



Flowmeter Instrument

Magnetic

DATA SHEET NO.			REV.
FET-01			00
SHEET	1	OF	1
BY	CHK'D	PROC.	APPR.

NO.	DATE	REVISION	BY	CHK'D	PROC.	APPR.
00	01/27/2017	Issued for Review	LU	JAB		

Project:							
TAG NO:	FET-01	Serial No			Loop Wiring Diagrams:		
Asset No:		Spec No:			Line / Vessel Number:		
Description:	In loadout line Magnetic Meter for wastewater flow.				Manufacturer:	Siemens	
Purchase Order:				Vendor:	Trans West Company Inc.		
Requisition Number:				Job Number:	15-0107-04		

PROCESS CONDITIONS	Fluid:						
	Fluid State:						
	Process Data Case (Flow):	Minimum:	Normal (Operating):	Maximum (Full Scale):	Units:		
	Flow:	10		158.8	MLD		
	Pressure:	0	0	44.8	kPa		
	Temperature:	0	15	20	°C		
	Design Pressure:	1034	kPa	Vapor Pressure Pv:			
	Design Temperature:	15	°C	Viscosity:			
	Lower SG / Density:			Compressibility (Z):			
	Higher SG / Density:			Special Condition:			
Pipe Material	Concrete (Upstream) / Stainless Steel (Downstream)						

METER	Connection Size:		Mounting Orientation:	Horizontal		
	Connection Type:	Flange	Mounting Kit:	N/A		
	Tube Material:	PVC	Flange / Wafer Rating:			
	Lining Material:	Ebonite	Flange Type:	ANSI		
	Lining Protector:		Flange Material:	Carbon Steel		
	Electrode Type:		Enclosure Class:	IP67		
	Electrode Material:	Hastelloy C-276	Safety Approvals:			
	Grounding Rings:	N/A	Manufacturer:	Siemens		
	Grounding Rings:	N/A	Model:	Sitrans FM MAG 5100 W		

TRANSMITTER	Stainless Steel Tag:	FIT-Z0002	Elevation:			
	Application:	Effluent Flow	Suppression:			
	Type:	Carbon Steel ASTM A 105	Instrument Range:		to	
	Enclosure Class:	IP67 / NEMA4X/6	Calibration Range:		to	L/s
	Housing:		Controller Display Range:		to	L/s
	Signal / Protocol:		Static Pressure Range:		to	
	Power Supply:	24Vdc	Allow. Oper Pressure:		to	
	Electrical Connection:	Hard Wired	Allow. Oper Temperature:	-40	to	70 °C
	Accuracy:		Maximum Static Pressure			
	Response Time:		Manufacturer:	Siemens		
Element Material:		Model:	Sitrans FM MAG 5100 W			

OPTION	Integral Meter:		Hydrostatic Testing:			
	Scale:		Mounting Brackets:			

NOTES	1. Calibration tool to be provided under this project.



Level Transmitter

DATA SHEET NO. **LIT-01** REV. **0**

Ultrasonic

SHEET **1** OF **1** APPR. **1**

NO.	BY	DATE	REVISION	BY	CHK'D	PROC.	APPR.
0	CPS	1/14/2010	Issued For Review	LU	JAB		

Project: **Leachate Collection Sys.**

TAG NO:	LIT-01	Spec No:		Loop Wiring Diagrams:		Line / Vessel Number:	
Asset No:		P&ID:		Line ID:	Size:	Schedule:	
Service Description:	Brady Landfill Leachate Collection Tank			Manufacturer:	Siemens Miltronics		
Purchase Order:		Vendor:		Model:	Sitran LR250		
Requisition Number:		Job Number:		Trans West Company Inc.			
				15-0107-014			

	UPPER FLUID	LOWER FLUID	
Fluid:	Wastewater	Wastewater	<
Fluid State:	Liquid	Liquid	<
Viscosity (cP):			<
Operating S.G.:			<
Clean/Dirty:	Dirty	Dirty	<
Corrosive:			<

	Min:	Normal (Operating):	Max (Full Scale):	Units:
Pressure:				Psig
Temperature:				F

Design Pressure:		Psig	Vapor Pressure Pv:		Psig
Design Temperature:		F	Rag: Upper / Depth:	N/A	
Unusual Conditions:	No		Rag: Lower / Depth:	N/A	
Foam: Upper / Depth:	No		NACE Service:	N/A	
Foam: Lower / Depth:	No		Special Condition:		
Agitation:					
Surface Conditions:					

Transducer Type:		Rated Temperature:	
Measurement Type:		Rated Pressure:	
Body Material:		Signal Type:	
Flange Material:		Frequency:	
Element Material:		Cable Length:	
Vessel I.D.:		Conduit Connection:	
Measurement Range:		NDE Test Category:	
Mounting Position:		Ambient Temperature:	
Process Connection:		Manufacturer:	
Connection Material:		Model:	

Type:	Electronic	Temp. Compensation:	Yes - Automatic
Location:	Wall Mount	Mounting Position:	N/A
Function:	Indicating	Sensor Range:	10m (32.8 ft.)
Indicator Range:	0 - 100 %	Calibrated Range:	Field Determine
Output Signal:	4-20 mA & Loss of Echo Relay	Accuracy:	+/- 0.02 mA
Protocol:	HART	Repeatability:	
Power Supply:	24V DC	Ambient Temperature:	-40 to 80 °C
Enclosure Rating:	NEMA 4X	Model:	SITRANS LR250 c/w Flanged Encapsulated Antenna

NOTES

- Mount transmitter inside Leachate Tank.



Level Switch
Float

DATA SHEET NO. **LSH-01** REV. **00**

NO.	DATE	REVISION	BY	CHK'D	PROC.	APPR.
00	2016/01/27	Issued for Review	LA	JAB		

Project: Leachate Collection Sys.

TAG NO:	LSH-01	Serial No:		Loop Wiring Diagrams:	
Asset No:		Spec No:		Line / Vessel Number:	
Description:	Dry well float ball high level switch		P&ID:	Line ID:	Size: Schedule:
Purchase Order:		Vendor:		Manufacturer:	Siemens Miltronics
Requisition Number:		Job Number:		Model:	Pointek CLS 200
					Trans West Company Inc.
					15-0107-014

PROCESS CONDITIONS

Upper Fluid:	Wastewater	Lower Fluid:	
Dielectrical Connection:		Dielectrical Connection:	
Process Data Case (Flow):	Minimum:	Normal (Operating):	Maximum (Full Scale):
Pressure:	-	Atmosphere	-
Temperature:	-20	15	35
Design Pressure:		Vapor Pressure Pv:	
Design Temperature:		Viscosity:	
SG / Density:		Compressibility (Z):	
Pipe Material:		Material Build-Up:	
		Special Condition:	

FLOAT

Probe Design:	Float	Inactive Length:	
Application:	Monitor Leachate Level w/in Tank	Fail Safe:	
Function:	High level	Regulator Length:	
Process Connection:		Cable Length:	30 meters
Orientation:		Maximum Temperature:	
Style:	Float ball	Approvals:	
Material:	Epoxy-Coated Aluminum	Manufacturer:	Siemens Miltronics
Bending Relief:		Model:	Pointek CLS 200
Cable Material:	PVC or NBR/PVC Nitrile/PVC Rubber		

SWITCH

Type:	SPDT for C Relay	Blow Out Protection:	
Function:	High level	Pressure Element Material:	
Switch Range:		Actuator Seal:	
Switch Setpoint:		Connection Size:	mm
Deadband:		Connection Location:	
Power Supply:		Nominal Accuracy:	
Power Wiring:	24VDC	Manufacturer:	Siemens Miltronics
Case Material:		Model:	Pointek CLS 200

OPTIONS

Compensation Cable:		Stainless Steel Tag:	
Local Indicator:			

NOTES
