

Clarifiers:

Sludge Blanket – Recording Field Data

A. Manual Procedure

Aspects: Dewatering , drying

Frequency: Every 2 Hours (Daily / Shift)

(Frequency may increase with variable rain levels, settleability)

Record / Documentation: Operations Log sheet

Location: Clarifiers

Measurement should begin w/Skimmer Arm
Approximately 90 degrees perpendicular to catwalk
Remove Sludge Judge from drain tube
Position of Judge placement into clarifier @ black tape line on top of rail
Hold string and lower sludge-judge to bottom
(Slowly and consistently for adequate fill)
Snatch judge slightly to seat ball valve, then
Retrieve at a moderate rate
Read depth of solids (dark/cloudy)
Record blanket level for appropriate clarifier (operations log sheet)
Return Judge to appropriate holder (drain tube)
(Ensure open ball valve for material return to clarifier)
Compare each clarifier (1 with 2, 3 with 4)
Evaluate and adjust the following as necessary:

- Wet-well valve
- Distribution-box boards
- Recycle rate

Notes: inspect wet well valve

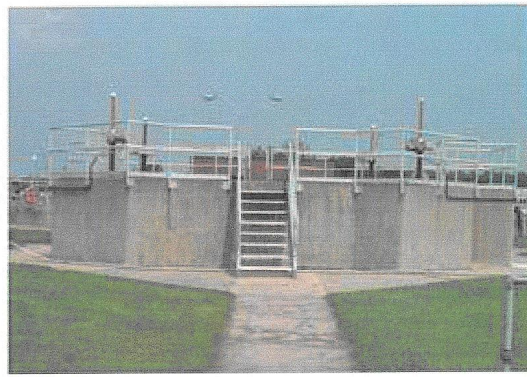
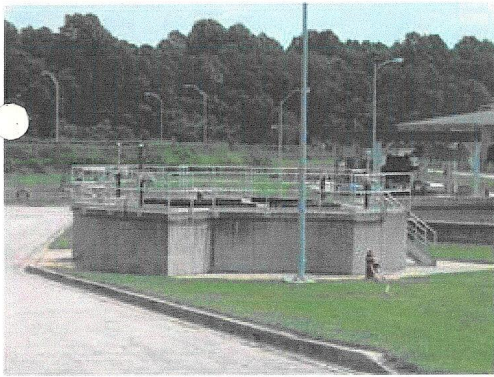
Notes: Good sludge blanket range approx. 5' or less

Notes: frequency ½ to (1) hour for rain/storm or poor settleability

Notes: freezing temperatures may alter sludge-judge process

Corrective Operational Considerations

All operators must inform senior operator on shift of changes they are going to make to operation. Senior operators must approve and verify all corrective actions.



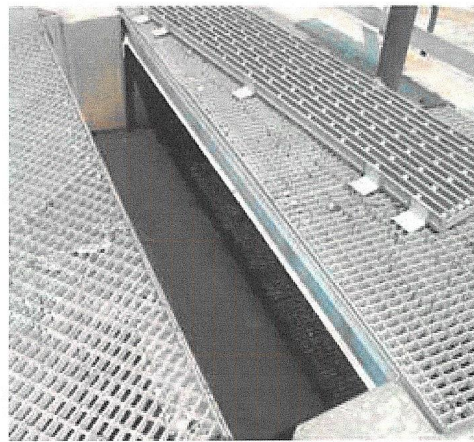
DISTRIBUTION BOX



Distribution box - Top view



Distribution Box Boards



Board placement area with distribution box

OPERATIONS LOG SHEET

DATE _____

SHIFT & INITIAL	TIME	TOTALIZER x1000 = MGD		SLUDGE BLANKET DEPTH Clarifier				TOTALIZER x x1000 ÷1,000,000		WEIGHT LBS		Condition Weather	Speed Direction WIND
		INFLUENT	EFFLUENT	1	2	3	4	=MGD RPS 1	=MGD RPS 2	CL2	SO2		
FIRST SHIFT	00:00												
	01:00												
	02:00												
	03:00												
	04:00												
	05:00												
	06:00												
SECOND SHIFT	07:00												
	08:00												
	09:00												
	10:00												
	11:00												
	12:00												
	13:00												
THIRD SHIFT	14:00												
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22:00													
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24:00													
		MGD	MGD					MGD	MGD	LBS	LBS		

$$\begin{array}{r}
 e \\
 \hline
 =c \\
 +d \\
 \hline
 =e
 \end{array}$$

rain _____
total _____

*To calculate today's influent:
 a= Today's ending Effluent Totalizer#
 - b= Today's beginning Effluent Totalizer#
 = c= Today's Effluent
 +d= Today's Solids Handling Bldg Waste
 =e= Today's Influent