

**Village of Glencoe, Illinois**  
**Storm Water Management Plan**

**A. Introduction**

The Village of Glencoe has a General Permit from the Illinois Environmental Protection Agency (IEPA) for discharges from its municipal separate storm sewer system. The General Permit requires the Village to develop, implement, and enforce a stormwater management program designed to prevent and reduce pollution from its storm sewer system to the maximum extent practicable. This document describes the pollution prevention practices that comprise the Village's storm water management program.

**B. Public Education and Outreach**

- a. Newsletter – Glencoe Quarterly - The Village publishes a quarterly newsletter which is distributed to all Village residents and businesses. Within the publication, often appear articles related to educating the public on items directly relating to stormwater runoff and storm water quality.
- b. Community Event - Earth Day Cleanup - Partnership between the Village of Glencoe, the Glencoe Park District, and the Glencoe School District where staff works with student and parent volunteers to pick up trash and debris that would otherwise end up in the Village's storm sewer system.
- c. Other Public Education - Dump No Pet Waste Signs - In direct response to repeatedly contaminated storm inlets, the Village has printed and installed signs at storm sewer inlets. Public Works staff monitors inlets, while performing other maintenance cleanings, to look for pet waste debris dumping.

**C. Public Participation and Involvement**

- a. Program Involvement - Electronic Recycling Program - Electronics Recycling Program - To prevent improper disposal of items that could leach chemicals into receiving waters and ground water, the Village has begun an in-house recycling collection of such items. Acceptable items may be dropped off at the Public Works service building at any time during normal business hours.
- b. Other Public Involvement - Semi-Annual Clean Up Day - Semi - Annual Cleanup Day - To prevent rouge dumping of unwanted items which do not qualify for traditional garbage pickup, the Village has implemented a Village-wide semi-annual clean-up day. This program focuses on disposal of large items which might otherwise be illegally dumped, leading to degradation of water quality.

**D. Illicit Discharge Detection and Elimination**

- a. Sewer Map Preparation – Continuous Mapping Updates - The Village is consistently updating the storm sewer collection system network in GIS. As the Village's operations crews work on storm sewer maintenance, mapping updates are noted and brought back to the GIS technician for electronic updates.
- b. Regulatory Control Program - Pool Pumping Permitting - Pool pumping requires a permit from the Village. Contractor must be licensed with the Village to perform pool pumping

activities. Next, contractor must submit a Village-provided compliance form, documenting the chlorine concentration and pH levels of the pool water before water may be discharged into the Village's storm sewer. Chlorine levels must be 0 ppm, pH levels must be between 6.5-8.5.

- c. Regulatory Control Program - New single-family construction requirements - overhead sewers: Village ordinance 21A-24(b) requires that, "All new buildings with occupancy areas below ground level shall have overhead plumbing. In all buildings in which a building drain is too low to permit gravity flow to the public sewer, sanitary sewage carried by such building drain shall be lifted by a means which is approved in accordance with § 21A-17(b), and discharged to the building sanitary sewer." This ordinance is in affect to prevent sanitary basement backups into private residences, which would deter private residences pumping said backup water out into the public right-of -way.
- d. Regulatory Control Program - Separate storm and sanitary services: Village Ordinance 21A-23 requires that, "Each building shall have separate, independent building sewers for disposal of sewage and, where a public storm sewer is available, for disposal of storm runoff." Additionally, Village ordinance 21A-22 requires that, "No person shall connect roof down spouts, exterior foundation drains, yard or patio area drains or other sources of surface run-off or ground water to a building sewer or building drain if the sewer or building drain is connected directly or indirectly to a public sanitary sewer." These ordinances are in place to prevent the surcharging of the sanitary sewer collection system during large rainstorm events, where clear water entering that sanitary sewer could result in sanitary sewer overflows or basement backups.
- e. Visual Dry Weather Screening - Annual storm sewer outfall inspections - Public works crew perform annual inspections of all 68 storm sewer outfall locations.
- f. Pollutant Field Testing - Annual storm sewer outfall inspections - Inspections of outfalls were conducted during wet weather. Samples of discharge water were collected and tested. The following data was collected: temperature, pH, conductivity, ammonia, chlorine, dissolved oxygen, odor, and color.
- g. Other Illicit Discharge Controls - Rehabilitation of public sanitary sewers to prevent sanitary sewer overflows - The Village has begun a comprehensive investigation program of the public sanitary sewer collection system to identify and rehabilitate defects which allow clear water to enter the sanitary sewer, which may lead to sanitary sewer overflows.

#### **E. Construction Site Stormwater Runoff Control**

- a. Erosion and Sediment Control BMP's - Steep Slope Ordinance - the Village has developed a comprehensive steep slope ordinance (Chapter 9, Article XV) to regulate construction, stormwater runoff, and slope stability on the Village's ravine and bluff properties.
- b. Site Plan Review Procedures - Site Development Checklist - All site development plans are reviewed for compliance with the Village's Site Development Checklist. As part of the Development Site Management Plan, erosion control measures must be addressed. These items include installation of silt fencing, inlet protection, coir wattles, and erosion control blanket. Additional measures include temporary seeding of bare soils,

establishment of a stabilized construction entrance, and providing for a concrete washout area.

- c. Site Plan Review Procedures - Stormwater Detention Requirements - The Village has a strict threshold on the total amount of hardscape that can be present on a single-family lot, as codified by Village Ordinance (Chapter 9, Article XII). If a site development exceeds the total amount of hardscape, stormwater detention must be provided on the site. The calculations for total allowable impervious and required stormwater detention volume are required to be shown on the site development plans. Upon completion of the project, as-built record drawings are required to be submitted and approved before a Certificate of Occupancy will be issued. Plans will continue to be reviewed for compliance with this ordinance.
- d. Public Information Handling Procedures - Public Records available via Freedom of Information Act
- e. Site Inspection/Enforcement Procedures - The Village's steep slope ordinance allows for the Village to enforce and levy fines for non-compliance (9-121).

#### **F. Post-Construction Runoff Control**

- a. Regulatory Control Program - Total Impervious Area limitations - Total allowable hardscape quantities are tracked in perpetuity for an individual parcel. Should a secondary development phase be brought to the Village for permitting, total impervious calculations must be provided. Stormwater detention requirements (per Village code 9-83) apply.
- b. Regulatory Control Program - Tree Preservation Ordinance (Chapter 34 21-29) - The Village places great value in trees throughout the Village. Beyond aesthetics, trees provide for stormwater runoff mitigation and a water quality asset. Trees also act as a major contributor to the lessening of erosion, both on flat lands as well as steep slopes. Should a resident desire to remove a tree, a tree removal permit must first be submitted. Village staff will review applications as well as investigate the tree requested for removal. The Village's ordinance provides staff with latitude to deem whether tree removal would have major adverse impacts if approved. The Village keeps track of all tree removal permits and required tree removal deposits. The Village will continue to require the permitting for any requested qualified tree removal.
- c. Regulatory Control Program - Village ordinance 21A-2 regulates illegal disposal of wastes : "It shall be unlawful for any person to place, deposit or permit to be deposited in any unsanitary manner on public or private property within the village or in any area under the jurisdiction of the village, any human or animal excrement, garbage or other objectionable waste." and " It shall be unlawful to discharge to any natural outlet or storm sewers within the village or in any area under the jurisdiction of the village, any sewage or other polluted waters, except where suitable treatment has been provided in accordance with subsequent provisions of this chapter." This ordinance focuses on the prevention of resident dumping of wastes into the Village's storm sewer infrastructure and contaminating the natural outfalls. The Village investigates outfalls during routine maintenance inspections as well as during the annual outfall inspections. Any illegal dumping would be recorded, and a log maintained in perpetuity.

- d. Long Term O&M Procedures - Storm Sewer cleaning/ Catch Basin cleaning/ Storm sewer CCTV - Village staff routinely perform cleaning and televising activities on the Village's storm sewer mainlines, catch basins, and manholes.

**G. Pollution Prevention/Good Housekeeping**

- a. Inspection and Maintenance Program - Storm structure cleaning/Storm sewer mainline cleaning/Storm sewer CCTV - Village operations staff routinely cleans storm sewer structures (manholes, inlets, and catch basins) and storm sewer mainlines. Televising of storm sewers is also utilized when cleaning operations indicate a visual inspection is needed.
- b. Municipal Operations Waste Disposal - Street sweeping and Leaf collection - Village staff has established routes for street sweeping and leaf collection. Both operations decrease the amount of solid debris and organics entering the storm sewer collection system.
- c. Municipal Operations Waste Disposal - Solid waste receptacle requirements/Accumulation of waste prohibitions - Village ordinance (20-12) requires that, "All solid waste placed out for collection must be bagged and placed in closed metal or plastic cans that have handles and tight-fitting covers, and are of sturdy, leakproof construction. In no event may solid waste be left exposed to the elements." This ordinance directly focused on prevention of waste product leeching into the Village's storm sewer collection system. Village ordinance (20-6) addresses, "Any dumping, depositing, disposal, or accumulation of solid waste or landscape waste in violation of the provisions of this chapter is hereby declared to be a nuisance and in violation." This ordinance also aids in a water quality aspect by prevention of waste leeching should wastes be left out exposed to the elements. The Village routinely keeps a watchful eye out for any dumping violations. Any such violations are logged, and the log is maintained in perpetuity. The Village will continue to watch and record any such violations.
- d. Flood Management/Assess Guidelines - Hazardous Waste Storage - Village Ordinance (9-101) regulates public health standards via, "No developments in the SFHA shall include locating or storing chemicals, explosives, buoyant materials, animal wastes, fertilizers, flammable liquids, pollutants or other hazardous or toxic materials below the flood protection elevation." This ordinance focuses on the elimination of hazardous waste leeching during rain event in mapped floodplain areas.
- e. Other Municipal Operations Controls - Salt storage - The Village stores all salt used for winter de-icing in a covered storage area, to ensure salt is not exposed to the elements.
- f. Other Municipal Operations Controls - Snow and Ice Control Plan - The Village maintains a snow and ice control plan. Beyond routing of fleet vehicles, the plan addresses strategic distribution of brine and rock salt, dependent on the snow event. Village staff maintains records of the quantities of rock salt and brine used each winter which is normalized versus total snowfall for the winter season. Staff consistently looks for ways to decrease unnecessary salting and brining of roads by studying past operations practices and foretasted weather events. The Village will continue to maintain logs on salt usage and study ways to decrease quantities of application while maintaining a safe

driving environment for residents. Overall salt and brine usage decreased between winter 2016 and winter 2017.

- g. Other Municipal Operations Controls -Spill Prevention Contamination and Countermeasures Plan (SPCC)- The Village annually updates the SPCC plan. The plan is intended to minimize hazards to human health and the environment from any unplanned sudden or non-sudden release of processed fluids. In the event of a spill, staff is trained, via this plan, on proper procedures to contain spills and minimize adverse effects to both humans and the natural environment. Any spills are maintained in a log and properly addressed. No spills occurred between June 2017 to May 2018. Any future spills will be logged and addressed accordingly.

#### **H. Water Quality Monitoring**

- a. The Village is a member of the North Branch Watershed Workgroup. As a member of the North Branch Watershed Workgroup, annual water quality monitoring is completed throughout the watershed.

#### **I. Reporting**

- a. Notice of Intent – The term of the Village’s General Permit from the IEPA is five years. At the end of each permit term, the Village submits a Notice of Intent to comply with the conditions of the General Permit to the IEPA. This Notice of intent describes the practices the Village intends to implement in order to meet he conditions of the General Permit.
- b. Annual Reports – Each year the Village submits a report to the IEPA documenting its status of compliance with the conditions of the General Permit.