ENCLOSURE 1

Revised: 5/20/98

FORMS SURFACE COATING OF METAL FURNITURE INFORMATION COLLECTION REQUEST

FORM A GENERAL FACILITY INFORMATION Facility Tracking Number: _____

1.	Facility Name:					
2.	Location Address a) Street: b) City :	c) State:	d) Zip Co	de: e) County:	
3.	Corporate Owner a) Name of Corporate Owner: b) Street (Mailing Address): c) City: f) Corporate Annual Sales:	d) State:	e) Zip Coo	le:		
4.	Facility Description a) Provide a Brief Description					
	b) Dun & Bradstreet Number Number of Facility Employee f) Year Plant Originally Const	s:	e) Number	r of Facility Coating H	Employees:	d)
5.	Product Description					
	Product(s)	SIC(s)	NAICS(s)	End-Use Product	Life Expectancy (Years)	% of Total Product Produced
				9 Yes 9 No		
				9 Yes 9 No		
				9 Yes 9 No		
				9 Yes 9 No		
6.	Technical Contact a) Name: b) Technical Contact Title: c) Telephone: e) Electronic Mail Address: _		d) Facsin	nile:		
7.	Geographic Coordinates a) Latitude: ⁰ ,	" b) Lo	ongitude:0	·		
8.	Reporting Year	9 Fiscal Year	9 Calendar Year	(If not 1997, enter rea	asons on a Comm	ents Sheet)
9.	Surface Coating Category (Check all that apply.See instructions for definitions of categories.)9Auto and Light Duty Truck99Fabric9Flatwood Paneling99Metal Can99Metal Coil9Metal Furniture (see SIC Codes in instructions)9Plastic Parts9Other:					
10.	Other Regulatory Requiren a) Please indicate any other M		ich are applicable	o your Facility:		
	b) Has a LAER (Lowest Achie 9 Yes 9 No If yes, wh (Also indicate on a Comme implemented for each.)	at was the most rec	ent date that a LAI	ER Limit was institute	ed:	Mo./Year)

FORM A
GENERAL FACILITY INFORMATION

Facilit	ty Tracking Number:							
11.	 Research and Development Unit Operations a) Are Research and Development activities conducted at this facility? 9 Yes 9 No 9 Unsure b) If yes or unsure, briefly describe the activities (or activities you believe may be Research and Development) and their purpose: 							
12.	2. Pollution Prevention (complete this section only for changes implemented in the last four years) a) For each unit operation for which source reduction or in-process recycling measures have resulted in a decrease in HAP or VOC emissions, complete the following information: Name of Unit Operation: Description of Change:							
	b) If recovery or recycling of rar purchase of raw materials in the	e absence of recovery/	/recycling compare		urchase):			
	c) (Optional) Are you aware of a environmental media (water, air or solid waste)? Discuss whethe category and any experience you	r, and land) or reduced ner these alternatives c	ed total releases to a could be adapted to	all environmental means the metal furniture s	dia (e.g., reduced wastewater			
13.			9 Unkno					
14.	Facility Emissions (List individent HAP and VOC emissions)	dual HAP species em	itted at greater thar	n 0.45 Mg/year (0.50	tons/yr) and total actual			
				Emissions (Mg	g/year)			
	Pollutant	CAS Number	Reporting Year Actual	Permit Limit	Max. Design Capacity			
	НАР							
	VOC		ł	<u> </u>	 			
	, voc		ļ'	 	<u> </u>			
	L							
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FORM A GENERAL FACILITY INFORMATION

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Facility Tracking Number:

15.	Facility-Wide Product Usage					
		Total Used Facility-Wide in Reporting Year		Demonsteres of Tedal		
	Product Type	Quantity	Units	Percentage of Total Reported in Detail on Form B.		
	Coatings/Coating Components			%		
	Thinning Solvents			%		
	Cleaning Solvents (used in Coating Operations only)			%		
	Other:			%		
	Other:			%		
	Other:			%		
6.	Response Summary: 9 Plant I	9 Flow Diagram pages				
	For	Quantity				
	Form A - General Facility Information	1				
	Form B - Material Data					
	Form C - Add-on Control Device					
	Form D - Coating Application					
	Form E - Surface Preparation					
	Form F - Storage					
	Form G - Mixing Operations					
	Form H - Cleaning Operations					
	Form I - Waste and Wastewater			1		

Facilit Mater	y Tracking Number: ial Number: _ <u>MN-</u>			Sheet of
(Сор	y and fill out one for each materia ping materials.)			ctions for guidance on
1.	Material Identification a) Product Name: b) Manufacturer's/Supplier's Nam c) Manufacturer's/Supplier's Stoc d) Product Type: 9 Coating/Coating Component 9 Primer 9 Base Coat 9 Cleaning Solvent 9 Other:	ne:	9 Clear Coat 9 Other:	
2.	Material Usage a) Amount Used in Reporting Yea b) Percentage of usage for all mate Item 13). c) Is material thinned, mixed, or for Item 4.)	erials of this type:	% (Total to be re	
3.	Coating-Specific Details (Compl a) General Coating Type 9 Adhesive 9 Fabric-Specific Coatings 9 Single Component 9 Multi-Component 9 Other:	9 Catalyst 9 Wood-Specific Coatings	9 Caulk	Cosmetic Appearance
	b) Coating Technology 9 Autophoretic 9 Electrocoat 9 High Solids 9 Multi-Component 9 Plastisol 9 Other: c) Resin Type 9 Not Applicable 9 Acrylic	9 Powder	9 Dye 9 Fabric Finish 9 PVA/Starch	Wood-Specific Lacquer 9 Shellac 9 Stain 9 Varnish
	 9 Acrylic Latex 9 Acrylic, Modified Alkyd 9 Alkyd 9 Asphaltic 9 Epoxy 9 Epoxy Ester 9 Oth 	 9 Fluorocarbon 9 Polyester 9 Polyurethane 9 Urethane 9 Urethane Dispersions 		

FORM B MATERIAL DATA

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FORM B MATERIAL DATA

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Facili Mate	ity Tracking Number: rial Number: _MN-		S	Sheet	_of
4.	General Composition/Formulat a) Material Density: b) Source of Data: 9 Test Data c) Solids Content: d) Total VOC Content:	ion Data kg/lite 9 Certified Product Sheet 9 MS mass-percent mass-percent mass-percent	r SDS 9 Other: _ volume-percent		
5.	Speciated Components (List a noncarcinogens or greater than 0.1)	ll constituents which are HAPs or VOC % for carcinogens.)	C present at greate	er than 1% f	for
	Ingredient Name	CAS Registry Number	Mass Percent	НАР	VOC
				9	9
				9	9
				9	9
				9	9
				9	9
				9	9
				9	9
				9	9
				9	9
				9	9
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				9	9
				9	9

Fac Cor	ility Tracking Number:			Page 1 of 3 Sheet of				
1.	General Information							
	a) Position in Series of Controls No of	Units						
	b) Controls Emissions from Which Emission Source ID No(s).:							
	c) Describe Control System:							
	d) Pollutant(s) Collected:							
	e) Capture Method:							
	f) Capture Efficiency%	%	%	%				
	g) Control Device Efficiency:%	%	%	%				
	h) Inlet Flow Rate (acmm):	i) Pressure Drop	(kPa): Min	Max				
	j) Inlet Temperature (EC): Min.	Max.						
2.	Basis of Capture and Control Device Efficien							
	a) Capture Efficiency:							
	b) Control Device Efficiency:							
3.	Fabric Filter							
	a) Filter Surface Area (m ²):							
4.	Electrostatic Precipitator							
	a) Ash Analysis: Mass Mean Diameter (μ m): _		Resistivity (ohm-cm)	:				
	b) Type: 9 Plate-Wire 9 Flat Plate	9 Tubular 90	Other (specify on Comm	nents Sheet)				
5.	Thermal or Catalytic Incinerator							
	a) If Catalyst Used: Type		Catalyst Space Ve	elocity (1/hr):				
	b) Inlet Oxygen Content (%):	c) In	let Moisture Content (%	%):				

FORM C ADD-ON CONTROL DEVICE

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FORM C ADD-ON CONTROL DEVICE

Faci Con	lity Tracking Numl trol Device ID: <u>CD</u>	ber:			Page 2 of 3 Sheet of
	e) Actual Annual	Fuel Use:	f) Com	bustion Temperature (EC):	
	g) Total Maximur	n Firing Rate (million j	joules/hr):		
6.	Mechanical Colle	ector			
	a) Particle Density	v (kg/m ³):			
7.	Carbon Adsorbe	r			
	a) Volatile Concer	ntration Entering Unit (ppmv):b) Breakthrou	gh Capacity (kg vapor/kg carboi	n):
	c) Number of Car	bon Beds:			
d) Describe Carbon Regeneration Procedure and How Emissions are Controlled During Regeneration:					
8.	Packed or Plate (Column Absorber			
	a) Type of System	1:			
	Packed Column	b) Type of Packing:		c) Column Length (m):	
		d) Column Diamete	r (m):		
	Plate Column	e) Plate Spacing (cn	n):	f) Column Length (m):	
		g) Column Diameter	· (m):	_	
	h) Total Gas Press	sure (kPa):	i) Gas Dew Point (EC):	j) Gas Velocity (m/sec)):
	k) Additive Liquid	d Scrubbing Medium: _		l) Percent Recirculated	:
	m) Total Liquid Ir	njection Rate (l/min): _	n) Make Up Rate (l/mi	n): o) Additive (l/min):
9.	Wet Scrubber				
	a) Additive Liquid	d Scrubbing Medium:			
	b) Total Liquid In	jection Rate (l/min):	c) M	ake Up Rate (l/min):	
	d) Additive Rate ((l/min):			
10.	Condenser				
	a) Temperature of	Inlet Coolant (EC):	b) Temperature	of Condensation (EC):	
	c) Refrigeration C	apacity (joules/hr):			

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FORM C ADD-ON CONTROL DEVICE

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Facil Cont	ity Tracking Number: rol Device ID:_CD	Page 3 of 3 Sheet of			
11.	Other Control Device				
	a) Filter Media:	b) Collection Surface Area (m ²):			
	c) Fuel Used:	d) Fuel Usage Rate:			
	e) Describe any auxiliary materials introduced into the	e control system:			
12.	Monitoring				
	Describe and monitoring performed on this control de-	vice (parametric or outlet). Specify whether monitoring is the			
	result of a permit condition, as well as the averaging	time:			

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 Sheet _____ of _____

1.	 Description and Location a) Description of Coating Application Unit Operations:								
	 b) Location ID: In the Plant Layout Diagram c) ID No.: In the Flow Diagram 								
2.									
3.		in this Unit (Include Adhesives and Caulks as coating							
	Coating ID	General Type of Coating	Average Thickness Applied	Resin Type	1997 Usage (liters)				
		9 Primer 9 Base Coat 9 Top Coat 9 Other (describe):							
		9 Primer 9 Base Coat 9 Top Coat 9 Other (describe):							
		9 Primer 9 Base Coat 9 Top Coat 9 Other (describe):							
		9 Primer 9 Base Coat 9 Top Coat 9 Other (describe):							
		9 Primer 9 Base Coat 9 Top Coat 9 Other (describe):							
		9 Primer 9 Base Coat 9 Top Coat 9 Other (describe):							
		9 Primer 9 Base Coat 9 Top Coat 9 Other (describe):							
4.	Regulation of Adh Are any of the adhe	nesive Usage esives currently used by your facility regulated by any othe	er regulation; if so, list th	e regulatory standard?					

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Ant. Ant. Ant. Ant. Ant. Image:		by this Coating	Application Unit Operation	1		Co	ating	g Req	uiren	ients	for tl	he Pa	rt/Pr	oduct	: (Che	eck al	l that	appl	y)		
	Part/Product Name	Surface Area of the Metal Substrate being Coated (Square meters/	Specific Substrate Type	Water Resistance	Dielectric Strength	Resistance to Ionic Passage	Chemical Resistance	Proper Adhesion	Abrasion Resistance	Ability to Expand/Contract	Weather Resistance	Resistance to Dirt Pickup	Bacteria and Fungi Resistance	Appearance	Age Resistance	Easy Application	Extreme Temperature Resistance	Radiation Resistance	Resistance to Soil Stress	Friction Resistance	
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Facility Tracking Number: _____ Coating Application ID: <u>CA-____</u> Of _____

Page 5 01 4 Sheet _____ of _____

6.	Coating Application Unit C		ent Equipmo	ent	-		-		<u>Sileet</u>	
	Component Type/IDs (Cross Reference Flow	Equipme	ent	Number in				Emissi	ons (Mg/yr)	
	Diagram where applicable)	Manufacturer	Model No.	Application Unit Operation		on Control ice ID No.	Pollutant	1997 Actual	Permit Limitation	Max. Design Capacity
	Capture Devices						Total HAP			
							Total VOC			
	Application Devices						Total HAP			
							Total VOC			
	Flash-off Tunnels/Areas						Total HAP			
							Total VOC			
	Curing/Drying Ovens						Total HAP			
							Total VOC			
	Other:						Total HAP			
							Total VOC			
7.	Waste and Wastewater Ger	neration								
	Waste Type		Qua	ntity Generated		Total	HAP Concent	ration	Total VOC C	oncentration
	9 Wastewater			lite	ers/year			mg/L		mg/L
	9 Sludge			Ν	/lg/year			mg/kg		mg/kg
	9 Waste Solvent			lite	ers/year			mg/L		mg/L
	9 Other:									

Facility Tracking Number:	
Coating Application ID: <u>CA-</u>	Of

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Collocation Insert for Miscellaneous Plastic Parts (MMP) and Miscellaneous Metal Parts (MMP)

8. **Provide additional information for each plastic part coated in this unit:**

0.	1 Toviac additional ini	or mation for each plast			
	Part/Product Name	Part Shape	Longest Dimension (units)	Flexible or Rigid?	Interior or Exterior?
	Identify your coatings	(including adhesives, ca	aulks, etc.) applied in this unit operation:		
	Coating ID	Number of Coats	Performance Specifications	Regulatory	Specifications
0.	Describe how the coat	ings are applied in this u	init operation:	L	
	Spray Booth Description	Conveyance	Enclosure	Vent	PM/Overspray Control
					1

FORM E SURFACE PREPARATION

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	y Tracking Number: e Preparation Unit Operat	ion ID:	SP-						Sheet	_of
1.	Description and Location a) Description of Surface b) Location ID: c) ID No.:	Prepara	ation (Ir n the I	(unit) Operation the Plant Lay Flow Diagram	n: out Diagr	am				_
2.	Surface Preparation De	scriptio	on							
	 a) Identify Activities 9 Blasting 9 Bleachir 9 Solvent Dipping (Deter 9 Other: 	rgent-Ba	ased C	Cleaning) 9	Solvent	Dip	oping (Parts C			
	b) Describe in detail th	e Surfa	ce Pr	eparation Op	eration:					
3.	Equipment, Tools, and	Throug	ghput	:						
							Throug	hput (Indic	ate Units)	
	Tools/ Equipment Use Surface Preparatio		De	escription of v being Prepa			Hourly Max. Design Capacity	Actual Annual (units)	Descrip of Un	
4.	Materials Used: (Cross-	referenc	e the	Product Num	ber from l	Fori	m B - Materia	al Data.)		
	Tools/Equipment Used	Mate II		Material Used	HAP Conter g/l		VOC Content g/l	Annual	Amount U	Jsed

FORM E

Facility Tracking Number:

Pollutant

Total HAP

5.

6.

SURFACE PREPARATION

Surface Preparation Unit Operation ID: SP-Sheet of Solvent-based Surface Preparation Materials Containing HAP Material: a) Have alternative surface preparation methods been investigated? 9 Yes 9 No b) Have alternative to solvent-based and or HAP-containing materials been investigated? 9 Yes 9 No c) What was your assessment of these alternatives? **Estimated Emissions and Emission Limitations:** Estimated Emissions (kg/yr) CAS No. **Reporting Year Permit Limitations** Max. Design Capacity Actuals ----------

Total VOC **Emissions Capture and Add-on Control:** 7 Add-on Add-on Control Unit Capture Capture **Tools/Equipment Operation ID** Device(s) Efficiency **Device ID(s)** CD-CD-CD-CD-CD-CD-

8. Effect of Surface Preparation on Subsequent Surface Coating Operations: Do the techniques or materials used in this surface preparation operation limit or enhance the type of surface coating technique or material that can be used? Please explain and indicate any increase or decrease in surface preparation or surface coating emissions. Use the Comments Sheet if necessary. For example, a facility may switch from using metal sheets that required cleaning before coating to metal sheets covered with a protective oil which does not need to be removed before painting. However, the coating that is required for use with the oil covered metal has a higher HAP content than the coating used previously. The change resulted in a cost reduction in the surface preparation operation and a reduction in overall emissions from the combined operations - surface preparation and coating application.

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1.	b) Location II	n of Storage Ur D:	nit Operation: In t In the Flow	he Plant Layo	ut Diagram				_		
2.	9 1-gallo	on cans	tings/coating co 9 5-gallon cans	9 55-ga	allon drums	9 100-gallon t	otes 9 Sto	rage Tanks (dese	cribe below)		
3.	Storage Tanl	k Parameters								1	
	Tank ID(s)	Material Stored	Tank Orientation	Tank Diameter	Capacity (specify	Estimated Annual Through- put (specify	Location	Temp- erature	Floating Roof	Emissi the Rej Year i	nated ons (fo porting n mass its)
	1D(3)	Stored	Orientation	Diameter	units)	units)	Location	erature	KUUI	Total HAP	Tota VO
	TK-		9 Horizontal 9 Vertical				9 Indoor 9 Outdoor 9 Underground	9 Controlled (EC) 9 Ambient	9Internal 9External		
	TK-		9 Horizontal 9 Vertical				9 Indoor 9 Outdoor 9 Underground	9 Controlled (EC) 9 Ambient	9Internal 9External		
	TK-		9 Horizontal 9 Vertical				9 Indoor 9 Outdoor 9 Underground	9 Controlled (EC) 9 Ambient	9Internal 9External		
	TK-		9 Horizontal 9 Vertical				9 Indoor 9 Outdoor 9 Underground	9 Controlled (EC) 9 Ambient	9Internal 9External		

Facility Tracking Number			WIIAING UI EKATI	0113	1 age 1 01 2		
 Facility Tracking Number: Mixing Unit Operation ID: <u>MS -</u>						Sheet _	of
Description and Location: a) Description of Mixing Unit Oper Location ID: I c) ID No.: In	ration: In the Plant Lay	yout Diagram			b)		
Mixing Equipment							
			Emission Capture De			Estimated Emissio Ye	
Equipment Type Description	Number of this type	Capacity (Specify Units)	Туре	% Eff.	Integrated Emission Controls (cover, etc.)	Total HAP (Specify Units)	Total VOC (Specify Units)

FORM G MIXING OPERATIONS

FORM G MIXING OPERATIONS

Facility Tracking Number: _____ Mixing Unit Operation ID: MS -Sheet of _____ 3. Emission Capture and Add-on Control Devices a) Is capture of emissions by mixer or for the room? 9 Mixer 9 Room b) Exhaust is vented to? 9 Atmosphere 9 HVAC System 9 Control Device (ID No. _____) 9 Other ______) c) Provide the exhaust flowrate (acmh): d) If emissions are vented to an add-on control device, which one(s): Mixing/Formulation/Thinning of Components to Yield "As-Applied" Coatings **Components (Cross-reference Material Data Form B)** Coating "As-Applied" Coatings **Final Yield** Operation Resin Catalyst Solvent Other Pot Life Application (Specify Description (Hours) ID(s) Units) Qty. and Qty. and Qty. and Qty. and ID ID ID Description ID ID units units units units 9 Mixing MN-MN-MN-MN-AC-9 Formulation 9 Thinning 9 Mixing MN-MN-MN-MN-AC-9 Formulation 9 Thinning 9 Mixing MN-MN-MN-MN-AC-9 Formulation 9 Thinning MN-9 Mixing MN-MN-MN-AC-9 Formulation 9 Thinning 9 Mixing MN-MN-MN-MN-AC-9 Formulation 9 Thinning

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FORM H CLEANING OPERATIONS

(For Purposes Other than Surface Preparation)

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	ty Tracking Number: ing Unit Operation ID:_EC		Page 1 of 3 Sheet of							
1.	Description and Location:									
	a) Description of Cleaning Unit Operation	on:								
	b) Location ID: In the Pla	ant Layout Diagram								
	c) ID No.: In the Flow D	iagram								
	d) Associated Operation(s):									
2.	Type of Cleaning Operation									
	9 Spray Gun Cleaning - Automated Encl	osed Cleaner 9 Spray Gun Cleaning - Manu	al, Open Vat							
	9 Spray Gun Cleaning - Other (Describe	\$):								
	9 Paint Line Flushing 9 Mix	ing Tank Cleaning 9 Storage Tank	Cleaning							
	9 In-place Cleaning of Roll-coater Equip	ment (including rollers, paint trays)								
	9 Roll-coater Parts (removed from the co	pater for cleaning purposes)								
	9 Spray Booth Cleaning 9 Pair	t Hook Cleaning								
	9 Parts Cleaning Not Covered in Form E (Describe):									
	9 Other (Describe): 9 Other (Describe):									
3.	Materials Used: (Cross-reference data	a in Form B, Material Data)								
	Cleaning Material	Manufacturer (if a brand-name product) Usage (l/yr)							

FORM H CLEANING OPERATIONS

(For Purposes Other than Surface Preparation)

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Facili Clean	ty Tracking Number: ing Unit Operation ID:_EC		_	Sh	Page 2 of 3 neet of
4.	Pollution Prevention				
	a) Have alternatives to solvent-based of	eleaners been investigate	d? 9 Yes	9 No	
	b) Have alternative solvents been inve	stigated?	9 Yes	9 No	
	c) Have work practice or housekeeping	g activities been investig	ated? 9 Yes	9 No	
	d) What was your assessment of these	alternatives?			
5.	Emissions	T	1		
	Pollutant	CAS No.	E	missions (kg/y	r)
	Tonutant	CAS IN.	Reporting Year Actual	Permit Limitation	Max. Design Capacity
	Total HAP				
	Total VOC				

FORM H CLEANING OPERATIONS

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(For Purposes Other than Surface Preparation)

	ty Tracking Number: ing Unit Operation ID:_EC		Page 3 of 3 Sheet of
6.	Emissions Capture and Control		
	Capture Device	Control Device ID No.	Equipment (IDs) Within Capture Device
7.	If rags or wipes are used in conjunction wit disposal of used rags and wipes:	th this operation, describe the	handling, storage, and

FORM I WASTE AND WASTEWATER

Facility Tracking Number: _

a) Waste Type	b) Quantity Generated	c) Is this waste treated on- site?	d) Are air emissions controlled?	e) Sources of Waste (Operation IDs)	f) Estimated Total HAP emissions for reporting year	g) Estimated Total VOC emissions for reporting year
9 Wastewater	l/yr	9 Yes 9 No	9 Yes 9 No			
9 Sludge	kg/yr	9 Yes 9 No	9 Yes 9 No			
9 Waste Solvents	l/yr	9 Yes 9 No	9 Yes 9 No			
9 Waste Coatings	l/yr	9 Yes 9 No	9 Yes 9 No			
9 Other (describe)		9 Yes 9 No	9 Yes 9 No			
. Mode of wastewater tran 9 Open Trench 9 Other (describe):	-	9 Closed Pipe	9 Holding	Tank	<u> </u>	

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Comments Sheet

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Facility Tracking Number: _____ Form _____ Sheet _____

Comment Sheet _____ of ____