

Environmental Training Syllabus

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Process Water

What it is

Process water is any water that is used in any of our industrial processes. Examples: Water used to make concrete, Water used to wash the trucks of or rinse them out.

How do we handle it?

All of our process water should be handled in the basins, which allows solids to settle out before reaching the final basin. After which we recycled the water back into the concrete.

Water basin cleaning

The basins need to be dredged occasionally to remove the settled solids. Each basin in the series will require a different cleaning frequency.

General basin cleaning guidelines are

- Empty as much water out of the basin to be cleaned as possible
- The Loader will then be used to scoop up the solids and transport them to the drying location in the solids management area.

Solids management and disposal procedures

Handling dry materials on site

Dry solids (broken up concrete, dredged solids that have dried) are moved to a dry holding area of the solids management area where they await disposal or repurposing.

Disposal/Repurposing

Whenever possible the dry solids are sold/used as fill . If this is not possible, they are disposed of at the landfill.

Chemical and material storage

We store use several chemicals for concrete production and truck maintenance, and materials that are used in concrete production. There are designated storage areas for each of these materials.

Chemicals ID and Location

- Admixture tanks are stored indoors near the batch area
- Fuel Tanks are indoors or in containment
- Truck Cleaning Solution is stored near the washrack
- Truck Lubricants are stored in Maintenance shop

Materials ID and Location

- Stone and Sand are stored either in silos, ground bins, or plant feed bins
- Cement and Flyash are stored in silos.

Potential Pollutant Sources and Mitigation

PM and BMPs

- Every pollutant there should have a PM or BMP in place, whether it is performing the task in a designated area, or general housekeeping. If one is missing we need to implement it.
- Truck maintenance is performed in Maintenance areas
- Bin filling and material unloading is done in designated areas, and those areas receive housekeeping as needed.
- Batching areas need housekeeping and PM on the dust collectors
- Fueling is done in appropriate area.
- Snow removal piles should be pushed away from outfall areas so we're not adding solids.

Why

We are minimizing the pollutants that exit our sites and enter the water systems.

Storm water monitoring is done at each facility's Outfalls. A visual examination is done every quarter and a lab analyzed sample is taken once per year.

This monitoring is primarily looking for suspended solids and elevated pH. The results let us know if our current practices are adequate or need to be adjusted.

Spill Prevention and Response Procedures

In the event that there is a chemical spill, sand would be used to control it. It would then be disposed of according to manufacture recommendations and local ordinances.