



Construction Activity Pollution Prevention Plan PROJECT EXAMPLE					
SITE DESCRIPTION					
Project Name and Location:	University Center 1 Main St Chicago, IL 60637	Owner Name and Address:	University 1 Main St Chicago, IL 60637		
<b>Description: Purpose and Types of Soil Distributing Activities</b>					
<p>The proposed development consists of construction of a day care facility. Project is approximately 13,305 sf with parking, access roads, and stormwater facilities. The construction activities for site improvements will include: mass grading and excavation, concrete/pavement construction, installation of site utilities (including storm sewers, sanitary sewers, water service, electric, gas, cabling), soil erosion and sedimentation control measures, landscaping and site stabilization.</p> <p>Soil Disturbing activities for major parts of the site are site excavation, mass grading, and site utilities.</p> <p>NPDES General Permit number: ILR10</p>					
Site Area:	The total area of the construction site is estimated to be .81 acres. The total area of the site that it is estimated will be disturbed by excavation, grading, or other activities is .64 acres.				
<b>Sequence of Major Activities:</b>					
<p>The sequence of construction activities will be as follows:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top; padding: 5px;"> <ol style="list-style-type: none"> <li>1. Install filter fence</li> <li>2. Install stabilized construction entrance.</li> <li>3. Mass Grading/Mass Excavation</li> <li>4. Install Fencing/Access Roads</li> <li>5. Structural Excavation</li> <li>6. Foundations/Walls/Pads</li> <li>7. Steel Erection</li> <li>8. Slab on Grade</li> <li>9. Roofing</li> <li>10. Under slab Mechanical/Electrical</li> <li>11. Temp Lighting</li> </ol> </td> <td style="width: 50%; vertical-align: top; padding: 5px;"> <ol style="list-style-type: none"> <li>12. Grading in Pavement Area</li> <li>13. Underground utilities installation: Sewer, water, storm utilities</li> <li>14. HVAC/Electric/FP/Plumb Rough/Trim</li> <li>15. Site Lighting Rough-In</li> <li>16. Construction of Curbs and Sidewalks</li> <li>17. Pavement Construction</li> <li>18. Windows/Exterior Doors</li> <li>19. Interior Finish-Out</li> <li>20. Concrete and Asphalt Paving</li> <li>21. Landscaping</li> </ol> </td> </tr> </table>				<ol style="list-style-type: none"> <li>1. Install filter fence</li> <li>2. Install stabilized construction entrance.</li> <li>3. Mass Grading/Mass Excavation</li> <li>4. Install Fencing/Access Roads</li> <li>5. Structural Excavation</li> <li>6. Foundations/Walls/Pads</li> <li>7. Steel Erection</li> <li>8. Slab on Grade</li> <li>9. Roofing</li> <li>10. Under slab Mechanical/Electrical</li> <li>11. Temp Lighting</li> </ol>	<ol style="list-style-type: none"> <li>12. Grading in Pavement Area</li> <li>13. Underground utilities installation: Sewer, water, storm utilities</li> <li>14. HVAC/Electric/FP/Plumb Rough/Trim</li> <li>15. Site Lighting Rough-In</li> <li>16. Construction of Curbs and Sidewalks</li> <li>17. Pavement Construction</li> <li>18. Windows/Exterior Doors</li> <li>19. Interior Finish-Out</li> <li>20. Concrete and Asphalt Paving</li> <li>21. Landscaping</li> </ol>
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CONTROLS					
Erosion and Sediment Controls					
Stabilization Practices					
<p>Interim and Temporary Stabilization- Site plans ensure that existing vegetation is preserved where attainable and disturbed portions of the site will be stabilized. Except as provided specific situations, stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than 7 days after the construction activity in that portion of the site where construction activity will not occur for a period of 14 or more calendar days. Specific situations that might not permit this are where the initiation of stabilization measures by the 14 day after construction activity ceases is precluded by snow cover, stabilization measures shall be initiated as soon as possible thereafter. Polymer or erosion matting shall be applied to disturbed areas left inactive for more than 14 days to ensure soil stabilization in non-growing season. Areas of the site, which are to be paved, will be temporarily stabilized by applying geotextile and stone sub-base until bituminous pavement and/or concrete can be applied. At a minimum, the following interim and permanent stabilization practices will be implemented to stabilize the disturbed area of the site: Permanent seeding, Silt Filter Fence, Vegetative Filter, Stabilized Construction Entrance, Barrier Filter. The stabilized construction entrance shall be maintained to prevent tracking of sediment onto public streets. This will be done by top dressing with additional stones, remove and replace top layer of stones or washing the entrance.</p>					

The sediment washed on the public right of way will be removed immediately. Silt Filter Fences shall be maintained through out to make sure that they meet all standards. Silt fence cannot be fully installed around the perimeter of the site until grubbing is done to make way for the silt fence. Silt fences will be removed and replaced as needed. Straw bale barrier filters will be inspected frequently and repaired, removed, or replaced as needed. Vegetative erosion control measures: The vegetative growth of temporary and permanent seeding, sodding, vegetative channels, vegetative filter, etc shall be maintained periodically and supply adequate watering and fertilizer. The vegetative cover shall be removed and reseeded as necessary

**Structural Practices**

The following Structural Practices will be implemented, to the degree attainable, to divert flows from exposed soils, store flows, or otherwise limit runoff and the discharge of pollutants from exposed areas of the site: silt fence, stone tracking mat, inlet protection including sediment baskets and silt fences as structural practices. When existing drainage facilities are disturbed, the contractor shall provide and maintain temporary outlets and connections for all private and public drains, sewers or catch basins. Contractor shall provide facilities to take in all storm water and will maintain a efficient pumping plan if necessary and a temporary outlet, and be prepared at all times to dispose of the water from temporary connections until such time as the pavement connections with the sewers are built and in service

**Controls Sequencing**

In general, controls shall be installed immediately as construction permits. Silt fence and tracking mat shall be installed prior to any earth moving activities. Inlet grate screens shall be installed as soon as the storm sewer is completed. All excavated material that is to be stored onsite shall be protected from erosion by a measure approved by the City of Chicago's Department of Water Management. Material stockpiles shall not be located in special management areas or required buffers. All catch basins and sumps will be cleaned at the end of the project prior to final acceptance.

**Storm Water Management**

The measures that will be installed during the construction process to control pollutants in storm water discharges that will occur after construction operations have been completed are Storm Sewers, inlet filters, green roof. Storm water drainage will be provided by curb and gutter, storm sewer, catch basins, roof drain, and permeable hardscapes for the developed areas. When construction is complete the entire site will drain into the existing stormtrap located at the northwest portion of the site, and then will be discharged to the City of Chicago combined sewer and stormwater system. All stormwater structures with open lids shall receive inlet and pipe protection measures. Protection shall remain until the site is permanently stabilized. All stormwater that is to be pumped shall be filter treated to remove soil particles prior to discharge from the site.

**OTHER CONTROLS**

**Waste Disposal:**

**Waste Materials:**

All waste materials will be collected and stored during demolition and construction in securely lidded metal dumpsters from a licensed solid waste management company in Chicago, IL. The dumpster will meet all City of Chicago and any State solid waste management regulations. All trash and construction debris from the site will be deposited in the dumpster. The dumpster will be emptied a minimum of two times a week or more often as necessary. The waste management firm will handle the sorting and allocation of recyclables from the construction waste including but not limited to: metal, glass, wallboard, brick, concrete, cardboard, and wood waste. There will be a single commingled dumpster on site during construction. During demolition, demolition contractor will utilize RSI for their waste management using one commingled dumpster. Omega will also have on site other small dump boxes for diversion of steel or other commodities. No construction waste materials will be buried on site. All personnel will be instructed regarding procedure for waste disposal. Notices stating these practices will be posted in the office trailer and the site superintendent will be responsible for seeing that these procedures are followed.

**Hazardous Waste Materials:**

All hazardous waste from the construction and site will be handled by Waste Management, Inc. in a manner specified by Local or State regulation or by the specific manufacturer of the hazardous waste. Site personnel will be instructed in these practices and the site superintendent will be responsible for seeing that these procedures are followed.

**Sanitary Waste:**

The sanitary sewage will be discharged to the proposed sanitary sewer constructed per IEPA and local standards. All sanitary waste will be collected from the portable units a minimum of 1 times per week by a licensed City of Chicago sanitary waste management contractor as required by local regulation.

**Offsite Vehicle Tracking**

An aggregate construction entrance with a membrane has been provided to help reduce vehicle tracking of sediments. The paved street adjacent to the site entrance will be swept daily to remove any excess mud, dirt or rock tracked from the site. Dump trucks hauling material from the construction site will be covered with a tarpaulin.

**CERTIFICATION OF COMPLIANCE WITH STATE AND LOCAL REGULATIONS**

The Erosion and Sedimentation Control Plan is included on drawing sheets C4.0.0 & C4.0.1, with additional provisional documentation included on Project Specifications sheets C-1.0 & C-1.1. This plan meets City of Chicago requirements for storm water management and erosion and sediment control. To ensure compliance this plan was prepared in accordance with the provisions of the NPDES General Permit Number ILR10 as well as IEPA requirements. The management practices, controls, and other provisions contained in this plan are in accordance with the requirements of the City of Chicago. Requirements specified in sediment and erosion control site plans or site permits or storm water management site plans or site permits approved by local officials that are applicable to protecting surface water resources are, upon submittal of an NOI to be authorized to discharged under this permit, incorporated by reference and are enforceable under this permit even if they are not specifically included in this plan.

**MAINTENANCE/INSPECTION PROCEDURES**

The Contractor shall provide qualified personnel to inspect disturbed areas of the construction site which have not been finally stabilized, structural control measures, and location where vehicles enter or exit the site. Such inspections shall be conducted at least once every seven (7) calendar days and within 24 hours of the end of a storm that is 0.5 inches or greater or equivalent snowfall.

- a. Disturbed area and areas used for storage of materials that are exposed to precipitation shall be inspected for evidence of, or the potential for, pollutants entering the drainage system. Erosion and sediment control measures identified in the plan shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters. Locations where vehicles enter or exit the site shall be inspected for evidence of off site sediment tracking.
- b. Based on the results of the inspection, the description of potential pollutant sources and pollution prevention measures taken shall be revised as appropriate as soon as practicable after such inspection. Any changes to this plan resulting from the required inspections shall be implemented within 7 calendar days following the inspection.
- c. An inspection report or form summarizing the scope of the inspection, name and qualifications of personnel making the inspection, the date of the inspection, major observations relating to the implementation of this storm water pollution prevention plan, and actions taken shall be made and retained as part of the plan for at least three years after the date of the inspection. The report shall be signed in accordance with requirements of the general permit.

Further inspection and maintenance practices that will be used to maintain erosion and sediment controls:

- All measures will be maintained in good working order; if a repair is necessary, it will be initiated within 24 hours of report
- Built up sediment will be removed from the silt fence when it has reached one-third the height of the fence.
- Silt fence will be inspected for depth of sediment, tears, to see if the fabric is securely attached to the fence posts, and to see that the fence posts are firmly in the ground.
- A maintenance inspection report will be made after each inspection. A copy of the report form to be completed by the inspector is attached.
- We will be responsible for inspections, and filling out the inspection and maintenance report. Further we will provide photo documentation of this CAPP Plan for LEED submittal.
- Site superintendent, will notify subcontractor's of corrections needed and follow up to ensure that they are completed for keeping the erosion and sediment controls used onsite in good working order.

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<b>Non-Storm Water Discharges</b>
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Except for flows from fire fighting activities, sources of non-storm water that may be combined with storm water discharges associated with the activity of this plan are described below:

- Fire fighting activities
- Water Main Flushing
- Fire Hydrant Flushing
- Watering for Dust Control/Pavement Wash Waters (where no spills or leaks of toxic or hazardous materials have occurred).
- Irrigation drainage for vegetative growth for seeding, etc.
- Vehicle wash water where detergents are used.
- Uncontaminated groundwater, (from dewatering excavation)
- Other non-storm water discharges as allowed by the general permit.

The pollution prevention measures will be implemented for non-storm water components of the discharge: The fire hydrant and water main shall not be flushed directly on the exposed area or sub grade of the pavement. Hoses shall be used to direct the flow into the storm sewer system.

<b>INVENTORY FOR POLLUTION PREVENTION PLAN</b>
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The materials or substances listed below are expected to be present onsite during construction: Concrete, Detergents, Paints (enamel and latex), Metal Studs, Concrete, Tar, Fertilizers, Petroleum Based Products, Cleaning Solvents, Wood, Masonry Block, EPDM Roofing Materials.

<b>SPILL PREVENTION</b>
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<b>Material Management Practices</b>
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The following are the material management practices that will be used to reduce the risk of spills or other accidental exposure of materials and substances to storm water runoff.

<b>Good Housekeeping:</b>			
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The following good housekeeping practices will be followed onsite during the construction project:

- An effort will be made to store only enough product required to do the job.
- All materials stored onsite will be stored in a neat, orderly manner in their appropriate containers and, if possible, under a roof or other enclosure.
- Products will be kept in their original containers with the original manufacturer's label
- Substances will not be mixed with one another unless recommended by the manufacturer
- Whenever possible, all of a product will be used up before disposing of the container
- Manufacturers' recommendations for proper use and disposal will be followed

The Site Superintendent, will inspect daily to ensure proper use and disposals onsite.

<b>Hazardous Products:</b>			
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These practices are used to reduce the risks associated with hazardous materials.

- Products will be kept in original containers unless they are not resealable.
- Original labels and MSDS will be retained; they contain important product information
- If surplus product must be disposed of, manufacturer's or local and State recommended methods for proper disposal will be followed.

<b>Petroleum Products:</b>			
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All onsite vehicles will be monitored for leaks and receive regular preventative maintenance to reduce the chance

of leakage. Petroleum products will be stored in tightly sealed containers which are clearly labeled. Any asphalt substances used onsite will be applied according to the manufacturers recommendations.

**Fertilizers:**

Fertilizers used will be applied only in the minimum amounts recommended by the manufacturer. Once applied, fertilizer will be worked into the soil to limit exposure to storm water. Storage will be in a covered location. The contents of any partially used bags of fertilizer will be transferred to a sealable plastic bin to avoid spills.

**Paints:**

All containers will be tightly sealed and stored when not required for use. Excess paint will not be discharged to the storm sewer system but will be properly disposed of according to manufacturers' instructions or State and local regulations.

**Concrete Trucks:**

Concrete trucks will not be allowed to wash out or discharge surplus concrete or drum wash water on the site.

**Spill Control Practices**

In addition to the good housekeeping and material management practices discussed in the previous sections of this plan, the following practices will be followed for spill prevention and cleanup:

- Manufacturers' recommended methods for spill cleanup will be clearly posted and site personnel will be made aware of the procedures and the location of the information and cleanup supplies.
- Materials and equipment necessary for spill cleanup will be kept in the material storage area onsite. Equipment and materials will include but not be limited to brooms, dust pans, mops, rags, gloves, goggles, kitty litter, sand, sawdust, and plastic and metal trash containers specifically for this purpose.
- All spills will be cleaned up immediately after discovery.
- The spill area will be kept well ventilated and personnel will wear appropriate protective clothing to prevent injury from contact with a hazardous substance.
- Spills of toxic or hazardous material will be reported to the appropriate State or local government agency, regardless of the size.
- The spill prevention plan will be adjusted to include measures to prevent this type of spill from reoccurring and how to clean up the spill if there is another one. A description of the spill, what caused it, and the cleanup measures will also be included.
- The site superintendent responsible for the day-to-day site operations will be the spill prevention and cleanup coordinator. He will designate at least three other site personnel who will receive a spill prevention and cleanup training. These individuals will each become responsible for a particular phase of prevention and cleanup. The names of responsible spill personnel will be posted in the material storage area and in the office trailer onsite.

**POLLUTION PREVENTION PLAN CERTIFICATION**

I certify under penalty of law that this document and all attachments per prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.

Signed: \_\_\_\_\_

Date: \_\_\_\_\_

**CONTRACTOR'S CERTIFICATION**

I certify under penalty of law that I understand the terms and conditions of the general National Pollutant Discharge Elimination System (NPDES) permit that authorizes the storm water discharges associated with industrial activity from the construction site identified is part of this certification.

Signature	For	Responsible For:
Signature: _____ Name and Title: _____ Date: _____	Business Address:	Trade Work
Signature: _____ Name and Title: _____ Date: _____	Business Address:	Temporary and Permanent Stabilization
Signature: _____ Name and Title: _____ Date: _____	Business Address:	Stabilized Construction Entrance, Earth Dikes, Detention Pond/Sediment Basin

## ESC/CAPP/SWPPP Construction Site Inspection Report

General Information			
Project Name	University Center		
NPDES Permit No.		Location	1 Main St Chicago, IL 60637
Date of Inspection		Start/End Time	
Inspector's Name(s)	John Smith, Sam Jones		
Inspector's Title(s)	Site Superintendent, Project Engineer		
Inspector's Contact Information	111-111-1111, john.smith@gmail.com  222-222-2222, sam.jones@gmail.com		
Describe present phase of construction			
Type of Inspection			
Regular/Weekly	Pre-storm event	During storm event	Post-storm event
Has it rained since the last inspection?			
Yes No			
If yes, provide:			
Storm Start Date & Time:	Storm Duration (hrs):	Approximate Rainfall (in):	
Weather at time of this inspection?			
Do you suspect that discharges <u>may have occurred since the last inspection?</u> Describe:			
Yes No			

Are there any discharges at the time of inspection? Describe:

Yes No

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Stabilization Measures:  
 Area:  
 Date since last Disturbed:  
 Date of Next Disturbance:  
 Stabilized?  
 Yes No  
 Stabilized with:  
 Condition:

Site-specific BMPs

*Number the structural and non-structural BMPs identified in your SWPPP on your site map and list them below (add as many BMPs as necessary). Carry a copy of this numbered site map with you during your inspections. This list will help ensure that you are inspecting all required BMPs at your site. Customize this section as needed.*

	BMP Description	BMP Installed and Operating Properly?	Required Inspection Items	Description of Corrective Action Needed, by what date	Date of corrective action/resp. party
1	Silt Fence	Yes No			
2	Temporary Seeding	Yes No			
3	Erosion Control Blanket	Yes No			
4	Inlet Protection	Yes No			
5	Vegetative Filters	Yes No			
6	Permanent Seeding	Yes No			
7	Stabilized Construction Entrance	Yes No	<p>Does much sediment get tracked onto road?</p> <p>Is the gravel clean or is it filled with sediment?</p> <p>Does all traffic use the stabilized construction entrance to leave the site?</p> <p>Is the culvert beneath the entrance working?</p>		



	BMP Description	BMP Installed and Operating Properly?	Required Inspection Items	Description of Corrective Action Needed, by what date	Date of corrective action/resp. party
8	Dumpsters w/ Covers	Yes No			
9	Dumpsters without Covers	Yes No			
		Yes No			
		Yes No			
		Yes No			
		Yes No			
		Yes No			
		Yes No			
		Yes No			

Below are some general site issues that should be assessed during inspections.

Overall Site Issues

	BMP/activity	Implemented?	Maintained?	Corrective Action	Date for corrective action/responsible person
10	Are all slopes and disturbed areas not actively being worked properly stabilized?	Yes No	Yes No		
11	Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) protected with barriers or similar BMPs?	Yes No	Yes No		
12	Are perimeter controls and sediment barriers adequately installed (keyed into substrate)	Yes No	Yes No		

	BMP/activity	Implemented?	Maintained?	Corrective Action	Date for corrective action/responsible person
	and maintained?				
13	Are discharge points and receiving waters free of sediment deposits?	Yes No	Yes No		
14	Are storm drain inlets properly protected?	Yes No	Yes No		
15	Is there evidence of sediment being tracked into the street?	Yes No	Yes No		
16	Is trash/litter from work areas collected and placed in covered dumpsters?	Yes No	Yes No		
17	Is a concrete washout facility available, clearly marked, and maintained?	Yes No	Yes No		
18	Are washout facilities (e.g. paint, stucco, concrete) available, clearly marked, and maintained?	Yes No	Yes No		
19	Are vehicle and equipment fueling, cleaning, and maintenance areas free of spills, leaks, or any other deleterious material?	Yes No	Yes No		
20	Are materials that are potential stormwater contaminants stored	Yes No	Yes No		

	BMP/activity	Implemented?	Maintained?	Corrective Action	Date for corrective action/responsible person
	inside or under cover?				
21	Are non-stormwater discharges (e.g., wash water, dewatering) properly controlled?	Yes No	Yes No		
22	(Other)	Yes No	Yes No		
23	Changes required to the CAPPP or SWPPP?  Reasons for changes?	Yes No	Yes No		

Certification statement:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Print name: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_