

THE LIFE CYCLE OF OWTS INSPECTION

KIM SEIPP, NAWT

INTRODUCTIONS

- NAWT
 - NATIONAL ASSOCIATION OF WASTEWATER TECHNICIANS

- KIM SEIPP
 - HIGH PLAINS SANITATION
 SERVICE OWNER
 - NAWT EDUCATIONAL
 COORDINATOR
 - KASEIPPCO@GMAIL.COM
 - KASEIPPCPOW@GMAIL.COM

Introduction – Life Cycle & Principles of OWTS

Beginning of the Life Cycle – Design Principles

Mid-Life Inspection Beginning & Early Life – Installation Principles

Mid-Life – Operations & Maintenance Primary

Mid-Life – Inspection

All during the Life – Basi

After Life - Wa rinciples

Summa are and where we go from here

NAWT TRACK PLAN FOR **TODAY**



Introduction to Inspections

Defining the "System" and "Evaluation

Establishing a Protocol and Standard

Being a Professional Inspector

NAWT – MID-LIFE INSPECTIONS & PRINCIPLES

Introduction to Inspections

Defining the "System"

Juation

Introduction to Inspections Jocol and Standard

ng a Professional Inspector

NAWT - MID-LIFE INSPECTIONS & **PRINCIPLES**



WHY BOTHER?

- PROBLEMS
 - INSPECTIONS
- CONCERNS
 - ENVIRONMENT
- VALUE
- THE START
 OF MANAGEMENT



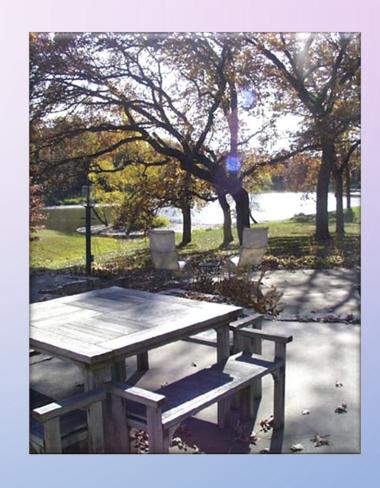


PUBLIC HEALTH

- BAD SYSTEMS~
 MAKING PEOPLE SICK
- GOOD SYSTEMS
 PROTECTING PUBLIC HEALTH

EXPECTATIONS

- BUYER:
- LIFE-TIME WARRANTY
- OWNER:
- GOOD REPORT
 - IT'S "OK"





TYPES OF INSPECTIONS

- DRIVE BY
- SURFACING EFFLUENT
- SYSTEM OPERATION
- UP TO CODE
- SYSTEM LIFE
- WARRANTY
 - YOU ARE THE RME?

INSPECTIONS

- SYSTEM OPERATION
- IDENTIFY PROBLEMS
 - COMMENTS
- CONSISTENT
 - DO ALL THE STEPS

- ACCEPTABLE
- UNACCEPTABLE





CHECK WITH YOUR STATE

- LOCAL STANDARDS
- NAWT STANDARDS
- LIABILITY
 - HONEST
 - COMPLETE
 - KNOWLEDGEABLE

efining the "System" and "Evaluation"

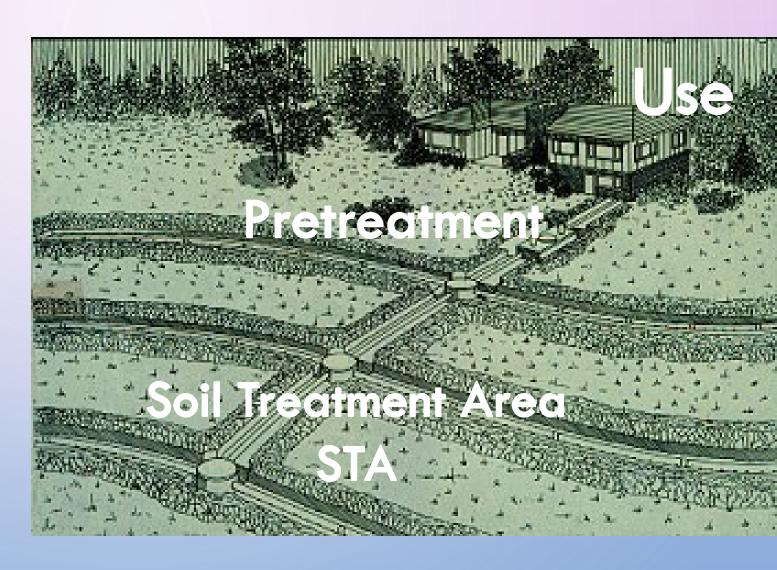
Establish: the "System" and "Evaluation"

Defining the "System" and "Evaluation"

NAWT - MID-LIFE INSPECTIONS & **PRINCIPLES**

WHY DO WE NEED TO UNDERSTAND THE WHOLE SYSTEM

- USE
- COLLECTION
- PRETREATMENT
 - SEPTIC TANK
 - ATU
 - TREATMENT FILTER
- FINAL TREATMENT & DISPERSAL
 - SOIL/SOIL SYSTEM

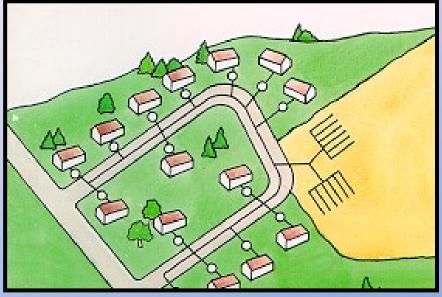


WHAT ARE DECENTRALIZED WASTEWATER SYSTEMS?

A.K.A. . . .

SEPTIC SYSTEMS
ONSITE SYSTEMS
INDIVIDUAL SYSTEMS
CLUSTER SYSTEMS
PACKAGE PLANTS
CLASS V [EPA TERMINOLOGY]





"GOOD SYSTEMS"

STANDARD

- STATE RULES
- NATIONAL
- PROCESS
 - HOW TO
 - WHAT
- GOAL
 - IN-GROUND

NAWT XI • TREATMENT

COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT

Water Quality Control Commission

ON-SITE WASTEWATER TREATMENT SYSTEM REGULATION

REGULATION #43

5 CCR 1002-43

ADOPTED: May 13, 2013

DEI ENVIRON

Unified W

Arizona Administrative Code

Title 18, Chapter 9

Article 1, 2 and 3

TROUBLESHOOTING

SPECIAL PROBLEMS:

APPLYING THE SCIENTIFIC PROCESS

Treatment Capabilities



Establishing a Protocol and Standard

B Establishing

NAWT - MID-LIFE INSPECTIONS & **PRINCIPLES**

THE PAPERWORK

COMPLETING FORMS





Page ___:__

National Association of Wastewater Transporters, Inc.

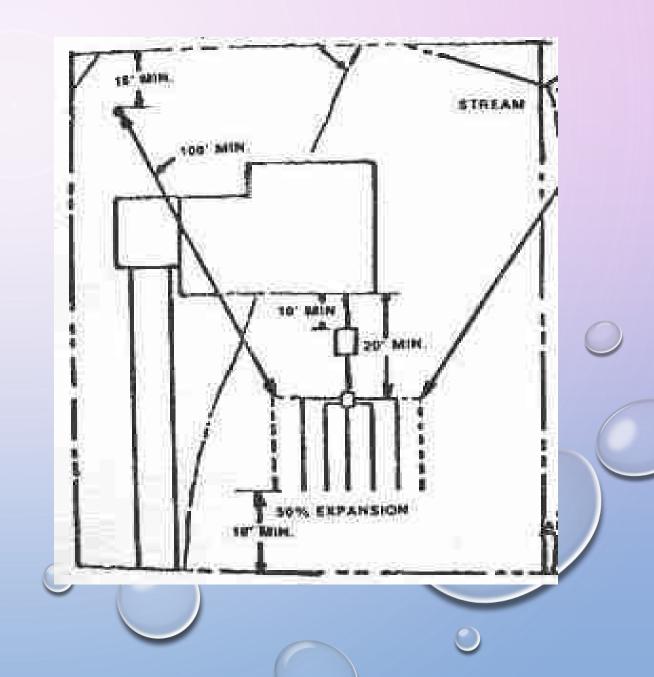
Onsite Wastewater Treatment System Inspection Report

	are: Time Scheduled:/ 20 :	an	ı pm
Send Copy to: Fa	ax to: ()		
	illing Address:	_	
Phone:	Phone:		
			wad)
A. General Information: (Obtain as much as possible when inspection ordered)			
Age of wastewater treatment system:			
Was a Homeowner Questionnaire comp		OYes .	ON_0
OWater softner OGarbage disposal O'			
In-home business: type	_	OYes .	ON_0
Flow meter:		OYes .	ON_0
2.) Number of people occupying dwelling: Cur	rently: Anticipated: _		
If currently unoccupied, for how long has it t			
3.) Number of bedrooms in dwelling:			
Design: Listing:			
4.) Has there ever been a backup in the house?		OYes .	ONo
5.) List any known repairs made to the system:			
e., zist any me-in repair made to the system.			
6.) Has the system recently been inspected by o	thers?	OYes .	ONo
If so, who? did it t		OYes	ONo
7.) Is there a service contract for system compo		OYes	ONo
		3103	3210
Company:	O Never to my knowleade		
o.) Date the treatment tank last pumper.	Oriever to my knowlegge		

COMPLETE THE FORM

- OTHER FORMS TOO
 - STATE/LPA FORMS
 - NOTICE OF INSPECTION
 - NOTICE OF TRANSFER

SKETCH THE SYSTEM CREATING A "RECORD





FIND AND SHOW ALL LOCATED COMPONENTS.

E. Checklist Summary

Pretreatment Unit 1 is in O Acceptable Pretreatment Unit 2 is in O Acceptable Comments:

 Unacceptable Unacceptable condition.

condition.

Soil Treatment area is in O Acceptable Comments:

Unacceptable

condition.

Pump and pump tank is in O Acceptable Comments:

Unacceptable

condition.

CHECKLIST SUMMARY

Introduction to Inspections

Defining the "System" pector

Establish: ofessional Inspector

L Being a Professional Inspector aluation

Scol and Standard

NAWT - MID-LIFE INSPECTIONS & **PRINCIPLES**

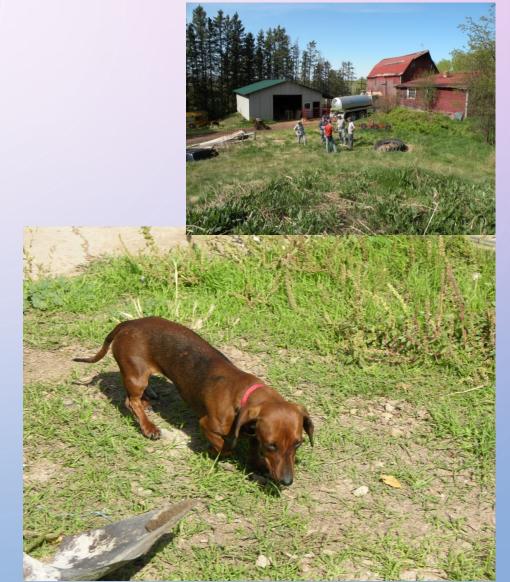
BUSINESS

• TIME

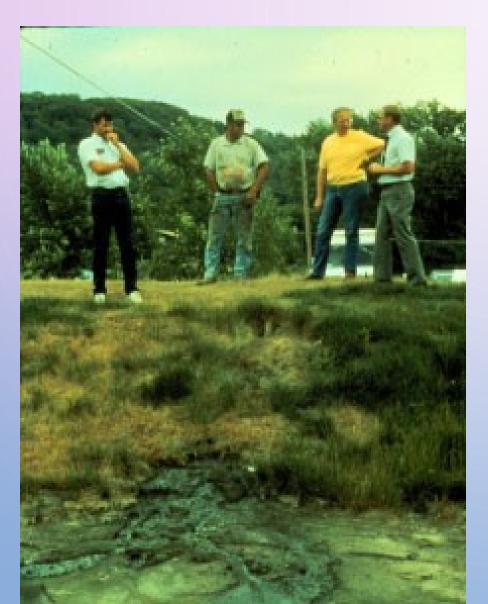
COSTS

PROFESSIONAL

YOU TRAIN YOUR CUSTOMERS



CLIENT EXPECTATIONS



- •SELLER
- •BUYER
- •FINANCE
- GOVERNMENT

COMMUNICATIONS

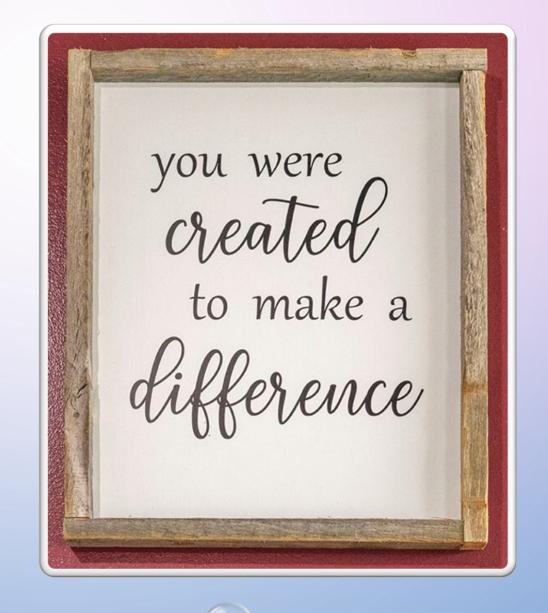
- FRONT END
- MID
- FINAL

THE INSPECTION STARTS WHEN
THE SYSTEM IS LOCATED



EDUCATOR VS. PROFESSIONAL

- EDUCATOR
- SUPPORT AND GUIDE
 - ENCOURAGE
- SETTING HIGH STANDARDS
 - BE A PROFESSIONAL
 - SETTING STANDARDS
 - COMPETENT
 - CHARACTER





Defining the "System" aluation

Establish: Sucol and Standard

a Professional Inspector

NAWT – MID-LIFE INSPECTIONS & PRINCIPLES