



SEDIMENT BASIN DESIGN DATA SHEET

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|----------------|--|-------------------------------|--|
| COMPANY | | Application/Permit No. | |
|----------------|--|-------------------------------|--|

| | | | | | | | |
|------------------|--|------------------|--|-----------------|--|------------------|--|
| BASIN NO. | | NPDES No. | | Latitude | | Longitude | |
|------------------|--|------------------|--|-----------------|--|------------------|--|

GENERAL INFORMATION

| | | | |
|------------------------------------------------------------|--|------------------------------------------------------|--|
| Hazard Classification | | | |
| Total Drainage Area (acres) | | Design Flow (cfs) | |
| Total Disturbed Drainage Area (acres) | | Design Storm Event (year/hour) | |
| Total Disturbed Area to be Treated by Basin (acres) | | | |
| Required Basin Volume¹ (ac-ft) | | Required Sediment Volume ² (ac-ft) | |
| Basin Volume Provided (ac-ft) | | Sediment Volume Provided (ac-ft) | |

BASIN GEOMETRY

| | Bottom | Sediment Volume Provided | Basin Volume Provided | Emergency Spillway | Top |
|------------------------|---------------|---------------------------------|------------------------------|---------------------------|------------|
| Elevation (ft.) | | | | | |
| Area (ft) | | | | | |

PRINCIPAL SPILLWAY (if applicable)

| | | | | | | | |
|-----------------------------|--|-----------------------------------------|----------------------------------------------------|-------------------------------------|--|----------------------------|--|
| Pipe Diameter (in.) | | Pipe Length (ft.) | | Pipe Inlet Elevation (ft.) | | Slope % | |
| Riser Diameter (in.) | | Height of Riser³(ft.) | | Top of Riser Elevation (ft.) | | Hp⁴(ft.) | |
| Type of Base | | | Type of Trash Rack & Anti-vortex device | | | | |

EMERGENCY SPILLWAY (if applicable)

| | | | | | | |
|------------------------------|--|---------------------------|-----------------------|--------------------------|--|--|
| Hp ⁴(ft.) | | Bottom Width (ft.) | | Side Slopes (H:V) | | |
| Design Velocity (fps) | | | Type of Lining | | | |

¹ (0.125 X disturbed area in acres)

² (0.075 X disturbed area in acres)

³ Base to top of riser

⁴ Height of water in pool (head) above spillway

| EXIT CHANNEL (if applicable) | | | | |
|------------------------------|--|--------------------|--|--------------------------------|
| Slope (%) | | Bottom Width (ft.) | | Side Slopes (H:V) |
| Flow Depth (ft.) | | Freeboard (ft.) | | Total Depth Exit Channel (ft.) |
| Design Velocity (fps) | | Type of Lining | | |

| EMBANKMENT (if applicable) | | | |
|------------------------------------------------|--|------------------------------------------------------------|--|
| Top of Embankment Elevation ⁵ (ft.) | | Constructed Top of Embankment Elevation ⁶ (ft.) | |

| COMMENTS |
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⁵ Top of Embankment Elevation = Emergency Spillway Elevation + Hp + Freeboard (1 ft. minimum)

⁶ Constructed Top of Embankment = Top of Embankment Elevation + allowance for settlement (5% minimum)