Storm Water Pollution Prevention Plan

IBC

2320 NE Independence Ave. Lee's Summit, MO

Prepared for AL Huber 10770 El Monte St. Overland Park, KS



2018

Prepared by:

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Erosion Control Plan	
Reports – To Be Completed By Contractor Inspection and Maintenance Report Form A Inspection and Maintenance Report Form B	

IBC STORMWATER POLLUTION PREVENTION PLAN (SWPPP)

SITE DESCRIPTION

Project Name:

IBC

Project Location:

2320 NE Independence Ave. Lee's Summit, MO

Owner Name: Brandy McCombs

Owner Address:

2320 NE Independence Ave. Lee's Summit, MO

Description:

This project consists of approximately 1.36 acres, with the site generally sloping from North to South. The project activities will include construction of a parking lot, new building construction and associated utility installation.

		The existing runoff coefficient (C) for the site is 0.32.
Coefficient:	Proposed:	The proposed runoff coefficient (C) for the site is 0.63.
Site Area:		1.36 acres are to be disturbed during construction activities.

Sequence of Major Activities:

The order of activities will be as follows:

- Install perimeter silt fence, construction entrances, & inlet protection.
- 2. Clear and grub areas to be disturbed.
- 3. Demolition: pavement
- 4. Rough grade site.
- 5. Utility installation

- 6. Finish grade site
- 7. Building construction
- 8. Construct concrete curbs, entrances, sidewalks, & asphalt pavement.
- 9. Stabilize site (seeding & landscaping)
- 10. Remove erosion control BMP's

Responsible Parties:

Individual/Company	Phone Number	Provided
AL Huber	913-341-4880	General Contractor
		Erosion Control Contractor/Inspector
		SWPPP Revisions/Maintenance
		Stabilization

Name of Receiving Waters:

is on 303(d) list: YES

Pollutant Addressed: Escherichia Coli (W)

This specific project or general construction activity is identified on 303(d) list or associated assumptions and allocations identified in the TMDL for the discharge:

NO.

Additional Controls Implemented: NONE

The entire site drains to a tributary to Little Blue River

Project is located within the jurisdiction of an MS-4

	ATTAINMENT OF WATER QUALITY STANDARDS AFTER AUTHOR	ZATION	
a.	The permittee must select, install, implement, and maintain BMPs at the con pollutants in the discharge as necessary to meet applicable water quality sta in situations explained below, the SWPPP developed, implemented, and upon stringent as necessary to ensure that the discharges do not cause or contribution any applicable water quality standard.	ndards. In ge dated to be cor	neral, except nsidered as
b.	At any time after authorization, the Department may determine that the storn cause, have reasonable potential to cause, or contribute to an excursion aborquality standard. If such a determination is made, the Department will require	ove any applica	able water
	 Develop a supplemental BMP action plan describing SWP adequately the identified water quality concerns and submand information that are representative of ambient conditions receiving water is attaining water quality standards; or 	it valid and ve	rifiable data
	 ii. Cease discharges of pollutants from construction activity a permit application 	and submit an	individual
	d and agree to follow the above text regarding the attainment of water quality fter authorization.	Yes 🗹	No 🗌
	STORMWATER CONTROLS		
	Initial Site Stabilization, Erosion, and Sediment Controls and Best Managem	ent Practices	
a.	Initial Site Stabilization: Site will only be initially disturbed as necessary to concess than one acre of land should be disturbed in the process.		_
b.	Erosion and Sediment Controls: BMPs include temporary construction entrances, perimeter/interior silt fence, inlet / outlet protection, native vegetation swales and bioretention cell storm systems		
C.	If periodic inspections or other information indicates a control has been used inappropriately or incorrectly, the operator will replace or modify the control for site situations:	Yes 🗸	No 🗌
d.	Off-site accumulations of sediment will be removed at a frequency sufficient to minimize off-site impacts:	Yes ✓	No 🗌
e.	Sediment will be removed from sediment traps or sedimentation ponds when design capacity has been reduced to 50%:	Yes 🗸	No 🗌
f.	Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from becoming a pollutant source for stormwater discharges:	Yes 🗸	No 🗌
g.	Off-site material storage areas used solely by the permitted project are being covered by this SWPPP:	Yes ✓	No 🗌
	Any potential off-site storage areas used by the permitted project will be de will be protected by silt fencing or other appropriate E		ontractor and
	Stabilization Practices		
a.	Description and Schedule: After initial BMP installation (perimeter silt fence, protection), the site will be cleared, grubbed, and graded. All BMPs will be n remainder of the project and site stabilization.		
b.	Buffer Areas: All proposed grading activities at least twenty-five (25) feet from any named or unnamed streams. Grading activities are also at least fifty (50) feet from any established TMDL water bodies, streams listed on the 303 (d)-list, Extraordinary Resource Waters, Ecologically Sensitive Water bodies and Natural and Scenic Waterways.	Yes ☑	№ □
C.	Stabilization Records: A record of the dates when grading activities occur, when construction activities temporarily or permanently cease on a portion of the site, and when stabilization measures are initiated shall be included with the plan. (see below)	Yes ✓	No 🗆

	WO	RK TRACKING (ATTACH ADDIT	TIONAL SHEETS IF NEEDE	ED)
		Description	Date Begun	Date Complete
Major Grading				
Activity				
		Description	Date Begun	Date Complete
Construct. Activity				
Cessation				
		Description	Date Begun	Date Complete
Stabilization				
Measure(s)				
d.	practicable in p but in no case	chedule: Except as provided belo portions of the site where construct more than 14 days after the cons permanently ceased.	tion activities have tempora	rily or permanently ceased,
	i.	Where stabilization by the 14 th conditions, stabilizations meas		
	ii.	Where construction activity disturbing activities will be resido not have to be initiated on the second s	umed within 14 days, tempo	

initiated as soon as practicable.

In semiarid and drought-stricken areas where initiating perennial vegetative

stabilization measures is not possible within 14 days after **construction activity** has temporarily or permanently ceased, final vegetative stabilization measures must be

iii.

			Erosion Control Practices			
✓	Silt Fence	√	Inlet Protection		Ditch checks	
	Sediment Basin	J	Seeding/mulching		Other:	
	Straw bales	✓	Temporary construction entrance			
			Structural Practices			
a.	Earth Stockpiles: Filter use.	fabric fer	nces or straw bales around temp	oorary earth	stockpiles while	e they are in
,						
b.	b. Storm Sewer Inlets: Straw bales or filter fabric fence around storm sewer inlets until all disturbed areas surrounding the inlets are stabilized.					urbed areas
C.	trenches in a continuou	s operat	evation spoils not immediately had ion. Excavated material required f the depth of the trench, for safe	d for backfilli		
			Other Controls			
a.	Solid materials, includir discharged to Waters o		ng materials, shall be prevented te:	from being	Yes ✓	No 🗆
b.	Off-site vehicle tracking dust shall be minimized		nents and the generation of the use of:		d construction ce and exit	V
				Vehicle t	ire washing	
				Other cont	rols, describe	
			onsible for cleanup of all offsite			
C.			All sanitary waste will be collecte nitary waste management contra			
d.	Concrete Waste Area F	rovided:		`	Yes .	7
					No	
				1	N/A	
e.	Fuel Storage Areas: Fu occur on the Temporary		will be placed in bermed areas uction Entrances	if kept onsite	e. Truck Wash	ing shall only

	Non-Stormwater Discharges			
a.	The following allowable non-stormwater discharges comingled with stormwater are present or anticipated at the site:	Fire-fighting acti	ivities;	
		Fire hydrant flus	hings;	7
		Water used to wash ve detergents, etc. are no control dus	ot used) or to	V
		Potable water source uncontaminated waterli		
		Landscape Irrig	ation;	7
		Routine external buildin which does not use det	ergents, etc.;	7
		Pavement wash waters or leaks of toxic or h materials have not occ all spilled materials l removed) and where de	nazardous urred (unless have been	Y
		Uncontamined air co compressor cond	•	
		Uncontaminated spring dewatering and gro	undwater;	
		Foundation or footing of flows are not contame process materials such	inated with	
b.	All non-storm water discharges will be directed to ap- control devices (silt fence, etc.) to minimize the sedi the site.	ment discharged from	Yes ✓	No□
	Post Construction Stormwate	er Management		
Describe r	measures installed during the construction process to o occur after construction operations have been c	completed: Underground		ges that will
	Applicable State or Loca	~		
	will be updated as necessary to reflect any revisions to requirements that affect the stormwater controls implements.		Yes ✓	No 🗌

	Inspections			
a.	Inspection frequency:	Every 7 calendar days or		
		At least once every 14 calendar days and within 24 hours of the end of storm event 0.5" or greater (a rain gauge must be maintained on-site)	7	
b.	Inspections: Completed inspection forms will be kept within the SWPPP	Inspection forms, included, will be used	J	
C.	Inspection records will be retained as part of the SV date of termination.	VPPP for at least three years from the	4	
d.	It is understood that the following sections describe waivers of site inspection requirements. All	Winter Conditions (see Stabilization Practices)	7	
	applicable documentation requirements will be followed in accordance with the referenced sections:	Adverse Weather Conditions (see Stabilization Practices)	7	

Maintenance

Describe measures installed during the construction process to control pollutants in stormwater discharges that will occur after construction operations have been completed: Underground Detention

Erosion and Sediment Control inspection and Maintenance Practices

These are the inspection and maintenance practices that will be used to maintain erosion and sediment controls. The stormwater pollution prevention plan controls and measures contained, indicated and outlined herein are based on accepted standards and good engineering practice. Erosion control measures shall be installed in accordance with the plan details, State and Local standards, and quality construction practice.

- Pollution prevention measures constructed on the site shall be inspected and a report shall be written by
 a qualified representative of the property once every fourteen (14) calendar days and within 24 hours of a
 rainfall event measuring 0.5 inches in a 24-hour period. Inspection and reporting at this rate shall
 continue until final stabilization is completed and henceforth at a monthly interval until a Notice of
 Termination is accepted by
- The site will be disturbed only as necessary and phased as needed to minimize effects.
- All measures will be maintained in good working order; if a repair is necessary, it will be initiated within
 72 hours of the report.
- Built-up sediment will be removed from silt fence and inlet protection when it has reached one-third the height of the structure.
- 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.
- Construction Entrances shall be cleaned, turned over, or rock excavated and replaced when the rock becomes clogged with silt. Under no circumstances are soils to be permitted to be tracked off-site.
- Disturbed areas shall be stabilized with mulch or similarly effective soil stabilization BMP's whenever soil
 disturbing activities have permanently ceased or temporarily ceased and will not resume for a period
 exceeding 14 days. Stabilization is to be initiated immediately when the soil disturbing activities cease,
 with initial stabilization activities to be completed within 21 days.
- Temporary and permanent seeding and planting will be inspected for bare spots, washouts, and healthy growth.
- A maintenance inspection report will be made after each inspection. A copy of the report form to be completed by the inspector is attached.
- The site superintendent will select individuals who will be responsible for inspections, maintenance and repair activities, and filling out the inspection and maintenance reports.
- Personnel selected for inspection and maintenance responsibilities will receive training from the site superintendent. They will be trained by the superintendent in all the inspection and maintenance practices necessary for assessing effectiveness and keeping the erosion and sediment controls used onsite in good working order.

Employee Training

The Contractor shall train personnel who are responsible for implementing activities identified in the SWPPP on the components and goals of the SWPPP and the requirements of the general permit. This includes contractors and subcontractors. Training will be given by a knowledgeable and qualified trainer. Formal training shall be at the start of construction and monthly thereafter, with pertinent discussions and training opportunities about the SWPPP and issues/changes as necessary between training sessions. Records of formal training shall be maintained within the SWPPP. Training records that are maintained electronically (i.e. database, etc) do not need to be maintained within the SWPPP but must be accessible upon request.

***Formal training classes given by Universities or other third-party organizations are not required but recommended for qualified trainers; the Contractor is responsible for the content of the training being adequate for personnel to implement the requirements of the SWPPP.

·	Inventory for Pollution Prevention Plan				
The following	materials or substances are expected t				
7	Fertilizer	7	Petroleum Based Products		
_	Cleaning Solvents		Masonry Block		
J	Tar		Wood		
J	Concrete	J	Metal Studs		
√	Paints	✓	Detergents		
	Roofing Shingles		Other:		
	SPI	ILL PREVENT	TION		
		Management			
	are the material management practices materials and substances to storm water		used to reduce the risk of spills or other accidental		
Good Housel		Turion.			
The following	good housekeeping practices will be fo	llowed onsite	during the construction project.		
•	An effort will be made to store only en	ough product	t required to do the job		
•	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 w	ill be used be	fore disposing of the container		
•	Manufacturers' recommendations for p	proper use ar	nd disposal will be followed		
•	The site manager will inspect daily to	ensure prope	r use and disposal of materials onsite.		
Hazardous Pi	roducts:				
These practices are used to reduce the risks associated with hazardous materials.					
•	Products will be kept in original containers unless they are not re-sealable				
•	Original labels and material safety dat	ta sheets will	be retained; they contain important product		
•	If surplus product must be disposed o proper disposal will be followed.	մ, manufactur	rers' or local and State recommended methods for		

SPILL PREVENTION (Continued)

Product Specific Practices

The following product specific practices will be followed onsite:

Petroleum Products:

All onsite vehicles will be monitored for leaks and receive regular preventive 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 manufacturer's recommendations.

Concrete:

Concrete is considered to be a water contaminant and, therefore, is subject to the standards mentioned above. It is illegal to dispose of concrete in any waters of the state or to place, cause, or permit concrete to be placed in a location where it is reasonably certain to cause pollution to any water of the state.

Paints:

All containers will be tightly sealed and stored when not required for use. Excess paint will not be poured into the storm sewer system but will be properly deposed of according to manufacturer's instruction or state and local regulations.

Fertilizers:

Fertilizers used will be applied only in 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 shed or other appropriate enclosure. The contents of any partially used bags of fertilizers will be transferred to a sealable plastic bin to avoid spills.

Spill Control Practices

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

- Manufacturers' 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 may include but not be limited to brooms, dust pans, maps, 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 size.
- The spill prevention plan will be adjusted to include measures to 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 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 site personnel who will receive spill prevention and cleanup training. These individuals will each become responsible for a particular phase of prevention and cleanup. The name of responsible spill personnel will be posted in the material storage area and in the office trailer onsite.

POLLUTION PREVENTION PLAN CERTIFICATION

Attainment of Water Quality Standards After Authorization

- a. The permittee must select, install, implement, and maintain BMPs at the construction site that minimize pollutants in the discharge as necessary to meet applicable water quality standards. In general, the SWPPP developed, implemented, and updated to be considered as stringent as necessary to ensure that the discharges do not cause or contribute to an excursion above any applicable water quality standard.
- b. At any time after authorization, the Department may determine that the storm water discharges may cause, have reasonable potential to cause, or contribute to an excursion above any applicable water quality standard. If such a determination is made, the Department will require the permittee to:
 - Develop a supplemental BMP action plan describing SWPPP modifications to address adequately the identified water quality concerns and submit valid and verifiable data and information that are representative of ambient conditions and indicate that the receiving water is attaining water quality standards; or
 - ii. Cease discharges of pollutants from construction activity and submit an individual permit application.

I understand and agree to follow the above text regarding the attainment of water quality standards after authorization and 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.

Signed:	Owner	Name:	
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 as part of this certification.

Representative	For	Responsible for
Name	AL Huber	Earthwork Contractor Erosion Control Contractor
Signature	10770 El Monte St. Overland Park, KS	Erosion Control Inspector SWPPP Maintenance Stabilization
Date		

IBC INSPECTION LOG

Date of Inspection	Scheduled or Rainfall Event?	Rainfall Since Last Report	Inspector
		+	

IBC TRAINING LOG

TRAINING LOG					
Date	Trainer	Items Covered			

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STORM WATER POLLUTION PREVENTION PLAN INSPECTION AND MAINTENANCE REPORT FORM A

TO BE COMPLETED EVERY 14 DAYS AND WITHIN 24 HOURS OF A RAINFALL EVENT OF 0.5 INCHES OR MORE INPECTION FORM B TO BE COMPLETED WITH THIS FORM

Inspector Name:		Date of Inspect	ion:		
Inspector Title:					
Date of Last Rainfall:		Duration of Rai	nfall:		
Days since last rain event: days		Rainfall since last rain event:			inches
Description of any discharges during in	nspection:				
Location of discharges of sediment/oth	ner pollutant (specify	pollutant & locat	ion):		
·					
Locations in need of additional BMPs:					
Information on Location of Construction					
Location	Activity Begin		Ceased	Stabilization	Stabilization
Location	Date	Now (y/n)?	Date	Initiated Date	Complete Date
	 				
Information on BMPs in Need of Maint					
Location	In Working Order?	Maintenance Date	Maintenance Date	Maintenance to be Performed By	
	Gradi.	Date	Duit	DC 1 C1	Torrica By
Changes required to the SWPPP (For					
Reasons for changes:			· · · · · · · · · · · · · · · · · · ·		
SWPPP changes completed (date):					
"I certify under penalty of law that the direction or supervision in accordate evaluate the information submitted persons directly responsible for gatle	ance with a system de d. Based on my inqui	esigned to ensur iry of the person	e that qualified or persons who	personnel prope manage the sy	rly gather and stem, or those
belief, true, accurate, and complete. I		are significant p	enalties for sub	mitting false info	
Signature of Responsible or Cognizan	t Official:			Date:	
Name and Title:					

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STORM WATER POLLUTION PREVENTION PLAN INSPECTION AND MAINTENANCE REPORT FORM B (EROSION CONTROL/MATERIAL STORAGE)

TO BE COMPLETED EVERY 14 CALENDAR DAYS AND WITHIN 24 HOURS OF A RAINFALL EVENT OF 0.5 INCHES OR MORE TO BE COMPLETED AND INCLUDED WITH FORM A

Date and Time:					
Weather:					
Name and Title:					
Inspector Qualification:					
Weather since last report:					
Rain?	tain? Depth? Duration?				
Stabilized Construction En	itrances				
Does much sediment get tracked on the roads?		Is the entrance clean or is it filled with sediment?		Does all traffic use the entrance to leave the site?	
Maintenance Required for St	tabilized Constr	ruction Entrance	(S):		
To be perfomed by: On or before:Silt Fencing					
Depth of Sediment?	Condition of Fence?		Any evidence of overtopping?	Condition of downstream channel?	
Maintenance Required for Si	ilt Fencing:				
To be perfomed by: On or before:					
Native Vegetaion Swale/Bio	oretention Swa	ale			
Depth of Sediment?	Condition of I	Embankments?	Condition of Overflow Weir?	Condition of Downstream Channel?	
А					
В					
C					
D E	1				
	1				
Mainenance Required Veget	tation Swale/Bio	oretention Cell:	On an hafe and		
To be performed by: On or before:					

Note: If site inspections identify measures that are not operating. Any delay in the replacement or maintenance of measures beyond seven (7) calendar days shall be documented in the SWPPP with sufficient detail as to explain the reason for delay.

STORM WATER POLLUTION PREVENTION PLAN C (SWPPP MODIFICATION)

INSPECTION AND MAINTENANCE REPORT FORM

CHANGES REQUIRED TO THE POLLUTION PREVENTION PLAN:	
REASONS FOR CHANGES:	
I certify under penalty of law that this document and all attachments were pre accordance with a system designed to assure that qualified personnel proper submitted. Based on my inquiry of the person or persons who manage the significant penalties in the best of my know I am aware that there are significant penalties for submitting false information imprisonment for knowing violations.	ly gathered and evaluated the information ystem, or those persons directly responsible for wledge and belief, true, accurate, and complete.
Signature of Responsible or Cognizant Official:	Date:
Name and Title:	

If existing erosion control measures need to be modified or if additional measures are necessary for any reason, implementation must be completed before the next storm event whenever practicable. If implementation before the next storm event, the situation must be documented in the SWPPP and alternative BMP's implemented as soon as possible.