Form 1.1 SYSTEM DESCRIPTION (SD)

(This form is used for the initial system evaluation for the facility and the site. It should be kept on file, and a copy should accompany the service provider at each O&M service visit. Any changes to the system facility should be recorded on the form, along with the date the change was noted.)

A. Client Contact In	nformation					
Name of owner:			Syst	System ref. #:		
Phone:				R:	Sec:	No.:
Cell:		E-mail:				
Site address/County:						
Mailing address/County	y (if different):					
Directions to site:						
B. System Documer	ntation Available (If no o	documentation, fill	l out Sec	tion D.)	
Date installed:						
nstaller:			Lice	ense #:_		
	Cell:			:		
			Lice	ense #:_		
Phone:	Cell:		Fax	<u> </u>		
E-mail:						
Previous service provid	er:		Lice	ense #:_		
Phone:	Cell:		Fax	:		
E-mail:						
Design flow:	Gal per day					
	om per umy					
C. Operational Che	cklists					
Identify operational che	ecklists for components inclu r in the spaces provided after		nber the	compo	onents of	the
Form 4.1 Site Asse	essment on File?	□ No				
Tanks and advance	ced treatment component o	perational check	lists (Ch	apters	5, 6 and	7):
☐ Pump: Dem	and-Dosed system:	☐ Aero	bic trea	tment u	nit:	
•	er-Dosed system:				d:	
•	k:				'	
-	n/Processing (tank):	_			Chlorine:	
☐ Pump tank(s	s):				Jltraviole	
☐ Media filter			nfection			

	System ref. #:	
Fin	nal treatment and dispersal component operational checklists (Chapter 8):	
	☐ Gravity Distribution: ☐ Drip distribution system	·
	☐ Evapotranspiration bed: ☐ Spray distribution system	n:
	☐ Mound system: ☐ Discharging systems out	tfall:
	☐ Low-pressure drainfield:	
D.	No System Documentation Available	
Coi	mplete the remaining information if it is not available in the permit or as-built drawing	<i>5</i> S.
Fac	cility Details	
1.		
2.		sq ft
3.	1	
	Design flow:	gpd
5. 6.		FOG (mg/L)
0.	□ Private water supply	
7	☐ Public water supply Water source (if private supply): UULateral dis	stance to water supply
/.		
	□ Spring:	ft
0	Surface water (i.e. creek, lake, etc.):	ft YesNo
o. 9.		Yes No
-	·	YesNo
Sys	stem Details	
1.	Site	
	a. Landscape position:	
	 b. Drainage: □ Surface/gravity □ Subsurface/gravity c. Monitoring well present? □ Subsurface/gravity 	YesNo
2.	Pretreatment components - Tanks	
	a. Holding tank	
	1) Capacity:	gal
	2) Material: ☐ Concrete ☐ Fiberglass ☐ Plastic	
	i) Manufacturer:	Vog No
	3) Access to surface?4) Location (GIS):	YesNo
	T) Location (GIS).	
	b. Septic tank /Trash tank	
	1) Capacity (total):	gal
	/ 1	YesNo
	ii) Capacities for compartmented system: 1)	gal 2)gal
	2) Material: ☐ Concrete ☐ Fiberglass ☐ Plastici) Manufacturer: ☐	

	5	System ref. #:	
3)	Access to surface?		YesNo
	Location (GIS):		/ V N
3)	Effluent screen? i) Manufacturer:	Model:	YesNo
	i) Manufacturer	Model.	
	ow equalization tank (surge, etc.)		17
	Capacity:		gal/i
	Material: ☐ Concrete ☐ Fiberglass ☐ Plastic		
,	Access to surface?		YesNo
	Location (GIS):		/
5)	Pump tank:		N.A
6)	i) Manufacturer:		N A
0)	Pump: i) Manufacturer:	Model:	N.A
7)	Pump operating condition	Model.	111 ,
')	i) Discharge Rate:		gal/mi
	ii) Head:		gai/iiii
8)	Control method		
-)	i) Sensors: □ Floats □ Pressure transducer	Ultrasonic	
	ii) Description:		
9)	Pump dose settings		
- /	i) Frequency		doses/day
	ii) Interval		sec/dose
	iii) Volume		gal/dose
10	Control panel		
	i) Manufacturer:	Model:	
11	Electrical		
	i) Separate circuits (pump, alarm)?		YesNo
10	ii) Breaker size:		
12) Alarm		
	i) Manufacturer:		
	ii) Sensors: □ Floats □ Pressure transducer		
	iii) Description:		
	sing pump tank		
	Capacity:		gal/i
2)	Material: \square Concrete \square Fiberglass \square Plast	ic	
3)	Access to surface?		YesNo
	Location (GIS):		/
5)	1		N.A
۷)	i) Manufacturer:		N.A
6)	Pump:	Model:	
7)	i) Manufacturer:Pump operating condition	wiodei	пг:
1)	i) Discharge Rate:		gal/mi
	ii) Head:		gai/iiii ft
8)	Control method		1
0)		□ Ultrasonic	
	· · · · · · · · · · · · · · · · · · ·		
9)	ii) Description:Pump dose settings		
7)	i) Frequency:		doses/day
	-, 110quenej.		aosesi aay

	Syst	em ref. #:	
	ii) Interval:		_ sec/dose
	iii) Volume:		gal/dose
	10) Panel for sensors		- 0
	i) Manufacturer: M	odel:	
	11) Electrical		
	i) Separate circuits (pump, alarm)?	Yes	No
	ii) Breaker size:		
	12) Alarm		
	i) Manufacturer:		
	ii) Sensors: □ Floats □ Pressure transducer □iii) Description:		
. Pro	etreatment components – advanced		
a .	Aerobic treatment unit (ATU)		
	1) Treatment method:		
	☐ Suspended growth ☐ Attached growth ☐ Rotating B:	iological Contactor	
	☐ Combination attached/suspended growth ☐ Sequencing	=	
	Other:		1
	2) Capacity:		gpd
	3) Material: \square Concrete \square Fiberglass		
	i) Manufacturer: M	lodel #:	
	ii) Product serial #:		
	4) Access to surface?	Y es	No
	5) Location (GIS):		/
	6) Effluent screen / Tertiary filter		
	i) Manufacturer:		
	i) Air supply method: ☐ Aspirator ☐ Compressor		
	ii) Manufacturer: M		
	8) Sludge return method:		
b.	Single pass filter		
	1) Media: \square Sand \square Glass \square Foam \square Peat	☐ Other:	
	i) Media depth:		in
	ii) Liner material:		
	2) Filter size:		sq fi
	i) Dimensions:		ft x
	ii) Accessibility: □ Buried □ Free Access □	Covered	
	iii) Cover material:		
	iv) Lid insulated?	Yes	No
	, ,		i
	, <u> </u>	Other:	
	iii) Flow control diameter:		ir
	,		111
			in
		nber Ves	
	4) Filtrate collection system:	100	
	vii) Clean out access to surface?		i i No

		System ref. #:			
c.	Rec	circulating Filter			
	1)		Other:		
	-)	i) Media depth:			in
		ii) Liner material:			
		iii) Recirculation method:			
	2)	Filter size:			
		i) Dimensions:		_ft x _	f1
		ii) Accessibility: ☐ Buried ☐ Free Access			
		iii) Cover material:			
	2)	iv) Lid insulated?	Yes_	No_	
	3)	Distribution method i) Ping diameter:			in
		i) Pipe diameter:			
		ii) Flow control: \square Orifice \square Spray nozzle \square Other:			
		iii) Flow control diameter:			in
		iv) Number of flow controls (orifices, nozzles, etc.):			
		v) Squirt height/Operating head: vi) Clean outs/Inspection ports: Number			in
		vi) Clean outs/Inspection ports: Number	_Yes_	No_	
	4)	vii) Clean out access to surface?	Yes_	No_	
		Filtrate collection system: Forced aeration:			NI A
	3)	i) Description:			_1 N.A.
d.	Tric	ckling filter			
		Media: □ Gravel □ Foam □ Textile □ Plastic □ Other:			
		Media: □ Gravel □ Foam □ Textile □ Plastic □ Other: i) Media depth:			
	1)	Media: □ Gravel □ Foam □ Textile □ Plastic □ Other: i) Media depth: ii) Liner material:			in
		Media: □ Gravel □ Foam □ Textile □ Plastic □ Other:			in _sq ft
	1)	Media: □ Gravel □ Foam □ Textile □ Plastic □ Other: i) Media depth: ii) Liner material: Filter size: i) Dimensions:			in _sq ft
	1)	Media: □ Gravel □ Foam □ Textile □ Plastic □ Other: i) Media depth: ii) Liner material: Filter size: i) Dimensions: Distribution method		_ft x _	in _sq ft ft
	1)	Media: □ Gravel □ Foam □ Textile □ Plastic □ Other: i) Media depth: ii) Liner material: Filter size: i) Dimensions: Distribution method i) Pipe diameter:		_ft x _	in sq ft ft in
	1)	Media: Gravel Foam Textile Plastic Other: i) Media depth: ii) Liner material: Filter size: i) Dimensions: Distribution method i) Pipe diameter: ii) Flow control: Orifice Spray nozzle Other:		_ft x	in sq ft ft in
	1)	Media: □ Gravel □ Foam □ Textile □ Plastic □ Other: i) Media depth: ii) Liner material: Filter size: i) Dimensions: Distribution method i) Pipe diameter:		_ft x _	in sq ft ft in
	1)	Media: Gravel Foam Textile Plastic Other: i) Media depth: ii) Liner material: Filter size: i) Dimensions: Distribution method i) Pipe diameter: ii) Flow control: Grifice Spray nozzle Other: Orifice position:		_ft x	in sq ft ft in
	1)	Media: Gravel Foam Textile Plastic Other: i) Media depth: ii) Liner material: Filter size: i) Dimensions: Distribution method i) Pipe diameter: ii) Flow control: Grifice Spray nozzle Other: Orifice position: iii) Flow control diameter: iv) Number of flow controls (orifices, nozzles, etc.): v) Squirt height/Operating head:		_ft x _	insq ftftininin
	1)	Media: Gravel Foam Textile Plastic Other: i) Media depth: ii) Liner material: Filter size: i) Dimensions: Distribution method i) Pipe diameter: ii) Flow control: Grifice Spray nozzle Other: Orifice position: iii) Flow control diameter: iv) Number of flow controls (orifices, nozzles, etc.): v) Squirt height/Operating head: vi) Clean outs/Inspection ports: Number	Yes	_ft xNo	insq ftftininin
	1)2)3)	Media: Gravel Foam Textile Plastic Other: i) Media depth: ii) Liner material: Filter size: i) Dimensions: Distribution method i) Pipe diameter: ii) Flow control: Orifice Spray nozzle Other: Orifice position: iii) Flow control diameter: iv) Number of flow controls (orifices, nozzles, etc.): v) Squirt height/Operating head: vi) Clean out access to surface?	Yes	_ft x _	insq ftftininin
	 1) 2) 3) 4) 	Media: Gravel Foam Textile Plastic Other: i) Media depth: ii) Liner material: Filter size: i) Dimensions: Distribution method i) Pipe diameter: ii) Flow control: Orifice Spray nozzle Other: Orifice position: iii) Flow control diameter: iv) Number of flow controls (orifices, nozzles, etc.): v) Squirt height/Operating head: vi) Clean out access to surface? Filtrate collection system:	Yes_ Yes_	_ft xNoNo_	insq ftftininin
	1)2)3)	Media: Gravel Foam Textile Plastic Other: i) Media depth: ii) Liner material: Filter size: i) Dimensions: Distribution method i) Pipe diameter: ii) Flow control: Orifice Spray nozzle Other: Orifice position: iii) Flow control diameter: iv) Number of flow controls (orifices, nozzles, etc.): v) Squirt height/Operating head: vi) Clean out access to surface?	Yes_ Yes_	_ft xNo	insq ftftininin
	1) 2) 3) 4) 5)	Media: Gravel Foam Textile Plastic Other: i) Media depth: ii) Liner material: Filter size: i) Dimensions: Distribution method i) Pipe diameter: ii) Flow control: Grifice Spray nozzle Other: Orifice position: iii) Flow control diameter: iv) Number of flow controls (orifices, nozzles, etc.): v) Squirt height/Operating head: vi) Clean outs/Inspection ports: Number Vii) Clean out access to surface? Filtrate collection system: Forced aeration: i) Description:	Yes_ Yes_	_ft xNoNo_	insq ftftininin
e.	 1) 2) 3) 4) 5) Corr	Media: Gravel Foam Textile Plastic Other: i) Media depth: ii) Liner material: Filter size: i) Dimensions: Distribution method i) Pipe diameter: ii) Flow control: Grifice Spray nozzle Other: Orifice position: iii) Flow control diameter: iv) Number of flow controls (orifices, nozzles, etc.): v) Squirt height/Operating head: vi) Clean outs/Inspection ports: Number vii) Clean out access to surface? Filtrate collection system: Forced aeration: i) Description:	Yes_Yes_	_ft xNoNo_	insq ftftininininin
e.	1) 2) 3) 4) 5)	Media:	Yes_Yes_	_ft xNoNo_	insq ftftininininin
e.	 1) 2) 3) 4) 5) Corr	Media: Gravel Foam Textile Plastic Other: i) Media depth: ii) Liner material: Filter size: i) Dimensions: Distribution method i) Pipe diameter: ii) Flow control: Orifice Spray nozzle Other: Orifice position: iii) Flow control diameter: iv) Number of flow controls (orifices, nozzles, etc.): v) Squirt height/Operating head: vi) Clean outs/Inspection ports: vii) Clean out access to surface? Filtrate collection system: Forced aeration: i) Description: mstructed wetland Bed media: None Gravel Other: i) Number of cells:	Yes_Yes_	_ft xNoNo_	insq ftftininininin
e.	 1) 2) 3) 4) 5) Corr	Media:	YesYes	_ft xNoNo_	insq ftsq ftinininin

sq ft ft x ___ft

v) Border material:

Dimensions:

2) Size:

	•	ii) Length to width ratio:			:
	3)	Distribution method			
		i) Pipe diameter:			11
		ii) Flow control: \square Orifice \square Spray nozzle	Other:		
		Orifice position:			
		iii) Flow control diameter:			in
		iv) Number of flow controls (orifices, nozzles, etc.):			
		v) Squirt height/Operating head:			in
		vi) Clean outs/Inspection ports:	Number	Yes_	No
		vii) Clean out access to surface?		Yes_	No
	4)	Surface loading rate:			gpd/sq f
	5)	Filtrate collection system:			
	6)	Monitoring location:			
	7)	Vegetation:			N.A.
		i) Description:			
	8)	Water level control:			N.A.
		i) Description:			-
f.	Lag	goon system			
	1)	Type: Aerobic Facultative Partial-mixed aerated	d Anaerobic		
	-)	i) Water depth:			ft
		ii) Liner material:			
	2)	Lagoon size:			sq f
	-)	i) Dimensions:		ft x f	
		ii) Length to width ratio:			
	3)	Inlet to lagoon			•
	٠,	i) Pipe description:			
		ii) Pipe diameter:			in
		iii) Clean outs?		Yes	
	4)	Surface loading rate:		1 45	gpd/sq ft
	5)	Monitoring location:			
	6)	Vegetation:			N.A.
	0)	i) Description:			
	7)	Water level control:			N.A.
	')	i) Description:			1 1,12 1
		1) 2 3 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		-	
g.	Disi	infection unit			
Ο.		Chlorine – tablet			
		i) Manufacturer:	Model:		
	2)	Chorine – liquid			
	-)	i) Manufacturer:	Model:		
	3)	Ultraviolet light			
	- /	i) Manufacturer:	Model:		
	4)	Ozone	1,10 441.		
	.,	i) Manufacturer:	Model:		
	5)	Other:			
	6)	Disinfection monitoring location:			
	7)	Dechlorination			
	.,	i) Type:			
		ii) Manufacturer:			
	8)	Dechlorination monitoring location:			

System ref. #:____

f) Clean outs/Inspection ports: g) Clean out access to surface? iv) Number of trenches/beds: v) Dimensions of trenches/beds: 2) Pressure mound distribution i) Distribution method: a) Pipe diameter: b) Orifice diameter: c) Number of orifices:								System ref.	#:		
1) Type: Trench					al						
i) If lined ET bed, describe liner material: 2) Distribution method:	a.		•		□ D.	. J	Пт	T kad			
2) Distribution method: Gravity-to-gravity Pump-to-gravity Siphon-to-gravity 3) Configuration: Parallel Serial Continuous serial 4) Distribution approach: Distribution box Solid header pipe Drop box Rollov 5) Distribution media i) Material: Gravelless Multi-pipe Chamber Rock Synthetic Other: Rock Synthetic Other:		1)									
3) Configuration:		2)								n-to	-gravity
4) Distribution approach: Distribution box Solid header pipe Drop box Rollov 5) Distribution media i) Material: Gravelless Multi-pipe Chamber Rock Synthetic Other: Rock Synthetic Other:					-	-	_		_		
5) Distribution media i) Material: Gravelless Multi-pipe Chamber Rock Synthetic Other: b. Pressure 1) Low-pressure drainfield i) Level? Yes_No_ ii) Number of zones: a) Switching method: Hydraulic valves Separate pumps Other: iii) Distribution method a) Pipe diameter: b) Orifice diameter: c) Orifice orientation: d) Number of orifices: e) Squirt height/Operating head: f) Clean outs/Inspection ports: Number Yes_No_ g) Clean out access to surface? Yes_No_ iv) Number of trenches/beds: v) Dimensions of trenches/beds: 1) Distribution method: Trench Bed Other: a) Pipe diameter: b) Orifice diameter: c) Number of trenches/beds: v) Dimensions of trenches/beds: v) Dimensions of trenches/beds: li) Distribution method: Trench Bed lother: lother: lother Yes_No_ l			_								
b. Pressure 1) Low-pressure drainfield i) Level? ii) Number of zones: a) Switching method:		,					_ 20114 11	audi pipe	_ 210p 00		_ 110110 (01
b. Pressure 1) Low-pressure drainfield i) Level? ii) Number of zones: a) Switching method:			i)	Material:	\square Gravelless	☐ Mult	ti-pipe	☐ Chambe	r		
1) Low-pressure drainfield i) Level? ii) Number of zones: a) Switching method:					□ Rock	\square Synt	hetic	☐ Other:			
1) Low-pressure drainfield i) Level? YesNo	h	Pre	ssure								
i) Level? ii) Number of zones: a) Switching method:	0.			essure drainfi	eld						
a) Switching method:		,							Yes	3	_No
Other: iii) Distribution method a) Pipe diameter: b) Orifice diameter: c) Orifice orientation: d) Number of orifices: e) Squirt height/Operating head: f) Clean outs/Inspection ports: Number Yes No g) Clean out access to surface? iv) Number of trenches/beds: v) Dimensions of trenches/beds: v) Dimensions of trenches/beds: i) Distribution method: Trench Bed Other: a) Pipe diameter: b) Orifice diameter: c) Number of orifices: d) Squirt height/Operating head: e) Clean outs/Inspection ports: f) Clean out access to surface? ii) Number of trenches/beds: iii) Dimensions of trenches/beds: iii) Dimensions of trenches/beds: ft x 3) Drip distribution			ii)	Number of	zones:						
iii) Distribution method a) Pipe diameter: b) Orifice diameter: c) Orifice orientation: d) Number of orifices: e) Squirt height/Operating head: f) Clean outs/Inspection ports: v) Dimensions of trenches/beds: v) Distribution method: □ Trench □ Bed a) Pipe diameter: b) Orifice diameter: c) Number of orifices: d) Squirt height/Operating head: e) Clean outs/Inspection ports: Number □ Yes No it x □ Other: □ □ Other: □ □ Other: □ □ Other: □ □ Other: □ □ Other: □ □ Other: □ □ Other: □ □ Other: □ □ Other: □ □ Other: □ □ Other: □ □ Other: □ □ Other: □ □ Other: □ □ Other: □ Other: □ □ Other: □ Oth				a) Sw	ritching method:	-			_	-	
a) Pipe diameter: b) Orifice diameter: c) Orifice orientation: d) Number of orifices: e) Squirt height/Operating head: f) Clean outs/Inspection ports: p) Clean out access to surface? iv) Number of trenches/beds: v) Dimensions of trenches/beds: v) Dimensions of trenches/beds: 2) Pressure mound distribution i) Distribution method: Trench Bed Other:						☐ Other:_					
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g) Clean out access to surface? iv) Number of trenches/beds: v) Dimensions of trenches/beds: 1) Distribution method: □ Trench □ Bed a) Pipe diameter: b) Orifice diameter: c) Number of orifices: d) Squirt height/Operating head: e) Clean outs/Inspection ports: f) Clean out access to surface? ii) Number of trenches/beds: iii) Dimensions of trenches/beds: ft x Yes No Yes No Number Yes No ii) Number of trenches/beds: iii) Dimensions of trenches/beds: ft x 3) Drip distribution								Marada an	Vac		ii
iv) Number of trenches/beds: v) Dimensions of trenches/beds: 1) Pressure mound distribution i) Distribution method: □ Trench □ Bed a) Pipe diameter: b) Orifice diameter: c) Number of orifices: d) Squirt height/Operating head: e) Clean outs/Inspection ports: f) Clean out access to surface? ii) Number of trenches/beds: iii) Dimensions of trenches/beds: ft x 3) Drip distribution								Number			
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i) Distribution method: ☐ Trench ☐ Bed a) Pipe diameter: b) Orifice diameter: c) Number of orifices: d) Squirt height/Operating head: e) Clean outs/Inspection ports: Number Yes No f) Clean out access to surface? ii) Number of trenches/beds: iii) Dimensions of trenches/beds: ft x 3) Drip distribution						s:					ft x
a) Pipe diameter: b) Orifice diameter: c) Number of orifices: d) Squirt height/Operating head: e) Clean outs/Inspection ports: Number Yes No f) Clean out access to surface? ii) Number of trenches/beds: iii) Dimensions of trenches/beds: ft x 3) Drip distribution		2)	Pressure	e mound distr	ribution						
b) Orifice diameter: c) Number of orifices: d) Squirt height/Operating head: e) Clean outs/Inspection ports: Number Yes No f) Clean out access to surface? ii) Number of trenches/beds: iii) Dimensions of trenches/beds: ft x 3) Drip distribution			i)			nch 🗆 Be	ed	Other:			
c) Number of orifices: d) Squirt height/Operating head: e) Clean outs/Inspection ports: Number Yes No f) Clean out access to surface? ii) Number of trenches/beds: iii) Dimensions of trenches/beds: ft x 3) Drip distribution											
d) Squirt height/Operating head: e) Clean outs/Inspection ports: Number Yes No f) Clean out access to surface? Yes No ii) Number of trenches/beds: iii) Dimensions of trenches/beds:ft x				,							B
f) Clean out access to surface? ii) Number of trenches/beds: iii) Dimensions of trenches/beds: ft x 3) Drip distribution				,							iı
ii) Number of trenches/beds: iii) Dimensions of trenches/beds: ft x								Number			
iii) Dimensions of trenches/beds:ft x 3) Drip distributionft x			::\	,		surface?			Yes	<u>}</u>	No
3) Drip distribution						s.					ft x
•		3)									
1) Distribution field. Surface Substitute			-		field: ☐ Surface		Subsurf	ace			
ii) Drip tubing manufacturer: Model:								Model:			
iii) Filtration: Screen Disk Sand Manufacturer: Model:			iii)					Model:			
iv) Filter cleaning: ☐ Automated ☐ Manual/Continuous flush			iv)								
v) Number of zones:				Number of	zones:						
a) If multiple, switching device:				a) If i	nultiple, switchi	ng device:		2			
b) Zone area(s):sq ftsq ftsq ft			• .								sq 1
vi) Field flushing: ☐ Automated ☐ Continuous ☐ Manual vii) Air release/Vacuum breaker:N.							_ Continu	ious \square			NΙΛ
a) Manufacturer: Model:			V11)					Model:			

	System ref. #:	
	viii) Inspection ports? a) Locations:	YesNo
4)	Spray distribution	
	i) Number of zones:	
	a) If multiple, switching device:	
	ii) Distribution heads per zone:	
	a) Manufacturer: Model(s):	
	b) Pattern(s):	
	iii) In-line filtration: ☐ None ☐ Screen ☐ Disk ☐ Sand	
	,	
	iv) Total area of spray distribution fields:	sq ft
	v) Gauging Device:	
5)	Surface discharge	
	i) Permit number:	
	ii) Permit requirements:	
	iii) Location:	
	iv) Monitoring location:	

E. Sketch of system	System ref. #:_	
	Scale 1 in =	_ ft