



MAGNUM CONSTRUCTION SERVICES INC.

STORMWATER POLLUTION PREVENTION PLAN (SWPPP)

Document Code: MCS-EN-P04 | **Revision:** 1.0 | **Effective Date:** November 1, 2025

1. PURPOSE

Define controls to **prevent sediment, debris, and pollutants** from leaving Magnum construction sites via stormwater runoff and dewatering discharges, in compliance with **EPA NPDES**, state permits, and client specifications.

2. SCOPE

Applies to all Magnum projects with soil disturbance, stockpiles, concrete operations, fueling/maintenance, or dewatering. Includes general contractor activities and all subcontractors.

3. REFERENCES

- **EPA NPDES Construction General Permit (CGP)**
- State/Local stormwater permit conditions & erosion/sediment control manuals
- **ISO 14001** Environmental Management; **MCS-EN-P01 EMP**; **MCS-EN-P02 SPCC**
- **MCS-OP-F12** Utility Coordination; **MCS-QM-F12** Turnover Dossiers

4. ROLES & RESPONSIBILITIES

Role	Responsibility
Project Manager	Overall SWPPP compliance; resources and scheduling of BMPs.
Environmental Coordinator (EC)	SWPPP updates, mapping, inspections, rainfall logs, dewatering monitoring.



Role	Responsibility
HSE Manager	Training, weekly inspections, corrective actions, incident reporting.
Site Superintendent/Foremen	Daily BMP checks; maintain access roads, washouts, inlet protection.
Subcontractors	Install/maintain trade-specific BMPs; follow SWPPP & site rules.
Document Controller	Maintain SWPPP file: permits, inspections, logs, correspondence.

5. SITE DESCRIPTION (Project-Specific)

- **Location & Receiving Waters:** *Insert watershed, nearest outfall/inlet, impaired waters if any*
- **Disturbed Area:** *Insert ac / ha* **Total Site Area:** *Insert*
- **Soils:** *Insert type/erodibility* **Slopes/Drainage Paths:** *Insert*
- **Construction Sequence:** Clearing → Mass grading → Utilities → Foundations → Superstructure → Hardscape → Stabilization
- **Potential Pollutants:** Sediment, concrete wash water, fuels/oils, adhesives/sealants, litter.

6. SWPPP MAPS (REQUIRED CONTENT)

- Project boundary, disturbed limits, drainage divides/flow direction
- **All BMPs** (silt fence, inlet protection, check dams, basins) with IDs
- **Stockpiles**, fueling/maintenance, concrete washout, waste areas
- Outfalls, storm inlets, receiving waters, dewatering points
- Stabilized entrances, wheel wash, laydown yards
- Phasing plan with dates

7. BEST MANAGEMENT PRACTICES (BMPs)

7.1 Perimeter & Conveyance Controls

- Silt fence (trenched & keyed), fiber rolls/wattles, ditch checks, sediment basins, berms/swales.



7.2 Inlet & Outfall Protection

- Filter bags, curb-inlet socks, rock inlet protection; inspect before/after rain.

7.3 Stabilized Construction Entrances / Tracking Control

- 50 ft min aggregate pad (or mats); street sweeping daily or as needed.

7.4 Material Management & Housekeeping

- Covered waste containers, secondary containment at fueling, lined chemical storage, designated washing/fill areas.

7.5 Concrete Controls

- **Designated, lined, signed concrete washout**; no washout to soil/storm drains. Capture saw-cut slurry.

7.6 Stockpile Management

- Cover during rain events, perimeter controls, locate away from drains and steep slopes.

7.7 Dust & Erosion Stabilization

- Interim stabilization (hydromulch, tackifier), permanent stabilization (sod/seed, riprap). Stabilize disturbed areas **≤14 days** after inactivity (or local standard).

7.8 Dewatering & Water Quality

- **No turbid discharge.** Use settling tanks/baker tanks, weir tanks, or filtration bags; add flocculants if allowed. Monitor turbidity/NTU where required.

8. INSPECTIONS & RAINFALL MONITORING

Inspection Type	Trigger/Frequency	Performed By	Record
Routine Site Inspection	Weekly (or state-required frequency)	HSE/EC	SWPPP Inspection Checklist

Inspection Type	Trigger/Frequency	Performed By	Record
Post-Rain Event	≥ 0.25 in storm or as required	HSE/EC	Rainfall & Post-Event Log
Corrective Action Verification	Within 24–72 hrs of finding	Superintendent/EC	Corrective Action Log
Dewatering Monitoring	Each discharge day	EC/QAQC	Dewatering Log (flow/NTU)

- Maintain **on-site rain gauge**; log daily precipitation and storm totals.
- Complete and file inspection forms with **photo evidence and BMP IDs**.

9. CORRECTIVE ACTIONS

Deficiencies identified → **assign owner + due date**; close within required timeframe. Track in **Corrective Action Log** with photos and signatures.

10. DEWATERING & DISCHARGE CRITERIA

- Pre-settle or filter to meet **permit turbidity/solids limits**; discharge to stabilized, energy-dissipated area.
- **No sheen** at discharge, if sheen → treat/contain as SPCC incident.
- Document **start/stop times, volume (est.), NTU/visual clarity**, location, and receiving system.

11. TRAINING

All workers receive environmental induction covering BMPs, concrete washout, spill/housekeeping, and reporting. Supervisors receive enhanced SWPPP training. Records kept under **MCS-EN-F09**.



12. RECORDS & DOCUMENT CONTROL

Record	Code	Retention	Custodian
Approved Permit/NOI/NOT	MCS-EN-P04	Project + 5 yrs	Document Controller
SWPPP Map Set & Revisions	MCS-EN-P04	Project + 5 yrs	EC
Weekly & Post-Rain Inspections	MCS-EN-F04A	5 yrs	HSE
Rainfall Log	MCS-EN-F04B	5 yrs	EC
Corrective Action Log	MCS-EN-F04C	5 yrs	EC
Dewatering Monitoring Log	MCS-EN-F04D	5 yrs	QA/QC
Photo Records	—	5 yrs	EC

13. COMMUNICATION & REPORTING

- Notify PM/HSE immediately when **discharge off-site, BMP failure, or illicit connection** is suspected.
- Reportable discharges handled per **SPCC (MCS-EN-P02)** and permit conditions.

14. FINAL STABILIZATION & CLOSEOUT

- Achieve required vegetative cover or permanent stabilization per permit.
- Remove temporary BMPs; clean inlets; restore drainage.
- Submit **NOT** once criteria met; archive final SWPPP, maps, and logs in **Turnover Dossier (MCS-QM-F12)**.



15. APPROVALS

Reviewer	Department	Signature/Date	Comments
Project Manager	Operations		
HSE Manager	Safety & Environment		
Environmental Coordinator	EHS Dept		
Document Controller	Project Controls		
Executive Director	Corporate		
Client/Consultant	External		