31963	
(Trans	feror or Agent)		Тегерлоп	e ivamoer.	1017
	PART	Г 11 - ТО ВЕ СОМРІ	ETED BY RECORDER	i e	
Date of Instrument		Book/I.D.		Page/I.D.	
Deed ☐ Contrac					
DNR form (July 99)		FILE WITH R	ECODDED		
(000, 00)		(See Instru			542-0960

INSTRUCTIONS FOR COMPLETING GROUNDWATER HAZARD STATEMENT

The transferor of real property is required to complete Part I of this form. The purpose of the statement is to satisfy legal requirements for filing instruments of conveyance of real property with the county recorder (Iowa Code Section 558.69). The Department of Natural Resources does not approve or disapprove of property transfers based on these statements. The statement must be signed by one of the persons transferring the property interest or that person's agent. An agent signing this form represents the information from transferor to be correct.

For the most part the information requested is clear (name, address, etc.). One statement under each of the numbered items (1, 2,3,4 and 5) must be checked, and if one or more of the statements checked requires the transferor to provide additional information, that information is to be provided in part I. Relate the additional information to the specific category of facility (well, etc.) by numbering it with the corresponding number (1, 2, 3, 4, 5). If additional space is needed, type or print it legibly on a separate sheet or sheets, complete the statements at the end of Part I and attach the additional information to all copies of the form. When describing the location of a facility on the property, be reasonably precise, such as a specific distance and general direction from a landmark or corner of the property. A professional survey is not necessary. The following definitions are for use in completing the form.

1. Wells - A "well" is any excavation that is drilled, cored, bored, augered, washed, driven, dug, jetted or otherwise constructed for accessing groundwater or for diverting surface water into the ground, including abandoned wells. "Well" does not include an open ditch or drainage tiles which discharge to the surface.

If a well is an "abandoned well" or an "agricultural drainage well," this must be identified and the status of the well with respect to Iowa Code sections 455B.190 and 159.29, respectively, must be stated. An "abandoned well" is a well no longer in use or in such state of disrepair that continued use is unsafe or impracticable. Abandoned wells are to be properly plugged in accordance with chapter 39 of the rules of the Department of Natural Resources. (567 Iowa Administrative Code, Chapter 39)

An "agricultural drainage well" is a well constructed for the purpose of draining, or which drains, water from agricultural land to an aquifer (underground), excluding drainage tile intakes which outlet to the surface. Agricultural drainage wells are required to be registered with the department by September 30, 1988, and the owner of the well and of the land drained by the well are to develop a plan proposing alternatives to the use of the well by July 1, 1998 (See Iowa Code Section 159.29.)

2. Solid Waste - "Solid waste" means garbage, refuse, rubbish and other similar discarded solid or semisolid material. It does not include dirt, stone, brick, or similar inorganic material used for fill, as long as no other solid waste is included. See 567-100.2(455B), Iowa Administrative Code (I.A.C.) for further definitions. A "disposal site" is any area on the property on, in, or under which solid waste has been disposed, whether or not the disposal is or was regulated by the department.

If the transferor or agent has not received notice from the Department of Natural Resources that the disposal site has been deemed to be potentially hazardous, there is no duty to inquire to the department.

*Note The land application of sludges or soils resulting from the remediation of underground storage tank releases accomplished in compliance with Department of Natural Resources rules without a permit is not required to be reported as the disposal of solid waste or hazardous waste. (See Iowa Code Section 558.69)

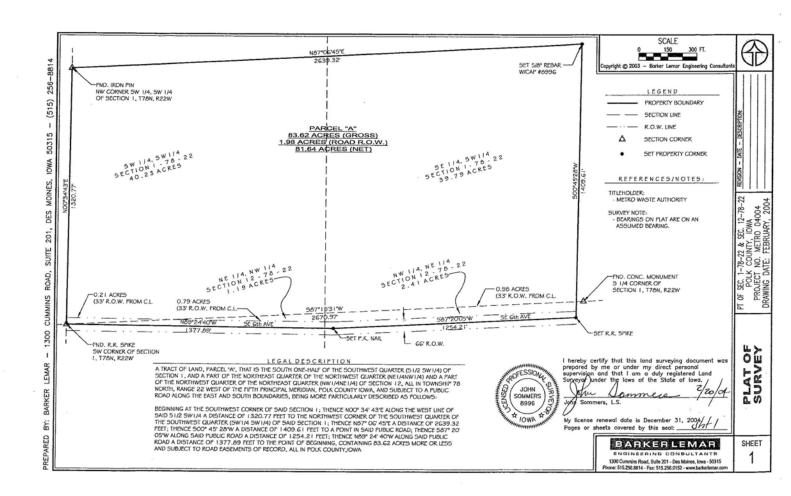
- 3. Hazardous Wastes "Hazardous waste" is defined in Jowa Code section 455B.411, 567-141.2 (455B), I.A.C., and federal regulations referenced therein. It is generally defined as waste that poses a threat to human health or the environment. It includes wastes which are ignitable, corrosive, toxic, explosive, violently reactive, or specifically listed as hazardous in the Code of Federal Regulations (40 CFR 261). EXCLUDED are household wastes, agricultural wastes returned to the soil as fertilizers or soil conditioners, agricultural chemicals applied or disposed of by a farmer in accordance with the manufacturer's instructions, triple-rinsed agricultural chemical containers disposed of by farmers (where the rinsate is used as makeup water in the tankmix and applied at appropriate rates), and other specific materials. Persons are legally required to be aware of hazardous waste laws.
- 4. Underground Storage Tanks "Underground storage tank" means one or a combination of tanks, including underground piping connected to the tanks, used to contain an accumulation of regulated substances, and the volume of which is 10 percent or more beneath the surface of the ground. "Regulated substances" include petroleum products and hazardous or toxic materials identified in 567--135.2(455B), I.A.C. Underground storage tank does not include:
- a. Farm or residential tanks of 1,100 gallons or less capacity used for storing motor fuel for noncommercial purposes. But See 455B.473(4)
- b. Tanks used for storing heating oil for consumptive use on the premises where stored.
- c. Residential septic tanks.
- d. Pipeline facilities regulated by state or federal law.
- e. A surface impoundment, pit pond, or lagoon.
- f. A storm water or wastewater collection system.
- g. A flow-through process tank.
- A liquid trap or associated gathering lines directly related to oil or gas production and gathering operations.

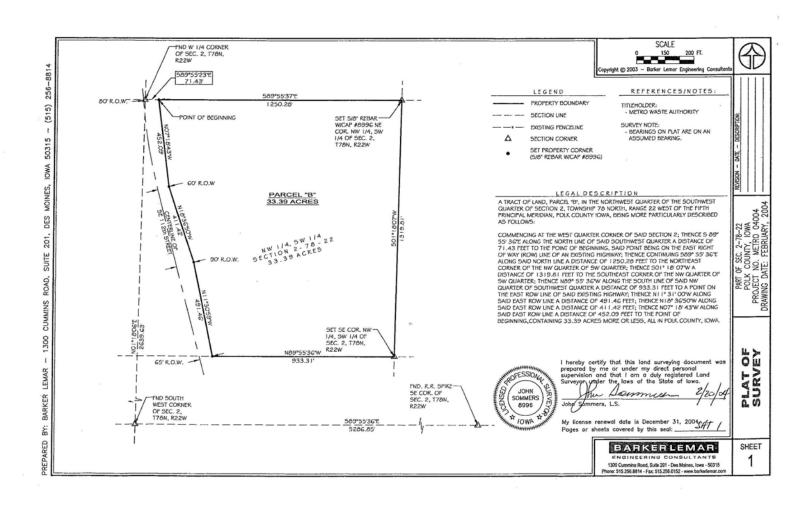
 i. A tank in an underground area such as a basement or mine, if
- the tank is on or above the surface of the floor,
- j. Pipes connected to the above exclusions.

"Tank type" means the material of construction (steel, fiberglass reinforced plastic [FRP], or other [specify]), and any internal or external protection such as a protective coating or wrapping, or cathodic protection.

Identify the capacity in gallons and the substance stored in each tank.

- 5. Private Burial Sites "Private Burial Site" means one or more graves containing human remains. For each site the transferor shall state the location of the site. For each decedent buried on the property the transferor shall state all known identifying information of that decedent including name, date of death, and date of birth.
- 6. Filing The original of this form must be presented to the county recorder when the document to be recorded is filed. The Recorder shall forward the original to the transferee when the recorded instrument is returned. The recorder is not required to keep any copies.





P.10.04

EXHIBIT "A" LEGAL DESCRIPTION

Parcel "B" of Plat of Survey recorded in Book 10423 Page 640 being part of the Northwest ¼ of the Southwest ¼ of Section 2, Township 78 North, Range 22 West of the 5th P.M., Polk County, Iowa, being more particularly described as follows:

Commencing at the West ¼ corner of said Section 2; thence S89°55'36"E along the North line of said Southwest ¼ a distance of 71.43 feet to the point of beginning, said point being on the East Right-of-Way line of an existing highway; thence continuing S89°55'36"E along said North line a distance of 1250.28 feet to the Northeast corner of the Northwest ¼ of Southwest ¼; thence S01°18'07"W a distance of 1319.81 feet to the Southeast corner of the Northwest ¼ of Southwest ¼; thence 89°55'36"W along the South line of said Northwest ¼ of Southwest ¼ a distance of 933.31 feet to a point on the East Right-of-Way line of said existing highway; thence N11°31'00"W along said East Right-of-Way line a distance of 491.46 feet; thence N18°36'50"W along said East Right-of-Way line a distance of 411.42 feet; thence N 07°18'43"W along said East Right-of-Way line a distance of 452.09 feet to the point of beginning, containing 33.39 acres more or less, all in Polk County, Iowa.

AND

Parcel "B" of Plat of Survey recorded in Book 10484 Page 829 being part of the Southwest ¼ of Section 12, all in Township 78 North, Range 22 West of the 5th P.M., Polk County, Iowa, being more particularly described as follows:

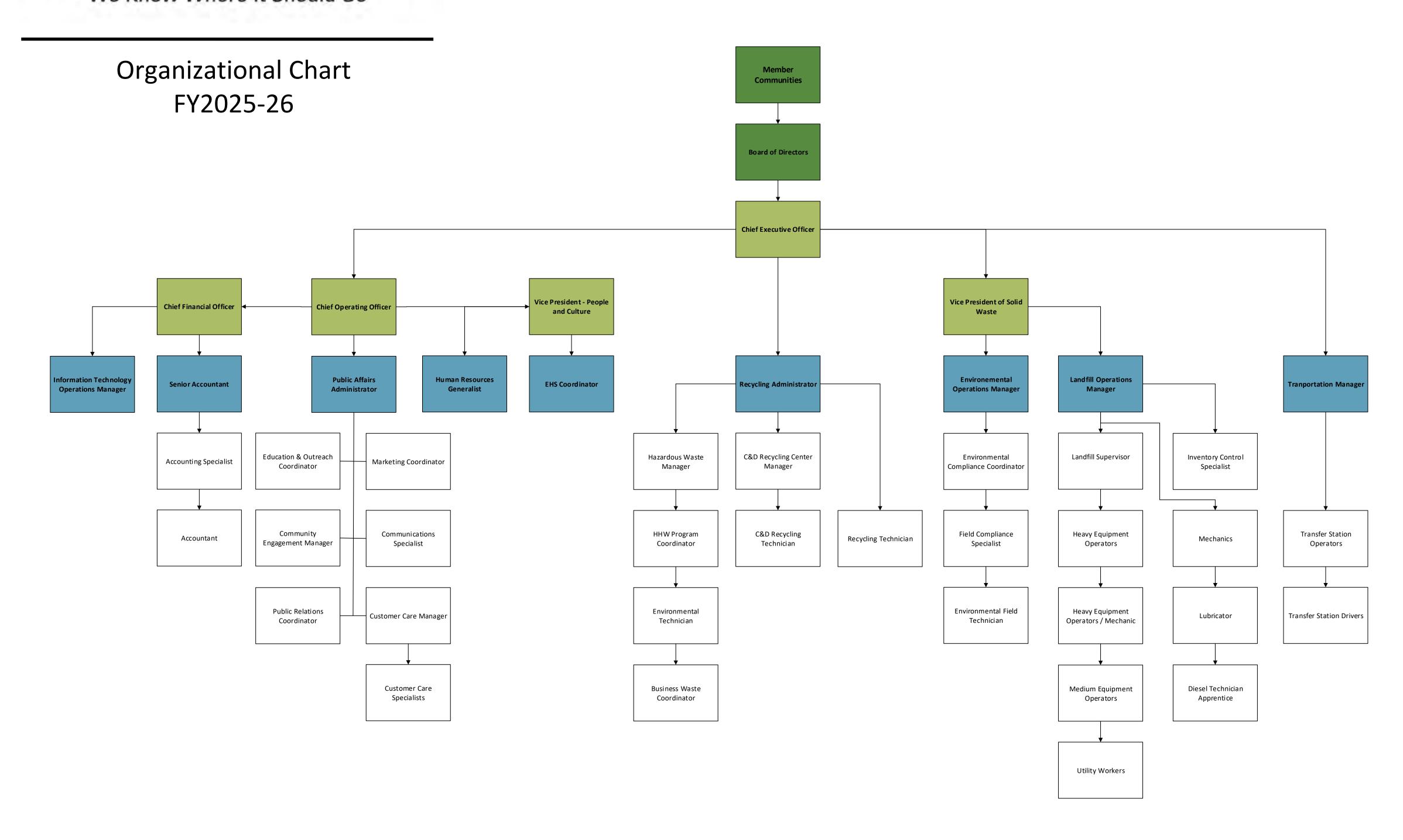
Commencing at the South quarter corner of said Section 1; thence S87°14'36"W along the South line of the Southwest ¼ of said Section 1, 1290.67 feet (M) 1286.57 feet (D) to the point of beginning; thence N01°03'36"E a distance of 655.83 feet (M) 655.75 feet (D); thence S87°03'59"W a distance of 649.33 FEET (M) 650.10 feet (D); thence S01°03'36"W a distance of 676.73 feet to the centerline of County Road; thence S89°05'59"W along the centerline of County Road a distance of 729.95 feet to the Southwest corner of said Section 1; thence N00°34'43"E a distance of 1320.77 feet to the Northwest corner of the Southwest ¼ of the Southwest ¼ of said Section 1; thence N87°06'45"E a distance of 2639.32 feet; thence S00°45'28"W a distance of 1409.61 feet to the centerline of County Road; thence S87°21'02"W a distance of 1254.75 feet; thence N01°03'36"E a distance of 79.53 feet to the point of beginning containing 72.82 acres more or less and subject to existing road easements of record, all in Polk County, Iowa.

Subject to coveants, easements and restrictions of record, if any.

Section D: Organizational Chart



We Know Where It Should Go



Section E: Operator Certification

Certificate of Completion

presented to

COLBY REID

For successful completion of the IDNR approved Appliance Demanufacturing training course conducted by Barker Lemar on Friday, March 8, 2019 in West Des Moines, Iowa.

Kevin Jensen Epvironmental Compliance Specialist

BARKERLEMAR

ENGINEERING CONSULTANTS

1801 INDUSTRIAL CIRCLE | WEST DES MOINES, IOWA 50265 | 515.256.8814 | www.barkerlemar.com

Certificate of Completion

presented to

BLAKE MCWILLIAMS

For successful completion of the IDNR approved Appliance Demanufacturing training course conducted by Evora Consulting on Tuesday, September 14, 2021 in West Des Moines, Iowa.

Kevin Jensen Epoironmental Compliance Specialist



Section F: EPA Refrigerant Recovery Device Certification

Print



HVAC and Refrigeration > Air Conditioners and Accessories > Air Conditioning Chemicals, Tools and Accessories > Air Conditioning and Refrigeration Tools > Refrigerant Recovery Systems > Refrigerant Recovery Machine, 1/2 HP, 115V >

Refrigerant Recovery Machine, 1/2 HP, 115V

Item # 29AU04 Mfr. Model # 95762 Catalog Page # 3007 UNSPSC # 23111507



Web Price **6** \$1,060.90 / each



Pickup

Expected to arrive Wed. Jun 05.

Ship To 50301 (Change)

Qty



Refrigerant Recovery Machine

Type 2-Port

Height (In.) 15

Depth (In.) 13-1/2

Width (In.) 21-1/4

Electrical NEMA 5-15p Connections Male Plug

115

Hose Connection 1/4" Male

Motor HP 1/2

Voltage

Categories based on your search



HVAC and Refrigeration



Air Conditioners and Accessories



Air Conditioning Chemicals, Tools and Accessories



Air Conditioning and Refrigeration Tools



Refrigerant Recovery Systems

Other products based on your search

🙉 - Ohur with nervisioni

Operating Temp. Range (F) 35 Degrees to 120 Degrees

Compressor

Oilless

For Use With

Refrigeration Equipment

View product details



YELLOW JACKET

Refrigerant Recovery Machine, 1/2 HP, 115V

VIEW

Web Price **1** \$1,186.56 / each



YELLOW JACKET

Refrigerant Recovery Machine, 1/2 HP, 115V

VIEW

Web Price **(1)** \$967.17 / each



ROBINAIR

Refrigerant Recovery Machine

VIEW

Web Price **(1)** \$751.47 / each



ROBINAIR

Refrigerant Recovery Machine, 40 lb.

VIEW

Web Price **6** \$2,262.58 / each



VIEW

Chal with an Agent



RecoverXLT[™] Oil-Less Universal Refrigerant Recovery System



Operation and Maintenance Manual

(For serial numbers 181195 and higher)

(English and Spanish. French and German available at www.yellowjacket.com)

Table of Contents	Page
General Safety Instructions	2-3
Care and Maintenance	
Auto Purge Instructions	3
Restart Procedure	3
Suction Filter	3
RecoverXLT Operating Guide	4-5
Direct Liquid/Vapor Recovery	4
Push-Pull Liquid Recovery	5
Recovery Tips & Techniques	6
Recovering R-410A High Pressure Gas	6
Troubleshooting Guide	7
Technical Data	7-8
RecoverXLT Wiring Diagrams	8
Replacement Parts	9
Important Notice to Purchaser	10
Warranty Information	10

General Safety Instructions

- Know your equipment. Read and understand the operation manual and the labels affixed to this unit. Learn the applications and limitations, as well as the specific potential hazards of the RecoverXLT.
- 2) Use the correct hoses. Use only hoses designed for handling of refrigerants. The hose should be the minimum length required for each job and equipped with a shut-off device (such as the compact ball valve) at the end to reduce the likelihood of refrigerant leaks to the atmosphere. For best performance we recommend using 3/8" hoses. YELLOW JACKET hoses are made for almost every type of refrigerant. See your local distributor for more information.
- Ground all equipment. Plug the RecoverXLT into a properly grounded receptacle using the appropriate plug.
- If the detachable power cord is damaged, it must be replaced by a cord assembly available from the manufacturer or distributor where purchased.
- If the attached power socket is damaged, it must be replaced by the manufacturer or its authorized service center in order to avoid hazard.
- 6) Do not pressure test with compressed air. Some mixtures of air and refrigerant have been shown to be combustible at elevated pressures.
- Avoid dangerous environments. To keep operator exposure to a minimum, use the

RecoverXLT only in areas with sufficient ventilation.

Recovery should always be performed in well ventilated areas. Use the *RecoverXLT* only in locations where mechanical ventilation which provides at least four air changes per hour is present, or place the unit 18" above the floor during use.

The *RecoverXLT* should not be used near open containers of gasoline or any other flammable liquid. Do not allow refrigerants to come in contact with open flame. Refrigerant decomposition in flame results in phosgene gas. Breathing phosgene gas can be fatal.

- Always wear safety goggles and gloves.
 Personal protective equipment should be worn to
 protect operator from frostbite.
- Use caution when connecting or disconnecting. Improper usage may result in refrigerant burns (frostbite). If a major leak occurs, proceed immediately to a well ventilated area.
- 10) Disconnect recovery machine from power before servicing. An electrical shock hazard is present when the unit is disassembled.
- 11) Repair damaged parts. Do not operate the *RecoverXLT* if there is a defective part. Repair the unit to proper operating conditions before further use.

- 12) Use recommended accessories. Follow the instructions that accompany all accessories. Improper use may damage equipment or create a hazard.
- 13) Use the *RecoverXLT* only with the proper refrigerants. (See specifications for a complete list of compatible refrigerants.)
- 14) Operate the RecoverXLT within the design parameters only. The RecoverXLT was designed to operate within a temperature range of 40° (4° C) to 120°F (49°C). Do not operate in a wet location.

Caution: All refrigerant hoses, recovery tanks, refrigerant lines, other vessels containing refrigerants

and the *RecoverXLT* should be handled as if under high pressure. When opening a tank containing refrigerant, open valves slowly to prevent release of refrigerant, especially if the valves might be damaged.

To prevent the risk of fire DO NOT use an extension cord longer than 25' (7.6 m) and a minimum of 16 AWG (1.276 mm²).

Care and Maintenance

Auto Purge Instructions

Purging or evacuating the *RecoverXLT* is one of the simplest and most important functions. Reduce the risk of cross contamination and prolong the life of the *RecoverXLT* by purging after *every* service.

Note: The purge process must be done before disconnecting the discharge hose from the *RecoverXLT*.

 The Low Pressure Switch will shut the unit off and the lamp will indicate Recovery Complete when the unit reaches appropriate vacuum levels. After the unit shuts down, turn the system switch to off, then rotate the selector valve clockwise to OFF to equalize then to PURGE. Turn the system switch on.

Note: The low side gauge should read an increase in suction pressure, indicating the refrigerant that was trapped in the machine.

- Wait until the Low Pressure Switch again shuts the unit off at the appropriate vacuum.
- 3) Close the valve on the recovery tank and turn off the *RecoverXLT*

Restart Procedure

If the recovery unit was stopped during operation, it may be necessary to balance the internal pressures before the unit will start.

To balance the internal pressure:

1) Turn the system switch off.

- Rotate selector clockwise to the OFF position. Allow pressures to balance.
- 3) Turn the recovery machine ON.
- Turn the selector valve counter-clockwise to the previous RECOVER position.

Suction Filter

The *RecoverXLT* is equipped with a built-in particulate strainer located behind the suction port. Unscrew the suction port by using a 11/16 wrench to unscrew the hex head port to remove. This prevents contaminants, copper shavings, carbon, and other foreign objects from making their way to the *RecoverXLT* compressor and causing permanent damage.

Like a filter drier, this strainer MUST be cleaned or replaced often. Failure to do this can cause the strainer to become too clogged for refrigerant to flow freely. A sure sign that the straining device is clogged is the freezing of the suction port and the filter cover.

Before replacing, check the condition of the o-ring. Replace if necessary.

Note: Make sure to use a strainer in the *RecoverXLT* for every job! Filter strainers and o-rings are available from your supplier.

Filter Strainer and O-Ring - Part #95457

RecoverXLT Operating Guide

Direct Liquid/Vapor Recovery

The *RecoverXLT* is used to pull liquid or vapor refrigerant directly out of the system and transfer it into a recovery cylinder.

Liquid recovery is accomplished by connecting to the high pressure system discharge service port (Liquid Port) side of the system being serviced.

Vapor recovery can be done by connecting to the system suction service port (low pressure) side of the system.

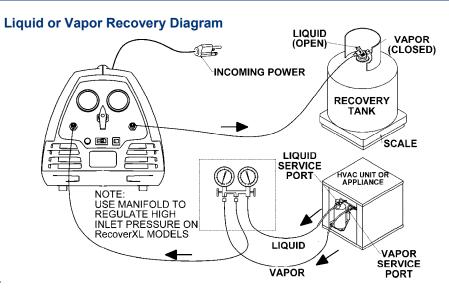
Because the *RecoverXLT* is capable of recovering direct liquid, it is best to first recover all of the liquid, followed by the vapor. This will make your job easier and faster. Refer to the following instructions and the above diagram:

- 1. Know the type and quantity of refrigerant present before servicing any system.
- 2. Turn off power to the system being serviced. Turn the selector knob to off.
- Connect your manifold to the system being serviced. High Side to liquid port and Low Side to vapor port as shown in diagram on page 4.
- 4. Connect the Utility port of your manifold to the 1/4" SUCTION port of the *RecoverXLT*.
- Connect one hose from the recovery cylinder (liquid side) to the 1/4" DISCHARGE port of the RecoverXLT.

Note: Be sure to connect hose ends with shut-off to suction and discharge ports of recovery machine (for best performance use 3/8" hoses.)

- 6. Purge all hoses of non-condensables before recovering refrigerant into recovery cylinder.
- 7. Open the liquid valve on the recovery tank.
- 8. Turn the **RecoverXLT** on.
- 9. Turn the selector VALVE on the *RecoverXLT* to either the LIQUID or VAPOR position.
- Open the Utility and either High Side or Low Side valves on the manifold. Remember it is more efficient to recover the liquid refrigerant first. Caution: do not over-pressure low side gauge.
- 11. The *RecoverXLT* will continue to recover until it reaches and sustains the appropriate vacuum at which point the LOW PRESSURE SWITCH shuts down the unit and the lamp indicates Recovery Complete.
- Turn the system switch off. Turn the selector valve clockwise to OFF. Turn the system switch on. Turn selector valve to PURGE position.
- 13. When the unit again shuts down and the lamp indicates **Recovery Complete**, the recovery and purge cycles are complete.

Note: If the machine is not recovering, refer to the troubleshooting guide on page 9. Restart procedures are on the side of the machine and below.



Push-Pull Liquid Recovery

The Push-Pull Liquid Recovery mode is used for transferring large volumes of liquid refrigerant. The RecoverXLT "pulls" vapor from the recovery cylinder and produces high pressure discharge gas that "pushes" liquid out of the HVAC system and into the recovery cylinder. The auto purge feature makes the reconfiguration to vapor recovery easier and faster to do.

Some HVAC systems will not allow for the pushpull recovery method. If any of the following conditions apply, do not use push-pull method, but follow the instructions page 4 for *RecoverXLT*.

- System contains less than 10 pounds of refrigerant.
- System is a heat pump or other unit with a reversing valve.
- System has an accumulator between the service ports used in liquid recovery.
- The refrigerant system does not allow for the formation of a solid column of liquid.

For push-pull recovery, a sight glass is monitored during recovery. When liquid is no longer visible, stop recovery and finish recovering using the VAPOR recovery process for *RecoverXLT* as described on page 4.

When push-pull recovery is complete, a small amount of refrigerant remains in the system. For complete recovery, the system must be pulled into a vacuum as required by EPA standards. This process requires the following equipment:

- 1) An extra hose for the push-pull recovery.
- 2) A recovery cylinder with about 5 lbs. of refrigerant.
- 3) A sight glass (Note: Make sure sight glass is

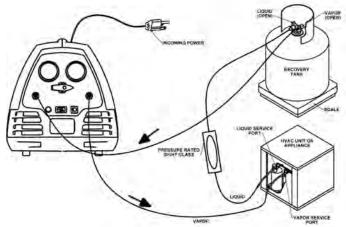
rated for the pressure of the refrigerant being recovered).

Follow these steps:

- 1) Turn off power to the system to be serviced.
- 2) Hook up the *RecoverXLT*, the system to be recovered, and the recovery tank as shown in the diagram above.
- Purge all hoses of non-condensables before recovering refrigerant into recovery cylinder.
- 4) Open valves on the recovery tank.
- 5) Turn the selector valve to VAPOR position.
- 6) Turn the *RecoverXLT* on.
- Monitor the sight glass. When the passing liquid is no longer visible through the sight glass, the push-pull method of recovery is complete.
- Close the VAPOR valve on the recovery tank and let the recovery continue.
- Turn the selector valve clockwise to the PURGE position and follow procedures for purging the *RecoverXLT*.
- 10) Turn the *RecoverXLT* off.
- 11) Close LIQUID valve on recovery tank.
- 12) Reconnect the hoses per the procedure for the *RecoverXLT* vapor recovery instructions.
- 13) Rotate the selector valve to the VAPOR position.
- 14) Continue recovery until the unit shuts off or reaches the appropriate level of vacuum.

Note: See page 4 for a detailed set of instructions on Vapor Recovery.

Push-Pull Recovery Diagram



RECOVERY TIPS AND TECHNIQUES

- To assure the fastest and quickest recovery possible, use the shortest hoses possible and avoid hoses with Schrader depressors.
- 2) Know what kind and the amount of refrigerant that is going to be recovered. This is critical to avoid contamination and know how much refrigerant will be recovered. The first job of the day usually means a fresh, empty tank and no cause for worry about over-filling. However, the last job of the day means there is already liquid in the tank and over-filling can be a concern. Over-filling a recovery cylinder can have disastrous results.
- Refrigerant responds to heat. Therefore, a significant increase in the speed of the recovery process will be obtained if a heat gun is used, specifically to any spots where liquid may have accumulated.
- Always try to recover liquid first. This is the preferred method of recovery for the RecoverXLT, which pumps liquid 5 to 7 times faster in standard liquid mode than vapor.

- 5) If recovering large amounts of refrigerant (20 lbs or more), the push-pull method is recommended. (Note: This process requires the hoses to be switched before recovery of the remaining vapor.)
- 6) Recovery can often be speeded up by simultaneous recovery from both the high and low side of the system. Attach short hoses to both the high and low side of the system and join them with a BRUTETM II Manifold or Y connector to the hose going to the Suction Port of the RecoverXLT.
- Protect the *RecoverXLT* by keeping the builtin suction filter IN THE MACHINE. Failure to use the suction filter in the *RecoverXLT* will void the warranty.
- 8) Recovery machines are not vacuum pumps. For proper evacuation, use a YELLOW JACKET SuperEvac[™] vacuum pump. To speed up the evacuation process, use the SuperEvac vacuum pump and a core removal tool (Part #18975). For more information contact your YELLOW JACKET wholesaler.

Recovering R-410A High Pressure Gas

IMPORTANT!!! Some equipment should not be used with this refrigerant. Take time to read the safety instructions that came with the device you are servicing as well as any material that came with your refrigerant.

WARNING!!! USE ONLY D.O.T. RECOVERY CYLINDERS APPROVED FOR R-410A. Overfilling the tank may cause it to rupture!

The *RecoverXLT* will recover R-410A provided the following instructions are followed:

- Set-up for recovery as per diagram on page 4 for normal recovery or page 5 for push-pull recovery.
- Follow the operating procedures for your model.

- Continue recovery until the Low Pressure Switch has shut the unit off and lamp indicates Recovery Complete.
- 4) Turn system switch off.
- Purge the machine (see page 3 for more details).

Technical Support: Call 800-769-8370 for additional information.

Troubleshooting Guide

Condition	Possible Problem	Possible Solution
No power to unit	Power cord not plugged in	Plug power cord in
	Outlet not energized	Reset breaker
Compressor will not	Compressor under unequalled conditions	See restart procedure
start	Compressor thermal overload is tripped	Thermal overload will reset in approx. 15-30 minutes
	Unit is shut down on Recovery Complete.	Low pressure switch resets at atmospheric pressure, rotate selector valve to either the Vapor or Liquid Recovery position.
	Unit is shut down on tank full or high pressure.	Check tank pressure, check for restrictions, check shorting cap or umbilical connection, and check high gauge pressure to see if unit is under high pressure.
Unit runs but shuts off after short time	Restriction on discharge side tripping the high pressure switch	Check for restrictions 1) Tank valves 2) Schrader cores
		Selector valve in correct position
Unit trips breaker upon start up	Compressor is under unequalled conditions	See restart procedure
Unit runs but does not	Suction filter clogged	Clean or replace suction filter
recover refrigerant	Selector valve in wrong position	Put selector valve in liquid or vapor recovery position
Unit will not pull a	Hoses are not tight	Tighten hoses
vacuum	Leak in HVAC/R system	Find and repair leak in system
Unit running sluggish	Low voltage to unit	Check power supply
Vacuum switch won't reset	Switch needs to reset	Pressurize inlet port

^{*}If the attached power cord or socket is damaged (95215 or 95459), it must be replaced by the manufacturer or its authorized service center in order to avoid hazard.

TECHNICAL DATA

*UL Certified Rates to ARI Standard 740-98

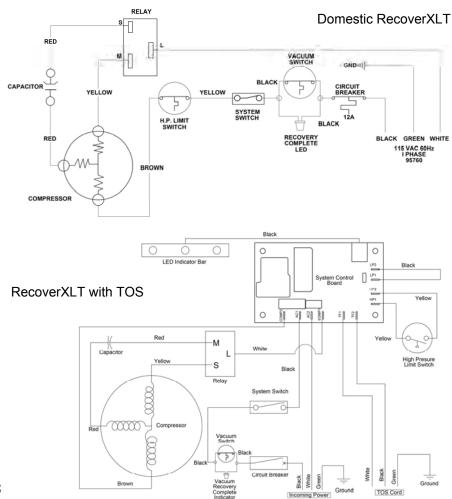
RecoverXLT	R-12	R-134a	R-22	R-500	R-502	R-410A
Vapor lbs./min	.37	.37	.37	.37	.66	.42
Liquid lbs./min	1.98	1.98	1.98	1.98	2.65	1.68
Push-Pull lbs./min	12.81	12.81	12.81	12.81	12.9	11.6
Vacuum Level	15 inHg					

Other Refrigerants - The *RecoverXLT* is approved for use with the following refrigerants which have not been certified for a particular recovery rate: R12, R-401A, R401B, R-402A, R-402B, R-404A, R-406A, R-407A, R-407B, R-407C, R-407D, R-408A, R-409A, R-411A, R-411B, R-500 and R-502.

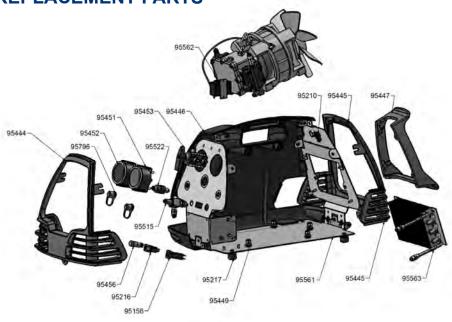
Technical Data, cont.

Compressor:		1/2 HP Reciprocating Oil-Less
Power Source	2.	115V AC 60 Hz 1 Phase
Amperage:		
	Full Load Amps:	11.0
	Locked Rotor Amps:	25.2
Size:	Height:	7.5"
	Width:	7.5"
	Depth:	9.25"
	Weight:	29.90"

Wiring Diagrams



REPLACEMENT PARTS



RecoverXLT Parts

Part#	Description	Part#	Description
95156	12A Breaker	95452	Gauge Low
95210	Strain Relief	95453	Manifold Assembly
95216	Rocker Switch	95456	Complete Light
95217	Rubber Feet	95515	Discharge Port
95444	Case Front	95522	Suction Port
95445	Case Back	95561	Sheet Metal Base
95446	Case Half	95562	Compressor
95447	Cord Wrap	95563	Condenser Assembly
95449	Grommet	95796	Cap
95451	Gauge High		

RecoverXLT w/TOS Parts Only

Part#	Description
95477	TOS LED Strip Assembly
95478	TOS LED Connection Cable
95527	TOS Board for <i>RecoverXLT</i> (board, LED strip and cable)
95248	Umbilical Cord Overfill Sensor
95188	Shorting Cap for Umbilical Cord



IMPORTANT NOTICE TO PURCHASER

Check for damage immediately. Prior to shipment, all YELLOW JACKET *RecoverXLT* Refrigerant Recovery Systems are completely tested and inspected to assure compliance with Ritchie Engineering factory specifications.

If the recovery system carton is damaged, check contents immediately. Note damage on shipper's Bill of Lading and have shipper sign statement. Notify carrier immediately of the damage to arrange inspection of the recovery system and packaging. The CARRIER ALONE is responsible for handling and settling your claim. Ritchie Engineering will cooperate in assessing damage if

the recovery system is returned to the factory prepaid.

Carton contents include:

- RecoverXLT Refrigerant Recovery System
- Owner's manual
- Warranty registration card

To validate warranty, mail registration card within 10 days.

WARRANTY INFORMATION

Ritchie Engineering guarantees YELLOW JACKET products to be free of defective material and workmanship which could affect the life of the product when used for the purpose for which it was designed. Warranty does not cover items that have been altered, abused or returned solely in need of field service maintenance.

YELLOW JACKET recovery products (UPC 957xx) are covered by a one year warranty for parts and labor. The 115V recovery products (UPC 95760 and 95762) have an extended three year compressor warranty if the warranty card is returned and on file. The warranty also allows for a one year over-the-counter exchange, when applicable. To receive this over-the-counter exchange, call Ritchie Engineering Customer Service at (800)769-8370 and get the required authorization number. Failure to get the required authorization number could result in a denial of the over-the-counter exchange.

The following exceptions will not be covered under this warranty: Recovery products that have been altered, misused, or improperly maintained.

The following must be done before returning unit:

- 1) Call our technical service personnel at (800) 769-8370 to assess if the problem can be resolved over the phone.
- 2) Obtain an RGA number from Ritchie Engineering for the return of the product.
- 3) Fax a copy of the original invoice to (800) 322-8684.

Note: All units must be shipped to the Bloomington, MN plant for repair. If at any time after the warranty period you have problems with your YELLOW JACKET recovery unit, call

our technical service department for help in selecting the correct replacement parts, or to arrange for its repair at reasonable costs.



YELLOW JACKET Products Division Ritchie Engineering Co., Inc. 10950 Hampshire Avenue South Bloomington, MN 55438 e-mail: custserv@yellowjacket.com Web Site: www.yellowjacket.com Phone: 800-769-8370

Int'l Phone: 952-943-1333 Fax: 800-322-8684 Int'l Fax: 952-943-1605

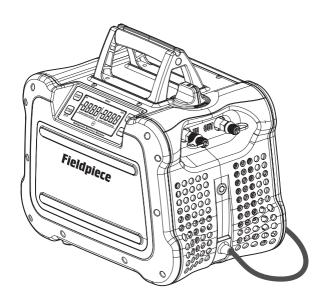
Printed in U.S.A. Part #150961_G

Fieldpiece

Refrigerant Recovery Machine

OPERATOR'S MANUAL

Model MR45



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Important Notice 4	Controls
What's Included 4	Status Icons and Messages Port Routing Control
Warnings 4	MR45 Refrigerant Flow Dynamic Pressure Measurement
Certifications 5	•
Description 6 Features	Functions
Specifications 8	Direct Liquid/Vapor Recovery Push/Pull Recovery
Safety Information 10	
First Aid for Refrigerant Exposure General Environmental	Troubleshooting 28 Status Messages Other Symptoms
Personal Protection MR45 Protection Setup Operational	Maintenance
Tech Tips	Limited Warranty

Important Notice

This is not a consumer machine. Only qualified personnel trained in the recovery or pumping of refrigerant may operate this machine.

Read and understand this operator's manual in its entirety before using MR45 to prevent injury or damage to you or equipment.

What's Included

- MR45 Refrigerant Recovery Machine
- 10 Extra Mesh Screens for Input Port
- 3 Extra O-ring for Input Port
- · Operator's Manual
- 1 Year Warranty

↑ WARNINGS

Do not use to pump hydrocarbons, explosion risk.
Do not use to pump flammable media, explosion risk.
Inhalation of high concentrations of refrigerant vapor can block oxygen to the brain causing injury or death.
Refrigerant liquid can cause frostbite.

Certifications





WEEE
Do not dispose through typical waste streams.



IN ACCORDANCE WITH SECTION 608 OF THE CLEAN AIR ACT:

THIS EQUIPMENT HAS BEEN CERTIFIED BY UNDERWRITERS LABORATORIES INC. TO MEET EPA'S MINIMUM REQUIREMENTS FOR RECOVERY EQUIPMENT INTENDED FOR USE WITH REFRIGERANTS LISTED IN TABLE 4, AHRI 740-98

Description

The MR45 is the first variable speed DC motor recovery machine with a digital display. Pump refrigerant easier and quieter than ever before. Connect your hoses without navigating around dark tight spaces or picking the pump off the ground. View status messages and pressures directly on the big bright display.

Carry the machine to and from the job site easily and well protected from environmental hazards. Turn the single rubberized control valve to route refrigerant through MR45, and use the self-purge function to pump the last traces into the recovery cylinder instead of being left in the machine or released into the environment.

Features

- Lightweight (22 lbs)
- Smooth and Fast Operation (1 HP DC Motor)
- Digital Display with Status Messages
- Reliable Rubberized Construction
- Easy to Access Port Design
- Hex Nut Secures Input Port During Hose Removal
- Power Cord Storage
- Ceramic Cylinders
- Self Purge
- Operation in the Rain (IP24)
- Wide Operating Voltage (95 to 130 VAC)
- UL Verified to Section 608 of EPA Clean Air Act
- UL Verified to AHRI Standard 740

Specifications

Display: 2 x 10000 count LCD with status messages

Backlight: Blue color

Measurement rate: 3.3 times per second, nominal

Input Port Pressure Sensor Range: -30" Hg to 600 psig

Output Port Pressure Sensor Range: -30" Hg to 600 psig

High Pressure Cutoff: 558 psig, nominal

Resolution and Units: 1 psig (1"Hg), 0.05 bar (2 cmHg),

0.01 Mpa (2 cmHg), 5 Kpa (2 cmHg)

Pressure Sensor Accuracy:

 \pm 0.5 " Hg (Vacuum)

 \pm (0.6% of reading +2 psig)

Final Recovery Vacuum: 14.9" Hg

Compressor: Twin cylinder reciprocating (oil-less)

DC Motor: 1 HP (variable smart speed)

Power Source: 95 to 130 VAC @ 60 Hz 1 phase

Max Current Draw: 12.0 AAC

Valve: Single dual-route ball valve

Input Port Filtration: 9 mm mesh screen, stainless

Dimensions: 14.8" x 9.8" x 13.5" 376 mm x 250 mm x 344 mm

Weight: 22 lbs

Operating Environment: 32°F to 122°F (0°C to 50°C)

Storage Environment: -4°F to 140°F (-20°C to 60°C)

Approved Refrigerants: R12, R134A, R22, R401A (MP39), R401B, R401C, R402A, R402B, R404A, R406A, R407A, R407B, R407C, R407D, R408A, R409A, R410A, R411A, R411B, R412A, R500, R502, R507, R509.

Safety Information

First Aid for Refrigerant Exposure

Inhaled: Move to fresh air immediately.

Eye: Immediately flush eye with water. Seek medical attention.
Skin: Immediately flush skin with water. Seek medical attention.

General

- This is not a consumer machine. Only qualified personnel trained in the recovery or pumping of refrigerant may operate this machine.
- Read and understand this operator's manual in its entirety before using MR45 to prevent injury or damage to you or equipment.

Environmental

- 1. Use only within operating conditions (32-122°F)
- 2. Ensure fan opening is clear of debris.
- 3. Explosion and fire risks:

Do not use near sewer lines.

Do not use in poorly ventilated enclosed areas.

Do not use near gasoline, acetylene, or other flammable gases.

Do not use to pump hydrocarbons.

Do not use near flames or sparks.

Assume all components are pressurized.

Personal Protection

- 1. Frostbite danger. Be careful using hoses.
- 2. Use personal protective equipment:

Wear safety goggles.

Wear earplugs if using for long durations.

Wear protective gloves.

MR45 Protection

- 1. Use only on approved list of refrigerants (page 9).
- 2. Do not use with hydrocarbons.
- 3. Ensure mesh screen filter is installed and clean (page 30).

Setup

- Repair any damaged parts before using.
- Disconnect power and allow fan to stop before opening or servicing MR45.
- 3. Perform self test periodically (page 22).
- 4. Ensure power cord is not damaged.
- 5. Ensure all equipment is grounded.
- 6. Extension cord options:

14 AWG or thicker, up to 50 feet (15 m)

12 AWG or thicker, up to 100 feet (30 m)

7. Ensure extension cord is grounded, 3 conductor grounded.

Operational

- Use correct refrigerant hoses with ball valve shutoffs.
- Keep track of the current amount of refrigerant in the cylinder. Refrigerant scales are a good way to do this.
- Overfilling a cylinder past 80% can cause an explosion and violates DOT laws.
- 4. Close cylinder off from refrigerant if it reaches 80% of its capacity.
- Use only DOT CFR 49 or UL-approved refrigerant cylinders for the refrigerant being recovered.
- Use recommended accessories.
- 7. Use a small filter drier on the input port and change it often to protect machine from contaminated refrigerants.
- 3. Monitor pressures and temperatures.
- Self purge MR45 after each use. No refrigerant should remain in the machine.

Tech Tips

General

- Store in the self purge or recover position. Do not store in the CLOSED position as trapped air and refrigerant can expand and damage components.
- 2. For extended storage, purge with nitrogen, set to RECOVER, and screw non-sealing caps onto the ports.
- Recovery machines are not vacuum pumps and should not be used for deep evacuations.
- Do not run the machine without the mesh screen filter (page 30).
 Doing so will void the warranty and damage the machine.
- 5. Understand the refrigerant safety data sheet (SDS).

Setup

- Know the refrigerant of the system and make sure your recovery cylinder matches that type.
- 2. Hoses:

Short as possible (3/8" hose with 1/4" fitting).

Core depressors removed.

Ball valve shutoffs instead of low loss fittings.

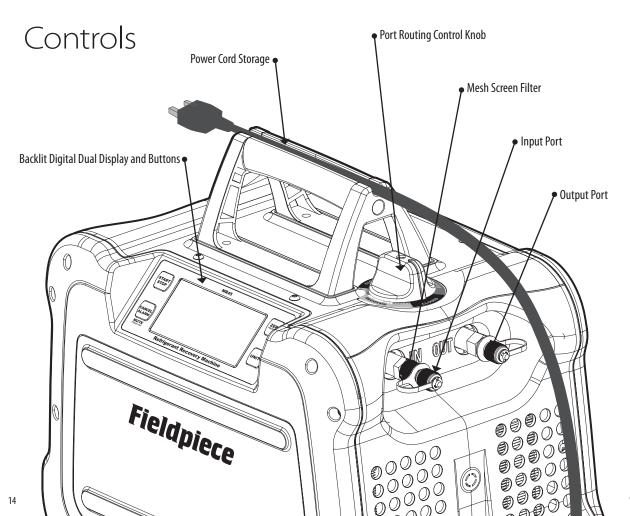
Replace if worn.

- Manifold gauges are not necessary for recovery but can make it more convenient and increase speed by having 2 system hook ups.
- Use a Schrader valve core removal tool to temporarily remove valve cores from service valves.
- 5. Use the push-pull method if recovering over 30 lbs.
- 6. Evacuate your empty recovery cylinders to 29.6" Hg before use.

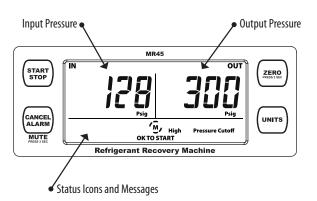
- Know how much refrigerant you expect to recover before starting.
- Ensure there's enough room in the recovery cylinder to not exceed 80% filled during the job, or monitor and have a second cylinder ready.
- Always purge hoses before recovery. If cylinder is too hot, use an ice bath to reduce the temperature and pressure of the cylinder.
- If cylinder pressure is higher than expected, you can purge noncondensables into another cylinder (page 23).

Operational

- 1. Recover as much liquid as possible before recovering vapor.
- 2. Recovery is faster when the recovery cylinder is cooler.
- 3. You can use a heat gun to warm refrigerant lines to boil trapped refrigerant.
- Recover from both suction and liquid lines at the same time for faster vapor recovery.



Display and Buttons



START/STOP

Start or Stop the motor.

ZERO (press 3 seconds)

Zero pressure sensors. Ports must be open to atmosphere.

CANCEL ALARM

Cancel alarm currently sounding (temporarily mute).

MUTE (press 3 seconds)

Toggle mute for all sounds (setting is saved).

UNITS

Select pressure/vacuum units.

Status Icons and Messages

 $\overline{\mathbf{M}}$, The icon rotates when the motor is running.

The icon is shown when MR45 is set to MUTE.

OK TO START

Motor stopped. Temperatures, voltages, and pressures are currently safe to start the motor again.

COMPLETE

Motor stopped. Purge or recovery has reached 10"Hg or 20"Hg vacuum for 10 sec.

Input Closed

Cannot zero pressures. Open input port.

Output Closed

Cannot zero pressures. Open output port.

High Voltage Warning

Motor stopped. Voltage was above 130 VAC.

Low Voltage Warning

Motor stopped. Voltage was below 95 VAC.

High Pressure Cutoff

Motor stopped. Output (cylinder) approached dangerous pressure.

Low Pressure Cutoff

Motor stopped. Input reached 10"Hg or 20"Hg vacuum for 10 sec.

Motor Fault 1

Motor stopped. Motor temp. measured above operating range.

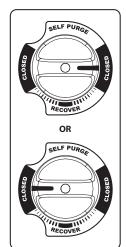
Motor Fault 2 ("throttle" shows on display)

Motor stopped. Motor current (amps) rose above operating range. Throttle RECOVERY to reduce cylinder pressure (page 19).

Motor Fault 3

Motor stopped for unknown reason.

Port Routing Control



CLOSED

- · Input and Output closed.
- Set to either closed position to close off both ports during setup.



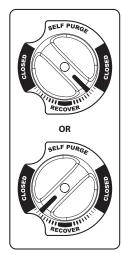
RECOVER

- · Input and Output fully open.
- Set to this fully open position for most of the recovery process.



SELF PURGE

- Input closed, Output open.
- After recovery is complete, set to this position to close the IN port before you START the purge.

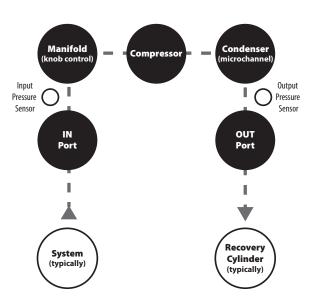


RECOVER (throttled)

- Input and Output partially open.
- Rotate away from RECOVER in either direction to reduce liquid slugging if knocking occurs. This slows the flow of refrigerant so the machine operates more smoothly.
- Only throttle as much as needed for smooth operation.

MR45 Refrigerant Flow

Refrigerant liquid and vapor are pulled through the machine by the pressure difference created by the compressor. For maximum performance, increase the IN pressure and reduce the OUT pressure. See Tech Tips (page 12).



Dynamic Pressure Measurement

MR45 pressure readings are designed only for monitoring pressures. Do not use MR45 for diagnostic pressure measurements.

If a system's pressure is stable, MR45 pressure readings will be close to your other pressure gauges.

If a system's pressure is changing, pressure measurements at different locations within that system will be different. For every 3 feet of 1/4" hose, the pressure may have a difference of approximately \pm 20 psig.

Functions

Self Test

Perform this test to ensure the high pressure cutoff and pump are operational.

- Set knob to RECOVERY.
- 2. Open IN port to air.
- 3. Connect a ball valve to OUT port. (Included caps are not sealed.)
- 4. Close the ball valve.
- 5. Press START to create a pressure at the OUT port.
- MR45 is working well if High Pressure Cutoff occurs around 550 psig within 45 seconds. Cutoff time can increase if a hose is placed in front of your ball valve.

Self Purge

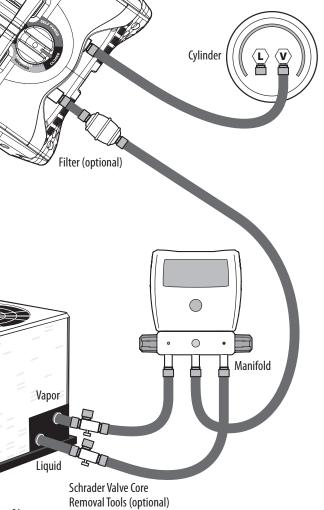
Use the SELF PURGE feature at the end of every recovery to pump the last bit of refrigerant out of MR45. Benefits include increased machine life, reduced environmental impact, and most importantly to prevent refrigerant mixing.

- After recovery is complete, set knob to SELF PURGE. This closes the IN port and routes the MR45 condenser to the intake of the MR45 compressor.
- 2. Press START to empty MR45 into the recovery cylinder.
- 3. Once 10"Hg is reached for 10 seconds, the motor stops automatically.

Purging a Recovery Cylinder

When the cylinder pressure is higher than expected you may have non-condensables at the top of the cylinder. Use a second deeply evacuated cylinder to pull out the non-condensables.

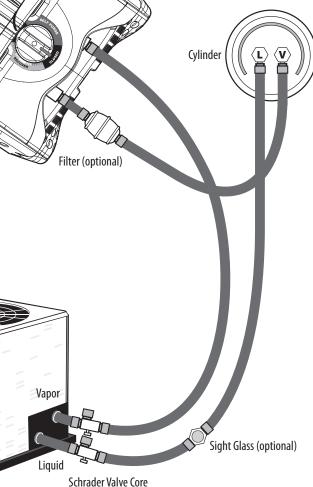
- 1. Leave pressurized cylinder undisturbed overnight.
- 2. Use a vacuum pump to evacuate another cylinder.
- Use your manifold gauges to connect the closed vapor ports of the two cylinders.
- 4. Measure the vapor temperature of the pressurized refrigerant cylinder.
- 5. Use a P/T chart or digital manifold to find specified pressure.
- 6. Open the evacuated vapor port.
- Open (purge) the pressurized vapor port until pressure is reduced to 5 psi above specified pressure.
- 8. Close valves.
- 9. If desired, repeat in 15 minutes to allow the tank to settle again.



Direct Liquid/Vapor Recovery

This is the typical recovery method. Vapor and liquid lines are routed through your manifold, into MR45, and out to the recovery cylinder.

- 1. Close valves of recovery cylinder, MR45, and manifold.
- 2. Set up as shown in the diagram.
- 3. Open valves of hoses and removal tools.
- 4. Set MR45 to RECOVER.
- 5. Open high side of manifold for liquid recovery.
- To purge air from hoses, briefly unseat hose fitting at cylinder until vapor is seen. Unseat hose fitting at low side of manifold to purge low side hose.
- 7. Fully open vapor valve of recovery cylinder.
- 8. Press START to begin recovery.
- Adjust the knob as needed to throttle refrigerant flow if liquid slugging (knocking) occurs.
- When liquid recovery is complete, open low side of manifold for vapor recovery.
- 11. MR45 stops automatically after vacuum reaches 10"Hg for 10 seconds. For a deeper vacuum, press START to continue recovery. MR45 stops again after vacuum reaches 20"Hg for 10 seconds. Press STOP to manually halt recovery at any time.
- 12. Set knob to SELF PURGE and press START to empty MR45. MR45 stops automatically after vacuum reaches 10"Hg for 10 seconds.
- 13. Close manifold and cylinder valves after self purge is complete.
- 14. Remove hoses from MR45, set knob to RECOVER, and cap ports.



Schrader Valve Core Removal Tools (optional)

Push/Pull Recovery

This method is only for larger systems with at least 30 lbs of liquid refrigerant. It's used to recover liquid before recovering vapor.

- 1. Close valves of recovery cylinder and MR45.
- 2. Set up as shown in the diagram.
- 3. Open valves of liquid hose and removal tool at liquid system port.
- 4. To purge air from system liquid hose, briefly unseat hose fitting at cylinder's liquid port until vapor is seen.
- 5. Fully open liquid valve of recovery cylinder and allow to pressurize.
- 6. Set MR45 to RECOVER.
- 7. Press START to begin recovery.
- 8. Fully open vapor valve of recovery cylinder.
- 9. To purge air from hoses briefly unseat hose fitting at vapor system port until vapor is seen.
- 10. Open valves of vapor hose and removal tool at vapor system port.
- 11. When liquid recovery is complete, press STOP to stop motor.
- 12. Close all valves and proceed to Direct Vapor Recovery (page 25).

Troubleshooting

Status Messages

Input Closed

Cannot zero the displayed pressure because pressure sensor not open to atmosphere. Open input port.

Output Closed

Cannot zero the displayed pressure because pressure sensor not open to atmosphere. Open output port.

High Voltage Warning

Voltage was above 130 VAC. Motor stopped. Ensure power network voltage is between 95 and 130 VAC @ 60 Hz.

Low Voltage Warning

Voltage was below 95 VAC. Motor stopped. Check power network to ensure voltage is between 95 and 130 VAC @ 60 Hz.

High Pressure Cutoff

Output (cylinder) reached dangerous pressure. Motor stopped. Ensure all valves after the output port are open. The cylinder may need to be cooled or replaced to reduce pressure.

Low Pressure Cutoff

Input reached final recovery vacuum. Motor stopped. It's normal to see this after RECOVERY or SELF PURGE is complete. If unexpected, ensure valves before the input port are open and the knob is not set to CLOSED.

Motor Fault 1

Motor temperature measured above operating range. Motor stopped. Extremely high ambient temperature, extended liquid recovery time, or high cylinder pressure can be the cause. Allow time for the motor to cool down before resuming, and throttle the RECOVERY (page 19).

Motor Fault 2

Motor current (amps) rose above operating range. Motor stopped. Extremely high ambient temperature, harsh liquid slugging, extended recovery time, or high cylinder pressure can be the cause. Throttle RECOVERY and start the motor. If fault occurs again, throttle even more and start the motor (page 19).

Motor Fault 3

Motor stopped for unknown reason. If this occurs repeatedly, there may be something wrong with MR45.

Other Symptoms

MR45 never reaches 10"Hg or 20"Hg vacuum during recovery or self purge.

Check for a leakage before the input port.

For 10"Hg vacuum, the recovery cylinder should be below 475psig. For 20"Hg vacuum, the recovery cylinder should be below 230psig.

Input port shows frost or signs of leakage.

Ensure the grooved input fitting is hand tight before tightening the hex nut (page 30).

Recovery is slower than normal.

There could be an input blockage. Check mesh screen filter for blockage. Ensure knob is set to RECOVER.

Display does not turn on when plugged in.

Ensure power cord and outlet are okay.

Excessive noise during liquid recovery.

MR45 is experiencing a high load. Rotate the knob of MR45 to throttle the refrigerant flow.

Maintenance

General

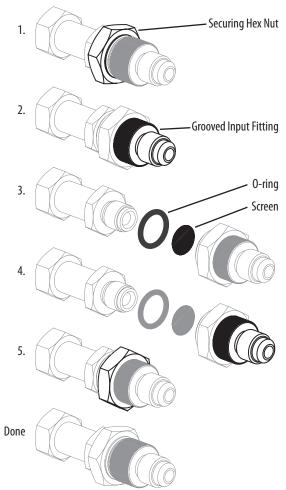
Wipe with damp cloth to clean the exterior. Do not use solvents.

To extend the life of internal seals, occasionally pump a teaspoon of mineral oil through MR45.

Mesh Screen Filter

When the mesh screen filter becomes dirty and clogged, it means it's working to keep your MR45 working well for a long time. You need to clean or replace this screen often. Visit our website for information on obtaining extra mesh screens.

- 1. Loosen (counter clockwise) the securing hex nut on the IN port.
- 2. Unscrew (counter clockwise) the grooved input fitting.
- 3. Clean or replace the mesh screen.
- 4. Hand tighten (clockwise) the grooved input fitting.
- Tighten (clockwise) the securing hex nut with 1/8 turn with a wrench.



Limited Warranty

This machine is warranted against defects in material or workmanship for one year from date of purchase from an authorized Fieldpiece dealer. Fieldpiece will replace or repair the defective unit, at its option, subject to verification of the defect.

This warranty does not apply to defects resulting from abuse, neglect, accident, unauthorized repair, alteration, or unreasonable use of the machine.

Any implied warranties arising from the sale of a Fieldpiece product, including but not limited to implied warranties of merchantability and fitness for a particular purpose, are limited to the above. Fieldpiece shall not be liable for loss of use of the machine or other incidental or consequential damages, expenses, or economic loss, or for any claim of such damage, expenses, or economic loss.

State laws vary. The above limitations or exclusions may not apply to you.

Obtaining Service

Visit **www.fieldpiece.com/rma** for the latest information on how to obtain service.

MR45

Form Approved 11/04/2011 OMB No. 2060-0256 Expires: 12/31/2017



ENVIRONMENTAL PROTECTION AGENCY REFRIGERANT RECOVERY OR RECYCLING DEVICE ACQUISITION CERTIFICATION FORM

EPA regulations require establishments that service or dispose of refrigeration or air-conditioning equipment to certify that they have acquired recovery or recycling devices that meet EPA standards for such devices. To certify that you have acquired equipment, please complete this form according to the instructions and mail it to the appropriate EPA Regional Office. BOTH THE INSTRUCTIONS AND MAILING ADDRESSES CAN BE FOUND ON THE REVERSE SIDE OF THIS FORM.

Street 12181 NE University Avenue City State Zip Code Mitchellville Iowa 50169 Country United States of America Shment. Check all boxes that apply. In appliances
City State Zip Code Mitchellville Iowa 50169 Country United States of America
Country United States of America Shment. Check all boxes that apply.
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Section G: EPA Notification of PCB Activity



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

OFFICE OF LAND AND EMERGENCY MANAGEMENT

September 24, 2019

ARTHUR KERN 12181 NE UNIVERSITY AVE MITCHELLVILLE, IA 50169

Subject: Notification of PCB Activity

Thank you for filing the Notification of PCB Activity form for the facility location listed below:

Received: September 24 2019 TSCA ID Number: IATSCA105205

Handler Name: METRO PARK EAST LANDFILL Location Address: 12181 NE UNIVERSITY AVE

MITCHELLVILLE, IA 50169

EPA's Office of Resource Conservation and Recovery (ORCR) is issuing the above TSCA identification number to the listed facility. This number may only be used for PCB-related activities and may not be used for any other regulated hazardous waste activities.

If you have also applied for a Regulated (Hazardous) Waste EPA ID number under RCRA, you may request a consolidation of your RCRA identification number and TSCA identification number upon receipt of your RCRA EPA ID number. To do so, ORCR would require confirmation of the RCRA identification number that has been assigned to you facility. A copy of the RCRA ID Assignment Form (8700-12A(6-90)) for your facility would be an example of acceptable documentation.

If you have any questions regarding the PCB waste handlers database, please contact Karen Swetland-Johnson at ORCRPCBs@epa.gov or (703)308-8421.

Sincerely,

Amanda Kohler, ORCR Permits Branch Chief

Alunh Kal

Section H: Unique Marking System

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Section I: Site Operation Plan

Appliances

1. Introduction

One of the goals of Metro Waste Authority is to provide environmentally sound and economically feasible solid waste management for Metro Waste Authority's service area. To help meet this goal Metro Waste Authority has established a white goods collection and demanufacturing program in which the program receives appliances, removes all hazardous components from appliances and recycles metal, refrigerants and other components from demanufactured appliances.

Metro Waste Authority's commitment to recycling conserves natural resources, energy and usable landfill space. A major concern in an appliance recycling effort is to prevent the release of harmful and hazardous components into the environment. Properly detailed operational procedures will eliminate contamination of soils, air, surface and ground water, as well as minimizing potential environmental, public health and Metro Waste Authority employee exposure.

This Chapter of the Appliance Demanufacturing Operation Procedures will outline all phases; from appliance acceptance, to handling, inspection, component removal, storage, and disposal of regulated materials. This Chapter ensures that proper training and regulatory procedures are implemented and enforced. This Chapter intends to comply with the Environmental Protection Agency, Iowa Department of Natural Resources, Department of Transportation/United Nations packing, labeling, storage, and shipping regulations, Workers-Right-To-Know Training and Uniform Fire Codes.

2. Program Administrator

The Program Administrator has the responsibility of administrating the Appliance Demanufacturing Program. Duties include:

- Implementing the plan.
- Reviewing and updating the written plan.
- Monitoring the workplace for compliance of the plan.
- · Arranging for or conducting training.
- Performing hazard assessments.

The Program Administrator may assign other employees to oversee parts of the Appliance Demanufacturing Program. The Program Administrator will perform periodic checks to ensure the employees who have been assigned tasks in the Appliance Demanufacturing Program are fulfilling their responsibility. The Program Administrator for Metro Waste Authority's Appliance Demanufacturing Program is the Compliance Coordinator.

3. Training

The Program Administrator oversees training new and current employees. The following training must be completed prior to an employee dismantling an appliance.

- · Identification of PCB and NONPCB ballast and capacitors.
- Acceptance procedures for receiving, offloading and handling practices.
- Identification and location of hazardous components within an appliance.
- Proper removal procedures of ballast, capacitor, freon, sodium chromate and mercury components.
- · Refrigerant type identification and removal procedures.
- Safety hazards associated with dismantling appliances including chemical hazards and Job Safety Analysis.
- · Personal Protective Equipment.
- Disposal.
- Proper unloading procedures.
- Review of the Operations Plan.
- Emergencies.
- Marking System.

4. Personal Protective Equipment

Employee safety is important while removing a hazardous component of an appliance. To protect an employee during this process the following equipment should be worn.

- Mercury, Capacitor and Ballast removal work gloves, steel-toed boots and safety glasses.
- Freon removal nitrile gloves, work gloves, steel-toed boots and safety goggles.
- Sodium chromate removal nitrile gloves, steel-toed boots, safety goggles, face shield and tyvek suit.

5. Acceptance of Appliances

Metro Park East Landfill accepts unusable appliances intended for recycling only. Sources include, but not limited to; households, businesses, municipalities and private haulers. Periodically or upon request, Landfill staff will conduct training to the above entities outlining procedures for proper handling and storage of appliances to help meet acceptance standards at the landfill. Landfill employees will also be trained on proper storage and handling procedures prior to demanufacturing.

- a. All appliances arriving at the Metro Park East Landfill must be handled in a manner that prevents any release of hazardous or regulated components into the environment. No method of handling shall allow for:
 - Damage to the case that prevents appliance disassembly.

- Cuts or ruptures to refrigerant, evaporator or condenser lines allowing for refrigerant or sodium chromate to be released.
- 3. Crushed or removed compressors.
- 4. Damage to a capacitor allowing for a release of PCB's
- 5. Damage to Mercury containing components allowing release.
- Any vehicle carrying appliances in an unprotected manner will be rejected.
- c. All vehicles delivering an appliance to the landfill must stop at the landfill scale house.
- d. Scale attendant will direct vehicle to appliance recycling staging area for off-loading.
- e. Once unloaded, all appliances should be staged in their normal operating position or in such a manner as to prevent rupture of lines or leaking of hazardous components until inspection and dismantling.
 - 1. When moving appliances to the staging area care must be taken not to rupture lines or capacitors.

6. Hazardous Component Removal

Only landfill employees that have received training as outlined in the Section entitled Training are certified to perform hazardous component removal. During the inspection and removal process it is important to remember that appliances have different intended purposes, hence different hazardous components. Differences may also occur in conjunction with "heavy-duty" or commercial appliances. As a general guideline, Table 1 includes each type of appliance and what hazardous components may be present. However, it is Metro Waste Authority's policy that the only feasible method to identify all hazardous components is inspection of each appliance.

TABLE 1 - Hazardous/Regulated Components

Appliance	Electrolyte Capacitor	Oil Filled Capacitor	Ballast	Mercury Switch	Mercury Thermo Couple	Sodium Chromate	Refrigerant	Circuit Hazard	Asbestos	Mercury Lamp
Air Conditioner		•					•			
Microwave		•						•		
Washer/Dryer										
Refrigerator/Freezer	•	•	-	•		•			•	
Fluorescent Light Fixture			•			- 3				
Hot Water Heater										
Furnace		•					-		•	
Dishwasher				•						
Dehumidifier	No.			•	1		•			
Humidifier				77.7				7		
Range/Oven					•				2.0 s	
Trash Compactor	•									
Cooling Unit				•			•			

a. Capacitor and Ballast Removal

- Regardless of PCB presence, Metro Waste Authority's policy is to remove all capacitors and ballasts to assure the recycling vendor a PCB free appliance.
- 2. There are two types of capacitors found in appliances:
 - Oil filled
 - Dry electrolyte
- 3. Appliances that may contain an oil filled capacitor(s):
 - Air conditioner (1 or more capacitors)
 - Microwave oven
 - Fluorescent light ballast
 - Copy machine
 - Furnace
- 4. Appliances predominantly containing dry capacitors:
 - Clothes dryer
 - · Washing machine
 - Refrigerator
 - Dehumidifier
 - Water cooler
- 5. Appliances, which typically do not contain a capacitor:

- Oven/Range
- Water heater
- Humidifier
- Dishwasher
- 6. Identification
 - a. Starting Capacitors A black casing (bakelite) or outer shell easily identifies starting capacitors. For a dry capacitor, the case is not hermetically sealed or totally enclosed. Dry capacitors have never been known to contain PCB's. Thus, they do not have to be handled as such.
 - Running capacitors
 Running capacitors are identified as having rectangular or oval metal casings.
- Oil filled capacitors and ballasts manufactured after 1979 have "no PCB's" stamped on the casing and may be treated as an electrolyte capacitor or ballast for disposal purposes.
- 8. Removal of capacitor
 - a. Upon locating the capacitor within a unit, always remember to discharge the capacitor prior to removal.

Caution

A high-quality capacitor can hold a charge for long periods of time.

To prevent a painful shock, the terminals of a capacitor should be shorted out before its removal.

- b. Air conditioners may have one or two oil filled capacitors. The outer cover of the unit must be removed to access the capacitor(s). One capacitor will be wired to the fan motor, the other to the compressor.
- c. Microwaves have one capacitor located directly behind the control panel and wired to the transformer. Access the capacitor by removing the outer cover next to the control panel.
- d. Always remove the screws to the clamp, which hold the capacitor in place. Never pry against the metal casing or pull on the wires from the capacitor leads. Failure to follow removal procedures may result in the rupture of the capacitor.
- Fluorescent light ballasts are located in the housing of the light fixture. You must remove the lamps and unscrew the back panel to access the ballast.
- 10. Dry capacitors are typically attached to the housing of the compressor or motor. A protective casing must be removed to access the capacitor.
- 11. Once a ballast or capacitor is removed check for the "no PCBs" stamp and for a date. If the date is prior to 1979 and the label does not indicate "no PCBs" then place the ballast in the PCB

ballast bin or place the capacitor in the PCB capacitor bin. If there is no label or no date the capacitor or ballast will be treated as if it were PCB containing. If the date is after 1979 or "no PCBs" is stamped on the label, then place the ballast in the NONPCB ballast bin and the capacitor in the NONPCB capacitor bin.

12. Record Keeping

- a. All activities performed will be recorded on the log sheet, Appendix A. Weights and counts of the ballasts and capacitors will be recorded. Once weighed and counted NONPCB capacitors can be placed in the regular waste stream, NONPCB ballast should be placed in the NONPCB ballast drum, PCB capacitor in the PCB capacitor drum and PCB ballast in the PCB ballast drum.
 - Any PCB spill or leaking capacitor or ballast will be reported and cleanup measures initiated. Only employees trained on how to properly response to a PCB spill should follow the procedures outlined in the Section entitled Emergencies.
- 13. Mark all sides of the appliance with the appropriate mark as outlined in the Section Marking System.

b. Freon Removal

- Before the removal process begins the technician must first identify the type of freon in the refrigerant unit to prevent cross contamination of refrigerants. The type of refrigerant can be found on the compressor of the refrigerant unit. Appendix B contains a reference chart when chemicals names are given.
- All equipment fittings, manifold gauges, hoses and piercing tools will be inspected for holes, cracks and a proper seal to prevent leaks.
- Prior to processing, recovery cylinders will be weighed to determine how much capacity remains. Close monitoring is necessary as the recovery cylinder approaches maximum capacity.
- For safety reasons, gross cylinder weight is determined by adding tare weight plus 80% net capacity weight. Tare weights and water capacity (WC) weights are stamped on each approved cylinder.
- 5. Evacuation process
 - a. All evacuations shall be done with the units in their normal operating position or with the face of the unit on the ground. See Appendix C for visual reference of unit positioning.
 - All freon containing units will be directed to the Demanufacturing building and allowed to warm to ambient temperature when the outside temperature drops to 45°F or less.
 - c. Once the unit is in place locate the low-pressure line on the compressor. Typically, the low-pressure line is the largest diameter line on the compressor.

- d. Acquire the appropriate size piercing tool based on the size of the low-pressure line.
- e. Secure the piercing tool to the line and attach the appropriate hose to the piercing tool. Once secured pierce the line and turn the recovery equipment on to extract the freon. The evacuation process is completed when the manifold gauge maintains a negative 10 inches of mercury vacuum.
- Record the number of units inspected and the number extracted on the log sheet.
- 6. Mark all sides with the appropriate mark as outlined in the Section Marking System.

c. Sodium Chromate Removal

- Some refrigerant units have a mixture of sodium chromate and ammonia gas as the refrigerant. Use the following procedures to remove the sodium chromate. See Appendix D for a diagram of a sodium chromate system.
- 2. Place the unit in its operating position. This will allow the sodium chromate, which is a liquid, to settle to the bottom.
- 3. Secure the unit to prevent tipping over.
- 4. Attach a piercing tool high on the unit's vent tube.
- 5. Attach hose to piercing tool and vent ammonia gas into a pan or bucket of water usually 3-4 gallons.
- Once the gas has escaped and the system is depressurized the sodium chromate can be removed. Do this by piercing the liquid heat exchanger tube and draining the sodium chromate into a sealable container.
- 7. Once drained, attach the hose on the vent tube to the air compressor. Pressurize the system to 4-8 psi.
- 8. Allow the system to drain and repressurize. Rotate the system to free any trapped sodium chromate.
- The removal process is complete once there is no more sodium chromate draining from the hose attached to the heat exchanger tube.
- 10. Mark the outside of the container with the appropriate mark as outlined in the Section Marking System.
- 11. Record the volume, weight and the number of units the sodium chromate was removed from.
- 12. The sodium chromate will be placed inside a 30 or 55-gallon drum and disposed of as hazardous waste through the contracted Disposal Facility.

d. Mercury Component Removal

 Mercury containing components are typically found in white goods in one of six ways:

- As a safety device used in pilot light thermocouples for gas appliances.
- · Chest freezer lid light switches.
- · Fluorescent light bulbs.
- Some washing machines prior to 1972 (lid stop switch or dynamic balancing switch).
- Mercury containing thermostats.
- Mercury containing relays in commercial appliances.
- Employees will be shown the location of these areas on the appliances and what the mercury devices look like during their training.
- Locate and remove the mercury component taking care not to break the device.
- 4. Mark the sides of the appliance with the appropriate mark as outlined in the Section Marking System.
- Record the number of devices, weight and the number of units inspected on the log sheet.
- 6. Place the mercury devices in the proper labeled plastic drum located in ADP Storage Area

e. Asbestos Identification and Removal

- Asbestos can be found in appliances. For example, a furnace or oven may have asbestos in wrapping or insulation.
 - a. Employees during training will be shown the type of appliances that contain asbestos and where on the appliance the asbestos can be found.
 - b. Employees will also learn what asbestos and asbestos like material looks like.
- Each high temperature appliance will be inspected for the presence of asbestos material taking care not to damage the appliance, which could allow for the release of asbestos.
- If an appliance with asbestos or asbestos like material is identified, mark the sides of the appliance with the appropriate mark as outlined in the Section Marking System.
 - No samples will be taken. Assume the material to be asbestos.
- 4. Remove any other hazardous components that may be present.
- Any appliance that is identified as asbestos containing cannot be recycled and must be landfilled. Care must be taken not to damage the appliance.
- Dispose of asbestos containing unit in accordance with IDNR permit and Metro Waste Authority's asbestos policy.
 - Paper work must be completed including grid and elevation. All paper work should be given to the Special Waste Coordinator to be filed.

7. Marking System

Upon completion of inspection and processing, all units will be marked with one or more colored SC's on all four sides of the appliance. Marks will be a minimum of 12 inches in size on main body of appliance. This code system assures the metal recycler all units have been inspected and processed. Color code the units according to the following:

- Green SC indicates unit has been inspected but no further process was performed.
- . Blue SC indicates unit has been inspected and freon was removed.
- Red SC indicates unit has been inspected and either a capacitor or ballast was removed.
- · Silver SC indicates a mercury component was removed.
- Yellow SC indicates sodium chromate was removed.
- Black SC indicates asbestos was identified.
- Orange SC indicates all refrigerants, PCB-containing articles, and Mercury-containing components have been removed.

Units are then loaded into the designated roll-off box or designated storage area for vendor pickup. It is the technician's responsibility to notify the office staff when the roll-off box or semi trailer is ready for pickup.

8. Handling of Demanufactured Appliances

Once an appliance has had all hazardous components removed and has received the unique identification mark, that appliance is considered to be scrap metal or non-hazardous solid waste.

- a. Move the material to the demanufactured appliances scrap metal pile.
- b. When a semi trailer is available load the demanufactured appliances onto the trailer.
 - 1. If any oil spill does occur stop loading the trailer and follow nonemergency response procedures for a small liquid spill.
 - All spill material must be taken to the Household Hazardous Material Facility for proper handling and disposal.

9. Storage

All hazardous components removed from appliances will be stored according to the Operational Procedures storage requirements as indicated in Chapter IV. Hazardous components from appliances are stored in the following area of the Facility:

- Mercury components 20 gallon lab packer boxes or 55 gallon POLY Fiber Drum in ADP Demanufactured storage building.
- PCB capacitors and ballast 55 gallon drums in ADP Demanufactured storage building.
- Freon cylinders in the ADP Demanufactured storage building.
 - Sodium Chromate 30 gallon drum in the ADP Demanufactured storage building.

While stored at the Facility all containers will be labeled with a drum number, DOT hazard class label and orientation arrows following the procedures outlined in the Operational Procedures.

Containers to dispose of hazardous components removed from appliances are obtained from the following businesses and/or agency:

- Drums Metro Hazardous Material Drop Off Facility in Bondurant, IA
- Plastic Buckets Metro Hazardous Material Drop Off Facility in Bondurant, IA
- Freon Containers Republic located in Davenport, IA

10. Disposal

All hazardous waste, PCBs and freon will be disposed of through the contracted disposal vendor. A list of PCB Contractors can be found in Appendix E and a list of Refrigerant Buyers can be found in Appendix F

11. Emergencies

All chemical and physical emergencies will follow the Emergency Action Plan as outlined in the Operational Procedures.

a. Equipment failure

In the event of equipment failure the recovery device should be shut down and if possible the piercing tool should remain attached to prevent freon leaking to the environment. The appliance staging area is capable of storing several days worth of appliance accumulation. All appliances should be staged in their normal operating position or in such a manner as to prevent rupture of lines or leaking of hazardous components.

Notify the Program Administrator of the break down so that parts can be order to fix the recovery unit or a new unit can be purchased. Coordination with the equipment provider allows for "loaner equipment" upon request.

All spills will be reported immediately to the Program Administrator and an Incident Report/CPAR form. The Program Administrator will make the determination if the spill is a reportable spill and if necessary notify Iowa DNR and EPA.

If a PCB spill occurs clean up and sampling to ensure adequate clean up has occurred will follow the steps in 40 CFR Part 761.130. All records of such spills will be maintained according to 40 CFR Part 761.180.

Operational Plan-White Goods Appendix A Daily Log Sheet

APPLIANCE DEMANUFACTURING TALLY SHEET

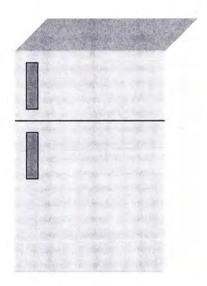
Appliance Type	Count		Type of	Refrigerar	<u>ıt</u>	
Refrig/Freezer inspected						
Containing Refrigerant		R12	R22	R134A	Other:	
Commerical Cooler inspected						
Containing Refrigerant		R12	R22	R134A	Other:	
Air Conditioners inspected						
Containing Refrigerant		R12	R22	R134A	Other:	
Dehumidifiers inspected						w
Containing Refrigerant		R12	R22	R134A	Other:	
Gas Water Heaters						
Furnaces						
Clothes Washer/Dryer						
Dishwasher						
Microwave Ovens						
Stoves						
Mercury Switches removed						
Mercury Thermocouples removed		11				
Fluorescent tubes removed						
Ammonia/Sodium Chromate inspected			V	/eight		
# inspected/Volume of A/SC removed				roigin		
PCB Capacitors Removed		2.19	小小		(B) (8)	
Non-PCB Capacitors Removed						
PCB Ballasts Removed						
Non-PCB Ballasts Removed						

Operational Plan White Goods Appendix B

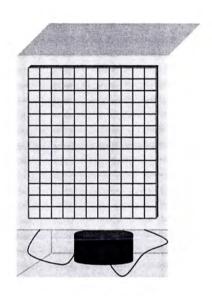
Chlorofuorocarbons (CFC)		
Trichlorofluoromethane	CCI ₃ F	
Dichlorodifluoromethane	CCl ₂ F ₂	
Trichlorotrifluoroethane	CCI ₂ FCCIF ₂	
Dichlorotetrafuoroethane	CCIF2CCIF2	
Chloropentafluoroethane	CCIF ₂ CF ₃	
Hydrochlorofluorocarbons (HCFC)		
	CHCIF ₂	
Dichlorotrifuoroethane	CHCl ₂ CF ₃	
Hydrofluorocarbons (HFC)		
1,1,1,2,-Tetrafluoroethane	CF ₃ CH ₂ F	
	Trichlorofluoromethane Dichlorodifluoromethane Trichlorotrifluoroethane Dichlorotetrafuoroethane Chloropentafluoroethane Hydrochlorofluorocarbons (HCFC) Chlorodifluoromethane Dichlorotrifuoroethane Hydrofluorocarbons (HFC)	Trichlorofluoromethane Dichlorodifluoromethane Trichlorotrifluoroethane Dichlorotetrafuoroethane CCl ₂ F ₂ CCl ₂ FCCIF ₂ CCl ₂ FCCIF ₂ CCIF ₂ CF ₃ Hydrochlorofluorocarbons (HCFC) Chlorodifluoromethane Dichlorotrifuoroethane CHCIF ₂ CH

Operational Plan White Goods Appendix C

Normal Operating Position for a Refrigeration Unit.



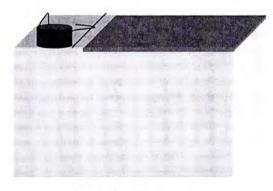
Front of Unit



Back of Unit

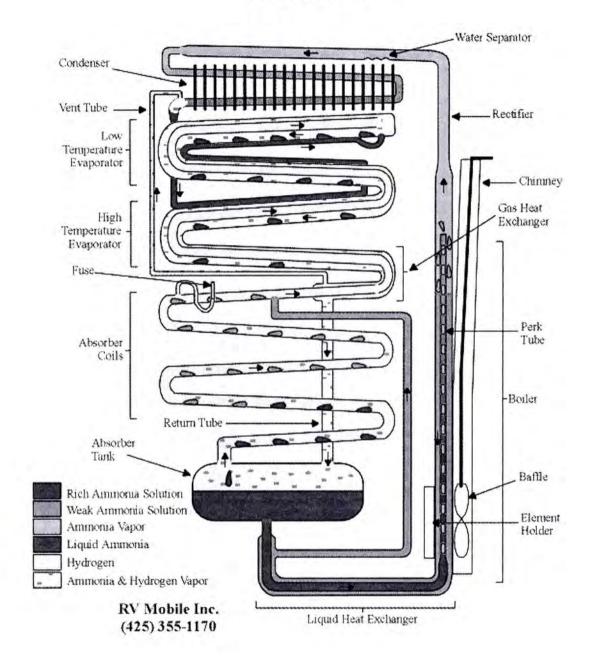
Freon Extraction Position

Back of Unit



Front of Unit on ground

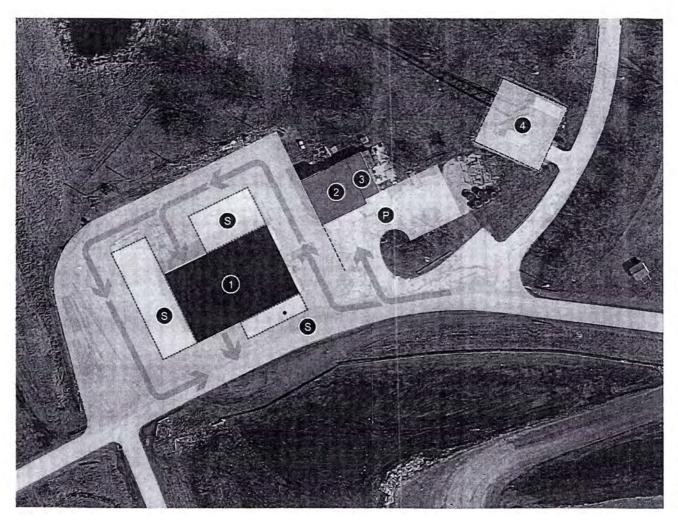
Operational Plan White Goods Appendix D



PCB Contractors White Goods Appendix E

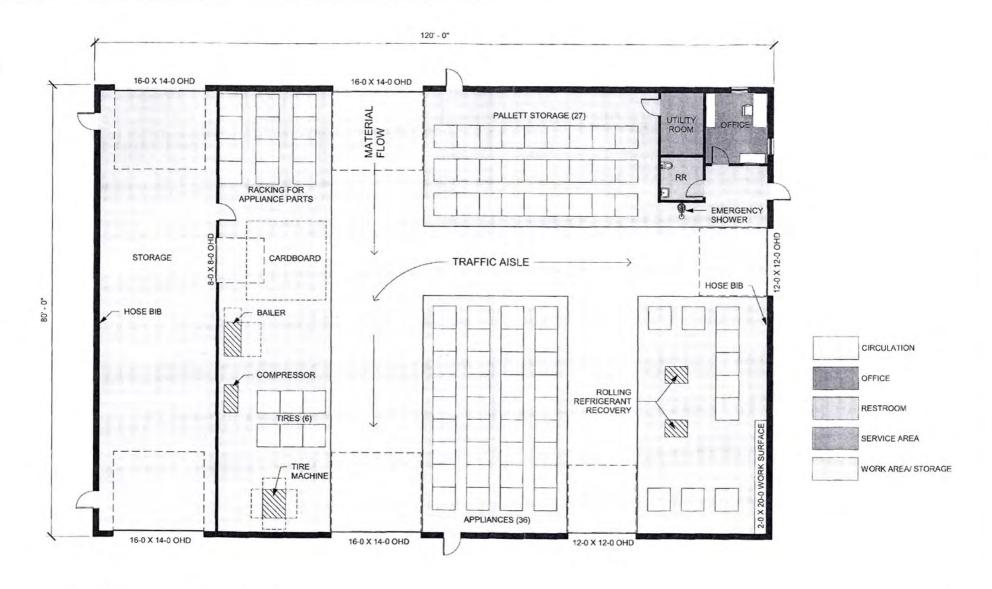
A-Tec Recycling Inc 5745 NE 17th St. Des Moines, IA 50313 515.263.3707

ATTACHMENT 1 – B Location of Appliance Demanufacturing



- Proposed Demanufactured Building
- ADP Demanufactured Storage Area
- 3 Office
- 4 сомм
- PARKING
- STAGING AREA

ATTACHMENT 1 – C Storage Location of Hazardous Components



Proposed Demanufacturing Building-Completion ETA 2020/2021

MPE CONVERSION PLAN 3/16" = 1'-0"

Section J: Contingency Plan

Contingency Plan Metro Waste Authority Metro Park East Landfill Appliance Demanufacturing

In the event the Metro Waste Authority is unable to operate their Appliance Demanufacturer process doe to unforeseen conditions. Metro Waste Authority would revert to the requirements of SDP Permit No. 77SDP-01-72P section 22 and continue to use a third party Demanufacturer.

SDP Permit No. 77SDP-01-72P section 22.

The permit holder is authorized to temporarily store white goods and scrap metal in an area designated by the operator. No discarded appliance may be stored for more than 270 days without being demanufactured. No scrap metal or discarded appliance may be stored for more than a total of twelve (12) months, including demanufacturing processing, prior to being recycled/salvaged. The operator and salvaging contractor shall comply with applicable provisions of 567 - Chapter 118 and the General Provisions of this permit. No scavenging shall be allowed.

Resources Available to MWA as Third Party Demanufacting Facilities include but are not limited to:

Pickett Salvage LLC

70 C Avenue

Paton, Iowa 50217

A-Line Iron-Metals Waterloo Inc.

1500 David St.

Waterloo, Iowa 50703

Section K: Site Closure Plan

Metro Waste Authority Metro Park East Landfill Appliance Demanufacturing Closure Plan

Facility Identification:

The Metro Park East Landfill is located on the eastern portion of the MPE site. The MPE site is located on the south side of Highway 163 and is bordered by NE 112th Street, NE 128th Street, SE 3rd Avenue, and SE 6th Avenue.

Facility Name: Metro Park East Landfill

SDP Permit No.: 77-SDP-1-72P **Owner:** Metro Waste Authority

General Legal: Part of Sections 1 and 2, Township 78 North, Range 22 West, in eastern, Towa,

containing 1,481 acres more or less

Closure Plan:

I accordance with 567—118.14(455B,455D) Appliance demanufacturing facility closure requirements. Metro Waste Authority shall submit to the Iowa Department of Natural Resources central office and the Iowa Department of Natural Resources field office with jurisdiction over the appliance demanufacturing facility written notice of intent to permanently close the facility at least 90 days before closure. To meet the closure requirements Metro Waste Authority will complete the following task and submit the supporting documents an information below:

- 1. Removal of all appliances that have not been demanufactured.
- 2. Proper disposal of all refrigerant, PCBs, mercury and all hazardous materials.
- 3. Submission of an annual report covering January through the last disposal of hazardous materials, PCBs and refrigerant.

Closure Contact Information:

Executive Director Metro Waste Authority 300 East Locust Street, Suite 100 Des Moines, IA 50309 (515) 244-0021

Section L: Proof of Financial Assurance and . Closure Cost Estimate

