



CITY OF INDIANAPOLIS

2016-2017 ANNUAL REPORT

(November 1, 2015 – October 31, 2017)

NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM
Municipal Stormwater Permit – INS040001

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Certification of Pollution Prevention, Operations & Maintenance Training

The State of Indiana, via the NPDES Storm Water Discharge Permit Number INS040001, requires the City of Indianapolis (MS4 Operator) to develop and implement a training program for maintenance personnel employed by the City of Indianapolis. This program shall educate staff on the importance of storm water management techniques and principles, erosion and sediment control measures, and good housekeeping measures that are implemented to reduce pollutants in run-off from operations and maintenance activities per Part II.B.6 of the permit.

The following statement and the accompanying signature serve as the required certification that the requirement has been implemented.

"I certify, under penalty of law that this training was prepared and delivered under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the above statement 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 of knowing violations."

Melody Park, P.E.
Deputy Director/Chief Engineer

Date





Certification of Post-Construction Storm Water Run-off Training

The State of Indiana, via the NPDES Storm Water Discharge Permit Number INS040001, requires the City of Indianapolis (MS4 Operator) to develop and implement training for post-construction storm water quality management. Part II.C.g of the permit requires the City to train "appropriate City staff regarding the requirements associated with storm water quality management and post-construction run-off when changes to the water quality management requirements occur". The permit also requires that training "be attended annually by each inspector and designer employed and/or contracted by the City."

The following statement and the accompanying signature serve as the required certification that the requirement has been implemented.

"I certify, under penalty of law, that there were no water quality management requirement changes that required this training within the reporting period. I also certify that a program will be developed to ensure required inspectors and designers receive annual training as required by this permit within the next reporting period. Based on my inquiry of the person or person who manage the system, or those persons directly responsible for gathering the information, the above statement 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."

Melody Park, P.E.
Deputy Director/Chief Engineer

1/28/2018

Date





Certification of NPDES Outfall Inspection

The State of Indiana, via the NPDES Storm Water Discharge Permit Number INS040001, requires the City of Indianapolis (MS4 Operator) to screen twenty percent (20%) of all prioritized and new outfall annually with all screening to be completed by the end of the 5th year of the permit term. A program was developed to ensure all required inspections shall be completed in year five of the permit term.

The following statement and the accompanying signature serve as the required certification that the requirement has been implemented.

"I certify, under penalty of law, that an inspection program has been developed that shall fulfill this screening requirement by the end of the permit term. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the above statement 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."

Melody Park, P.E.
Deputy Director/Chief Engineer

Date





Certification of Municipal Separate Storm Sewer System (MS4) Mapping

The State of Indiana, via the NPDES Storm Water Discharge Permit Number INS040001, requires the City of Indianapolis (MS4 Operator) to develop a storm sewer system map showing the locations of all known outfall conveyance systems and names and locations of waters of the state that receive discharges from those outfalls. Part II.D.2.c of the permit requires "at a minimum, the rate of mapping shall be at least twenty percent (20%) of the entire MS4 conveyances per year and the mapping will be completed by the end of the permit term."

The City of Indianapolis MS4 mapping was completed in the prior reporting period and is now being continuously updated and maintained as inaccuracies are discovered.

The following statement and the accompanying signature serve as the required certification that the requirement has been implemented.

"I certify, under penalty of law that this mapping requirement was performed and completed under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the above statement 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."

Melody Park, P.E.
Deputy Director/Chief Engineer

1/28/2018

Date





Certification of Memorandum of Agreement with Soil and Water Conservation District (SWCD)

The State of Indiana, via the NPDES Storm Water Discharge Permit Number INS040001, requires the City of Indianapolis (MS4 Operator) to enter into an agreement with the Marion County SWCD that details the responsibilities of the enforcement of the requirements of Chapter 561 of the City County Code and Chapters 104.2 and 600 of the City's Stormwater Design and Construction Manual. The agreement shall also detail the responsibilities of review and approval of Stormwater Pollution Prevention Plans for construction projects owned and/or operated by the City.

The following statement and the accompanying signature serve as the required certification that the requirement has been implemented.

"I certify, under penalty of law, that the City of Indianapolis and the Marion County Soil and Water Conservation District have entered into a Memorandum of Understanding detailing the responsibilities of the requirement in Part II.F Construction Site Run-off Control of NPDES Permit Number INS040001. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment of knowing violations."

Melody Park, P.E.
Deputy Director/Chief Engineer

Date





Certification of Construction Inspectors Training

The State of Indiana, via the NPDES Storm Water Discharge Permit Number INS040001, requires the City of Indianapolis (MS4 Operator) to develop and implement a training program for construction site inspectors employed by the City of Indianapolis and the four (4) colleges and universities listed in Part I.A of the permit. This program shall educate inspectors on the importance of storm water management techniques and principles, erosion and sediment control measures, including storm water quality measures that are implemented to reduce pollutants in run-off from construction sites. Part II.f.7 of the permit require that "training must be attended annually by each inspector employed and/or contracted by the City."

The following statement and the accompanying signature serve as the required certification that the requirement has been implemented.

"I certify, under penalty of law that this training was prepared and delivered under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the above statement 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 of knowing violations."

Melody Park, P.E.
Deputy Director/Chief Engineer

Date





Certification of Assessment of Storm Water Quality Management Plan (SWQMP)

The State of Indiana, via the NPDES Storm Water Discharge Permit Number INS040001, requires the City of Indianapolis (MS4 Operator) to conduct an annual review to assess the effectiveness of their SWQMP. Per Part II.F of the permit, this assessment shall include an "estimate of overall reductions in loading of pollutants discharged from the MS4 conveyances", "identification of known impacts of storm water controls on ground water", and identification of "locations where structural storm water controls will be placed to improve water quality".

All new development and redevelopment projects must comply with the City's water quality ordinances and standards which require 80% TSS removal and stormwater controls during construction. Structural stormwater controls are also included in the Capital Improvement Program database for public projects. Impacts to groundwater are reported via the Citizens Energy Group and Mayor's Action Center service centers.

The following statement and the accompanying signature serve as the required certification that the requirement has been implemented.

"I certify, under penalty of law that this requirement was completed under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the above statement 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."

A handwritten signature in black ink, appearing to be "M. Park", written over a horizontal line.

Melody Park, P.E.
Deputy Director/Chief Engineer

A handwritten date "1/29/2018" written over a horizontal line.

Date



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EXECUTIVE SUMMARY

Executive Summary

Created in 1972 by the Clean Water Act, the National Pollutant Discharge Elimination System (NPDES) permit program is managed by state governments through EPA guidance. The permit program works to prevent water pollution by regulating point sources that release pollutants into waterways. The permit holder is authorized to perform many permitting, administrative, and enforcement aspects of the program.

The Indiana Department of Environmental Management (IDEM) issued a new NPDES Storm Water Discharge Permit Number INS040001 to the City of Indianapolis, effective Nov. 1, 2013. This is the City's third permit term since the first MS4 NPDES permit was issued in 1998. The City will in the next several months begin the process of obtaining the City new (fourth) NPDES Storm Water Discharge Permit.

Indianapolis is a Municipal Separate Storm Sewer System or MS4 community. This means that storm water runoff flows directly back into local waterways and the city is responsible for managing such runoff. The City's Storm Water Quality Management Program (SWQMP) serves as the foundation of the City's storm water runoff quality control programs and permit compliance.

This summary gives a brief overview of activities performed during the NPDES Permit #INS040001 reporting period from November 1, 2015 through October 31, 2017. More information on NPDES activities can be viewed in the annual report.

The NPDES Storm Water Discharge Permit requires that Indianapolis develop and implement programs in the following categories: legal authority, pollution prevention in operations and maintenance (O&M), post-construction stormwater run-off for new development and redevelopment, illicit discharge and improper disposal, industrial run-off control, construction site run-off control, public education and outreach, assessment of controls, monitoring and reporting.

The following accomplishments from 2016-2017 are a result of continued execution of requirements for the first and second years of the third permit term:

- Executed approximately \$42 million of expenditures for storm water master plan capital project over the reporting period that will alleviate flooding, improve neighborhood drainage and enhance water quality
- Implementation of a comprehensive outreach and education program including creation of a new stormwater public outreach staff position to implement a comprehensive outreach and education overhaul, including the expansion of available educational publications; storm drain marking programming; stormwater curriculum presentations to school students; social media impressions; and targeted outreach to business, sustainability and construction audiences.
- Construction of sustainable storm water management systems associated with program capital expenditures

- Continued implementation of standard procedures and training within the Department of Public Works to improve water quality near and at City owned facilities and public streets
- Continued application and enforcement of the established Storm Water Design and Construction Manual and City ordinances
- Continued oversight of public and private construction sites to minimize construction related pollutants from entering public infrastructure and surface waters
- Ongoing monitoring of 28 locations in waterways throughout the city for 25 parameters and pollutants

In addition to the above accomplishments, the City has also continued programs from previous permit reporting periods, demonstrating a commitment to storm water management practice and policies. Storm water management in the City of Indianapolis is a multi-objective service provided to the community. The objectives range from helping improve public safety to improving quality of life for residents and visitors.

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**2016 - 2017 Annual Report
NPDES Storm Water Quality Management Plan**

Permit Section	Task Name	2016	2017	Changes, Challenges, New Efforts, Additional Information, etc.
	Financial Information			
	Storm Water User Fee	\$34,024,341 was collected in the storm water fund	\$35,971,177 was collected in the storm water fund	G.O. No.43, 2014, City County Code Chapter 676, www.municode.com
	MS4 System		526 Box Culverts, 706,897 LF Culverts, 6,687,000 LF Ditches (concrete, rip rap, vegetated, misc.), 7,999,000 LF Storm Pipe, 114,490 Inlets and Manholes, 2 Dams	
	Public Post-Construction BMPs		Current Public GI inventory: 81,643 SF Bioswales, 36.66 AC Constructed Wetlands, 5200 LF Infiltration Trenches, 153,969 LF Hybrid Ditches, 11,000 SF Green Roof, 12,709 SF Rain Gardens, 69,773 SF Permeable/Porous Pavement, 925 LF Porous Curb, 84 Structural BMPs, 18 Detention Ponds, Cisterns under Georgia Street	
	Private Post-Construction BMPs		31 Underground Detention Chambers, 639 Detention Ponds, 333 BMPs recorded in the GIS system.	The City is increasing the effort to input private post-construction BMP information into the GIS layers.
	Operations Expenditures	\$13,063,309 spent on storm water operations	\$13,611,057 spent on storm water operations	The increase in expenditures from previous years is associated with the Storm Water User Fee changes in 2015.
	Capital Project Expenditures	\$12,319,672 spent on storm water capital projects	\$29,655,026 spent on storm water capital projects	The increase in expenditures from previous years is associated with the Storm Water User Fee changes in 2015.

**2016 - 2017 Annual Report
NPDES Storm Water Quality Management Plan**

Permit Section	Task Name	2016	2017	Changes, Challenges, New Efforts, Additional Information, etc.
II.A	Legal Authority			
II.A.1.a	Legal authority to control industrial discharges.	City County Code Chapter 672 - GENERAL DISCHARGE PROHIBITIONS AND PRIVATE WASTEWATER DISPOSAL SYSTEMS	See 2016	No change from previous reporting period, www.municode.com
II.A.1.a	Legal authority control construction site discharges.	Storm Water Manual Chapters 100 and 600. City County Code Section 561 DRAINAGE AND SEDIMENT CONTROL.	See 2016	No change from previous reporting period, www.indy.gov/stormwatermanual, www.municode.com
II.A.1.b	Legal authority to prohibit illicit discharges and require removal of illicit connections.	City County Code Chapter 672 - GENERAL DISCHARGE PROHIBITIONS AND PRIVATE WASTEWATER DISPOSAL SYSTEMS and City County Code Section 103-502 - Administrative adjudication provided	See 2016	No change from previous reporting period, www.municode.com
II.A.1.c	Legal authority to control spills and dumping of non-storm water materials.	City County Code Section 341-104 Pollution of Waterways	See 2016	No change from previous reporting period, www.municode.com
II.A.1.d	Legal authority to require compliance with city ordinances, permits, contracts or orders.	IC 36-7-4	See 2016	No change from previous reporting period
II.A.1.e	Legal authority to inspect for compliance with permit conditions and illicit discharges.	City County Code Section 561-251 - General authority for investigations and inspections	See 2016	No change from previous reporting period, www.municode.com
II.A.1.f	Legal agreement(s) with the City of Lawrence.	MOA executed 07/26/16. Annual meeting on 08/08/16	MOA updated August 2017. Annual meeting on 08/04/2017	See Appendix II.A. for agreement and meeting information.
II.A.1.f	Legal agreement(s) with the Town of Speedway.	MOA executed in 2015. Annual meeting on 06/27/2016	MOA updated July 2017. Annual meeting on 07/11/2017	See Appendix II.A. for agreement and meeting information.
II.A.1.f	Legal agreement(s) with the City of Beech Grove.	MOA revised December 2015. Annual meeting on 04/28/2016	Annual meeting on 07/14/2017	See Appendix II.A. for agreement and meeting information.
II.A.1.f	Legal agreement(s) with the City of Southport.	MOA revised January 2016 and July 2016. Annual meeting on 07/18/2016	Annual meeting on 09/20/2017	See Appendix II.A. for agreement and meeting information.
II.A.3	Legal agreement with the four universities.	Joint coordination meetings on 06/23/2016 (6 attendees) and 10/25/2016 (10 attendees). A separate meeting with Marian University on 07/08/2016 (4 attendees).	Joint coordination meetings on 06/29/2017 (8 attendees) and 11/09/2017 (5 attendees). 3 University representatives attended Construction NPDES training on 06/29/2017.	Agreements executed in 2015. See Appendix II.A for universities reports

2016 - 2017 Annual Report
NPDES Storm Water Quality Management Plan

Permit Section	Task Name	2016	2017	Changes, Challenges, New Efforts, Additional Information, etc.
II.B	Pollution Prevention, Operations and Maintenance			
II.B.1.a	Operation and maintenance procedures for structural BMPs on MS4 conveyances.	2 BMPs inspected	37 BMPs inspected and 10 received follow-up maintenance	Inspections and maintenance contracted to CEG. Storm Water BMP's are cleaned and/or inspected according to manufacturer's O&M. Absent an O&M, inspections annually. Cleaning as needed based on inspections.
II.B.1.b	Open channel and ditch inspections and maintenance.	Streams/rivers inspected after moderate and major rain events. Levees mowed at least once every 6 weeks. 457 NPDES channel/gate inspections, reshaped and cleaned 943,470 LF of ditches, excavated 82,582 LF of new ditches and cleaned 5.28 million SF of creek banks.	Streams/rivers inspected after moderate and major rain events. Levees mowed at least once every 6 weeks. reshaped and cleaned 1,079,981 LF of ditches, excavated 217,260 LF of new ditches and cleaned 6.68 million SF of creek banks.	The City proposes to revise the Channel Maintenance SOP in 2018 to more efficiently and effectively address maintenance concerns. The draft SOP will be sent to IDEM for approval.
II.B.1.d	Inspection & maintenance of parking lots.	78 DPW maintenance facility/lot inspections. 138 Fire Department inspections. 592 Parks Inspections	60 DPW maintenance facility/lot inspections. 132 Fire Department inspections. 608 Parks Inspections.	SOPs for parking lots and maintenance facilities (II.B.1.d & II.B.3.b) are often redundant and confusing. Inspections for both parking lots and facilities are reported here. DPW has proposed a new SOP, enclosed in Appendix II.B that combines these two to reduce confusion. This new SOP has received IDEM approval and is anticipating EPA approval. The Parks Department parks (other than maintenance facilities) does not meet the proposed criteria to trigger the SOP. However, they continue to perform inspections.
II.B.2.a	Storm drain marking program.	2,021 drains were marked by SUEZ	2,141 drains were marked by CEG. 435 inlets were marked by 35 IUPUI volunteers.	Markers stated "NO DUMPING DRAINS TO STREAM" and contains a storm water web address. An event summary is enclosed in Appendix II.B.
II.B.2.b	Inspection and cleaning of catch basins and inlets based on historical volumes of trash and/or debris accumulation.	5,541 inlet grates, 21 bridge decks 480 catch basins, 2,272 inlets, and 560 manholes cleaned	8,348 inlet grates, 56 bridge decks, 738 catch basins, 3,499 inlets and 442 manholes cleaned	Numbers include DPW and CEG maintenance activities. Maintenance is based on customer service requests. Customers are encouraged to use hotline as outlined in II.G.1
II.B.2.c	Street sweeping based on historical volumes of trash and/or debris accumulation.	CEG swept 18,044 miles in the Combined Sewer area and DPW swept 6,843 miles for a total of 24,877 miles swept. 7,675 CYD trash removed.	CEG swept 19,747 miles in the Combined Sewer area and DPW swept 7,492 miles for a total of 27,240 miles swept. 8,322 CYD trash removed.	DPW began sweeping on demand only beginning in 2016.
II.B.2.d	Minimize and track deicing materials, salt, sand, etc.	26,270.40 tons of Clear Lane (magnesium chloride mixed with sodium chloride) de-icing material. Sand is not used.	16,312.50 tons of Clear Lane (magnesium chloride mixed with sodium chloride) de-icing material. Sand is not used.	
II.B.2.e	Identify and correct erosion issues in city rights of way.	No damaged and/or eroded areas reported by contractors. Channel Maintenance Services responded to 9 erosion complaints	No damaged and/or eroded areas reported by contractors. Channel Maintenance Services responded to 6 erosion complaints	Mowing contract requires reporting of damaged or eroded areas on a standard form.
II.B.2.f	Roadside and median maintenance contractors to dispose of litter properly.	See 2017	Contractors collect an average of 2400 bags of litter per mowing season	

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NPDES Storm Water Quality Management Plan

Permit Section	Task Name	2016	2017	Changes, Challenges, New Efforts, Additional Information, etc.
II.B.3.b	Implement pollution prevention SOPs for maintenance, material storage and vehicle yard facilities.	SWPPPs completed or updated for 11 facilities. 4 Solid Waste supervisors attended train the trainer training on 12/8/15. 406 staff trained on NPDES compliance. 64 staff trained as part of Snow Class. Brief training topics are delivered to operations staff monthly.	SWPPPs completed or updated for 23 facilities. 398 trained on NPDES compliance. 64 people trained as part of Snow Class on 12/09/17. Brief training topics are delivered to operations staff monthly.	Vehicle Maintenance Facility and Parking Lot SOPs were combined in 2017 to reduce confusion, incorporate criteria and incorporate an inventory. See II.B.1.d. See Appendix II.B for 2017 training materials (2016 training materials nearly identical and not included)
II.B.3.c	City-owned vehicle and equipment wash areas wash waters are contained, discharged to sanitary sewer or are allowed to discharge via an NPDES wastewater permit.	All facilities have wash bays that drain properly. Employees have been trained to only wash in these designated wash bays	No change from previous reporting period	A new vehicle and equipment washing policy was implemented in 2014.
II.B.4	Water quality in flood control or storm water management projects. The city shall evaluate existing structural flood control devices to determine if retrofitting could provide additional pollutant removal.	All basin have been evaluated in past reporting periods for water quality retrofits. Water quality will be considered on new basin projects.	See 2016	
II.B.5.c.1-4, 6-8	Pesticide and fertilizer storage area inspections and training.	Pesticide application and storage is included with annual training. Chemicals are stored indoors. Storage areas are inspected quarterly per SOP.	Pesticide application and storage is included with annual training. Chemicals are stored indoors. Storage areas are inspected quarterly per SOP.	Pesticide applicators have license through State Chemist Office or are under direct supervision of a licensee.
II.B.5.c.5	Encourage retention and planting of native vegetation and reduction of fertilizer and pesticide use within the MSA area.	Green Supplemental Document (GSD). Rezone Indy effective April 1, 2016. See also II.G.5	See 2016	GSD can be found at http://www.indy.gov/City/DPW/SustainIndy/Waterland/Pages/SustainableInfrastructure.aspx and Rezone Indy and be found at www.indy.gov/City/DMD/Current/Pages/ordinance.aspx
II.B.5.c.9	Public Education for pesticides and fertilizers	See II.G.5	See II.G.5	
II.B.6.a	Storm Water Quality Management Plan (SWQMP) training for targeted staff within the first year of the permit.	Requirement reported in previous annual report.	See 2016	

**2016 - 2017 Annual Report
NPDES Storm Water Quality Management Plan**

Permit Section	Task Name	2016	2017	Changes, Challenges, New Efforts, Additional Information, etc.
II.C	Post-Construction Storm Water Run-off (New Development and Redevelopment)			
II.C.1.a	Storm Water Design and Construction Specifications Manual updates.	No updates in 2016	Manufactured storm water quality treatment systems must meet City standards and be approved for private or public use within the City. BMP Testing criteria for manufactured storm water quality treatment systems was updated 12/10/17 (www.indy.gov/stormwatermanual)	Stormwater Quality Units (SQU) are added to the approved products list after approval. The latest list dated 1/23/2018 can be found here: www.indy.gov/stormwatermanual
II.C.1.b	Provide guidance for sustainable storm water management infrastructure development	Green Infrastructure Supplemental Document is available online.	Green Infrastructure Supplemental Document is available online.	http://www.indy.gov/eGov/City/DPW/SustainIndy/WaterLand/Pages/SustainableInfrastructure.aspx
II.C.1.c	Require post construction BMPs for developments with 1/2 acre + new impervious surface.	Storm Water Design and Construction Manual (Updated 2011) Section 101.02. Example O&M manuals (good housekeeping) in Chapter 700 and Green Infrastructure Supplemental Document	No change from previous reporting period	storm water standards: www.indy.gov/stormwatermanual , Green Supplemental Document: http://www.indy.gov/eGov/City/DPW/SustainIndy/WaterLand/Pages/SustainableInfrastructure.aspx
II.C.1.d	Require post construction BMPs that treat heavy metals and PAHs for retail gas stations with 1/2 acre + new impervious surface.	Storm Water Design and Construction Manual (Updated 2011) Section 101.02	No change from previous reporting period	www.indy.gov/stormwatermanual
II.C.1.e	Ensure BMPs are appropriately designed and maintained to allow optimal water quality improvement.	Storm Water Design and Construction Manual (Updated 2011) Chapter 700, BMP Testing Criteria	No change from previous reporting period	www.indy.gov/stormwatermanual
II.C.1.f	Ensure new development and redevelopment includes reduced pollutant loads, peak discharge rates, velocities and duration.	Storm Water Design and Construction Manual (Updated 2011) Chapters 100-300, 700	No change from previous reporting period	www.indy.gov/stormwatermanual
II.C.1.g(1)	Train city staff on new water quality requirements as necessary.	No updates requiring training in 2016	No updates requiring training in 2017	No change from previous reporting period
II.C.1.g(2)	Train inspectors and designers employed or contracted by the city annually.	One City employee attended BMP inspection training on 11/17/15.		
II.C.2.a	Evaluate the inspection policy & SOP for Post Construction BMPs for the maintenance and long-term functionality (quality and quantity).	Pervious pavement swept four times per year.	A draft Public BMP SOP and Post Construction Improvement Plan (PPIP) was forwarded to IDEM and EPA on 12/11/2017. Pervious pavement swept four times per year. 81 green infrastructure inspections	As part of the rate adjustment, credit program designed to require annual inspections and documentation from BMP owners receiving credit. City Code requires owner inspections and maintenance of BMPs and submittal of an O&M manual per Chapter 701.05 of the Storm Water Construction and Design Manual (www.indy.gov/stormwatermanual). Draft SOP is enclosed in Appendix II.C.

**2016 - 2017 Annual Report
NPDES Storm Water Quality Management Plan**

Permit Section	Task Name	2016	2017	Changes, Challenges, New Efforts, Additional Information, etc.
II.C.2.b	Develop a Quality Assurance Plan (QAP) within the first year to ensure staff and/or contractors are performing post construction BMP monitoring and that deficiencies are being addressed by the city.	Completed in previous reporting period	See 2016	
II.C.3	Define the boundary of Post Construction Authority through agreements with the excluded cities which includes roles and responsibilities and an annual meeting with each excluded city.	The boundaries of post construction authority and roles and responsibilities are defined in the MOA with each excluded city. See II.A.1	See II.A.1	
II.C.4	Develop goals and objectives to the Post Construction Program annually and identify program improvements needed to be implemented the following year.	Please refer to the Storm Water Quality Management Plan	Please refer to the Storm Water Quality Management Plan	See SWQMP in Appendix IV

**2016 - 2017 Annual Report
NPDES Storm Water Quality Management Plan**

Permit Section	Task Name	2016	2017	Changes, Challenges, New Efforts, Additional Information, etc.
II.D	Illicit Discharges and Improper Disposal			
II.D.1.a	Develop and implement an inspection program including ordinances orders or similar means to prevent illicit discharges.	City County Code Chapter 672 - GENERAL DISCHARGE PROHIBITIONS AND PRIVATE WASTEWATER DISPOSAL SYSTEMS and Pollution of Waterways Section 341-104. Citizens encouraged to contact the Mayor's Action Center to report.	No change from previous reporting period	City County Code: www.municode.com Standards: www.indy.gov/stormwater www.indy.gov/mac Mayor's Action Center: Stormwater
II.D.1.b	Continue dry weather screening of new outfalls mapped.	United Water visually screened and mapped 37 outfalls noting no illicit discharges.		Mapping is now complete and is being continuously updated and maintained as inaccuracies are discovered
II.D.1.c-d	Prioritize the screening of outfalls and complete 20% annually including an investigation/follow-up actions on illicit discharges found.	45 Outfalls were inspected and no illicit discharges noted.	A contract was executed (11/29/17 board approval) for a consultant to complete all required inspections prior to the end of the permit term. This contract includes updating the outfall inspection SOP with lessons learned and performing quality control for the outfall attributes and locations in the storm water GIS layer.	
II.D.1.e	Legal authority to require cleanup/disconnection of illicit discharge.	City County Code Chapter 672 - GENERAL DISCHARGE PROHIBITIONS AND PRIVATE WASTEWATER DISPOSAL SYSTEMS and Pollution of Waterways Section 341-104	See 2016	No change from previous reporting period, www.municode.com
II.D.1.f	Continue current programs that minimize migration of sewage to MS4 conveyances.	CEG reported 701 new connections to the sanitary sewer, as part of the Septic Tank Elimination Program. MCPHD responded to 127 reports of SSO	CEG reported 365 new connections to the sanitary sewer, as part of the Septic Tank Elimination Program. MCPHD responded to 94 reports of SSO	Citizens Energy Group (CEG), not the City, is the owner and operator of the sanitary sewer utility. Sanitary sewer overflows (SSO) are reported to the Marion County Public Health Department (MCPHD) through Citizens Energy Group Dispatch and/or residents. MCPHD responds to each overflow report. See Appendix II.D for SSO details. The City coordinates with CEG during design on public projects.
II.D.2	Continue mapping of remaining outfalls, conveyances and waters of the state.	2,184 additional MS4 storm structures were mapped by United Water.	2,680 additional MS4 storm structures were mapped. 5,317 storm structures were edited, 779 storm sewers were edited.	Mapping is now complete and is being continuously updated and maintained as inaccuracies are discovered
II.D.3	In cooperation with MCPHD, continue inspections and tracking for newly-licensed pesticide applicator facilities. A summary of inspections and changes to the program shall be included in the annual reports.	See 2017	The Office of the State Chemist tracks pesticide licensing facilities online. There were 327 business and 9 Restricted Use Pesticide Dealers in Marion County registered Fall 2017 per https://oisc.purdue.edu/oiscweb/#!/publicrecord/s/pesticide/licensing	Per the Indiana Pesticide Review Board, Rule 10 (357 IAC 1-10-5 Inspection and compliance) inspection and compliance is the responsibility of the state chemist. To prevent duplicate efforts, the City is not conducting inspections.

**2016 - 2017 Annual Report
NPDES Storm Water Quality Management Plan**

Permit Section	Task Name	2016	2017	Changes, Challenges, New Efforts, Additional Information, etc.
II.D.4	Continue to implement and track spill prevention and response programs including Marion County Emergency Management Plan for Hazardous Materials Emergencies, Chapter 20 of the Marion County Health Department (MCPHD) ordinance and the Mayor's Action Center reporting.	DPW responded to 141 calls: 56 Hydraulic Fluids, 45 Oil, 13 Fuel, 6 Antifreeze, 5 Abandoned Drums and 16 Other. MCPHD responded to 14 calls.	DPW responded to 76 calls: 25 Hydraulic Fluids, 16 Oil, 5 Fuel, 4 Antifreeze, 3 Acid, 6 Abandoned Drums, and 11 Other. MCPHD responded to 48 calls.	DPW and MCPHD provide 24-hour emergency response. See Appendix II.D for MCPHD details.
II.D.5	Continue used oil and hazmat waste collection programs.	677 tons of HHW materials were collected and recycled and/or disposed of properly.	669 tons of HHW materials were collected and recycled and/or disposed of properly.	

**2016 - 2017 Annual Report
NPDES Storm Water Quality Management Plan**

Permit Section	Task Name	2016	2017	Changes, Challenges, New Efforts, Additional Information, etc.
II.E	Industrial Run-off Control			
II.E.1.a-b	Identify industrial sources of concern, create and maintain a database that's updated annually. A summary of industrial facilities shall be provided in the annual reports.	A database and SOP for database maintenance was developed by a contractor fall 2016.	Database updated summer 2017. There are 180 Rule 6, 241, SARA Title III, 1184 Hazardous Materials, 1 landfill and 1619 Restaurant facilities	
II.E.1.c.(1)	Inspect all industrial facilities once in the 5-year permit term.	319 of 327 identified sites were inspected.	5 of 8 facilities were inspected by DPW in 2017 that the contractor could not inspect.	Summary report in Appendix II.E. Remaining follow up inspections to be completed by early 2018 and full report to be submitted to IDEM.
II.E.1.c.(2)	Certification of implementation of the inspection program.	Required certification enclosed with this report	See 2016	
II.E.1.c.(3)	Legal authority to require correction of deficiencies found.	City County Code Chapter 672 - GENERAL DISCHARGE PROHIBITIONS AND PRIVATE WASTEWATER DISPOSAL SYSTEMS and Pollution of Waterways Section 341-104	See 2016	No change from previous reporting period
II.E.1.c.(4)	Inspect all restaurants within the jurisdiction. An SOP and training for inspectors, and education materials for restaurants shall be developed as needed.	SOP and educational posted created, inspectors trained. 248 restaurants inspected and posters distributed.	364 restaurants inspected and posters distributed.	612 of 1351 Completed as of 12/31/17. See Appendix II.E for educational poster.
II.E.1.c.(5)	Inspect 10 automotive facilities annually for employee education programs compliance. If deficiencies are found, the city shall revise and implement an education strategy.	10 automotive facilities were inspected educational flyers delivered	10 automotive facilities were inspected educational flyers delivered	SOP updated to include employee interviews beginning in 2016. See Appendix II.E
II.E.1.c.(6)	Inspect 10 retail gasoline outlets annually for employee education programs compliance. If deficiencies are found, the city shall revise and implement an education strategy.	10 retail gasoline outlets were inspected and educational flyers delivered	10 retail gasoline outlets were inspected and educational flyers delivered	SOP updated to include employee interviews beginning in 2016. See Appendix II.E
II.E.1.c.(7)	Inspect all municipal landfills once per permit term.	See 2017	One active landfill (Southside Landfill) in City inspected on 10/24/2017 See 2016	See Appendix II.E
II.E.1.c.(8)	Inspect all HazMat Treatment, storage, disposal and recovery facilities once per permit term.	112 of 118 identified HazMat facilities inspected.		See II.E.1.c.(1)
II.E.1.c.(9)	Inspect all Title III Industrial Facilities once per permit term.	133 of 133 identified SARA Title III facilities inspected.	See 2016	See II.E.1.c.(1)
II.E.1.c.(10)	Inspect all Rule 6 Industrial Facilities once per permit term.	74 of 76 identified Rule 6 facilities inspected.	See 2016	See II.E.1.c.(1)
II.E.1.c.(11)	Inspect all Industrial Facilities Contributing Substantial Pollutant Loadings once per permit term.	See II.E.1.c (4-10)	See II.E.1.c (4-10)	

**2016 - 2017 Annual Report
NPDES Storm Water Quality Management Plan**

Permit Section	Task Name	2016	2017	Changes, Challenges, New Efforts, Additional Information, etc.
II.E.1.d	Maintain industrial inspection and enforcement records.	See 2017	Inspection reports and enforcement records to be submitted with comprehensive report in 2018.	
II.E.1.e	Collaborate with IDEM on substantial pollutant discharges including providing information for IDEM to pursue enforcement action.	None in 2016	None in 2017	
II.E.1.f	Notify IDEM when facility has been identified that needs and does not have a Rule 6 permit.	None in 2016	2 facilities without a Rule 6 permit were forwarded to IDEM in 2017	

**2016 - 2017 Annual Report
NPDES Storm Water Quality Management Plan**

Permit Section	Task Name	2016	2017	Changes, Challenges, New Efforts, Additional Information, etc.
II.F	Construction Site Run-off Control			
II.F.1	Construction Program Implementation Plan (CPIP) to improve the implementation of the construction program.	CPIP Team continues to meet regularly to implement CPIP recommendations. Updates provided to IDEM quarterly.	CPIP Team continues to meet regularly to implement CPIP recommendations. Updates provided to IDEM quarterly.	Changes include private stop work orders now stop all work activities (rather than only site work). Public RPRs and contractors required to be certified beginning January 2017. Water quality discussed at public pre-construction meetings.
II.F.2	Modify City legal documents to comply with NEW Rule 5 permit conditions upon notification from IDEM.	Not Applicable	Not Applicable	After Notification from IDEM
II.F.3	Continue to submit NOI letters to IDEM and SWPPPs to SWCD for city-owned construction activities.	18 of city-owned project SWPPP reviews were completed by SWCD.	32 project SWPPP reviews were completed by SWCD (21 Public, 1 IndyGo, 9 Utilities, 1 Private)	
II.F.4	Continue to require smaller projects operated by the city to comply with city ordinance Chapter 600.	Public projects of all sizes must comply with Chapter 600.	See 2016	No change from previous reporting period, www.indy.gov/stormwatermanual
II.F.5	Renew the MOA with SWCD regarding Rule 5 process, roles and responsibilities.	MOU updated on 12/29/15	MOU updated 01/24/17	Beginning April 2017, SWCD has subleased space in the DPW Engineering office at 1200 Madison Avenue increasing communication and collaboration among DPW, BNS and SWCD.
II.F.6.a-c	Maintain records of project non-compliance cited by SWCD or city inspectors including name of inspector, violations and actions taken.	176 inspections were completed by SWCD on public and private projects . 28% non-compliance rate (50 compliance reports sent) 2451 inspections were completed by city inspectors on private projects with 127 violations issued (5%).	SWCD inspections: public projects (19 with 3 non-compliant) and private projects (291 with 159 non-compliant) . 16% and 55% non-compliance rate respectively. 2881 inspections were completed by city inspectors on private projects with 362 violations issued (13%).	SWCD hired a new inspection staff member to replace retired inspector in 2017.
II.F.6.d	Provide project Rule 5 permit data on the web which includes project name, location and approval status.	129 private development projects required a Rule 5 NOI.	120 private development projects required a Rule 5 NOI.	Private development Rule 5 permits can be accessed by the public via the following website: https://permitsandcases.indy.gov/CitizenAccess/ Rule 5 information can be found with the drainage (DRN) permit.
II.F.7.a	Annual training program for project inspectors employed or contracted by the city on storm water quality measures including erosion and sediment control.	48 inspectors & Construction Managers (CM) were trained at the ACEC Conference on 02/16/16. 548 contractors trained at required orientation training which includes erosion and sediment control. 42 BNS, Excluded Cities and Universities inspectors were trained in the field. Brief training topics are delivered to BNS inspectors monthly.	77 inspectors & CMs were trained at the ACEC Conference on 02/23/17. 538 contractors trained at required orientation training which includes erosion and sediment control. 39 BNS, SWCD, Excluded Cities & University inspectors were trained in the field. 11 DPW CMs were trained on INDOT RSP. Brief training topics are delivered to BNS inspectors monthly.	E&SC topics are included in pre-construction meetings with RPR and contractor in attendance. Excluded cities and universities invited to trainings. See Appendix II.F.

**2016 - 2017 Annual Report
NPDES Storm Water Quality Management Plan**

Permit Section	Task Name	2016	2017	Changes, Challenges, New Efforts, Additional Information, etc.
II.F.7.b	Annual training for plan review staff employed or contracted by the city on storm water quality measures including erosion and sediment control annually.	9 plan review staff and contracted staff trained on 10/26/2016. SWCD plan reviewer CPESC certified. Public project storm water reviewer CPESC Certified See 2017	10 plan review staff and contracted staff trained on 10/25/2017. SWCD plan reviewer CPESC certified. Public project storm water reviewer CPESC Certified	See Appendix II.F.
II.F.8.a(1)	Review inspection forms and plan review to ensure erosion & sediment control is included for projects regulated by the city. Upon adoption of forms, train inspection and plan review staff accordingly.	See 2017	Plan review forms are being evaluated as part of the CPIP (II.F.1). Plan reviewers will be trained on the new form after it is developed.	No change from previous reporting period
II.F.8.a(2)	Review and revise enforcement mechanisms including fines, stop work orders, etc. to improve construction program compliance.	See 2017	Stop work orders were modified to allow all work activities to be stopped, not only site work, when violations are found.	
II.F.8.b(1)	Develop or review self monitoring forms and policies associated with city owned projects.	No change from previous reporting period	No change from previous reporting period	Inspection Report: http://www.indy.gov/eGov/City/DPW/Business/Specs/Documents/MCSWMD%20Construction%20Site%20Inspection%20Report.pdf See Appendix II.F
II.F.8.b(2)	Quality Assurance Plan for staff performing self-monitoring inspections.	QAP was submitted to IDEM on May 1, 2014	See 2016	No change from previous reporting period
II.F.9	Define limits of construction program through MOA with excluded cities.	Limits are defined in the MOAs. See II.A.1.f	See 2016	No change from previous reporting period
II.F.10	As part of the annual report, the city shall define goals and objectives for construction program improvements to be implemented in the upcoming year.	See 2017	Goals for 2018: Implementation of the recommendations of the Construction Program Implementation Plan, Continued partnership with the SWCD, Implement procedures and policies that integrate permit requirements as normal business activities	

**2016 - 2017 Annual Report
NPDES Storm Water Quality Management Plan**

Permit Section	Task Name	2016	2017	Changes, Challenges, New Efforts, Additional Information, etc.
II.G	Public Education and Outreach			
II.G.1	Continue promoting the hotline and website to encourage the public to report illicit discharges and improper disposal of materials.	MAC received 2988 citizens requests: environmental concerns (298), sanitary sewer cave in (20) manhole (87), transferred to CEG (2271) and transferred to DPW from CEG (312).	MAC received 2688 citizens requests: environmental concerns (285), sanitary sewer cave in (10), manhole (114), transferred to CEG (2018) and transferred to DPW from CEG (261). Reagan Park Trash Sweep on 8/29/2017, Haughville Neighborhood Trash Sweep on 7/31/2017. Pitch In & Win downtown trash receptacle vinyl wraps. See Appendix II.G for MAC newsletters. See also www.itsmycityindy.org	Citizens are encouraged to report via MAC customer call center and CEG hotline, Request Indy online portal and mobile phone application for illicit discharge complaints. MAC and CEG phone numbers are publicized on the city's website, social media, presentations and public meetings. CEG accepts calls for both drainage and sanitary sewer issues for investigation, maintenance and repairs. Seasonal campaigns such as Christmas Tree Recycling information can be found on City's website and promoted to local media. (http://www.indy.gov/eGov/City/DPW/Trash/Pages/Christmas-Tree-Disposal.aspx) (https://www.indystar.com/story/news/2016/12/26/christmas-tree-disposal-sites-now-open/95847908/)
II.G.2	Continue the assessment strategy to estimate the current level of public involvement developed in the second permit term.	Requirement completed in previous reporting period. Created a list of talking points to use at storm drain marking events address common storm water questions and inform public of storm water issues.	56 questionnaires completed by storm drain marking volunteers indicated that the participants gained understanding of storm sewers, how they affect their everyday lives and a belief that education on water quality issues leads to personal action. Questionnaire participants identified ways the City could better interact with citizens on this topic.	See Appendix II.G for questionnaire.
II.G.3	Seek input from the public on the SWQMP via meetings, a local advisory group, or other strategy.	SWTAC members met on December 16, 2015, May 14, 2016 and August 3, 2016	SWTAC members met on November 2, 2016, February 1, 2017, May 3, 2017, August 2, 2017 and November 1, 2017	
II.G.4	Educate public on oil and toxic material disposal and have facilities available for disposal/drop-off of household hazardous wastes.	Created social media posts regarding oil and toxic material disposal and have facilities available for disposal/drop-off of household hazardous wastes Twitter Tox Drop stats for 2016: 21 Tweets, garnering 28 Retweets and 12 Likes. Facebook ToxDrop posts: 7. Specifically oil posts: Twitter - 2; Facebook - 1.	Twitter ToxDrop stats for 2017: 43 Tweets, garnering 46 Retweets and 35 Likes. Facebook ToxDrop posts: 29. Partnership with Covanta for a specific "Thermostat Drop" at the ToxDrop Facility; accompanying social media outreach with 3 Twitter posts. Specifically oil posts: Twitter - 4; Facebook - 4	Several tox drop, recycling and trash programs are available to residents including tox drop, drop-off recycling sites, curbside recycling and \$5 heavy trash dump days. Leaves are collected each fall and mulch is available for free at South Side Landfill. Details can be found at www.indy.gov/sustainability and www.indy.gov/toxdrop See Appendix II.G

**2016 - 2017 Annual Report
NPDES Storm Water Quality Management Plan**

Permit Section	Task Name	2016	2017	Changes, Challenges, New Efforts, Additional Information, etc.
II.G.5	Educate residential, business and commercial users on proper fertilizer, herbicide and pesticides use and disposal.	Developed and posted herbicide and pesticide factsheet online. Created social media posts about proper herbicide and pesticide application. Herbicide/Pesticide factsheet remains online as a storm water educational resource. Social media for 2016: 3 Twitter posts and 1 Facebook post on this topic.	Herbicide/Pesticide factsheet remains online as a storm water educational resource. Social media for 2017: 7 Twitter posts and 5 Facebook posts on this topic.	Herbicide Flyer can be found online at http://www.indy.gov/eGov/City/DPW/SustainIndy/Help/Documents/0752-1189%20SI-InsecticideFactsheet06-11.pdf See Save the Drain I Flyer and Herbicide Flyer in Appendix II.G. In the process of updating educational resources with more specific language, product warnings.
II.G.6	Educate residents on water resources via the "no dumping" inlet marking program and illegal dumping signs posted at public access points to water bodies.	Held two storm drain marking events. One event was with the Marion County Health Department. The second marking event was held in conjunction with the IUPUI Day of Caring. Approximately 42 students and Mayor Hogsett participated in this event.	Held three storm-drain-marking events: April 1 with IUPUI Day of Service students (18 volunteers, 145 marked drains); August 23 with MCPHD (33 volunteers, 184 marked drains, 5710 Twitter impressions); October 21 with IUPUI Day of Caring (35 volunteers, 435 marked drains, 4,775 Twitter impressions)	Illegal dumping signs are posted in City parks and tox drop locations.
II.G.7	Educate school children on storm water pollution issues using the program implemented during the second permit term. Educational materials should also be posted at public locations such as parks and museums.	Parks department has existing signage displayed that talks about water quality, storm water and pollution that is geared towards children.	Coordination with the Mayor's Office of special education initiatives. Approval to be trained in Project WET; Coordination with IDNR on upcoming trainings	In 2018, Project-WET-trained staff members plan to partner with local Middle Schools to provide short lessons using Project WET curriculum.
II.G.8	Educate construction site operators, contractors and engineers on pollution prevention at job sites annually, alone or in conjunction with other entities.	See II.F.7.a	See II.F.7.a	See Appendix II.G for SWCD Newsletters. www.marionswcd.org includes education and outreach on construction site controls.
II.G.9	Educate owners of commercial riparian properties, city employees and/or contractors about proper stream bank management and water quality once in the permit term.	An article was published in the Indianapolis Chamber of Commerce "Monday Morning Memo" e-newsletter and is posted on their website. The e-newsletter has an approximate circulation of 5,000. On 10/12/16, 24 City employees with the Channel Maintenance section of DPW Operations received training on NPDES compliance, stream bank management and water quality as it relates to their regular duties.	On 9/20/17, 28 City employees with the Channel Maintenance section of DPW Operations received training on NPDES compliance, stream bank management and water quality as it relates to their regular duties.	Riparian Fact Sheet posted online at http://www.indy.gov/eGov/City/DPW/SustainIndy/Help/Documents/0752-1189%20SI-Riparian%20Fact%20Sheet_06-11.pdf and Attached in Appendix II.G

**2016 - 2017 Annual Report
NPDES Storm Water Quality Management Plan**

Permit Section	Task Name	2016	2017	Changes, Challenges, New Efforts, Additional Information, etc.
II.G.10	Educate business about storm water regulations, BMPs and pollution prevention annually. Different stakeholders should be invited each year.	An article was published in the Indianapolis Chamber of Commerce "Monday Morning Memo" e-newsletter and is posted on their website. The e-newsletter has an approximate circulation of 5,000. Created pollution prevention poster to be used in restaurant inspections. See II.E.1.c.(4)	Created pollution prevention poster to be used in restaurant inspections. See II.E.1.c.(4) Indy DPW coordinated with other MS4s and the Tippecanoe County Partnership for Water Quality to produce 4 videos in a series entitled "Active Construction Storm Water BMPs". Topics include: site access and preparation; surface stabilization; runoff control; outlet protection and grade stabilization.	TV news story on clearing storm drains: http://wistv.com/2017/04/28/dpw-reminder-clear-debris-from-storm-drains-to-help-prevent-flooding/
II.G.11	Educate owners, designers, developers on sustainable development focused on green infrastructure.	In 2016 and 2017, 11 residential native planting areas and 3 residential rain gardens approved with Office of Sustainability.	Study found Indianapolis street tree population intercepts 536,321,425 gallons of storm water annually with a \$3,325,193 annual storm water run-off management value.	In March 2018, DPW will host a table regarding its Green Supplemental Document at the Indianapolis Sustainability Summit to answer questions and engage the local sustainability community about the incentives of designing and developing with green principles
II.G.12	Assess the constituent knowledge in first year.	Requirement reported in previous annual report.	See 2016	
	Marion County Public Health Department (MCPHD) Training	75 Pool School attendees	54 Pool School attendees	MCPHD staff serves on advisory groups, speaks to neighborhood associations and participates in many locally based health fairs to educate residents about environmental issues such as storm water management, proper disposal of household hazardous waste at Tox Drop locations, and water conservation. MCPHD staff provide educational materials at Earth Day Indiana Festival and act as guest speakers at local universities and colleges.
	Keep Indianapolis Beautiful Great Indy Cleanup Program	April 2016: 171 Community Groups of 6,679 volunteers removed 1,074,700 pounds of trash. October 2016: 366 Community Groups of 12,535 volunteers removed 2,157,553 pounds of trash	331 Community Groups of 10,184 volunteers removed 1,825,180 pounds of trash	See Appendix II.G

**2016 - 2017 Annual Report
NPDES Storm Water Quality Management Plan**

Permit Section	Task Name	2016	2017	Changes, Challenges, New Efforts, Additional Information, etc.
II.H	Program Revisions			
II.H.1	City Requested SWQMP Modifications	None	Facilities SOP modification requested. See II.B.1.d	Channel Maintenance SOP revisions will be forwarded to IDEM when draft is complete. See II.B.1.b.
II.H.2	Department Requested SWQMP Modifications	None	None	No SWQMP Modifications Requested
II.H.3	Management Area Expansion	None	None	No new areas have been annexed into the District
II.J	Assessment of Controls			
II.J.1.a	The city shall submit a certification that an annual review of SWQMP has been completed with the annual reports.	See 2017	See attached certification and SWQMP	
II.J.1.b	Identification of known impacts of storm water controls on ground water.	No known impacts	No known impacts	
II.J.1.c	Identification of locations where BMPs will be placed within City.	Water quality BMPs are included in public and private projects that disturb 1/2 acre or more.	Water quality BMPs are included in public and private projects that disturb 1/2 acre or more.	Planned public project locations and dates are within the City's Capital Improvement Program (CIP) database
II.J.2	Conduct or participate in studies for structural BMP effectiveness.	New products undergo lab testing and review of 12 criteria before being added to the approved products list.	Continued New Products approval process. See II.C.1.a	
III.A	Monitoring Program			
III.A.1	Sample receiving waters for pollutants at 28 locations and submit river monitoring reports monthly.	Information is submitted digitally to EPA via NetDMR each month	In late 2017, the Rivers Monitoring Program transitioned from CEG to the City.	See attached report from CEG in Appendix II.A
III.A.3	Coordinate monitoring efforts and conclusions with the health department.	No significant concerns required coordination with MCPHD in the reporting period. The City and MCPHD continue to collaborate via emergency response program. See II.D.4	No significant concerns required coordination with MCPHD in the reporting period. The City and MCPHD continue to collaborate via emergency response program. See II.D.4	

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APPENDIX II.A – Legal Authority

II.A.1.f	City of Beech Grove	36
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II.A.1.f	City of Southport	67
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II.A.3	IUPUI	109
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II.A.3	University of Indianapolis	143



Meeting Notes

Subject: Stormwater NPDES Compliance – Beech Grove Annual Meeting

Location: Beech Grove City Hall 806 Main Street

Date: 4/28/16

Time: 10:00 am

Participants: Brad Meriwether, Phil Gurganus, Mary Atkins, Kathy Allen

1. There are no updates needed to the MOA. All contacts and emergency response remains the same.
2. The EPA audited the Indianapolis program last week and had questions about how Indianapolis communicated and coordinated with the Excluded Cities. Beech Grove MOA was in place and annual meetings have been documented.
3. Glenn Lange with SWCD has retired and Julie Farr is his interim replacement. The SWCD is looking to hire a full-time replacement for that position. Kathy will forward that contact information on when received. Beech Grove has had some development construction begin this spring. Permit approval process and site inspections seem to be running smoothly.
4. Indianapolis will continue to invite Beech Grove to appropriate trainings when they are scheduled.



Meeting Notes

Subject: Stormwater NPDES Compliance – Beech Grove Annual Meeting

Location: Beech Grove City Hall 806 Main Street

Date: 7/14/17

Time: 9:00 am

Participants: Brad Meriwether, Phil Gurganus, Mary Atkins, Kathy Allen, Ben Easley, Tuan Nguyen

1. Introductions included Ben Easley, Stormwater PIO and Tuan Nguyen, DPW Environmental (Tox Drop, Emergency Response, Rivers Monitoring, Industrial Inspections, Land Phase I & II, etc.)
2. There are no updates needed to the MOA. All contacts and emergency response remains the same.
3. Rule 5 is in the process of being updated and is in draft form. Mary is on the advisory committee. Several changes are proposed and she will keep us updated as the document is finalized.
4. Indianapolis will continue to invite Beech Grove to appropriate trainings when they are scheduled.

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Brad W. Kriewether, Beech Grove	(317) 378-3431
Mary Atkins, Wesslar	317-788-2453
PHIL GURGANUS CITY OF BEECH GROVE	317-445-8553

Beech Grove MDA Mtg. 4/28/16



Department of Public Health

Indianapolis

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NAME (PLEASE PRINT) MAILING ADDRESS (WITH ZIP CODE) PHONE NUMBER / E-MAIL

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Date 7/14/17
Meeting Subject July 5 Bechtel Group Annual 1994 NPDES Mtg

**MEMORANDUM OF AGREEMENT
BETWEEN
DEPARTMENT OF PUBLIC WORKS OF
THE CONSOLIDATED CITY OF
INDIANAPOLIS AND MARION COUNTY
AND
THE CITY OF BEECH GROVE**

This Memorandum of Agreement (hereinafter referred to as "MOA"), entered into by and between the City of Beech Grove, (Entity) and the Department of Public Works ("DPW"), Consolidated City of Indianapolis and Marion County (DPW is referred to as the "Departments" or the "City"), is executed pursuant to the terms and conditions set forth herein.

WHEREAS, the City and the Entity each own and operate a Municipal Separate Storm Sewer System (MS4), are both State and Federal regulated storm water National Pollutant Discharge Elimination System (NPDES) communities and share goals of water quality protection, flood protection, erosion control and storm water management; and

WHEREAS, the City and the Entity hold NPDES Storm Water permits having similar compliance requirements; and

WHEREAS, the City and the Entity desire to enter into this MOA for the purpose of memorializing their relationship and defining the responsibilities of each party hereto.

NOW THEREFORE BE IT RESOLVED, that of the parties to this MOA, the City agrees to comply with NPDES Permit No. IN040001 (Permit) and the Entity agrees to comply in accordance with 327 IAC 15 – 13 as applicable and both City and Entity will hereby control discharges to and from those portions of the MS4 area that are owned or operated by the entities' from the date of execution henceforth, as required by Part II.A 3 of the Permit or as otherwise stated in consideration of the mutual undertakings set forth herein, the sufficiency of which is acknowledged, the parties agree as follows.

TERMS AND CONDITIONS

SECTION I, INTERPRETATION AND INTENT

- 1.01 The "MOA" shall mean this MOA executed by the City and the Entity and shall include these Terms and Conditions, the Attachments described in Section 2 and Section 3 and attached hereto, and any written supplemental agreement or modification entered into between the City and the Entity, in writing, after the date of this MOA.
- 1.02 This MOA constitutes the entire agreement between the parties and supersedes all prior agreements, written or verbal, between the City and Entity pertaining to the Permit. No statements, promises or agreements whatsoever, in writing or verbal, in conflict with the terms of the MOA have been made by the City or the Entity which in any way modify, vary, alter, enlarge or invalidate any of the provisions and obligations herein stated. This MOA may

be renewed, amended and modified only in writing signed by both the City and the Entity.

SECTION II. OBLIGATIONS OF THE CITY AND THE ENTITY

- 2.01 The City's obligations are set forth in Attachment A, attached hereto and made a part hereof.
- 2.02 Entity's obligations are set forth in Attachment B, attached hereto and made a part hereof.

SECTION III. AREA OF RESPONSIBILITY

- 3.01 The City and Entity areas of MS4 responsibility are set forth and illustrated in Attachment C, attached and made a part of hereof.

SECTION IV. TERM

- 4.01 This MOA shall commence on the date of final signature by both parties, and shall terminate on October 31, 2018, unless earlier terminated in accordance with this MOA. This MOA may be renewed through letter agreement prior to the aforementioned date of termination.

SECTION V. GENERAL PROVISIONS

- 5.01 Necessary Documentation. The City and Entity certify that each will furnish, if requested, documentation, certification, or permit, or required by the laws or rules and regulations of the State of Indiana. The City and Entity further certify that each is now in and will maintain its good standing with such governmental agencies and that it is now and will maintain its permit and/or certification, as applicable, in force during the term of this MOA. Failure of the City and/or Entity to comply with this paragraph shall constitute a material breach of this MOA.
- 5.02 Termination for Cause or Convenience. This MOA may be terminated in whole or in part, in writing, by any party for convenience, provided that non-terminating parties are given (1) not less than thirty (30) calendar days written notice (delivered certified mail, return receipt requested) of intent to terminate and (2) an opportunity for consultation with the terminating party prior to termination.
- 5.03 Notice. Any notice, request or other correspondence required to be sent under this MOA shall be sent to:

DPW.

Andy Lutz, P.E., Deputy Director/Chief Engineer
Department of Public Works
City of Indianapolis
1200 South Madison Avenue, Suite 200
Indianapolis Indiana 46225

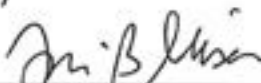
City of Beech Grove:

Mr. Brad Meriwether, Director of Public Works/MS4 Coordinator
City of Beech Grove
806 Main Street
Beech Grove, IN 46107

- 5.04 Disputes. Any and all disputes that may arise between the parties shall be handled in a reasonable and respectful manner. The complaining party shall reduce to writing its complaint. The parties shall within ten (10) business days meet to discuss a joint resolution of the complaint. Should the parties fail to reach an agreement within five (5) business days from the conclusion of their initial meeting, all parties shall agree upon a disinterested third party mediator to determine the dispute's outcome.
- 5.05 Applicable Laws. This MOA shall be construed in accordance with the laws of the State of Indiana.
- 5.06 Severability. If any provision of this MOA is held to be invalid, illegal, or unenforceable by a court of competent jurisdiction, the provision shall be stricken, and all other provisions of this MOA which can operate independently of such stricken provisions shall continue in full force and effect.


IN WITNESS WHEREOF, the parties hereto have executed this MOA on the dates subscribed below.

DEPARTMENT OF PUBLIC WORKS,
CONSOLIDATED CITY OF INDIANAPOLIS
("DPW")

By: 
Lori B. Miser
Director

Date: 4-23-2014

CITY OF BEECH GROVE

By: 
Dennis Buckley
Mayor

Date: MAY 5, 2014

**APPROVED AS TO FORM AND LEGALITY:
OFFICE OF CORPORATION COUNSEL**

By



Assistant Corporation Counsel

ATTACHMENT A

The City's Responsibilities

The City agrees to carry out the following tasks in accordance with the agreement set forth and the articles stated herein:

- 1) Establish a point of contact at the Department of Public Works to carry out necessary and appropriate coordination with Entity for the purpose of execution of the articles of the MOA.
- 2) Establish no less than one meeting annually with Entity for the purpose of reviewing the articles and implementation of the MOA.
- 3) Schedule and carry-out additional meetings with Entity from time-to-time as deemed necessary to coordinate and accomplish the articles of the MOA.
- 4) Review Spill Prevention and Response programs with Entity and establish notification procedures for identified spill and illicit discharge events that occur adjacent to City/Entity boundary or MS4 discharges to or from the same.
- 5) Coordinate with the Entity to identify and clarify the jurisdictional limits for implementation of the Post-Construction Site Run-off Control component of the Permit, specifically related to storm water drainage systems and pollution reduction goals. Written policy and/or illustrations will be developed by the City in coordination with the Entity and as amended to this agreement to complete the following:
 - a) Clearly define boundaries of authority to administer the Post-Construction Storm water Run-off Control Program; and
 - b) Define individual roles and responsibilities of the City and the Entity.
- 6) Coordinate with the Entity to identify and clarify the jurisdictional limits for implementation of the Construction Site Run-off Control component of the Permit, specifically related to storm water drainage systems and pollution reduction goals. Written policy and/or illustrations will be developed by the City in coordination with the Entity and as amended to this agreement to complete the following:
 - a) Clearly define boundaries of authority to administer and carry-out the Construction Site Storm water Run-off Control Program; and
 - b) Define individual roles and responsibilities of the City and the Entity.
- 7) Review the implementation of the MOA annually with the Entity and make recommendations on application and performance of the MOA or its contents.
- 8) Coordinate with Entity to identify and complete modifications and/or supplements to the MOA as determined needed.

ATTACHMENT B

Entity's Responsibilities

Entity agrees to:

1. **Establish a point of contact at the Entity to carry out necessary and appropriate coordination with City for the purpose of execution of the articles of the MOA.**
2. **Attend no less than one meeting annually with City for the purpose of reviewing the articles and implementation of the MOA.**
3. **Attend and carry-out additional meetings with City from time-to-time as deemed necessary to coordinate and accomplish the articles of the MOA.**
4. **Review Spill Prevention and Response programs with City and establish notification procedures for identified spill and illicit discharge events that occur adjacent to Entity/City boundary or storm sewer system that discharges to or from the same.**
5. **Coordinate with City to identify and clarify the jurisdictional limits for implementation of the Post-Construction Site Run-off Control component of the Permit, specifically related to storm water drainage systems and pollution reduction goals.**
6. **Coordinate with the City to identify and clarify the jurisdictional limits for implementation of the Construction Site Run-off Control component of the Permit, specifically related to storm water drainage systems and pollution reduction goals.**
7. **Review the Implementation of the MOA annually with the City and participate in recommendations on application and performance of the MOA or its contents.**
8. **Coordinate with City to identify and complete modifications and/or supplements to the MOA as determined needed.**

May 2015

Memorandum of Agreement between Department of Public Works of the Consolidated City and Marion County and the City of Beech Grove

Supplemental Document 1
Contacts

Purpose: The purpose of this document is to establish the contacts for the City and Entity in conformance with and for the implementation of the Memorandum of Agreement (MOA) between the City and the Entity. Other contacts may be added in conformance with Section I of the MOA.

Implementation: TBD

<u>Department of Public Works</u>	<u>City of Beech Grove</u>
Primary Contact:	Primary Contact:
Melody Park, P.E., Assistant Director, Chief Engineer	Brad Meriwether, Public Works Director
<u>Melody.park@indy.gov</u>	<u>brad.meriwether@beechgrove.com</u>
317.327.7868	317.803.9091
317.432.2359 cell	317.378.3931 cell
Secondary Contact:	Secondary Contact:
Michael Massonne, Program Manager	Phil Gurganus
<u>michael.massonne@indy.gov</u>	<u>Phil.gurganus@beechgrove.com</u>
317.327.8701	317.445.8553 cell
317.201.2038 cell	
Emergency Contact:	Emergency Contact:
DPW Dispatch	Beech Grove Fire Department
317.327.1620	317.782.4940
	911 Emergency

May 2015

Memorandum of Agreement between Department of Public Works of the Consolidated City and
Marion County and the City of Beech Grove

Supplemental Document 2
Meetings

Purpose: The purpose of this document is to establish a coordination meeting(s) schedule for the City and Entity in conformance with and for the implementation of the Memorandum of Agreement (MOA) between the City and the Entity. Additional meetings may be added in conformance with Section I of the MOA.

Implementation: As described in Table 2.1

Table 2.1

<u>Meeting Purpose</u>	<u>Schedule</u>
General Implementation	May - annually
Spill Response Coordination	May - annually
Additional	May – annually or as needed

May 2015

**Memorandum of Agreement between Department of Public Works of the Consolidated City and
Marion County and the City of Beech Grove**

**Supplemental Document 3
Spill Prevention and Response**

Purpose: The purpose of this document is to establish review of spill prevention and response programs of the City and the Entity and establish notification procedures in conformance with and for the implementation of the Memorandum of Agreement (MOA) between the City and the Entity. Specific actions may be added in conformance with Section I of the MOA.

Implementation: TBD and as described in Table 3.1

Table 3.1

<u>Department of Public Works</u>	<u>City of Beech Grove</u>
Emergency Contact	Emergency Contact
DPW Dispatch	Beech Grove Fire Department
317.327.1620	317-782-4940
	911 Emergency
Primary Responder	Primary Responder
DPW Dispatch	Beech Grove Fire Department
317.327.1620	317-782-4940
	911 Emergency
Investigation Contact	Investigation Contact
TBD per event	TBD – per event
Indiana Department of Environmental Management Contacts	
IDEM Emergency Response (888) 233-7745	

December 2015

**Memorandum of Agreement between Department of Public Works of the Consolidated City and
Marion County and the City of Beech Grove**

Supplemental Document 4

Jurisdictional Limits for Post-Construction and Construction Site Run-off Control Components

Purpose: The purpose of this document is to identify and clarify the jurisdictional limits for implementation of the Post-Construction Site Run-off and Construction Site Run-off Control components of the Permit specifically related to storm water drainage systems and pollution reduction goals. This document defines boundaries of authority to administer the aforementioned components and defines individual roles and responsibilities of the City and the Entity. This document denotes procedures in conformance with and for the implementation of the Memorandum of Agreement (MOA) between the City and the Entity. Additional actions may be added in conformance with Section I of the MOA.

Implementation: Attachment C establishes the MS4 areas of responsibilities. Specific responsibilities are listed below.

Responsibilities:

1. Post-Construction Site Run-off Control:

The City of Indianapolis Department of Public Works does not participate in the implementation of Post-Construction Site Run-off Control best management practices within the City of Beech Grove MS4 area of responsibility.

2. Construction Site Run-off Control:

The City of Indianapolis Department of Public Works does not participate in the implementation of Construction Site Run-off Control best management practices within the City of Beech Grove MS4 area of responsibility.

April 2014

Memorandum of Agreement between Department of Public Works of the Consolidated City and
Marion County and the City of Beech Grove

Supplemental Document 5
Additional MS4 Components or Activities

Purpose: The purpose of this document is to establish the terms and implementation of additional MS4 related activities that are determined to be made part of the Memorandum of Agreement (MOA) between the City and the Entity. The items below have been included in conformance with Section I of the MOA.

1 N/A

**MEMORANDUM OF AGREEMENT
BETWEEN
DEPARTMENT OF PUBLIC WORKS OF
THE CONSOLIDATED CITY OF
INDIANAPOLIS AND MARION COUNTY
AND
THE CITY OF LAWRENCE**

This Memorandum of Agreement (hereinafter referred to as "MOA"), entered into by and between the City of Lawrence, (Entity) and the Department of Public Works ("DPW"), Consolidated City of Indianapolis and Marion County (DPW is referred to as the "Departments" or the "City"), is executed pursuant to the terms and conditions set forth herein.

WHEREAS, the City and the Entity each own and operate a Municipal Separate Storm Sewer System (MS4), are both State and Federal regulated storm water National Pollutant Discharge Elimination System (NPDES) communities and share goals of water quality protection, flood protection, erosion control and storm water management; and

WHEREAS, the City and the Entity hold NPDES Storm Water permits having similar compliance requirements; and

WHEREAS, the City and the Entity desire to enter into this MOA for the purpose of memorializing their relationship and defining the responsibilities of each party hereto;

NOW THEREFORE BE IT RESOLVED, that of the parties to this MOA, the City agrees to comply with NPDES Permit No. INS040001 (Permit) and the Entity agrees to comply in accordance with 327 IAC 15 – 13 as applicable and both City and Entity will hereby 'control discharges to and from those portions of the MS4 area that are owned or operated by the entities' from the date of execution henceforth, as required by Part II.A.3 of the Permit or as otherwise stated in consideration of the mutual undertakings set forth herein, the sufficiency of which is acknowledged, the parties agree as follows:

TERMS AND CONDITIONS

SECTION I, INTERPRETATION AND INTENT

- 1.01 The "MOA" shall mean this MOA executed by the City and the Entity and shall include these Terms and Conditions, the Attachments described in Section 2 and Section 3 and attached hereto, and any written supplemental agreement or modification entered into between the City and the Entity, in writing, after the date of this MOA.

- 1.02 This MOA constitutes the entire agreement between the parties and supersedes all prior agreements, written or verbal, between the City and Entity pertaining to the Permit. No statements, promises or agreements whatsoever, in writing or verbal, in conflict with the terms of the MOA have been made by the City or the Entity which in any way modify, vary, alter, enlarge or invalidate any of the provisions and obligations herein stated. This MOA may

be renewed, amended and modified only in writing signed by both the City and the Entity.

SECTION II. OBLIGATIONS OF THE CITY AND THE ENTITY

2.01 The City's obligations are set forth in Attachment A, attached hereto and made a part hereof.

2.02 Entity's obligations are set forth in Attachment B, attached hereto and made a part hereof.

SECTION III. AREA OF RESPONSIBILITY

3.01 The City and Entity areas of MS4 responsibility are set forth and illustrated in Attachment C, attached and made a part of hereof.

SECTION IV. TERM

4.01 This MOA shall commence on the date of final signature by both parties, and shall terminate on October 31, 2018, unless earlier terminated in accordance with this MOA. This MOA may be renewed through letter agreement prior to the aforementioned date of termination.

SECTION V. GENERAL PROVISIONS

5.01 Necessary Documentation. The City and Entity certify that each will furnish, if requested, documentation, certification, or permit, as required by the laws or rules and regulations of the State of Indiana. The City and Entity further certify that each is now in and will maintain its good standing with such governmental agencies and that it is now and will maintain its permit and/or certification, as applicable, in force during the term of this MOA. Failure of the City and/or Entity to comply with this paragraph shall constitute a material breach of this MOA.

5.02 Termination for Cause or Convenience. This MOA may be terminated in whole or in part, in writing, by any party for convenience, provided that non-terminating parties are given (1) not less than thirty (30) calendar days written notice (delivered certified mail, return receipt requested) of intent to terminate and (2) an opportunity for consultation with the terminating party prior to termination.

5.03 Notice. Any notice, request or other correspondence required to be sent under this MOA shall be sent to:

DPW:

Lori Miser, DPW Director
Department of Public Works
City of Indianapolis
1200 South Madison Avenue, Suite 200
Indianapolis, Indiana 46225

City of Lawrence:
William Anthony
City of Lawrence Public Works Director
9001 East 59th Street, Suite 300
Lawrence, IN 46216

- 5.04 Disputes. Any and all disputes that may arise between the parties shall be handled in a reasonable and respectful manner. The complaining party shall reduce to writing its complaint. The parties shall within ten (10) business days meet to discuss a joint resolution of the complaint. Should the parties fail to reach an agreement within five (5) business days from the conclusion of their initial meeting, all parties shall agree upon a disinterested third party mediator to determine the dispute's outcome.
- 5.05 Applicable Laws. This MOA shall be construed in accordance with the laws of the State of Indiana.
- 5.06 Severability. If any provision of this MOA is held to be invalid, illegal, or unenforceable by a court of competent jurisdiction, the provision shall be stricken, and all other provisions of this MOA which can operate independently of such stricken provisions shall continue in full force and effect.

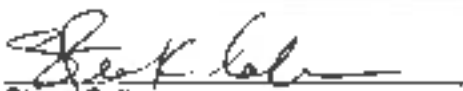
IN WITNESS WHEREOF, the parties hereto have executed this MOA on the dates subscribed below.

DEPARTMENT OF PUBLIC WORKS,
CONSOLIDATED CITY OF INDIANAPOLIS
("DPW")

By: 
Lori B. Misher
Director

Date: 7.19.16

CITY OF LAWRENCE

By: 
Steve Collier
Mayor

Date: 7/26/2016

**APPROVED AS TO FORM AND LEGALITY:
OFFICE OF CORPORATION COUNSEL**

By:  _____
Assistant Corporation Counsel

ATTACHMENT A

The City's Responsibilities

The City agrees to carry out the following tasks in accordance with the agreement set forth and the articles stated herein:

- 1) Establish a point of contact at the Department of Public Works to carry out necessary and appropriate coordination with Entity for the purpose of execution of the articles of the MOA.
- 2) Establish no less than one meeting annually with Entity for the purpose of reviewing the articles and implementation of the MOA.
- 3) Schedule and carry-out additional meetings with Entity from time-to-time as deemed necessary to coordinate and accomplish the articles of the MOA.
- 4) Review Spill Prevention and Response programs with Entity and establish notification procedures for identified spill and illicit discharge events that occur adjacent to City/Entity boundary or MS4 discharges to or from the same.
- 5) Coordinate with the Entity to identify and clarify the jurisdictional limits for implementation of the Post-Construction Site Run-off Control component of the Permit, specifically related to storm water drainage systems and pollution reduction goals. Written policy and/or illustrations will be developed by the City in coordination with the Entity and as amended to this agreement to complete the following:
 - a) Clearly define boundaries of authority to administer the Post-Construction Storm water Run-off Control Program; and
 - b) Define individual roles and responsibilities of the City and the Entity.
- 6) Coordinate with the Entity to identify and clarify the jurisdictional limits for implementation of the Construction Site Run-off Control component of the Permit, specifically related to storm water drainage systems and pollution reduction goals. Written policy and/or illustrations will be developed by the City in coordination with the Entity and as amended to this agreement to complete the following:
 - a) Clearly define boundaries of authority to administer and carry-out the Construction Site Storm water Run-off Control Program; and
 - b) Define individual roles and responsibilities of the City and the Entity.
- 7) Review the implementation of the MOA annually with the Entity and make recommendations on application and performance of the MOA or its contents.
- 8) Coordinate with Entity to identify and complete modifications and/or supplements to the MOA as determined needed.

ATTACHMENT B

Entity's Responsibilities

Entity agrees to:

1. Establish a point of contact at the Entity to carry out necessary and appropriate coordination with City for the purpose of execution of the articles of the MOA.
2. Attend no less than one meeting annually with City for the purpose of reviewing the articles and implementation of the MOA.
3. Attend and carry-out additional meetings with City from time-to-time as deemed necessary to coordinate and accomplish the articles of the MOA.
4. Review Spill Prevention and Response programs with City and establish notification procedures for identified spill and illicit discharge events that occur adjacent to Entity/City boundary or storm sewer system that discharges to or from the same.
5. Coordinate with City to identify and clarify the jurisdictional limits for implementation of the Post-Construction Site Run-off Control component of the Permit, specifically related to storm water drainage systems and pollution reduction goals.
6. Coordinate with the City to identify and clarify the jurisdictional limits for implementation of the Construction Site Run-off Control component of the Permit, specifically related to storm water drainage systems and pollution reduction goals.
7. Review the implementation of the MOA annually with the City and participate in recommendations on application and performance of the MOA or its contents.
8. Coordinate with City to identify and complete modifications and/or supplements to the MOA as determined needed.

August 2017

**Memorandum of Agreement between Department of Public Works of the Consolidated City and
Marion County and the City of Lawrence**

Supplemental Document 1
Contacts

Purpose: The purpose of this document is to establish the contacts for the City and Entity in conformance with and for the implementation of the Memorandum of Agreement (MOA) between the City and the Entity. Other contacts may be added in conformance with Section I of the MOA.

Implementation: TBD

<u>Department of Public Works</u>	<u>City of Lawrence</u>
Primary Contact:	Primary Contact:
Melody Park, P.E., Assistant Director, Chief Engineer	William Anthony, Public Works Director
Melody.park@indy.gov	wanthony@cityoflawrence.org
317.327.7868	317.542.4480 office
317.432.2359 cell	317.296.2871 mobile
Secondary Contact:	Secondary Contact:
Michael Massonne, Program Manager	David Johnson
michael.massonne@indy.gov	City of Lawrence, Corporation Counsel
317.327.8701	djohnson@cityoflawrence.org
317.201.2038 cell	317.545.6191
Emergency Contact:	Emergency Contact:
DPW Dispatch	David Lotts, Street Department Director
317.327.1620	dlotts@cityoflawrence.org
	317.460.4144 mobile

August 2016

Memorandum of Agreement between Department of Public Works of the Consolidated City and
Marion County and the City of Lawrence

Supplemental Document 2
Meetings

Purpose: The purpose of this document is to establish a coordination meeting(s) schedule for the City and Entity in conformance with and for the implementation of the Memorandum of Agreement (MOA) between the City and the Entity. Additional meetings may be added in conformance with Section I of the MOA.

Implementation: As described in Table 2.1

Table 2.1

Meeting Purpose	Schedule
General Implementation	July - annually
Spill Response Coordination	July - annually
Additional	TBD

August 2016

Memorandum of Agreement between Department of Public Works of the Consolidated City and
Marion County and the City of Lawrence

Supplemental Document 3
Spill Prevention and Response

Purpose: The purpose of this document is to establish review of spill prevention and response programs of the City and the Entity and establish notification procedures in conformance with and for the implementation of the Memorandum of Agreement (MOA) between the City and the Entity. Specific actions may be added in conformance with Section I of the MOA.

Implementation: TBD and as described in Table 3.1

Table 3.1

<u>Department of Public Works</u>	<u>City of Lawrence</u>
Emergency Contact	Emergency Contact
DPW Dispatch	David Lotts, Street Department Director
317.327.1620	317.460.4144 mobile
Primary Responder	Primary Responder
DPW Dispatch	David Lotts, Street Department Director
317.327.1620	317.460.4144 mobile
Investigation Contact	Investigation Contact
TBD per event	TBD
Indiana Department of Environmental Management Contacts	
Emergency Response (888) 233-7745	

July 2016

**Memorandum of Agreement between Department of Public Works of the Consolidated City and
Marion County and the City of Lawrence**

Supplemental Document 4

Jurisdictional Limits for Post-Construction and Construction Site Run-off Control Components

Purpose: The purpose of this document is to identify and clarify the jurisdictional limits for implementation of the Post-Construction Site Run-off and Construction Site Run-off Control components of the Permit specifically related to storm water drainage systems and pollution reduction goals. This document defines boundaries of authority to administer the aforementioned components and defines individual roles and responsibilities of the City and the Entity. This document denotes procedures in conformance with and for the implementation of the Memorandum of Agreement (MOA) between the City and the Entity. Additional actions may be added in conformance with Section I of the MOA.

Implementation: Attachment C establishes the MS4 areas of responsibilities. Specific responsibilities are listed below.

Responsibilities:

1. Post-Construction Site Run-off Control:

The City of Indianapolis Department of Public Works does not participate in the implementation of Post-Construction Site Run-off Control best management practices within the City of Lawrence MS4 area of responsibility.

2. Construction Site Run-off Control:

The City of Indianapolis Department of Public Works does not participate in the implementation of Construction Site Run-off Control best management practices within the City of Lawrence MS4 area of responsibility.

July 2016

**Memorandum of Agreement between Department of Public Works of the Consolidated City and
Marion County and the City of Lawrence**

**Supplemental Document 5
Additional MS4 Components or Activities**

Purpose: The purpose of this document is to establish the terms and implementation of additional MS4 related activities that are determined to be made part of the Memorandum of Agreement (MOA) between the City and the Entity. The items below have been included in conformance with Section I of the MOA.

1. N/A



Meeting Notes

Subject: Stormwater NPDES Annual Coordination - Lawrence

Location: 1200 Madison Ave, Meridian Conference Room

Date: 8/8/16

Attendees: Bill Anthony, Mike Massonne, Kathy Allen

1. Mike and Kathy gave a brief overview of the MOA history and purpose.
2. Staci Goodwin is the new MS4 Coordinator for IDEM.
3. The group reviewed the agreement and made updates to the Supplemental Documents. Kathy will finalize the document and send an executed PDF to Bill.
4. Kathy will be Bill's contact when there are MS4 issues or questions and will get the appropriate Indianapolis people involved. DPW Dispatch is on call 24 hours a day for emergency response.
5. All Supplemental Documents can be updated at any time. As we work through the Stormwater Agreement, we can add NPDES requirements to SD 5 if desired.
6. The closest ToxDrop to the City of Lawrence is located at IMPD Training Facility, 9049 E. 10th St and is open on the 3rd Saturday of each month from 9am- 2pm.
7. Kathy will forward the Good Housekeeping flyer and inquire about good housekeeping and spill response training.



Meeting Notes

Subject: Stormwater NPDES Annual Coordination - Lawrence

Location: 9001 E 59th Street, Lawrence DPW

Date: 8/4/17

Attendees: Bill Anthony, Tuan Nguyen, Kathy Allen

1. Introductions were made.
2. There was one update to the Lawrence contact in the agreement. Kathy will update the Supplemental Document email an executed PDF to Bill.
3. The City of Lawrence is responsible to respond to spills within their jurisdiction. The fire department responds and calls MCPHD and/or IDEM if backup is needed.
4. The City of Lawrence does not have a solid waste district. This is handled via private contracts with Republic Services.
5. Construction site inspections are increasing. Most site operators are responsive but occasionally IDEM is called. Stop work orders (for all trades) seems to be an effective tool for both cities.
6. Hillary will be scheduling facilities trainings in the coming weeks and will invite Lawrence. The Lawrence inspector attended the construction site training earlier this summer.
7. Staci Goodwin is the new MS4 Coordinator for IDEM. She mentioned performing random inspection on operations facilities in the next year or so.



Meeting Notes

Date: July 18, 2016

Subject: Annual NPDES Coordination Meeting

Participants: Russell McClure, Kathy Allen

1. There was a discussion of the Indianapolis permit requirement and Southport MOU.
2. The MOU was discussed and reviewed for updates. Supplemental Documents 1 & 3 were updated with new contact information for Southport. Kathy will make updates and forward the revised MOU to Southport. Annual coordination meetings will continue to be held in July each year.
3. The City of Indianapolis's stormwater program was audited by the EPA in April. If any items related to Southport are included in their findings, Indianapolis will contact Southport.



Meeting Notes

Subject: Stormwater NPDES Annual Coordination - Southport

Location: 1200 Madison Avenue, Suite 200

Date: 9/20/17

Attendees: Russel McClure, Jim Cooney, Dave Keiser, Tuan Nguyen, Kathy Allen

1. Introductions were made.
2. There were no updates to the agreement needed.
3. Southport has created a new education and outreach handout. Southport to email to Kathy.
4. Indianapolis's stormwater outreach contact is Ben Easley. He is working on various outreach documents and will upload them to the website. Kathy to forward Southport's document to Ben when received and make introductions via email.
5. Southport has an IDDE training video that they will share. There are many videos on the internet available for various NPDES topics for people to use as needed.
6. Indianapolis has one more construction inspector training to schedule. Indy generally invites Excluded Cities to these and Southport has not yet attended (and is not required to). Dave would like to be invited to this last training.
7. IDEM's Rule 5 language is being revised.
8. Southport gave Indianapolis the McFarland Road scoping report that outlines drainage issues and would like Indianapolis to consider assistance. Kathy to forward to the appropriate people and respond back to Southport.



Department of Public Works

Indianapolis

SIGN-IN SHEET (PLEASE PRINT)

NAME (PLEASE PRINT) MAILING ADDRESS (WITH ZIP CODE) PHONE NUMBER / E-MAIL

KATHY ALLEN	1200 Madison Ave. Suite 200	317-327-8428
Dave Kreser	9120 ORIS Ave, INDIANAPOLIS, IN	317-610-6892
Jim Cooney	6901 Derbyshire Indianapolis	317-983-2030
Russell McClure	6901 Ruby Lane - Southport	"
Tuan Nguyen	1761 S. West Street	317-327-2353

Date 9-20-17
Meeting Subject Southport / Indy NPDES Annual Mtg.

**MEMORANDUM OF AGREEMENT
BETWEEN
DEPARTMENT OF PUBLIC WORKS OF
THE CONSOLIDATED CITY OF
INDIANAPOLIS AND MARION COUNTY
AND
THE CITY OF SOUTHPORT**

This Memorandum of Agreement (hereinafter referred to as "MOA"), entered into by and between the City of Southport, ("Entity") and the Department of Public Works ("DPW"), Consolidated City of Indianapolis and Marion County (DPW is referred to as the "Department" or the "City"), is executed pursuant to the terms and conditions set forth herein.

WHEREAS, the City and the Entity each own and operate a Municipal Separate Storm Sewer System (MS4), are both State and Federal regulated storm water National Pollutant Discharge Elimination System (NPDES) communities and share goals of water quality protection, flood protection, erosion control and storm water management; and

WHEREAS, the City and the Entity hold NPDES Storm Water permits having similar compliance requirements; and

WHEREAS, the City and the Entity desire to enter into this MOA for the purpose of memorializing their relationship and defining the responsibilities of each party hereto,

NOW THEREFORE BE IT RESOLVED, that of the parties to this MOA, the City agrees to comply with NPDES Permit No. IN040001 ("Permit") and the Entity agrees to comply in accordance with 327 IAC 15 - 13, as applicable, and both City and Entity will hereby control discharges to and from those portions of the MS4 area that are owned or operated by the parties from the date of execution henceforth, as required by Part II.A.3 of the Permit or as otherwise stated in consideration of the mutual undertakings set forth herein, the sufficiency of which is acknowledged. The parties agree as follows:

TERMS AND CONDITIONS

SECTION I, INTERPRETATION AND INTENT

- 1.01 The "MOA" shall mean this MOA executed by the City and the Entity and shall include these Terms and Conditions, the Attachments described in Section 2 and Section 3 and attached hereto, and any written supplemental agreement or modification entered into between the City and the Entity, in writing, after the date of this MOA.
- 1.02 This MOA constitutes the entire agreement between the parties and supersedes all prior agreements, written or verbal, between the City and Entity pertaining to the Permit. No statements, promises or agreements whatsoever, in writing or verbal, in conflict with the terms of the MOA have been made by the City or the Entity which in any way modify, vary, alter, enlarge or invalidate any of the provisions and obligations herein stated. This MOA may

be renewed, amended and modified only in writing signed by both the City and the Entity.

SECTION II. OBLIGATIONS OF THE CITY AND THE ENTITY

- 2.01 The City's obligations are set forth in Attachment A, attached hereto and made a part hereof
- 2.02 Entity's obligations are set forth in Attachment B, attached hereto and made a part hereof

SECTION III. AREA OF RESPONSIBILITY

- 3.01 The City and Entity areas of MS4 responsibility are set forth and illustrated in Attachment C, attached hereto and made a part of hereof

SECTION IV. TERM

- 4.01 This MOA shall commence on the date of final signature by both parties, and shall terminate on October 31, 2018, unless earlier terminated in accordance with this MOA. This MOA may be renewed through letter agreement prior to the aforementioned date of termination.

SECTION V. GENERAL PROVISIONS

- 5.01 Necessary Documentation. The City and Entity certify that each will furnish to each other, if requested, documentation, certification, or permit, or other documentation as required by the laws or rules and regulations of the State of Indiana. The City and Entity further certify that each is now in and will maintain its good standing with such governmental agencies and that it is now and will maintain its individual permit and/or certification, as applicable, in force during the term of this MOA. Failure of the City and/or Entity to comply with this paragraph shall constitute a material breach of this MOA.
- 5.02 Termination for Cause or Convenience. This MOA may be terminated in whole or in part, in writing, by any party for convenience, provided that non-terminating party is given (1) not less than thirty (30) calendar days written notice (delivered certified mail return receipt requested) of intent to terminate and (2) an opportunity for consultation with the terminating party prior to termination
- 5.03 Notice. Any notice, request or other correspondence required to be sent under this MOA shall be sent to:

DPW:

Ms. Melody Park, P.E., Deputy Director/Chief Engineer
Department of Public Works
City of Indianapolis
1200 South Madison Avenue, Suite 200
Indianapolis, Indiana 46225

City of Southport:
Mr. David Kieser
City of Southport Storm Water Representative
9120 Olls Avenue, Suite 201
Lawrence, IN 46216

- 5.04 Disputes. Any and all disputes that may arise between the parties shall be handled in a reasonable and respectful manner. The complaining party shall reduce to writing its complaint. The parties shall, within ten (10) business days of receipt of the notice, meet to discuss a joint resolution of the complaint. Should the parties fail to reach an agreement within five (5) business days from the conclusion of their initial meeting, all parties shall agree upon a disinterested third party mediator to determine the dispute's outcome.
- 5.05 Applicable Laws. This MOA shall be construed in accordance with the laws of the State of Indiana.
- 5.06 Severability. If any provision of this MOA is held to be invalid, illegal, or unenforceable by a court of competent jurisdiction, the provision shall be stricken, and all other provisions of this MOA which can operate independently of such stricken provisions shall continue in full force and effect.

IN WITNESS WHEREOF, the parties hereto have executed this MOA on the dates subscribed below.

DEPARTMENT OF PUBLIC WORKS
CONSOLIDATED CITY OF INDIANAPOLIS
("DPW")

By: 

Andy Lutz, P.E.
Director

Date: 4/1/15

CITY OF SOUTHPORT
("ENTITY")

By: 

Vernon J. Trastruth
Mayor

Date: 3-25-15

**APPROVED AS TO FORM AND LEGALITY:
INDIANAPOLIS OFFICE OF CORPORATION COUNSEL**

By: 
Assistant Corporation Counsel

ATTACHMENT A

The City's Responsibilities

The City agrees to carry out the following tasks in accordance with the agreement set forth and the articles stated herein:

- 1) Establish a point of contact at the Department of Public Works to carry out necessary and appropriate coordination with Entity for the purpose of execution of the articles of the MOA.
- 2) Establish no less than one meeting annually with Entity for the purpose of reviewing the articles and implementation of the MOA.
- 3) Schedule and carry-out additional meetings with Entity from time-to-time as deemed necessary to coordinate and accomplish the articles of the MOA.
- 4) Review Spill Prevention and Response programs with Entity and establish notification procedures for identified spill and illicit discharge events that occur adjacent to City/Entity boundary or MS4 discharges to or from the same.
- 5) Coordinate with the Entity to identify and clarify the jurisdictional limits for implementation of the Post-Construction Site Run-off Control component of the Permit, specifically related to storm water drainage systems and pollution reduction goals. Written policy and/or illustrations will be developed by the City in coordination with the Entity and as amended to this agreement to complete the following:
 - a) Clearly define boundaries of authority to administer the Post-Construction Storm water Run-off Control Program; and
 - b) Define individual roles and responsibilities of the City and the Entity.
- 6) Coordinate with the Entity to identify and clarify the jurisdictional limits for implementation of the Construction Site Run-off Control component of the Permit, specifically related to storm water drainage systems and pollution reduction goals. Written policy and/or illustrations will be developed by the City in coordination with the Entity and as amended to this agreement to complete the following:
 - a) Clearly define boundaries of authority to administer and carry-out the Construction Site Storm water Run-off Control Program; and
 - b) Define individual roles and responsibilities of the City and the Entity.
- 7) Review the implementation of the MOA annually with the Entity and make recommendations on application and performance of the MOA or its contents.
- 8) Coordinate with Entity to identify and complete modifications and/or supplements to the MOA as determined needed.

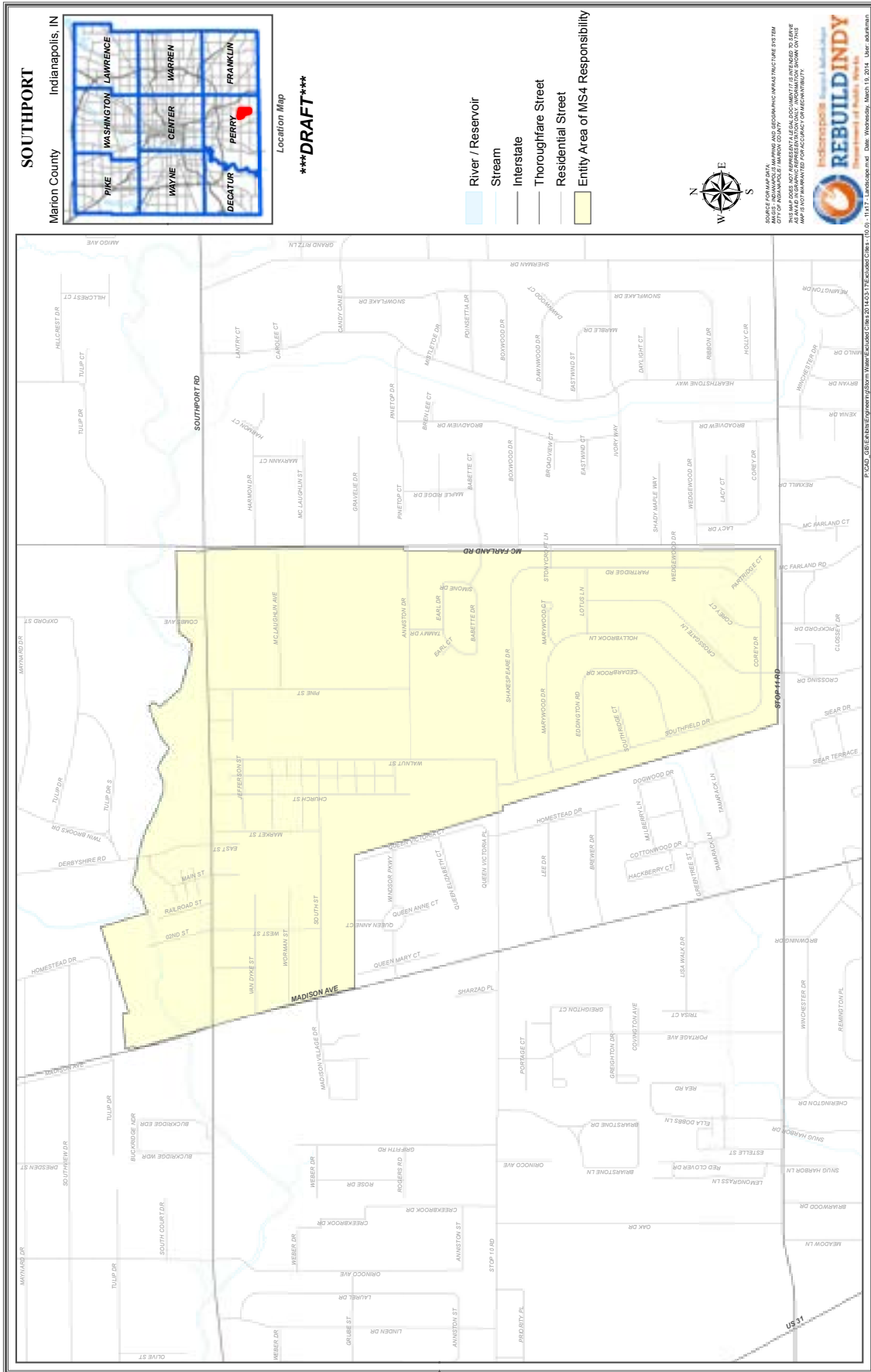
ATTACHMENT B

Entity's Responsibilities

Entity agrees to:

1. Establish a point of contact at the Entity to carry out necessary and appropriate coordination with City for the purpose of execution of the articles of the MOA.
2. Attend no less than one meeting annually with City for the purpose of reviewing the articles and implementation of the MOA.
3. Attend and carry-out additional meetings with City from time-to-time as deemed necessary to coordinate and accomplish the articles of the MOA.
4. Review Spill Prevention and Response programs with City and establish notification procedures for identified spill and illicit discharge events that occur adjacent to Entity/City boundary or storm sewer system that discharges to or from the same.
5. Coordinate with City to identify and clarify the jurisdictional limits for implementation of the Post-Construction Site Run-off Control component of the Permit, specifically related to storm water drainage systems and pollution reduction goals.
6. Coordinate with the City to identify and clarify the jurisdictional limits for implementation of the Construction Site Run-off Control component of the Permit, specifically related to storm water drainage systems and pollution reduction goals.
7. Review the implementation of the MOA annually with the City and participate in recommendations on application and performance of the MOA or its contents.
8. Coordinate with City to identify and complete modifications and/or supplements to the MOA as determined needed.

Attachment C



July 2016

**Memorandum of Agreement between Department of Public Works of the Consolidated City and
Marion County and the City of Southport**

Supplemental Document 1
Contacts

Purpose: The purpose of this document is to establish the contacts for the City and Entity in conformance with and for the implementation of the Memorandum of Agreement (MOA) between the City and the Entity. Other contacts may be added in conformance with Section I of the MOA.

Implementation: TBD

<u>Department of Public Works</u>	<u>Town of Southport</u>
Primary Contact:	Primary Contact:
Melody Park, PE Assistant Director/Chief Engineer	David Kieser, Storm Water Representative
Melody.park@indy.gov	davekieser@sbcglobal.net
317.327.7868	317.545.5901
317.432.2359 cell	317.610.6496 cell
Secondary Contact:	Secondary Contact:
Kathy Allen, Project Manager	Russell McClure, Mayor
Kathy.allen@indy.gov	mayor@southport.in.gov
317.327.8428	317.786.5489
317.294.3782 cell	317.726.7975 cell
Emergency Contact:	Emergency Contact:
DPW Dispatch	Tom Vaughn, Chief of Police
317.327.1620	Tvaughn.sopd@outlook.com
	317.787.7595
	317.400.9541 cell

REV

July 2015

**Memorandum of Agreement between Department of Public Works of the Consolidated City and
Marion County and the City of Southport**

**Supplemental Document 2
Meetings**

Purpose: The purpose of this document is to establish a coordination meeting(s) schedule for the City and Entity in conformance with and for the implementation of the Memorandum of Agreement (MOA) between the City and the Entity. Additional meetings may be added in conformance with Section I of the MOA.

Implementation: As described in Table 2.1

Table 2.1

Meeting Purpose	Schedule
General Implementation	July - Annually
Spill Response Coordination	July - Annually
Additional	July - Annually or as needed

July 2016

**Memorandum of Agreement between Department of Public Works of the Consolidated City and
Marion County and the City of Southport**

Supplemental Document 3
Spill Prevention and Response

Purpose: The purpose of this document is to establish review of spill prevention and response programs of the City and the Entity and establish notification procedures in conformance with and for the implementation of the Memorandum of Agreement (MOA) between the City and the Entity. Specific actions may be added in conformance with Section I of the MOA.

Implementation: TBD and as described in Table 3.1

Table 3.1

<u>Department of Public Works</u>	<u>City of Southport</u>
Emergency Contact	Emergency Contact
DPW Dispatch	Tom Vaughn, Chief of Police
317.327.1620	317.787.7595 317.400.9541 cell
Primary Responder	Primary Responder
DPW Dispatch	Tom Vaughn, Chief of Police
317.327.1620	317.787.7595
	317.400.9541 cell
Investigation Contact	Investigation Contact
TBD per event	Tom Vaughn, Chief of Police
	317.787.7595 317.400.9541 cell
Indiana Department of Environmental Management Contacts	
IDEM Emergency Response (888) 233-7745	

REV 1 JULY 2015

December 2014

**Memorandum of Agreement between Department of Public Works of the Consolidated City and
Marion County and the City of Southport**

Supplemental Document 4

Jurisdictional Limits for Post-Construction and Construction Site Run-off Control Components

Purpose: The purpose of this document is to identify and clarify the jurisdictional limits for implementation of the Post-Construction Site Run-off and Construction Site Run-off Control components of the Permit specifically related to storm water drainage systems and pollution reduction goals. This document defines boundaries of authority to administer the aforementioned components and defines individual roles and responsibilities of the City and the Entity. This document denotes procedures in conformance with and for the implementation of the Memorandum of Agreement (MOA) between the City and the Entity. Additional actions may be added in conformance with Section I of the MOA.

Implementation: Attachment C establishes the MS4 areas of responsibilities. Specific responsibilities are listed below.

Responsibilities:

1. Post-Construction Site Run-off Control:

The City of Indianapolis Department of Public Works does not participate in the implementation of Post-Construction Site Run-off Control best management practices within the City of Southport MS4 area of responsibility.

2. Construction Site Run-off Control:

The City of Indianapolis Department of Public Works does not participate in the implementation of Construction Site Run-off Control best management practices within the City of Southport MS4 area of responsibility.

REV

January 2016

**Memorandum of Agreement between Department of Public Works of the Consolidated City and
Marion County and the City of Southport**

**Supplemental Document 5
Additional MS4 Components or Activities**

Purpose: The purpose of this document is to establish the terms and implementation of additional MS4 related activities that are determined to be made part of the Memorandum of Agreement (MOA) between the City and the Entity. The items below have been included in conformance with Section I of the MOA.



Meeting Notes

Subject: Stormwater NPDES Meeting w/Speedway

Attendees: Norm Berry, Nathan Beach, Kathy Allen

Date: 6/27/16

1. No changes to the MOU are needed at this time. Contacts remain the same.
2. The EPA audit findings are expected in the next 1-4 months. No involvement with the Town of Speedway is anticipated.
3. There was some discussion regarding a project that is outside of Speedway jurisdiction but discharges to a creek that runs through Speedway. Although Speedway has no enforcement rights, Norm can inspect if he wishes and has access to the private site. Pictures can be forwarded to Indianapolis DCE for enforcement. Kathy would be happy to pass them along to the right people.
4. Kathy will be training a new construction site inspector in the coming weeks and there is room for additional people if Speedway wants to participate.
5. The remainder of the meeting discussed the Farley Addition / Topp Creek drainage problem area.



Meeting Notes

Subject: Stormwater NPDES Meeting w/Speedway

Attendees: Norm Berry, Mike Davis, Kathy Allen, Tuan Nguyen, Bernie Ahaus

Date: 7/11/17

1. Mike's contact will be added to the agreement.
2. Farley Addition/Topp Creek project is finalizing scoping. Speedway has completed the sanitary lining/rehab project in the area and continues to receive stormwater calls from residents. Kathy to follow up on timing of construction (budgeted for 2019). Norm would like to be kept in the loop as the project progresses.
3. General stormwater calls should go to 317-924-3311 (CEG call center). If calls are for a known project like Farley/Topp, Speedway may direct citizens to Ben Easley 317-327-2315 or ben.easley@indy.gov
4. Speedway is pursuing a flat rate stormwater user fee.
5. Speedway does random private post-construction inspections. A few have been out of compliance but got back into compliance because of the inspection. Thus far, none have gone to enforcement. Indianapolis has tied the stormwater user fee credit program with self-reporting of post-construction BMPs to help with the oversight program. The fee structure was updated recently and this portion of the credit program is at the beginning stages of implementation. Speedway may structure their fee to help with compliance in a similar manner.
6. Speedway has a \$1000 fine plus cleanup costs to discourage illicit discharges.
7. Rule 5 language is being updated. Kathy to forward the draft language.
8. NOTs are not being submitted consistently to either MS4 as required.
9. Heritage Crystal Clean near 10th and Holt has had numerous illicit discharges over the last few years. Thus far, Speedway does not believe the pollutants have migrated to Indianapolis but would notify us if they had entered the Indy MS4. Kathy to follow up in the Indy Industrial Records (yes, they have a current Rule 6 permit and they were inspected in 2016). IDEM and MCPHD are aware of their compliance issues. They want to





expand their facility in the floodplain. Suggestion: to speak with Donna Price about floodplain regulations.

10. Indy has one more construction inspector training to schedule and will invite Speedway.





SIGN-IN SHEET (PLEASE PRINT)

NAME (PLEASE PRINT)	MAILING ADDRESS (WITH ZIP CODE)	PHONE NUMBER / E-MAIL
Kathryn Allen	1200 Madison Ave, Suite 200	317 327 8428
Nikhil Brack	"	ndhan.brack@indy.gov
NORMAN BERRY		246.2855 nberry@speedcityin.gov

MEETING: _____

DATE: _____



Department of Public Works

MAILING LABELS

818 W. BENTLEY ST. MONTPELIER, VT 05602



NAME (PLEASE PRINT) MAILING ADDRESS (WITH ZIP CODE) PHONE NUMBER / E-MAIL

Kathy Allen 1200 Madison Ave 317-327-8428

Michael Davis 1251 W. Vermont St., Foly 317-246-2854

NORWEN BERRY " " " 317-246-2855

Tuan Nguyen 1761 S. Green St 317-327-2353

BERNIE FOLKUS 1261 S. WEST ST. 317-327-1647

Date 7/11/17

Mailing Subject Annual MST Mtg - Spreading 3 books

**MEMORANDUM OF AGREEMENT
BETWEEN
DEPARTMENT OF PUBLIC WORKS OF
THE CONSOLIDATED CITY OF
INDIANAPOLIS AND MARION COUNTY
AND
THE TOWN OF SPEEDWAY**

This Memorandum of Agreement (hereinafter referred to as "MOA"), entered into by and between the Town of Speedway, ("Entity") and the Department of Public Works ("DPW"), Consolidated City of Indianapolis and Marion County (DPW is referred to as the "Department" or the "City"), is executed pursuant to the terms and conditions set forth herein.

WHEREAS, the City and the Entity each own and operate a Municipal Separate Storm Sewer System (MS4), are both State and Federal regulated storm water National Pollutant Discharge Elimination System (NPDES) communities and share goals of water quality protection, flood protection, erosion control and storm water management; and

WHEREAS, the City and the Entity hold NPDES Storm Water permits having similar compliance requirements; and

WHEREAS, the City and the Entity desire to enter into this MOA for the purpose of memorializing their relationship and defining the responsibilities of each party hereto;

NOW THEREFORE BE IT RESOLVED, that of the parties to this MOA, the City agrees to comply with NPDES Permit No. INS040001 ("Permit") and the Entity agrees to comply in accordance with 327 IAC 15 – 13, as applicable, and both City and Entity will hereby 'control discharges to and from those portions of the MS4 area that are owned or operated by the parties' from the date of execution henceforth, as required by Part II.A.3 of the Permit or as otherwise stated in consideration of the mutual undertakings set forth herein, the sufficiency of which is acknowledged. The parties agree as follows:

TERMS AND CONDITIONS

SECTION I, INTERPRETATION AND INTENT

- 1.01 The "MOA" shall mean this MOA executed by the City and the Entity and shall include these Terms and Conditions, the Attachments described in Section 2 and Section 3 and attached hereto, and any written supplemental agreement or modification entered into between the City and the Entity, in writing, after the date of this MOA.

- 1.02 This MOA constitutes the entire agreement between the parties and supersedes all prior agreements, written or verbal, between the City and Entity pertaining to the Permit. No statements, promises or agreements whatsoever, in writing or verbal, in conflict with the terms of the MOA have been made by the City or the Entity which in any way modify, vary, alter, enlarge or invalidate any of the provisions and obligations herein stated. This MOA may

be renewed, amended and modified only in writing signed by both the City and the Entity.

SECTION II. OBLIGATIONS OF THE CITY AND THE ENTITY

2.01 The City's obligations are set forth in Attachment A, attached hereto and made a part hereof.

2.02 Entity's obligations are set forth in Attachment B, attached hereto and made a part hereof.

SECTION III. AREA OF RESPONSIBILITY

3.01 The City and Entity areas of MS4 responsibility are set forth and illustrated in Attachment C, attached hereto and made a part of hereof.

SECTION IV. TERM

4.01 This MOA shall commence on the date of final signature by both parties, and shall terminate on October 31, 2018, unless earlier terminated in accordance with this MOA. This MOA may be renewed through letter agreement prior to the aforementioned date of termination.

SECTION V. GENERAL PROVISIONS

5.01 Necessary Documentation. The City and Entity certify that each will furnish to each other, if requested, documentation, certification, or permit, or other documentation as required by the laws or rules and regulations of the State of Indiana. The City and Entity further certify that each is now in and will maintain its good standing with such governmental agencies and that it is now and will maintain its individual permit and/or certification, as applicable, in force during the term of this MOA. Failure of the City and/or Entity to comply with this paragraph shall constitute a material breach of this MOA.

5.02 Termination for Cause or Convenience. This MOA may be terminated in whole or in part, in writing, by any party for convenience, provided that non-terminating party is given (1) not less than thirty (30) calendar days written notice (delivered certified mail, return receipt requested) of intent to terminate and (2) an opportunity for consultation with the terminating party prior to termination.

5.03 Notice. Any notice, request or other correspondence required to be sent under this MOA shall be sent to:

DPW:

Ms. Melody Park, P.E., Deputy Director/Chief Engineer
Department of Public Works
City of Indianapolis
1200 South Madison Avenue, Suite 200
Indianapolis, Indiana 46225

Town of Speedway:
Mr Norman C. Berry, Superintendent
Town of Speedway Wastewater Treatment Plant
4251 West Vermont Street
Indianapolis, IN 46222

- 5.04 Disputes. Any and all disputes that may arise between the parties shall be handled in a reasonable and respectful manner. The complaining party shall reduce to writing its complaint. The parties shall within ten (10) business days meet to discuss a joint resolution of the complaint. Should the parties fail to reach an agreement within five (5) business days from the conclusion of their initial meeting, all parties shall agree upon a disinterested third party mediator to determine the dispute's outcome.
- 5.05 Applicable Laws This MOA shall be construed in accordance with the laws of the State of Indiana.
- 5.06 Severability. If any provision of this MOA is held to be invalid, illegal, or unenforceable by a court of competent jurisdiction, the provision shall be stricken, and all other provisions of this MOA which can operate independently of such stricken provisions shall continue in full force and effect

IN WITNESS WHEREOF, the parties hereto have executed this MOA on the dates subscribed below.

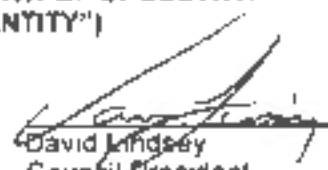
**DEPARTMENT OF PUBLIC WORKS,
CONSOLIDATED CITY OF INDIANAPOLIS
("DPW")**

By: 

Andy Lutz, P.E.
Director

Date: 5/24/15


**TOWN OF SPEEDWAY
("ENTITY")**

By: 

David Lindsey
Council President

Date: 6/3/15

**APPROVED AS TO FORM AND LEGALITY:
OFFICE OF CORPORATION COUNSEL**

By: 
Assistant Corporation Counsel

ATTACHMENT A

The City's Responsibilities

The City agrees to carry out the following tasks in accordance with the agreement set forth and the articles stated herein:

- 1) Establish a point of contact at the DPW to carry out necessary and appropriate coordination with Entity for the purpose of execution of the articles of the MOA.
- 2) Meet no less than one meeting annually with Entity for the purpose of reviewing the articles and implementation of the MOA.
- 3) Schedule and carry-out additional meetings with Entity from time-to-time as deemed necessary to coordinate and accomplish the articles of the MOA.
- 4) Review Spill Prevention and Response programs with Entity and establish notification procedures for identified spill and illicit discharge events that occur adjacent to City/Entity boundary or MS4 discharges to or from the same.
- 5) Coordinate with the Entity to identify and clarify the jurisdictional limits for implementation of the Post-Construction Site Run-off Control component of the Permit, specifically related to storm water drainage systems and pollution reduction goals. Written policy and/or illustrations will be developed by the City in coordination with the Entity and as amended to this agreement to complete the following:
 - a) Clearly define boundaries of authority to administer the Post-Construction Storm water Run-off Control Program; and
 - b) Define individual roles and responsibilities of the City and the Entity.
- 6) Coordinate with the Entity to identify and clarify the jurisdictional limits for implementation of the Construction Site Run-off Control component of the Permit, specifically related to storm water drainage systems and pollution reduction goals. Written policy and/or illustrations will be developed by the City in coordination with the Entity and as amended to this agreement to complete the following:
 - a) Clearly define boundaries of authority to administer and carry-out the Construction Site Storm water Run-off Control Program; and
 - b) Define individual roles and responsibilities of the City and the Entity.
- 7) Review the implementation of the MOA annually with the Entity and make recommendations on application and performance of the MOA or its contents.
- 8) Coordinate with Entity to identify and complete modifications and/or supplements to the MOA as determined needed.

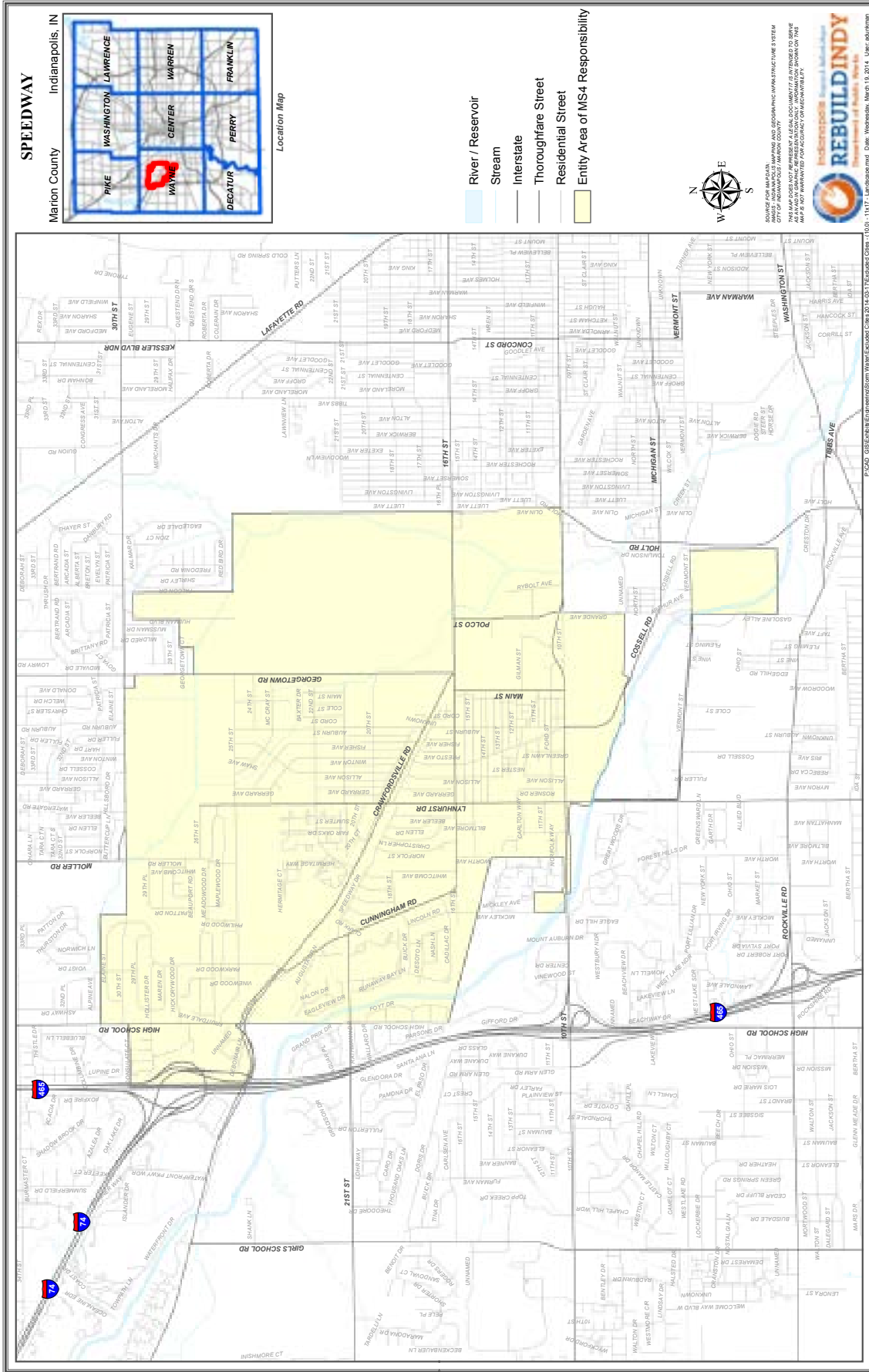
ATTACHMENT B

Entity's Responsibilities

Entity agrees to:

1. Establish a point of contact at the Entity to carry out necessary and appropriate coordination with City for the purpose of execution of the articles of the MOA.
2. Attend no less than one meeting annually with City for the purpose of reviewing the articles and implementation of the MOA.
3. Attend and carry-out additional meetings with City from time-to-time as deemed necessary to coordinate and accomplish the articles of the MOA.
4. Review Spill Prevention and Response programs with City and establish notification procedures for identified spill and illicit discharge events that occur adjacent to Entity/City boundary or storm sewer system that discharges to or from the same.
5. Coordinate with City to identify and clarify the jurisdictional limits for implementation of the Post-Construction Site Run-off Control component of the Permit, specifically related to storm water drainage systems and pollution reduction goals.
6. Coordinate with the City to identify and clarify the jurisdictional limits for implementation of the Construction Site Run-off Control component of the Permit, specifically related to storm water drainage systems and pollution reduction goals.
7. Review the implementation of the MOA annually with the City and participate in recommendations on application and performance of the MOA or its contents.
8. Coordinate with City to identify and complete modifications and/or supplements to the MOA as determined needed.

Attachment C



July 2017

**Memorandum of Agreement between Department of Public Works of the Consolidated City and
Marion County and the Town of Speedway**

Supplemental Document 1
Contacts

Purpose: The purpose of this document is to establish the contacts for the City and Entity in conformance with and for the implementation of the Memorandum of Agreement (MOA) between the City and the Entity. Other contacts may be added in conformance with Section I of the MOA.

Implementation: TBD

<u>Department of Public Works</u>	<u>Town of Speedway</u>
Primary Contact	Primary Contact
Melody Park, P.E., Assistant Director/Chief Engineer	Norman Berry, Superintendent
Melody.park@indy.gov	nberry@speedwayin.gov
317.327.7868	317.714.6936 cell
317 432.2359 cell	
	Mike Davis, Assistant Superintendent
	mdavis@speedwayin.gov
	317.945.3643 cell
Secondary Contact	Secondary Contact
Kathy Allen, Project Manager	Wendell Walters
Kathy.allen@indy.gov	wwalters@speedwayin.gov
317.327.8428	317.557.4366 cell
317.294.3782 cell	
Emergency Contact	Emergency Contact
DPW Dispatch	Speedway Fire Department
317.327.1620	317.246.4300
	911 Emergency

REV 2 JULY 2017

July 2015

**Memorandum of Agreement between Department of Public Works of the Consolidated City and
Marion County and the Town of Speedway**

**Supplemental Document 2
Meetings**

Purpose: The purpose of this document is to establish a coordination meeting(s) schedule for the City and Entity in conformance with and for the implementation of the Memorandum of Agreement (MOA) between the City and the Entity. Additional meetings may be added in conformance with Section I of the MOA.

Implementation: As described in Table 2.1

Table 2.1

Meeting Purpose	Schedule
General Implementation	July - Annually
Spill Response Coordination	July - Annually
Additional	July – Annually or as needed

REV 1 JULY 215

July 2017

**Memorandum of Agreement between Department of Public Works of the Consolidated City and
Marion County and the Town of Speedway**

Supplemental Document 3
Spill Prevention and Response

Purpose: The purpose of this document is to establish review of spill prevention and response programs of the City and the Entity and establish notification procedures in conformance with and for the implementation of the Memorandum of Agreement (MOA) between the City and the Entity. Specific actions may be added in conformance with Section I of the MOA.

Implementation: TBD and as described in Table 3.1

Table 3.1

<u>Department of Public Works</u>	<u>Town of Speedway</u>
Emergency Contact	Emergency Contact
DPW Dispatch	Speedway Fire Department
317.327.1620	317.246.4300
	911 Emergency
Primary Responder	Primary Responder
DPW Dispatch	Norman Berry, Superintendent
317.327.1620	317.714.6936 cell
	Mike Davis, Assistant Superintendent
	317.945.3643 cell
Investigation Contact	Investigation Contact
TBD per event	Norman Berry, Superintendent
	317.714.6936 cell
Indiana Department of Environmental Management Contacts	
IDEM Emergency Response (888) 233-7745	

REV 2 JULY 2017

February 2015

**Memorandum of Agreement between Department of Public Works of the Consolidated City and
Marion County and the Town of Speedway**

Supplemental Document 4

Jurisdictional Limits for Post-Construction and Construction Site Run-off Control Components

Purpose: The purpose of this document is to identify and clarify the jurisdictional limits for implementation of the Post-Construction Site Run-off and Construction Site Run-off Control components of the Permit specifically related to storm water drainage systems and pollution reduction goals. This document defines boundaries of authority to administer the aforementioned components and defines individual roles and responsibilities of the City and the Entity. This document denotes procedures in conformance with and for the implementation of the Memorandum of Agreement (MOA) between the City and the Entity. Additional actions may be added in conformance with Section I of the MOA.

Implementation: Attachment C establishes the MS4 areas of responsibilities. Specific responsibilities are listed below.

Responsibilities:

1. Post-Construction Site Run-off Control:

The City of Indianapolis Department of Public Works does not participate in the implementation of Post-Construction Site Run-off Control best management practices within the Town of Speedway MS4 area of responsibility.

2. Construction Site Run-off Control:

The City of Indianapolis Department of Public Works does not participate in the implementation of Construction Site Run-off Control best management practices within the Town of Speedway MS4 area of responsibility.

REV

February 2015

Memorandum of Agreement between Department of Public Works of the Consolidated City and Marion County and the Town of Speedway

Supplemental Document 5
Additional MS4 Components or Activities

Purpose: The purpose of this document is to establish the terms and implementation of additional MS4 related activities that are determined to be made part of the Memorandum of Agreement (MOA) between the City and the Entity. The items below have been included in conformance with Section I of the MOA.

1. N/A

CERTIFICATION OF COMPLIANCE

WITH NPDES PERMIT NUMBER INS040001

Butler University is designated as an entity covered by the municipal separate storm sewer system permit that has been issued by the Indiana Department of Environmental Management and the City of Indianapolis under the National Pollutant Discharge Elimination System (NPDES). Under the terms of NPDES Permit No. INS040001, and through a Memorandum of Understanding with the City of Indianapolis, Butler University certifies that:

- The University does not perform street sweeping.
- The University's vehicle and equipment wash facility discharges to the sanitary sewer system.
- The University has provided training and information to appropriate staff on storm water pollution prevention.
- The University complies with the City of Indianapolis' permitting procedures.

Certification:

"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 gather and evaluate 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 above statement 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."

Craig Barnhart
Name

10/01/2016
Date

Manager of Environmental Programs
Title

Compliance Schedule For Indianapolis' NPDES Municipal Separate Storm Sewer System Permit

Permit Action Item	Page	Section	Completion Date	Action Item Description	Action Item Completed (Yes/No)	Comments
II.B POLLUTION PREVENTION, OPERATIONS AND MAINTENANCE						
Document maintenance of structural controls	8	II.B.1.a		Structural storm water controls (SSC) are engineered facilities intended to treat storm water and / or mitigate the increased effects of storm water runoff peak rate, volume, and velocity due to urbanization. Your site may or may not contain structural storm water controls. If your site does contain SSCs you are required to map their location.		
Inventory structural runoff controls			A	If your campus contains SSCs you should continue to map their locations.	Yes	Facilities maintains maps of SSCs
Document maintenance (if applicable)			D	If your campus contains SSCs you must document your maintenance program(s).	Yes	Periodic cleaning and/or sediment removal of SSC's as needed.
SOP inspection and Cleaning of University Owned Parking Lots	9	II.B.1.d		University owned parking lots exposed to storm water shall be inspected and kept clear of debris and excessive oil buildup on an as-needed basis. The parking lot SOP created by DPW should be used to determine a schedule for implementation and the procedures to follow for implementation. In each annual report, a summary of the parking lot inspections will be provided, which indicates the number of inspection, and an estimate of the trash and debris material removed.		
Develop implementation Schedule for Parking Lot SOP			A, D	Continue SOP implementation and report annually on number of parking lot inspections, cleanings and estimated amount of trash and debris removed.	Yes	201516: 1,120 cubic yards of debris collected, 11,770 gallons of trash.
Drain marking program	9	II.B.2.a		The storm drain marking program is designed to inform citizens about the ecological hazards of dumping household chemicals into storm drains. This requirement involves painting a stencil near storm drains to remind people that everything that goes into a storm drain flows directly, untreated, into a nearby stream, and distributing a brochure to citizens who attend school, work or live in the area where drains have been marked. The brochure explains how to properly dispose of materials that pose a hazard to fish and water quality.		
Continue university drain marking plan			A, D	Continue the Drain Marking Plan at the university until all university owned inlets are marked. Keep appropriate records.	Yes	Bulter continues to use the city's plan on drain marking as a guide.
Street Sweeping Program	9	II.B.2.c		This program keeps floatables and other solid material from accumulating on the street pavement.		
Prioritize streets being swept			A	Use historical data to prioritize streets that have the greatest potential for trash collection.	N/A	
Document amount of trash/grit collected			D, A	Continue street sweeping program and document the amount of material collected and disposal method.	N/A	Per C.C. mechanical street sweeping not conducted.
Winter weather salt use	10	II.B.2.d		Brine can impact plant life and have adverse effects on other environmentally sensitive organisms. This program limits this impact to the maximum extent practicable.		
Continue salt application guidelines			A	Continue the existing tracking the estimated amount of salt, sand and calcium chloride compounds applied to roads, walks and parking lots.	Yes	On snowfall >1" brine/salt is first priority; salt and de-ice as needed for safety.
Document amount of salt used each winter season			A	The amount of deicing materials shall be minimized while not adversely impacting public safety.	Yes	201516: 4,410 pounds of salt and de-icer applied both BU & contractor
Roadside erosion and litter control	10	II.B.2.e & f		The university is responsible for retaining all records and making the information available to DPW on an annual basis.		
Education program for staff & contractors			A	Erosion is the single largest polluter of storm water in the United States. Being aware of and repairing erosion along roadways and on properties substantially helps reduce siltation in waterways. Litter contains many floatables which can be difficult to remove from storm water as they tend to travel along the waterway easily.		
Document amount of litter collected and disposed of			D	University staff and contractors shall attend DPW provided training on litter and erosion along roadways and mowed areas.	Yes	BU staff have attended roadside erosion training at DPW.
Document erosion areas and generate work order for repair			D	Continue to track the amount of trash /litter removed and report annually.	Yes	Roadside litter collected on same days as parking lots.
			D	Continue to track the repair of the eroded areas and report annually.	N/A	

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NPDES M54 Requirements
for Universities / Colleges
Permit No INSM0001

Compliance Schedule For Indianapolis' NPDES Municipal Separate Storm Sewer System Permit

Permit Action Item	Page	Section	Completion Date	Action Item Description	Action Item Completed (Yes/No)	Comments
SOP inspection and cleaning of University owned vehicle maintenance garages	10	II.B.3.b		University owned maintenance facilities and vehicle yard areas exposed to storm water shall be inspected and kept clean of debris and material. The University shall develop and implement a SOP for the inspection and cleaning of these facilities. The SOP shall be available for implementation and the procedures to follow for implementation. In each annual report after the second year of permit coverage, a summary of the parking lot inspections will be provided, which indicates the number of inspections, and an estimate of the trash and debris material removed.		
Obtain completed Vehicle Maintenance SOP from DPW				DPW to provide universities with SOP	Yes	
Develop implementation schedule for Vehicle Maintenance SOP				Develop implementation schedule consistent with the SOP	Yes	
Document inspections and cleanings of vehicle maintenance facilities through schedule and checklist provided in the SOP				Document through checklist provided in the SOP	Yes	201516: 35 cubic yards of trash collected in maintenance facility lot.
Provide documentation of reporting of SOP in the Annual Report and submit to DPW				Provide a write up in the Annual Report of compliance with SOP	Yes	Facilities and Grounds employees have implemented as written.
Vehicle and equipment wash area study / modifications	10	II.B.3.c		This management measure is intended to eliminate non-point source pollutant loads generated by the washing of vehicles and equipment, such as lawn mowers and generators, in areas that drain to storm drainage systems ponds, or streams. These discharges would be considered illicit discharges.		
Correct illicit discharges				Ensure vehicle and equipment wash areas wash waters are contained on-site or discharge to a sanitary sewer. Document corrective actions (as applicable).	Yes	Vehicles/equipment strictly washed at Service Center/discharge to sanitary.
Flood Control Projects	10-11	II.B.4		Evaluate all known existing storm water treatment control structures in the MS4 area owned or operated by the University for the benefits and technical feasibility of making improvements, modifying maintenance or retrofitting for pollutant removal. Result of the evaluation shall be submitted to the department for approval with the annual report for the third year of the permitting term.		
Evaluate all storm water treatment control structures in University property for improvements, maintenance or retrofitting.				This requirement involves 1) determining if the existing treatment control structures at each University (i.e. detention ponds) meet the existing city water quality standards; and 2) if it does not, determine the feasibility and practicality of retrofitting or upgrading the existing treatment control structure.	Yes	AWT conducted inflow/outflow testing during rain event on 10/24/08.
Submit results and implementation schedule in Annual Report				Provide a write up in the Annual Report of compliance if applicable to University		
Pesticide and fertilizer applications	11	II.B.5		Due to the fact that most PHT & Fs are applied directly to areas that generate runoff there is a potential for substantial impact to the receiving waters. The university must develop a plan that will minimize application rates or certify that the chemicals are not in use.		
Develop a pesticide and fertilizer application program plan.				Continue a chemical application program plan that requires that pesticides, herbicides and fertilizers be used according to 1) State Chemist recommendations; and 2) label directions.	Yes	Designated applicator has state certification.
Staff education and training program	11	II.B.6		Staff that perform job functions that can potentially result in pollution of storm water runoff must be provided with general and targeted education and awareness training on storm water pollution and storm water pollution prevention		
Develop pollution prevention training program				Develop or acquire a pollution prevention training program	Yes	General awareness & specific (e.g. regulated UST release prevention)
Schedule training times and locations				Schedule and provide the training to staff	Yes	
Certify completion of training program				Prepare and sign certification for inclusion in the annual reports	Yes	

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Compliance Schedule For Indianapolis: NPDES Municipal Separate Storm Sewer System Permit

Permit Action Item	Page	Section	Completion Date	Action Item Description	Action Item Completed (Yes/No)	Comments
II.C POST CONSTRUCTION STORM WATER RUN-OFF CONTROL IN NEW DEVELOPMENT AND REDEVELOPMENT						
Continuing permit compliance	12	II.C.1		The City of Indianapolis has adopted a document entitled "Indianapolis Design and Construction Manual, Chapters 100-700 & Chapter 561 of the Indianapolis Municipal Code. The university must comply with these documents and other applicable codes, etc.		
				University staff shall attend DPW provided training regarding changes to water quality management documents.	Yes	Butler has assigned designated employee to be present for all updates.
II.D ILLICIT DISCHARGES AND IMPROPER DISPOSAL						
Inventory outfalls and MS4 (Municipal Separate Storm Sewer System)	15	II.D.2.b		Facility maintenance, vehicle maintenance, equipment maintenance and other activities generate pollutant laden runoff that can enter the storm water system on your property and pose a pollution danger. Due to this fact it is important to know the location of and map your storm water facilities including their outfalls.		
Provide mapping of University-owned drainage system			A	All university owned storm water conveyance systems (12 inch and larger) including inlets, catch basins and manholes must be located. Update maps as applicable.	Yes	Facilities maintains all updated and relevant mapping.
Summarize used oil and toxics programs	15	II.D.5		Proper vehicle and equipment maintained, separates used fluids, such as oil, that must be disposed of properly. University maintained records must show if these maintenance procedures are performed on-site or at off-site facilities.		
Summarize used oil and toxics programs			N/A	Describe the disposal process that the university utilizes for waste oil or other used fluids.	Yes	Used oil collected via service agreement; hazardous waste shipped offsite to TSC
II.F CONSTRUCTION SITE RUN-OFF CONTROL						
Compliance with Rule 5	19	II.F.1		The Indiana Department of Environmental Management has adopted Rule 5 which affects construction sites one acre in size and larger. An NOI requirement is included in Rule 5. The City of Indianapolis has adopted Chapter 600 entitled "Erosion Control" which adopts Rule 5 by reference. The university and its contractors must comply with both Rule 5 and Chapter 600.		
			A	The University or its contractor must submit NOIs to IDEM for all projects that disturb at least one acre of land.	Yes	Conducted by Cripe on Butler's behalf
Training program for construction site inspectors	20	II.F.7		University may attend DPW provided trainings for construction site inspectors and plan review staff.		
Construction site inspection program	20	II.F.8		Construction site inspector training is required. The City of Indianapolis often offers inspection classes. Utilize the Indianapolis DCE inspectors where possible.	Yes	Butler designate has been in attendance at SWPPP reviewers training.
Continue a self-inspection program for construction sites			A	The university will operate a construction site self-inspection program for compliance with the terms of NPDES permit No. INSD40001 Part II, A, I.e., and Section 802.8 of Chapter 600 of the City of Indianapolis. Department of Public Works (DPW) Storm water Design and Construction Specifications Manual, using its own trained inspectors. The City will continue to operate its existing program to implement Chapter 600 which provides specific requirements for certain types of new construction as detailed in Chapter 561 of the Indianapolis City Code.	Yes	MS4 5/19/15 notes contractors requirements for Rule 5 project oversight.
Provide a self-inspection monitoring program			A	Enter into a written agreement with either the City or the Marion County Soil and Water Conservation District to have the self-inspection program monitored.	N/A	

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Compliance Schedule For Indianapolis' NPDES Municipal Separate Storm Sewer System Permit

Permit Action Item	Page	Section	Completion Date	Action Item Description	Action Item Completed (Yes/No)	Comments
II.G PUBLIC EDUCATION AND OUTREACH						
Encourage public reporting of problems	22	II.G.1		The university must publicize the appropriate phone numbers and other means of contact when storm water runoff pollution problems are identified.		
Develop fliers/signs with number to report/call				The university will develop fliers and/or posters that explain how to identify and report illegal dumping or pollution if observed.	Yes	Submits annually to campus as campus-wide email.
Educate students/staff about NPS pollution	22-23	II.G.4 & 6		Provide information on storm water pollution prevention, including proper disposal of items such as used fluids, paper, and other materials to students, staff, and contract employees. Use Indianapolis fliers where possible.		
Develop distribute materials/signs				Develop and distribute information on proper disposal and pollution prevention.	Yes	
II.B REPORTING REQUIREMENTS						
Provide information to DPW for annual reports	32-33	IV.A.3		The City as required to submit an annual report to IDEM that details progress made on permit compliance. The university must pull together the data into a report and submit it to DPW by October 31.		
Begin assembly of information for annual report				Begin pulling information together before October 1 for delivery to DPW by October 31.	Yes	
Complete checklist and submit to DPW by October 31				The data/information and completed checklist information then be submitted to DPW by October 31.	Yes	Meet this year's deadline of December 9th.

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NPDES MSA Requirements
for Universities / Colleges
Permit No INSM0001

CERTIFICATION OF COMPLIANCE
WITH NPDES PERMIT NUMBER INS040001

Butler University is designated as an entity covered by the municipal separate storm sewer system permit that has been issued by the Indiana Department of Environmental Management and the City of Indianapolis under the National Pollutant Discharge Elimination System (NPDES). Under the terms of NPDES Permit No. INS040001, and through a Memorandum of Understanding with the City of Indianapolis, Butler University certifies that:

- The University does not perform street sweeping.
- The University’s vehicle and equipment wash facility discharges to the sanitary sewer system.
- The University has provided training and information to appropriate staff on storm water pollution prevention.
- The University complies with the City of Indianapolis’ permitting procedures.

Certification:

“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 gather and evaluate 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 above statement 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.”

Craig Barnhart
Name

11/29/2017
Date

Manager of Environmental Programs
Title

Compliance Schedule For Indianapolis' NPDES Municipal Separate Storm Sewer System Permit

Permit Action Item	Page	Section	Completion Date	Action Item Description	Action Item Completed (Yes/No)	Comments
II.B POLLUTION PREVENTION, OPERATIONS AND MAINTENANCE						
Document maintenance of structural controls	8	II.B.1.a		Structural storm water controls (SSC) are engineered facilities intended to treat storm water and / or mitigate the increased effects of storm water runoff peak rate, volume, and velocity due to urbanization. Your site may or may not contain structural storm water controls. If your site does contain SSCs you are required to map their location.		
Inventory structural runoff controls			A	If your campus contains SSCs you should continue to map their locations.	Yes	Facilities maintains maps of SSC's
Document maintenance (if applicable)			D	If your campus contains SSCs you must document your maintenance program(s).	Yes	Periodic cleaning and/or sediment removal of SSC's as needed.
SOP inspection and Cleaning of University Owned Parking Lots	9	II.B.1.d		University owned parking lots exposed to storm water shall be inspected and kept clear of debris and excessive oil buildup on an as-needed basis. The parking lot SOP created by DPW should be used to determine a schedule for implementation and the procedures to follow for implementation. In each annual report, a summary of the parking lot inspections will be provided, which indicates the number of inspection, and an estimate of the trash and debris material removed.		
Develop implementation Schedule for Parking Lot SOP			A, D	Continue SOP implementation and report annually on number of parking lot inspections, cleanings and estimated amount of trash and debris removed.	Yes	15/16&16/17: 2,330 cubic yards of debris collected, 23,070 gallons of trash.
Drain marking program	9	II.B.2.a		The storm drain marking program is designed to inform citizens about the ecological hazards of dumping household chemicals into storm drains. This requirement involves painting a stencil near storm drains to remind people that everything that goes into a storm drain flows directly, untreated, into a nearby stream, and distributing a brochure to citizens who attend school, work or live in the area where drains have been marked. The brochure explains how to properly dispose of materials that pose a hazard to fish and water quality.		
Continue university drain marking plan			A, D	Continue the Drain Marking Plan at the university until all university owned inlets are marked. Keep appropriate records.	Yes	Bulter continues to use the city's plan on drain marking as a guide.
Street Sweeping Program	9	II.B.2.c		This program keeps floatables and other solid material from accumulating on the street pavement.		
Prioritize streets being swept			A	Use historical data to prioritize streets that have the greatest potential for trash collection.	N/A	
Document amount of trash/grit collected			D, A	Continue street sweeping program and document the amount of material collected and disposal method.	N/A	
Winter weather salt use	10	II.B.2.d		Brine can impact plant life and have adverse effects on other environmentally sensitive organisms. This program limits this impact to the maximum extent practicable.		
Continue salt application guidelines			A	Continue the existing tracking the estimated amount of salt, sand and calcium chloride compounds applied to roads, walks and parking lots.	Yes	On snowfall >1" brine will be applied in first priority salt and de-ice as needed for safety.
Document amount of salt used each winter season			A	The amount of deicing materials shall be minimized while not adversely impacting public safety.	Yes	2-year total (15/16 and 16/17) of 616,930 pounds of salt and de-icer appli
Roadside erosion and litter control	10	II.B.2.e & f		The university is responsible for retaining all records and making the information available to DPW on an annual basis.		
Education program for staff & contractors			A	Erosion is the single largest polluter of storm water in the United States. Being aware of and repairing erosion along roadways and on properties substantially helps reduce siltation in waterways. Litter contains many floatables which can be difficult to remove from storm water as they tend to travel along the waterway easily.	Yes	BU staff have attended roadside erosion training at DPW.
Document amount of litter collected and disposed of			D	Continue to track the amount of trash /litter removed and report annually.	Yes	Roadside litter collected on same days as parking lots.
Document erosion areas and generate work order for repair			D	Continue to track the repair of the eroded areas and report annually.	N/A	

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NPDES M54 Requirements
for Universities / Colleges
Permit No INSM0001

Compliance Schedule For Indianapolis' NPDES Municipal Separate Storm Sewer System Permit

Permit Action Item	Page	Section	Completion Date	Action Item Description	Action Item Completed (Yes/No)	Comments
SOP inspection and cleaning of University owned vehicle maintenance garages	10	II.B.3.b		University owned maintenance facilities and vehicle yard areas exposed to storm water shall be inspected and kept clear of debris and excessive oil buildup on an as-needed basis. The maintenance facility SOP created by DPW should be used to determine a schedule for implementation and the procedures to follow for implementation. In each annual report after the second year of permit coverage, a summary of the parking lot inspections will be provided, which indicates the number of inspection, and an estimate of the trash and debris material removed.		
Obtain completed Vehicle Maintenance SOP from DPW				DPW to provide universities with SOP	Yes	
Develop implementation schedule for Vehicle Maintenance SOP				Develop implementation schedule consistent with the SOP	Yes	
Document inspections and cleanings of vehicle maintenance facilities through schedule and checklists provided in the SOP				Document through checklist provided in the SOP	Yes	Two year total: 73 cubic yards of trash collected in maintenance facility
Provide documentation of reporting of SOP in the Annual Report and submit to DPW				Provide a write up in the Annual Report of compliance with SOP	Yes	Facilities and Grounds employees have implemented as written.
Vehicle and equipment wash area study / modifications	10	II.B.3.c		This management measure is intended to eliminate non-point source pollutant loads generated by the washing of vehicles and equipment, such as lawn mowers and generators, in areas that drain to storm drainage systems ponds, or streams. These discharges would be considered illicit discharges.		
Correct illicit discharges				Ensure vehicle and equipment wash areas wash waters are contained on-site or discharge to a sanitary sewer. Document corrective actions (as applicable).	Yes	Vehicles/equipment strictly washed at Service Center-discharge to sanitary.
Flood Control Projects	10-11	II.B.4		Evaluate all known existing storm water treatment control structures in the MS4 area owned or operated by the University for the benefits and technical and economical feasibility of making improvements, modifying maintenance or retro-fitting for pollutant removal. Result of the evaluation, along with an implementation schedule, shall be submitted to the department for approval with the annual report for the third year of the permitting term.		
Evaluate all storm water treatment control structures in University property for improvements, maintenance or retrofitting				This requirement involves 1) determining if the existing treatment control structures at each University (i.e. retention ponds) meet the existing city water quality standards; and 2) if it does not, determine the feasibility and practicality of retrofitting or upgrading the existing treatment control structure.	Yes	AWT conducted inflow/overflow testing during rain event on 10/24/08.
Submit results and implementation schedule in Annual Report				Provide a write up in the Annual Report of compliance if applicable to University		
Pesticide and fertilizer applications	11	II.B.5		Due to the fact that most PH & Fs are applied directly to areas that generate runoff there is a potential for substantial impact to the receiving waters. The university must develop a plan that will minimize application rates or certify that the chemicals are not in use.		
Develop a pesticide and fertilizer application program plan.				Continue a chemical application program plan that requires that pesticides, herbicides and fertilizers be used according to 1) State Chemist recommendations; and 2) local directors.	Yes	Designated applicator has state certification.
Staff education and training program	11	II.B.6		Staff that perform job functions that can potentially result in pollution of storm water runoff must be provided with general and targeted education and awareness training on storm water pollution and storm water pollution prevention		
Develop pollution prevention training program				Develop or acquire a pollution prevention training program	Yes	General awareness & specific (e.g. regulated UST releases prevention)
Schedule training times and locations				Schedule and provide the training to staff	Yes	NPDES Good Housekeeping Guidelines distributed throughout and posted
Certify completion of training program				Prepare and sign certification for inclusion in the annual reports	Yes	

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NPDES MS4 Requirements
for Universities / Colleges
Permit No INSM40001

Compliance Schedule For Indianapolis' NPDES Municipal Separate Storm Sewer System Permit

Permit Action Item	Page	Section	Completion Date	Action Item Description	Action Item Completed (Yes/No)	Comments
II.C. POST CONSTRUCTION STORM WATER RUN-OFF CONTROL IN NEW DEVELOPMENT AND REDEVELOPMENT						
Continuing permit compliance	12	II.C.1		The City of Indianapolis has adopted a document entitled "Indianapolis Design and Construction Manual, Chapters 100-700 & Chapter 561 of the Indianapolis Municipal Code. The university must comply with these documents and other applicable codes, etc.		
Training of university staff				University staff shall attend DPW provided training regarding changes to water quality management documents.	Yes	Butler has assigned designated employee to be present for DPW training.
II.D. ILLICIT DISCHARGES AND IMPROPER DISPOSAL						
Inventory outfalls and MS4 (Municipal Separate Storm Sewer System)	15	II.D.2.b		Facility maintenance, vehicle maintenance, equipment maintenance and other activities generate pollutant laden runoff that can enter the storm water system on your property and pose a pollution danger. Due to this fact it is important to know the location of and map your storm water facilities including their outfalls.		
Provide mapping of University-owned drainage system				All university owned storm water conveyance systems (12 inch and larger) including inlets, catch basins and manholes must be located. Update maps as applicable.	Yes	Facilities maintains all updated and relevant mapping.
Summarize used oil and toxics programs	15	II.D.5		Proper vehicle and equipment maintained generates used fluids, such as oil, that must be disposed of properly. University maintained records must show if these maintenance procedures are performed on-site or at off-site facilities.		
Summarize used oil and toxics programs				Describe the disposal process that the university utilizes for waste oil or other used fluids.	Yes	Used oil collected via service agreement, hazardous waste shipped offsite to TSI.
II.F. CONSTRUCTION SITE RUN-OFF CONTROL						
Compliance with Rule 5	19	II.F.1		The Indiana Department of Environmental Management has adopted Rule 5 which affects construction sites one acre in size and larger. An NOI requirement is included in Rule 5. The City of Indianapolis has adopted Chapter 600 entitled "Erosion Control" which adopts Rule 5 by reference. The university and its contractors must comply with both Rule 5 and Chapter 600.		
Submit NOIs to DCE				The University or its contractor must submit NOIs to IDEM for all projects that disturb at least one acre of land.	Yes	Conducted by Cripe on Butler's behalf
Training program for construction site inspectors	20	II.F.7		University may attend DPW provided trainings for construction site inspectors and plan review staff.	Yes	BU hosted onsite Universities NPDES Training-Construction on 6/29/17.
Construction site inspection program	20	II.F.8		Construction site inspector training is required. The City of Indianapolis often offers inspection classes. Utilize the Indianapolis DCE inspectors where possible.	Yes	Butler designate has been in attendance at SWPPP reviewers training.
Continue a self-inspection program for construction sites			A	The university will operate a construction site self-inspection program for compliance with the terms of NPDES permit No. INSD40001, Part II, A, I.e., and Section 602.8 of Chapter 600 of the City of Indianapolis, Department of Public Works (DPW) Storm water Design and Construction Specifications Manual, using its own trained inspectors. The City will continue to operate its existing program to implement Chapter 600 which provides specific requirements for certain types of new construction as detailed in Chapter 561 of the Indianapolis City Code.	Yes	MS4 5/19/15 notes contractors requirements for Rule 5 project oversight.
Provide a self-inspection monitoring program			A	Enter into a written agreement with either the City or the Marion County Soil and Water Conservation District to have the self-inspection program monitored.	N/A	

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NPDES MS4 Requirements for Universities / Colleges Permit No INSD40001

Compliance Schedule For Indianapolis' NPDES Municipal Separate Storm Sewer System Permit

Permit Action Item	Page	Section	Completion Date	Action Item Description	Action Item Completed (Yes/No)	Comments
II.G PUBLIC EDUCATION AND OUTREACH						
Encourage public reporting of problems	22	II.G.1		The university must publicize the appropriate phone numbers and other means of contact when storm water runoff pollution problems are identified.		
Develop fliers/signs with number to report/call				The university will develop fliers and/or posters that explain how to identify and report illegal dumping or pollution if observed.	Yes	Campus-wide email with contract instructions for reporting upon observat
Educate students/staff about NPS pollution	22-23	II.G.4 & 6		Provide information on storm water pollution prevention, including proper disposal of items such as used fluids, paper, and other materials to students, staff, and contract employees. Use Indianapolis fliers where possible.		
Develop distribute materials/signs				Develop and distribute information on proper disposal and pollution prevention.	Yes	City fliers, such as concrete washout/miel, herbicide appl, silt fence, etc.
III.B REPORTING REQUIREMENTS						
Provide information to DPW for annual reports	32-33	IV.A.3		The City as required to submit an annual report to IDEM that details progress made on permit compliance. The university must pull together the data into a report and submit it to DPW by October 31.		
Begin assembly of information for annual report				Begin pulling information together before October 1 for delivery to DPW by October 31.	Yes	
Complete checklist and submit to DPW by October 31				The data/information and completed checklist information then be submitted to DPW by October 31.	Yes	Meet the biennial deadline of 11/30/17.

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NPDES MSA Requirements
for Universities / Colleges
Permit No INSM4001



Chemical Spill Reporting

CONTENTS

POLICY # IN-FIAD.EHS.01

Scope
Policy Statement
Reason for Policy
Exceptions/Exclusions
Procedures
Definitions
Sanctions

ADDITIONAL DETAILS

Contact Information
Forms
Web Addresses
Related Information
Document Change Log
Communications

Effective: 2/1/1997
Last Updated: February 1997

Responsible IUPUI Campus Division:
Finance and Administration

Responsible IUPUI Campus Office:
Environmental Health and Safety

Responsible IUPUI Campus Administrator:
Rich Strong, Director, EHS

Policy Contact:
TBD

The IUPUI administration formally approves official campus administrative policies through an established process, publishes those policies in a consistent format, and maintains official campus policies in a central, readily accessible policy website. Responsible administrators (as defined below) and their offices, that are engaged in developing and maintaining campus-wide administrative policies must comply with the procedures in this policy for drafting, approving, revising, distributing, maintaining, and withdrawing campus-wide policies. Academic policies are available on the [Faculty Council website](#).

This policy is in accordance with University Policy [UA-08, Establishing University Polices](#).

Scope

This policy applies to all staff, faculty, students and guests of the University community that purchase, transport, store, utilize or otherwise handle chemical products. The policy applies to virgin products, intermediates and waste products. The policy applies to all chemicals whether they are liquid, solid or gaseous at room temperatures.

The policy applies to stock chemicals normally associated with laboratory environments and to products related to the maintenance of University buildings, grounds, property, equipment and supplies.

Policy Statement

The prompt reporting of chemical spills to proper University authorities is an essential element in the protection of the health and safety of campus personnel, students, visitors, and patients. Prompt reporting is also essential in providing for the protection of the community environment. In addition, the University must comply with local, state and federal spill reporting requirements.

Reason for Policy

Spill residues often are classified as hazardous waste requiring proper management and disposal. Spills that have gone unreported for extended periods of time have resulted in the unnecessary exposure of individuals outside the immediate spill area and have resulted in significant environmental contamination.

These include but are not limited to:

- Bacteriocidal or sanitizing solutions
- Concrete & asphalt sealants
- Degreasers
- Floor maintenance products
- Fuel
- Heating & air-conditioning treatment products
- Lubrication oils
- Paints and related paint products (solvents, thinners and strippers)
- Pesticide or herbicide products
- Water treatment products

Exceptions/Exclusions

The following spills are exempted from the reporting requirements provided that all of the following conditions are met:

1. Personnel directly involved in the spill have immediate access to the Hazardous Materials Information System (HMIS) rating for the chemical and the chemical has a rating of 0 or 1 for health, fire and reactivity.
2. The amount spilled is less than one (1) pint (500 milliliters), if liquid, or one (1) pound (500 grams), if solid, unless it is lubricating oil or latex paint, then the amount spilled may not exceed 1 gallon (4 liters).

It is the responsibility of the spiller to ensure that spills involving small quantities of chemicals are cleaned up immediately, stored and disposed of properly. Regularly occurring leaks or spills are not exempted from the reporting requirements.

3. The material does not possess a noxious, nauseating or otherwise irritating odor or property.
4. The released material is contained on an impervious surface and has not and is not immediately threatening to contaminate soil, groundwater or surface water.

Procedures

The most senior staff member present at the time of the spill is responsible for ensuring that appropriate procedures listed in the “IUPUI Staff and Faculty Emergency Procedures Handbook” are implemented and that the spill is reported to the IUPUI Public Safety Dispatch Center at 274-7911. The caller is to provide the Dispatch Center with the building, floor, room number and, if possible, the name and approximate quantity of material involved.

Representatives from Fire Protection Services or Environmental Health and Safety will respond to evaluate the release and determine the best course-of-action for the containment and cleanup of the spill.

All University departments are responsible for ensuring their staff are adequately trained to comply with provision of the policy.

Definitions

Not provided - will be updated during review process

Sanctions

The Department of Environmental Health and Safety may, at its discretion, refer costs incurred as a result of an improperly reported spill back to the department directly causing the spill.

In the event the University is cited and fined by federal, state or local regulatory agencies for actions related to an improperly reported spill, the department(s) involved in the citation may be accountable for payment of the issued fine.

Any person affected by any such cost or fine assessment may appeal the assessment provided that a written request for such a review is submitted to the current Chairperson of the IUPUI Environmental Safety Committee within thirty (30) days of issuance of the assessment.

The Department of Environmental Health and Safety will provide a written, itemized assessment of the incurred costs to the responsible department or party(ies) and a copy of the Environmental Safety Committee Appeals Procedures.

All appeals will be acted upon and reviewed in accordance with the established IUPUI Environmental Safety Committee appeals review procedures.

Contact Information

<i>Subject</i>	<i>Contact</i>	<i>Phone</i>	<i>Email</i>

(This section may be modified to include responsibilities if necessary.)

Forms

Not provided - will be updated during review process

Web Addresses

Not provided - will be updated during review process

Related Information

Not provided - will be updated during review process

Document Change Log

Include information about previous policy versions or whether this policy replaces an existing policy.

Date	Contact	Email	Status
2/1997			Policy approved – R. Martin
2/25/14	Kati Reeves	kreeves7@iupui.edu	Converted policy to template

Communications

Specify population to receive communications and desired communication methods.

	✓ the desired populations & communication methods
Students	
Staff	
Faculty	
Jag News	
Faculty Council	
Staff Council	
IUPUI Facebook	
IUPUI Twitter	
Housing	



Pest Management Policy

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POLICY # IN-FIAD.SUS.03

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Policy Statement
Reason for Policy
Exceptions
Procedures
Definitions
Sanctions

ADDITIONAL DETAILS

Contact Information
Forms
Web Addresses
Related Information
Document Change Log
Communications

Effective: unknown
Last Updated:

Responsible IUPUI Campus Division:
Finance and Administration

Responsible IUPUI Campus Office:
Office of Sustainability

Responsible IUPUI Campus Administrator:
Colleen McCormick, Director, Office of Sustainability

Policy Contact:
Colleen McCormick

The IUPUI administration formally approves official campus administrative policies through an established process, publishes those policies in a consistent format, and maintains official campus policies in a central, readily accessible policy website. Responsible administrators (as defined below) and their offices, that are engaged in developing and maintaining campus-wide administrative policies must comply with the procedures in this policy for drafting, approving, revising, distributing, maintaining, and withdrawing campus-wide policies. Academic policies are available on the [Faculty Council website](#).

This policy is in accordance with University Policy [UA-08, Establishing University Polices](#).

Scope

This policy applies to all staff, faculty, students and contractors of the University community. This includes all deliverers of goods and services to IUPUI.

Policy Statement

It is the policy of IUPUI that Integrated Pest Management (IPM) procedures will be utilized in order to control structural and landscape pests in a safe, efficient, and effective manner within the buildings and on the grounds of campus. Every effort should be made for minimizing pesticide application/exposure to ensure the safety and welfare of students, faculty, staff, and visitors.

Reason for Policy

In an effort to develop a sustainable campus, IUPUI is committed to reducing the campus' impact on the environment. The utilization of an Integrated Pest Management (IPM) program will reduce pesticide exposures and potential health risks to students, faculty, staff, and visitors. In addition, utilizing an IPM strategy can be more cost-efficient than traditional pest control options.

Exceptions

Research or education that requires the use of pesticides, i.e. Department of Biology, is exempt from the licensing process with the Indiana State Chemist Office (ISC) unless they work with Restricted Use pesticides. If these pesticides are being researched, the department will have to be properly licensed by the ISC.

Procedures

IUPUI pest control programs will follow the guidelines of Integrated Pest Management.

Prior to the application of any pesticide, the building space or exterior area is to be inspected. During these walk-around inspections, pest management applicators will note conditions (i.e., food or food waste left uncontainerized), exterior building envelope openings, and anything else that could be contributing to a pest infestation or pest control problem. These conditions will be documented and reported to Campus Facility Services personnel for corrective action.

When it is determined that a pesticide may need to be used in order to manage pests, the least hazardous material will be chosen. Additionally, prior to treatment, the plan will be shared with Campus Facility Services and Environmental Health and Safety personnel for approval to proceed with the application.

The purchase, application, storage, disposal, and documentation of all activities related to pesticide use for interior and exterior structural insect and pest control, and for insect and pest control in the campus landscape, will be managed by Campus Facility Services personnel.

Contracted and/or in-house applicators that apply Restricted Use Pesticides shall be licensed by the Indiana State Chemist Office (ISC). These licenses include, but are not limited to, the following categories as regulated by the ISC:

Interior Building Applications: 7A-Structural Pesticide

Exterior Landscape Application: 3A-Ornamental Pesticide; 3B-Turf Pesticide

Campus Facility Services personnel involved in the oversight of pesticide use will actively acquire and maintain their knowledge of Integrated Pest Management (IPM) and the importance of using IPM methods as it pertains to human and environmental health. Additionally, they will diligently seek “green” pest control methods and plant materials that resist insect and disease problems to reduce the need for pesticide use. They will also provide oversight of applicators and monitor that contract requirements are being met.

Application records will be maintained by Campus Facility Services personnel. The application records will be supplied to Environmental Health and Safety upon request. This information includes:

- Pesticide used
- Target of application
- Formulation
- Amount of finished spray applied
- Date of each application
- Name of person applying pesticide

Definitions

Integrated Pest Management (IPM): IPM is an effective and environmentally sensitive approach to pest management that relies on a combination of common sense practices. IPM programs use current, comprehensive information on the life cycles of pests and their interactions with the environment. This information, in combination with available pest control methods, is used to manage pest damage by the most economical means, and with the least possible hazard to people, property, and the environment. IPM programs take advantage of all pest management options possible including, but not limited to, the judicious use of pesticides.

Pests: For the purpose of this policy, pests are populations of living organisms (animals, plants, or microorganisms) that cause damage or interfere with the use of IUPUI facilities and grounds for human purposes. Strategies for managing pest populations will be influenced by the pest species and whether that species poses a threat to people, property, or the environment.

Sanctions

Instances of contractor or repeated noncompliance can be reported to Campus Facility Services by calling 278-1900 or to Environmental Health and Safety by calling 274-2005. Instances of repeated noncompliance by a contractor of the University may result in the loss of future privileges of conducting business with the University.

Instances of repeated noncompliance by an employee of the University are to be handled as a departmental disciplinary concern under the appropriate provisions of the University's personnel policies.

Instances that are infractions of the regulations set forth by the Indiana State Chemist Office will be reported to Environmental Health and Safety by calling 274-2005.

Contact Information

<i>Subject</i>	<i>Contact</i>	<i>Phone</i>	<i>Email</i>

(This section may be modified to include responsibilities if necessary.)

Forms

Not provided - will be updated during review process.

Web Addresses

Not provided - will be updated during review process.

Related Information

Not provided - will be updated during review process.

Document Change Log

Include information about previous policy versions or whether this policy replaces an existing policy.

<i>Date</i>	<i>Contact</i>	<i>Email</i>	<i>Status</i>
			First draft
2/2014	Kati Reeves	kreeves7@iupui.edu	Converted to policy template

Communications

Specify population to receive communications and desired communication methods.

	✓ the desired populations & communication methods
Students	
Staff	
Faculty	
Jag News	
Faculty Council	
Staff Council	
IUPUI Facebook	

IUPUI Twitter	
Housing	

**MEMORANDUM OF UNDERSTANDING
BETWEEN
INDIANA UNIVERSITY-PURDUE UNIVERSITY INDIANAPOLIS
AND
CITY OF INDIANAPOLIS-MARION COUNTY**

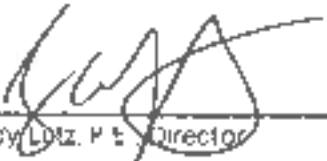
This Memorandum of Understanding (MOU) identifies the responsibilities of the undersigned Trustees of Indiana University on behalf of its UIPUI campus (Entity), and the City of Indianapolis - Marion County (City) in regards to the Municipal Separate Storm Sewer System - National Pollution Discharge Elimination System Permit No. INS040001 (MS4-NPDES Permit), issued by the Indiana Department of Environmental Management (IDEM). This MOU, the MS4-NPDES Permit, and the attached Compliance Schedule for Indianapolis' NPDES Municipal Separate Storm Sewer System Permit (Schedule), represent the entire understanding of the parties and do hereby supersede any other writing addressing the items to be implemented by the Entity as listed in the Schedule.

WHEREAS, the IDEM has issued the City the MS4-NPDES Permit, which includes the following phrase "The City shall continue to enter into legal contracts or agreements with the entities listed in Part I A of this permit to control discharges to and from those portions of the MS4 area that are owned or operated by the entities" and

WHEREAS, the MS4-NPDES Permit requires some 'legal authority' which enables both parties meet the permit terms and conditions

NOW THEREFORE BE IT RESOLVED, that the Entity agrees to comply with the Schedule and the MS4-NPDES Permit and will control discharges to and from those portions of the MS4 area that are owned or operated by the Entity from the date of execution of this MOU henceforth, as required by Part II A 3 of the Permit, and as outlined in the Schedule. Each party represents and warrants to the other party that it has the power, authority and legal right to enter into this MOU.

CITY OF INDIANAPOLIS DEPARTMENT
OF PUBLIC WORKS



Andy Loz, P.E., Director

Date 5/11/15

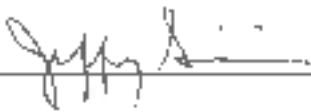
INDIANA UNIVERSITY-PURDUE
UNIVERSITY INDIANAPOLIS



Michael C. Janson, University Director
Indiana University

Date April 23, 2015

APPROVED AS TO LEGALITY AND FORM



Jeffrey Sirmir, Assistant Corporation Counsel

Jeffrey Sirmir, Assistant Corporation Counsel

**IUPUI COMPLIANCE SCHEDULE FOR INDIANAPOLIS NPDES
MUNICIPAL SEPARATE STORM SEWER SYSTEM PERMIT**

COMPLIANCE CHECKLIST NARRATIVE RESPONSES

October 1, 2015 – September 30, 2017

Permit Action Item

II.B POLLUTION PREVENTION, OPERATIONS AND MAINTENANCE

Document Maintenance of Structural Controls

- Inventory Structural Runoff Controls: Structural runoff controls are mapped as they are permitted and installed. The units are currently included as part of a campus-wide, comprehensive preventative maintenance (PM) program which utilizes an electronic calendar to schedule appropriate preventative maintenance activities. The IUPUI Office of Campus Facility Services (CFS) Utilities Department inspects each unit on a frequency consistent with that specified in each unit's installation permit and as specified by the manufacturer. CFS utilizes contractual services to clean the units as specified by permit and in accordance with manufacturer's recommendations.

Document Maintenance: Inspection and service of each structure is documented as performed in a departmental spreadsheet.

SOP Inspection and Cleaning of University Owned Parking Lots

- Develop implementation Schedule for Parking Lot SOP. Parking Lot SOP attached. Parking lots are inspected and serviced daily for litter and inspected quarterly for sources of pollution.
- An estimated 400 cubic yards of refuse was removed from University parking lots during the reporting period.

Drain Marking Program

- Continue University Drain Marking Plan: The University, in conjunction with the Center of Earth and Environmental Science (CEES) of the IUPUI Department of Earth Sciences, committed to mark all storm sewer inlets on campus whether located within the MS4 areas or if located within an area on campus served by the combined sewer system.

The drain marking program was initiated in the fall of 2005 and was completed by the CEES as student service projects. 100% of those storm sewer inlets on campus were initially marked; including those outside the MS4 areas on campus.

The campus utilizes storm sewer inlets with precast markings when practical for new or replacement installations.

Street Sweeping Program

- Prioritize Streets Being Swept: University-owned streets are identified (see attachment). Barring any special construction project, all University-owned streets are included as part of the campus street sweeping program. Campus streets were swept five times during the reporting period. The University continued to use the services of a contractual street sweeping service during the reporting period.
- Document Amount of Trash/Grit Collected: All collected grit and debris is disposed of as municipal solid waste. It is estimated that 50 cubic yards of grit and refuse were removed as part of the street sweeping program.

Winter Weather Salt Use

Continue Salt Application Guidelines: No sand was applied to campus streets, sidewalks or parking lots during the reporting period.

In an effort to reduce the volume of salt utilized on campus, the University continued the use of a pretreatment brine solution on University streets, sidewalks and parking lots. CFS estimates the use of the brine pretreatment has led to a 25% reduction in the total volume of salt applied on campus.

The University utilized Natural Ice Melt on parking structures and other sensitive areas on campus in an effort to reduce the amount of sodium-based ice melt products used.

- Document Amount of Salt Used Each Winter Season: CFS retain salt purchase and use records for those products utilized to treat campus streets, parking lots and sidewalks. It is estimated that 600 tons of salt were applied to campus streets, sidewalks and parking lots located within the MS4 area of the campus during the reporting period.

Roadside Erosion and Litter Control

- Education Program for Staff and Contractors: The Grounds Department of the IUPUI Department of Campus Facility Services is responsible for the ongoing maintenance of the grounds on the IUPUI campus. The campus is divided into service zones. Each service zone is continually policed for litter and erosion problems including prior to the mowing of campus lawns. Educational flyer and distributed to campus maintenance staff. An on-line campus water resource protection training module was finalized for implementation during the reporting period.
- Document Amount of Litter Collected and Disposed of: An estimated 22 - 26 cubic yards of roadside refuse was removed during the reporting period.
- Document Erosion Areas and Generate Work Order for Repair: As an urban campus, campus streets are served by curbs and sidewalks. As such, the potential for erosion is significantly reduced. The CFS Grounds Department continually monitors the campus for eroded areas including unpaved areas experiencing heavy pedestrian traffic. Work

orders are established for the repairs of eroded areas and for the extension of pedestrian sidewalks. The campus continues to extend cement sidewalks for heavily traveled areas. For areas where extension of sidewalks is not possible or practical, mulch is utilized to minimize the amount of run-off experienced. The current work order systems readily allows for the tracking of each repair/restoration project.

SOP Inspection and Cleaning of University Owned Vehicle Maintenance Garages.

- SOP Inspection and Cleaning of University Owned Vehicle Maintenance Garages: The University has no external vehicle maintenance areas, material storage facilities or vehicle yards. The University contracts all vehicle maintenance operations to independent garages. A single repair shop for grounds equipment exists at the Service Building. Equipment maintenance occurs within an interior repair shop. The repair shop and the adjacent wash bay are connected to the sanitary sewer.
- Obtain Completed Vehicle Maintenance SOP from DPW: NA
- Develop Inspection Schedule for Vehicle Maintenance SOP: NA
- Document Inspections and Cleanings of Vehicle Maintenance Facilities Through Schedule and Checklist Provided by SOP:NA
- Provide Documentation of Reporting of SOP in the Annual Report and Submit to DPW: NA

Vehicle and Equipment Wash Area Modifications

- Correct Illicit Discharges: The campus did not allow the washing of University-owned vehicles in areas that are exterior to University buildings during the reporting period. University vehicles are washed at off-site commercial car washes. A single wash bay currently exists within the Service Building where lawn equipment is washed. A second wash bay exists at the Campus Service 5 Building that is used on a limited basis by the campus Parking Services staff. Both wash bays are interior to the respective building and are connected to the sanitary sewer.

Flood Control Projects

- Evaluate All Stormwater Treatment Control Structures in University Property for Improvements, Maintenance and Retrofitting. Ongoing effort. See narrative below.
- Submit Results and Implementation Schedule in Annual Report. As reported previously, the IUPUI campus is comprised of both MS4 and combined sewer conveyances; with the largest percentage of the campus being served by combined sewers.

Previously, five areas of the campus are designated as being part of a MS4 area: these being, the Union Building (and surrounding buildings and parking lots), the Wishard Boulevard corridor (including the cancer research corridor), the Campus Apartments on the Riverwalk complex, the Natatorium/Herron Art School corridor and the Biotechnology Research and Training Center complex.

Of the five MS4 areas located on campus, the Campus Apartments on the Riverwalk and the Biotechnology Research and Training Center complexes are recent developments. Treatment control structures installed at these locations met the treatment efficiencies specified in the Stormwater Design and Construction Specifications Manual at the time of their installation. The units are maintained as described previously in this report.

The largest MS4 area previously found on campus, the Union Building and surrounding facilities, was deeded to Wishard Memorial Hospital in the fall of 2009 as part of 25-acre campus land exchange and is no longer University property. The 25-acre tract of land has been redeveloped and comprises the Eskenazi Hospital complex – the hospital portion opened on December 7, 2013.

The University took possession of the former Wishard Memorial Hospital complex (24 acres) on February 3, 2014. A study of the storm sewer conveyances indicate that the conveyances are served by the combined sewer system.

Demolition of approximately 70% of the former Wishard Hospital complex was initiated during the summer of 2015 and completed in July of 2016.

The University is currently developing a comprehensive plan for the property that includes renovation of remaining structures and eventual redevelopment of the remainder of former Wishard campus. The stormwater infrastructure of this portion of the campus will be evaluated and updated as the redevelopment plan is implemented.

Of the remaining two areas, construction of Phase III of the cancer research corridor was completed in April of 2010. Treatment control structures installed as part of recent construction within this corridor meet current treatment efficiencies specified in the Stormwater Design and Construction Specifications Manual. The corridor is served by two public thoroughfares currently under the responsibility of the City of Indianapolis.

The Natatorium/Herron School or Art corridor has a limited number of treatment control structures all are contemporary and capable of meeting the 80% total suspended solids removal efficiency specified within the Indianapolis/Marion County Stormwater Design and Construction Specifications Manual.

Pesticide and Fertilizer Applications

- Develop a Pesticide and Fertilizer Application Program Plan: The campus has outsourced all pest control for the campus to licensed commercial applicators but retains direct oversight of the application process.

In an effort to further reduce the volume of pesticides/fertilizers applied on campus, the campus continues to implement an integrated pest management system as directed under a campus policy (attached). Under the integrated pest management system, areas are inspected prior to treating for any given pest to ensure that the pest is present and that

treatment is required. In addition, treatments are timed based on the lifecycle of the pest for which control is desired.

All tree fertilizer and insecticide applications are root-zone injected eliminating surface runoff of applied pesticide/fertilizer product.

The use of restricted-use pesticides has been eliminated on campus.

Staff Education and Training Program

- Develop Pollution Prevention Training Program: Educational brochure (attached) developed and circulated to University maintenance personnel and residential students on campus. A comprehensive on-line campus water resource protection training module has been developed for implementation in 2017 <https://expand.iu.edu/browse/e-training/ehs/courses/water-resource-protection-training-2018>.
- Schedule Training Times and Locations: On-line training program developed in conjunction with other Indiana University campuses as part of a consolidation of the Environmental Health and Safety offices.
- Certify Completion of Training Program: Ongoing.

II.C POST CONSTRUCTION STORMWATER RUN-OFF CONTROL IN NEW DEVELOPMENT AND REDEVELOPMENT

- Continuing Permit Compliance/Training of University Staff: Staff attended scheduled meetings with DPW staff during the reporting period.

II.D ILLICIT DISCHARGES AND IMPROPER DISPOSAL

Inventory Outfalls and MS4 (Municipal Separate Stormwater System)

- Provide Mapping of University-Owned Drainage System: Conveyances located within the MS4 areas greater than 12 inches are currently mapped. The University currently believes that remapping is complete barring the discovery of any mapping errors. Work on campus sewer conveyances is ongoing. In addition to new conveyances, previously mapped areas are undergoing quality control checks for precision and accuracy.

Summarize Used Oil and Toxics Programs

- Summarize Used Oil and Toxics Programs: The University maintains a comprehensive chemical waste disposal program which is inspected on a regular basis by the Indiana Department of Environmental Management and/or the United States Environmental Protection Agency. Chemical wastes are removed directly from the point of generation by personnel of the Indiana University Office of Environmental Health and Safety (EHS). The materials are transported to a dedicated facility designed for the management of

hazardous wastes where they are consolidated and packaged for the off-site treatment at one or more permitted hazardous waste disposal facilities currently under contract with the University. The facility is manned daily and is formally inspected weekly by EHS personnel. An estimated 389,000 pounds of chemical wastes were collected and managed by the department during the reporting period.

Waste oils and glycols are collected in a similar fashion, transported to a dedicated storage facility. Waste oils and glycols are regularly collected by a national disposal contractor for recycling. The storage area is inspected on a weekly basis by EHS staff and on a regular basis by the Indiana Department of Environmental Management. Most of the collected waste oils originate from campus compressor units and from the routine maintenance grounds equipment. Most of the waste glycol originate from campus heat exchange systems.

II.F CONSTRUCTION SITE RUN-OFF CONTROL

Compliance with Rule 5

- Submit NOI's to DCE: NOI's submitted to the Indianapolis Department of Code Enforcement as appropriate.
- Training Program for Construction Site Inspectors: The inspection of campus construction sites is delegated by contract to the primary construction contractor. The Contractor is responsible for fulfilling the construction site inspection requirements.
- Provide a Self-Inspection Monitoring Program: Not applicable. See above.

University construction project managers which oversee construction projects on campus have been provided with construction site stormwater protection training program administered by the Stormwater Coordinator from the Indiana University Bloomington campus. The training was consistent with that administered to construction site personnel at the various Indiana University campuses currently covered by the University's Part C NPDES Phase II permit Stormwater Quality Management Plan.

Training Program for Construction Site Inspectors

- Certify as to Completion of Inspector Training: Not Applicable.

The inspection of weekly and rain event inspection of construction sites is contractually delegated to the primary contractor responsible for the construction project. Contractors are requested to complete the attached forms on a regular basis over the course of the construction project. Contractors are provided with the attached checklist.

II.G PUBLIC PARTICIPATION AND EDUCATION

Encourage Public Reporting of Problems

- Develop Fliers/Signs with Number to Report/Call: Attached flyer developed and circulated to campus maintenance staff and residential students. Additional educational materials are available through the departmental website available at: <https://protect.iu.edu/environmental-health/environmental-management/water-quality/stormwater.html>.

Educate Students/Staff about NPS Pollution

- Develop Distribute Materials/Signs Develop Fliers/Signs with Number to Report/Call: Attached flyer developed and circulated to campus maintenance staff and residential students. Additional educational materials developed by the Bloomington campus as part of that campus' MS4 permit are to be implemented on campus.

III.B REPORTING REQUIREMENTS

Provide Information to DPW for Annual Reports

- Begin Assembly of Information for Annual Report: Information collected and provided.
- Complete Checklist and Submit to DPW by October 31st: Checklist and narrative completed on December 1, 2017 as requested.

Compliance Schedule For Indianapolis' NPDES Municipal Separate Storm Sewer System Permit

Permit Action Item	Page	Section	Completion Date	Action Item Description	Action Item Completed (Yes/No)	Comments
II.B POLLUTION PREVENTION, OPERATIONS AND MAINTENANCE						
Document maintenance of structural controls	8	II.B.1.a		Structural storm water controls (SSC) are engineered facilities intended to treat storm water and / or mitigate the increased effects of storm water runoff peak rate, volume, and velocity due to urbanization. Your site may or may not contain structural storm water controls. If your site does contain SSCs you are required to map their location.		
Inventory structural runoff controls				If your campus contains SSCs you should continue to map their locations.		
Document maintenance (if applicable)				If your campus contains SSCs you must document your maintenance program(s).		
SOP Inspection and Cleaning of University Owned Parking Lots	9	II.B.1.d		University owned parking lots exposed to storm water shall be inspected and kept clear of debris and excessive oil buildup on an as-needed basis. The parking lot SOP created by DPW should be used to determine a schedule for implementation and the procedures to follow for implementation. In each annual report, a summary of the parking lot inspections will be provided, which indicates the number of inspections, and an estimate of the trash and debris material removed.		
Develop implementation Schedule for Parking Lot SOP				Continue SOP implementation and report annually on number of parking lot inspections, cleanings and estimated amount of trash and debris removed.		
Drain marking program	9	II.B.2.a		The storm drain marking program is designed to inform citizens about the ecological hazards of dumping household chemicals into storm drains. This requirement involves painting a stencil near storm drains to remind people that everything that goes into a storm drain flows directly, untreated, into a nearby stream, and distributing a brochure to citizens who attend school, work or live in the area where drains have been marked. The brochure explains how to properly dispose of materials that pose a hazard to fish and water quality.		
Continue university drain marking plan				Continue the Drain Marking Plan at the university until all university owned inlets are marked. Keep appropriate records.		
Street Sweeping Program	9	II.B.2.c		This program keeps floatables and other solid material from accumulating on the street pavement.		
Prioritize streets being swept				Use historical data to prioritize streets that have the greatest potential for trash collection.		
Document amount of trash/git collected				Continue street sweeping program and document the amount of material collected and disposal method.		
Winter weather salt use	10	II.B.2.d		Brine can impact plant life and have adverse effects on other environmentally sensitive organisms. This program limits this impact to the maximum extent practicable.		
Continue salt application guidelines				Continue the existing tracking the estimated amount of salt, sand and calcium chloride compounds applied to roads, walks and parking lots. The amount of deicing materials shall be minimized while not adversely impacting public safety.		
Document amount of salt used each winter season				The university is responsible for retaining all records and making the information available to DPW on an annual basis.		
Roadside erosion and litter control	10	II.B.2.e & f		Erosion is the single largest polluter of storm water in the United States. Being aware of and repairing erosion along roadways and on properties substantially helps reduce siltation in waterways. Litter contains many floatables which can be difficult to remove from storm water as they tend to travel along the waterway easily.		
Education program for staff & contractors				University staff and contractors shall attend DPW provided training on litter and erosion along roadways and mowed areas.		
Document amount of litter collected and disposed of				Continue to track the amount of trash /litter removed and report annually.		
Document erosion areas and generate work order for repair				Continue to track the repair of the eroded areas and report annually.		

Please initial and insert date completed in appropriate space
 A = Action / N/A = No Action / C = Certification / D = Document / R = Report

NPDES MSA Requirements
 for Universities / Colleges
 Permit No INSD4001

Compliance Schedule For Indianapolis' NPDES Municipal Separate Storm Sewer System Permit

Permit Action Item	Page	Section	Completion Date	Action Item Description	Action Item Completed (Yes/No)	Comments
SOP inspection and cleaning of University owned vehicle maintenance garages	10	II.B.3.b		University owned maintenance facilities and vehicles used areas exposed to storm water shall be inspected and kept clean of debris and excessive oil build up on an as-needed basis. The maintenance facility SOP created by DPW should be used to determine a schedule for implementation and the procedures to follow for implementation. In each annual report after the second year of permit coverage, a summary of the parking lot inspections will be provided, which indicates the number of inspections, and an estimate of the trash and debris material removed		
Obtain completed Vehicle Maintenance SOP from DPW				DPW to provide universities with SOP	A	
Develop implementation schedule for Vehicle Maintenance SOP				Develop implementation schedule consistent with the SOP	A	
Document inspections and cleanings of vehicle maintenance facilities through schedule and checklist provided in the SOP				Document through checklist provided in the SOP	A	
Provide documentation of reporting of SOP in the Annual Report and submit to DPW				Provide a write up in the Annual Report of compliance with SOP	D, A	
Vehicle and equipment wash area study/ modifications	10	II.B.3.c		This management measure is intended to eliminate non-point source pollutant loads generated by the washing of vehicles and equipment, such as lawn mowers and generators, in areas that drain to storm drainage systems ponds, or streams. These discharges would be considered illicit discharges.		
Correct illicit discharges				Ensure vehicle and equipment wash areas wash waters are contained on-site or discharge to a sanitary sewer. Document corrective actions (as applicable).	A	
Flood Control Projects	10-11	II.B.4		Evaluate all known existing storm water treatment control structures in the MSA area owned or operated by the University for the benefits they are providing in reducing runoff. The evaluation shall include the following: 1) Determine if the existing treatment control structures at each University (i.e. detention ponds) meet the existing city water quality standards; and 2) if it does not, determine the feasibility and practicality of retrofitting or upgrading the existing treatment control structure.		
Evaluate all storm water treatment control structures in University property for improvements, maintenance or retrofitting.				Provide a write up in the Annual Report of compliance if applicable to University	A	
Submit results and implementation schedule in Annual Report				Due to the fact that most PH & Fs are applied directly to areas that generate runoff there is a potential for substantial impact to the receiving waters. The university must develop a plan that will minimize application rates or certify that the chemicals are not in use.		
Pesticide and fertilizer applications	11	II.B.5		Continue a chemical application program plan that requires that pesticides, herbicides and fertilizers be used according to 1) State Chemist recommendations; and 2) label directions.		
Develop a pesticide and fertilizer application program plan				Staff that perform job functions that can potentially result in pollution of storm water runoff must be provided with general and targeted education and awareness training on storm water pollution and storm water pollution prevention	A, C	
Staff education and training program	11	II.B.6		Develop or acquire a pollution prevention training program	A	
Develop pollution prevention training program				Schedule and provide the training to staff	A	
Schedule training times and locations				Prepare and sign certification for inclusion in the annual reports	C	
Certify completion of training program						

Please initial and insert date completed in appropriate space

A = Action / N/A = No Action / C = Certification / D = Document / R = Report

NPDES MSA Requirements for Universities / Colleges Permit No INSM04001

Compliance Schedule For Indianapolis' NPDES Municipal Separate Storm Sewer System Permit

Permit Action Item	Page	Section	Completion Date	Action Item Description	Action Item Completed (Yes/No)	Comments
II.C. POST CONSTRUCTION STORM WATER RUN-OFF CONTROL IN NEW DEVELOPMENT AND REDEVELOPMENT						
Continuing permit compliance	12	II.C.1		The City of Indianapolis has adopted a document entitled "Indianapolis Design and Construction Manual", Chapters 100-700 & Chapter 561 of the Indianapolis Municipal Code. The university must comply with these documents and other applicable codes, etc.		
Training of university staff				University staff shall attend DPW provided training regarding changes to water quality management documents.	D	
II.D. ILLICIT DISCHARGES AND IMPROPER DISPOSAL						
Inventory outfalls and MS4 (Municipal Separate Storm Sewer System)	15	II.D.2.b		Facility maintenance, vehicle maintenance, equipment maintenance and other activities generate pollutant laden runoff that can enter the storm water system on your property and pose a pollution danger. Due to this fact it is important to know the location of and map your storm water facilities including their outfalls.		
Provide mapping of University-owned drainage system				All university owned storm water conveyance systems (12 inch and larger) including inlets, catch basins and manholes must be located. Update maps as applicable.	A	
Summarize used oil and toxics programs	15	II.D.5		Proper vehicle and equipment maintained generates used fluids, such as oil, that must be disposed of properly. University maintained records must show if these maintenance procedures are performed onsite or at off-site facilities.		
Summarize used oil and toxics programs				Describe the disposal process that the university utilizes for waste oil or other used fluids.	N/A	
II.F. CONSTRUCTION SITE RUN-OFF CONTROL						
Compliance with Rule 5	19	II.F.1		The Indiana Department of Environmental Management has adopted Rule 5 which affects construction sites one acre in size and larger. An NOI requirement is included in Rule 5. The City of Indianapolis has adopted Chapter 600 entitled "Erosion Control" which adopts Rule 5 by reference. The university and its contractors must comply with both Rule 5 and Chapter 600.		
Training program for construction site inspectors				The University or its contractor must submit NOIS to IDEM for all projects that disturb at least one acre of land.	A	
Construction site inspection program	20	II.F.7		University may attend DPW provided trainings for construction site inspectors and plan review staff.		
Continue a self-inspection program for construction sites	20	II.F.8		Construction site inspector training is required. The City of Indianapolis often offers inspection classes. Utilize the Indianapolis DCE inspectors where possible.		
Provide a self-inspection monitoring program				The university will operate a construction site self-inspection program for compliance with the terms of NPDES permit No. INSD4001.Pair A, i.e., an Section 602.6 of Chapter 600 of the City of Indianapolis, Department of Public Works (DPW) Storm water Design and Construction Standards, Chapter 600 which provides specific requirements for certain types of new construction as detailed in Chapter 561 of the Indianapolis City Code.	A	
				Enter into a written agreement with either the City or the Marion County Soil and Water Conservation District to have the self-inspection program monitored.	A	

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NPDES MS4 Requirements
 for Universities / Colleges
 Permit No INSD4001

Compliance Schedule For Indianapolis' NPDES Municipal Separate Storm Sewer System Permit

Permit Action Item	Page	Section	Completion Date	Action Item Description	Action Item Completed (Yes/No)	Comments
II.G PUBLIC EDUCATION AND OUTREACH						
Encourage public reporting of problems Develop fliers/signs with number to report/call	22	II.G.1		The university must publicize the appropriate phone numbers and other means of contact when storm water runoff pollution problems are identified.		
Educate students/staff about NPS pollution Develop distribute materials/signs	22-23	II.G.4 & 6		The university will develop fliers and/or posters that explain how to identify and report illegal dumping or pollution if observed. Provide information on storm water pollution prevention, including proper disposal of items such as used fluids, paper, and other materials to students, staff, and contract employees. Use Indianapolis fliers where possible. Develop and distribute information on proper disposal and pollution prevention.	A	
III.B REPORTING REQUIREMENTS						
Provide information to DPW for annual reports Begin assembly of information for annual report Complete checklist and submit to DPW by October 31	32-33	IV.A.3		The City as required to submit an annual report to IDEM that details progress made on permit compliance. The university must pull together the data information and completed checklist information then be submitted to DPW by October 31. Begin pulling information together before October 1 for delivery to DPW by October 31. The data information and completed checklist information then be submitted to DPW by October 31.	A, D	

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NPDES MS4 Requirements
for Universities / Colleges
Permit No INSD40001

12/09/14
4 of 4

Indiana University – Purdue University Indianapolis (IUPUI)

Standard Operating Procedures Parking Lot Inspection and Maintenance

IUPUI-owned and/or operated parking lots are to be kept free of debris and excessive oil build up to the extent practical. Debris, oil, and other contaminants that enter the storm water drainage system can pollute Indianapolis waters. In an effort to control this source of stormwater runoff pollution, parking lots will be spot-checked on a daily basis to identify potential problems. Thorough inspections will be conducted once each quarter and a checklist of each inspection will be completed. If excessive litter or oil build-up is noted during spot checks or inspections the parking lot will be cleaned as soon as possible. The inspection results that require cleaning are described in this SOP. A thorough cleaning of each parking area will be performed as needed at a frequency of no less than once per year, during which both vehicle parking areas and traveling lanes within parking lots will be cleaned.

For the purposes of this SOP, a significant spill or leak is:

- Any gasoline from an actively-leaking vehicle or portable gasoline fuel tank.
- Any antifreeze or oil leak in excess of 12” (inches) in diameter or where recoverable (not fully absorbed into pavement) antifreeze or oil is evident.
- Any spill or release which does not meet the above criteria and appears to be chemical in nature regardless of the location or circumstances.

Permit Requirement

The City of Indianapolis is required by the Indiana Department of Environmental Management (IDEM) to comply with the EPA’s National Pollutant Discharge Elimination System (NPDES) Stormwater Phase I rule. IDEM issued NPDES Stormwater Discharge Permit Number INS040001 to the City of Indianapolis effective October 1, 2004. This permit is the City’s second 5-year-term permit. The City has been complying with a NPDES permit since 1998.

This Standard Operating Procedures (SOP) for IUPUI-owned Parking Lots Inspection and Maintenance have been developed in order to meet the University’s agreement as a participant in the City’s stormwater discharge permit.

Responsibilities

The Grounds Department of the IUPUI Office of Campus Facility Services is responsible for ensuring that inspection and cleaning of University-owned parking lots are performed in accordance with this SOP, and thereby in compliance with the University’s agreement. Grounds Department operations managers responsible for parking lots will ensure that the SOP is followed and that appropriate information from the activity is recorded and transferred to the IUPUI Office of Environmental Health and Safety as described herein.

This SOP is intended for all University-owned lots located within MS4 areas on campus and will be used a guideline for maintaining all campus parking lots. The Grounds Department is responsible for inspection and cleaning of all campus parking lots and garages. Grounds managers will be responsible for:

- Conducting initial parking lot inspection and documentation of existing stains,
- Ensuring daily spot-checks and quarterly inspections are conducted,
- Completing the quarterly inspection checklist and ensuring that the information is transmitted to the IUPUI Office of Environmental Health and Safety, and
- Overseeing the inspection-generated and annual cleanings.

Cleaning activities will be completed by resources provided by IUPUI.

Inspection and Cleaning Schedule

The parking lot inspection and maintenance program is comprised of three on-going inspection protocols; daily spot checking, quarterly inspections (with as-needed cleaning), and annual cleaning. The inspection and cleaning programs and their scheduled frequencies are described in the following paragraphs.

Spot-checks

Following the initial inspection and cleaning, Grounds Department personnel will conduct daily spot-checks of their lots. During the inspections they will be looking for debris and new leaks, stains, and oil build-up. Grounds Department management staff will address problems such as leaking stored vehicles and will arrange for clean-up of spills and leaks as required under this SOP (see Conditions for Parking Lot Cleaning, page 4). Grounds staff can concentrate their weekly inspections on known problem-prone areas such as places where vehicles stand with motors running or where litter commonly accumulates.

Quarterly Inspections and As-needed Cleaning

Beginning in the second quarter after the approval of this SOP, Grounds Department management staff will begin quarterly inspections. For this more thorough, quarterly inspection, Grounds staff will complete a copy of the parking lot inspection checklist (attached to this SOP). Checklists for each quarter from each parking lot will be collected for the purposes of documenting IUPUI's compliance with its permit. Grounds Department managers (other departments) will arrange for the clean-up of spills and leaks that require cleaning under this SOP.

Annual Cleaning

IUPUI -owned parking lots will be thoroughly cleaned once each year. This cleaning will include both parking areas and travel lanes in the parking lots. The cleaning will be conducted at a time where parked vehicles will be at a minimum.

Materials swept, cleaned up, and collected from the annual cleaning will be properly disposed of. A record of the approximate amount of material disposed of will be recorded on the quarterly inspection checklist for the quarter in which the cleaning occurs.

Conditions for Parking Lot Cleaning

New spills and leaks will be cleaned as they are identified during daily spot-checks or quarterly inspections. Unless a special circumstance warrants it, annual cleaning and spot-cleaning of debris, spills, and leaks identified through inspections should ensure that contaminated runoff is greatly reduced from IUPUI-owned and operated parking lots. Special circumstances may require that a parking lot be thoroughly cleaned more frequently than once a year. These circumstances include the following:

- If a parking lot has an unusually high volume of vehicles (such as special events) and the amount of debris, spills, and leaks that are identified in daily and/or quarterly inspections seem to demand cleaning on a regular basis, it may be necessary to clean the entire lot more than once a year. The day-to-day practices at such a facility will be examined to ensure that stormwater pollution prevention practices are being followed.
- If an unusual event such as a flood or a large spill deposits a large amount of debris or other material onto the parking lot, it will be cleaned up as soon as possible.

Inspection Processes and Record Keeping

A key component of the parking lot inspection and maintenance program is record-keeping and annual reporting to the City of Indianapolis. The parking lot inspection and maintenance program record-keeping process is described in the following paragraphs.

Daily Spot-checks

Parking lots will be spot-checked on a daily basis. The parking area will be scanned for litter and debris. Litter and debris might have collected on the top of drains or grates. In the event there is a significant accumulation of litter and debris it should be removed and properly disposed of immediately. A brief look at areas where vehicles stand with engines running, and where litter receptacles are located should be performed. If litter, oil, antifreeze, or other vehicle fluid is observed by a parked vehicle, it indicates a leak from the vehicle. Leaks and spills must be reported to the immediate supervisor and cleaned so that spilled materials do not enter the storm drain. Identified spills or leaks must be cleaned *prior to the next expected precipitation event* if at all possible. Dry cleaning methods (e.g. oil dry or an equivalent product) are to be used whenever possible to remove leaked or spilled fluids. All applied dry cleaning media is to be removed and properly disposed of following the clean-up. The IUPUI Chemical Spill Policy (available at: http://ehs.iupui.edu/ehs/environment_chemSpillPolicy.asp) is to be followed for any significant spill or leak. Particular attention should be given to areas where problems have been identified in past inspections.

Quarterly Inspections

Once each quarter the parking lot must be thoroughly inspected and the inspection must be documented on a copy of the attached checklist. A quarterly inspection takes the place of a spot-check for that week. Inspect the parking lot once in the following periods:

- January through March,
- April through June,
- July through September, and
- October through December.

The entire lot is to be checked for litter, debris, spills, and leaks, as required by the inspections checklist. Move vehicles so that parking and storage areas can be examined. Remove litter and debris, and clean up spills and leaks with the same process as spills and leaks that are identified in daily spot-checks. The IUPUI Chemical Spill Policy (available at: http://ehs.iupui.edu/ehs/environment_chemSpillPolicy.asp) is to be followed for any significant spill or leak. Inspections checklists are to be kept for each quarter copies of which are to be transferred to the IUPUI Office of Environmental Health and Safety. This information will be used to document the City's compliance with its permit each year.

Parking Lot Cleaning

The proper methods and procedures to clean parking lots should be taken to prevent stormwater pollution. At a minimum, litter, debris, spills, and leaks should be properly addressed during the inspections. Below are descriptions of the correct methods of cleaning the parking lots.

Litter and Debris

Litter and debris, such as paper, cups, food, leaves, grass clippings, twigs, branches, or other trash or debris should be removed from the parking lot. Litter and debris might collect in low spots or on drain grates. Most litter and debris should not be hazardous and can be disposed of in ordinary solid waste containers. At least once a year, the entire parking lot should be cleaned and swept if necessary. A record should be kept indicating how much material is removed from the parking lot during this cleaning on the quarterly inspection checklist for the quarter in which the cleaning occurred.

Spills and Leaks

If spills or leaks are found, contain the spill or leak, if necessary, to prevent it from entering the storm drain. Report spills according to the IUPUI Chemical Spill Policy (available at: http://ehs.iupui.edu/ehs/environment_chemSpillPolicy.asp). Small or incidents leaks do not have to be reported. Address leaks immediately to prevent further pollution. For instance, if a vehicle is leaking, have the vehicle repaired. Do not wash the spilled or leaked material with water.

Oil Spots and Stains

If spots or stains from leaking automotive fluids are found steps should be taken to prevent residual oil, antifreeze, or gasoline from entering the storm drainage system. In some cases it may be possible to remove the spots using dry cleaning methods. In other situations it may be necessary to use steam cleaning methods to remove the residue from the spot. Do not wash the spilled or leaked material with water.

Parking Lot Best Management Practices

Parking lot best management practices (BMPs) should be utilized on a daily basis by all employees. These practices are important to incorporate into a daily routine and can prevent many incidents of stormwater pollution from occurring. The following BMPs: staff training, good housekeeping practices, materials management, and spill prevention, are described below.

Staff Training

Staff training on stormwater pollution prevention is an effective method of controlling pollution that can originate from city parking lots. Awareness of this SOP's requirements should be the minimal level of training provided to staff that work in or utilize the city-owned parking lots. Specific instruction on cleaning and responding to spills should be provided to staff as appropriate.

Good Housekeeping Practices

Keeping the workplace clean and free of debris and litter is a universally applicable best management practice for stormwater pollution prevention. Loose debris and litter that is not otherwise removed from the parking lot could be washed into the drainage system.

Materials Management

Materials management goes hand in hand with good housekeeping as a management practice. Materials should be stored so as not to create a spill potential or pedestrian or vehicular traffic hazard. All materials should be identified and labeled properly to avoid unnecessary confusion of the material.

Spill Prevention

Spill prevention includes making certain that spillable materials are properly managed, including: providing secondary containment for aboveground storage tanks and drums; providing drip pans for vehicles that are awaiting service that have leaking oils, antifreeze, or fuel; providing spill response materials to cleanup leaks and spills; training; and signage. Spill prevention may also include structural measures, such as providing concrete-filled steel bollards in areas where vehicles or other mobile equipment will approach generators, fuel dispensers, or storage tanks to prevent accidental damage to the facilities.

Protecting Our Water Resources on Campus



Stormwater is the flow of water that results from precipitation and which occurs immediately following rainfall or as a result of snowmelt. When a rainfall event occurs, several things can happen to the moisture. Some of the water infiltrates into the soil surface, some is taken up by plants, and some is evaporated into the atmosphere. Stormwater is the rest of the moisture that runs off land and impervious areas surfaces.

Stormwater runoff can accumulate pollutants such as oil and grease, chemicals, nutrients, metals, and bacteria as it travels and has the potential to carry contamination associated with construction activities, facilities maintenance, accidental spills and illegal dumping to nearby streams and rivers. Heavy precipitation or snowmelt can also cause sewer overflows that may contaminate water sources with untreated human and industrial waste, toxic materials, and other debris.

Never dump trash or chemical products, including waste engine oil, into storm drains! Many of the drains on campus lead directly to Fall Creek or White River.

Report any signs of improper chemical disposal or stormwater discharges by calling (27)4-7911. Campus safety officials will respond and investigate your concerns.

Compliance Schedule For Indianapolis' NPDES Municipal Separate Storm Sewer System Permit

Permit Action Item	Page	Section	Completion Date	Action Item Description	Action Item Completed (Yes/No)	Comments
II.B POLLUTION PREVENTION, OPERATIONS AND MAINTENANCE						
Document maintenance of structural controls	8	II.B.1.a		Structural storm water controls (SSC) are engineered facilities intended to treat storm water and/or mitigate the increased effects of storm water runoff peak rate, volume, and velocity due to urbanization. Your site may or may not contain structural storm water controls. If your site does contain SSCs you are required to map their location.		
Inventory structural runoff controls			A	If your campus contains SSCs you should continue to map their locations.		
Document maintenance (if applicable)			D	If your campus contains SSCs you must document your maintenance program(s).	Yes	No maintenance needed due to sustainable rain garden design.
SOP inspection and Cleaning of University Owned Parking Lots	9	II.B.1.d		University owned parking lots exposed to storm water shall be inspected and kept clear of debris and excessive oil buildup on an as-needed basis. The parking lot SOP created by DPW should be used to determine a schedule for implementation and the procedures to follow for implementation. In each annual report, a summary of the parking lot inspections will be provided, which indicates the number of inspection, and an estimate of the trash and debris material removed.		
Develop Implementation Schedule for Parking Lot SOP			A, D	Continue SOP implementation and report annually on number of parking lot inspections, cleanings and estimated amount of trash and debris removed.		
Drain marking program	9	II.B.2.a		The storm drain marking program is designed to inform citizens about the ecological hazards of dumping household chemicals into storm drains. The program includes a direct outreach effort to educate the public about the problem and the steps that can be taken to prevent it. The program is directly untreated into a nearby stream, and distributing a brochure to citizens who attend school, work or live in the area where drains have been marked. The brochure explains how to properly dispose of materials that pose a hazard to fish and water quality.		
Continue university drain marking plan			A, D	Continue the Drain Marking Plan at the university until all university owned inlets are marked. Keep appropriate records.	Yes	We utilize Blue Fish drain marking symbols provided by IND Stormwater
Street Sweeping Program	9	II.B.2.c		This program keeps footeables and other solid material from accumulating on the street pavement.		
Prioritize streets being swept			A	Use historical data to prioritize streets that have the greatest potential for trash collection.	No	
Document amount of trash/grit collected			D, A	Continue street sweeping program and document the amount of material collected and disposal method.	No	
Winter weather salt use	10	II.B.2.d		Brine can impact plant life and have adverse effects on other environmentally sensitive organisms. This program limits this impact to the maximum extent practicable.		
Continue salt application guidelines			A	Continue the existing tracking the estimated amount of salt, sand and calcium chloride compounds applied to roads, walks and parking lots.	Yes	900 pounds of salt utilized on average per year. Transitioning from salt to an organics liquid to reduce contamination.
Document amount of salt used each winter season			A	The university is responsible for retaining all records and making the information available to DPW on an annual basis.	Yes	
Roadside erosion and litter control	10	II.B.2.e & f		Erosion is the single largest polluter of storm water in the United States. Being aware of and repairing erosion along roadways and on properties substantially helps reduce siltation in waterways. Litter contains many footeables which can be difficult to remove from storm water as they tend to travel along the waterway easily.		
Education program for staff & contractors			A	University staff and contractors shall attend DPW provided training on litter and erosion along roadways and mowed areas.	Yes	Jeff Cashner, Eric Benjamin, and Kellen Events
Document amount of litter collected and disposed of			D	Continue to track the amount of trash / litter removed and report annually.	No	Due to our waste management measures excess trash is not accumulative
Document erosion areas and generate work order for repair			D	Continue to track the repair of the eroded areas and report annually.	Yes	We have a grounds team that maintains all eroded areas throughout the year

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NPDES MSA Requirements for Universities / Colleges Permit No INSD40001

Compliance Schedule For Indianapolis' NPDES Municipal Separate Storm Sewer System Permit

Permit Action Item	Page	Section	Completion Date	Action Item Description	Action Item Completed (Yes/No)	Comments
SOP inspection and cleaning of University owned vehicle maintenance garages	10	II.B.3.b		University owned maintenance facilities and vehicle yard areas exposed to storm water shall be inspected and kept clear of debris and excessive oil buildup on an as-needed basis. The maintenance facility SOP created by DPW should be used to determine a schedule for implementation and the procedures to follow for implementation. In each annual report after the second year of permit coverage, a summary of the parking lot inspections will be provided, which indicates the number of inspection, and an estimate of the trash and debris material removed.		
Obtain completed Vehicle Maintenance SOP from DPW				DPW to provide universities with SOP	Yes	
Develop implementation schedule for Vehicle Maintenance SOP				Develop implementation schedule consistent with the SOP	Yes	
Document inspections and cleanings of vehicle maintenance facilities through schedule and checklist provided in the SOP				Document through checklist provided in the SOP	Yes	
Provide documentation of reporting of SOP in the Annual Report and submit to DPW				Provide a write up in the Annual Report of compliance with SOP	Yes	
Vehicle and equipment wash area study / modifications	10	II.B.3.c		This management measure is intended to eliminate non-point source pollutant loads generated by the washing of vehicles and equipment, such as lawnmowers and generators, in areas that drain to storm drainage systems ponds, or streams. These discharges would be considered illicit discharges.		
Correct illicit discharges				Ensure vehicle and equipment wash areas wash waters are contained on-site or discharge to a sanitary sewer. Document corrective actions (as applicable)	Yes	In the grounds garage, wash water is collected and pumped out routinely
Flood Control Projects	10-11	II.B.4		Evaluate all known existing storm water treatment control structures in the MSA area owned or operated by the University for the benefits and technical and economical feasibility of making improvements, modifying maintenance or retro-fitting for pollutant removal. Result of the evaluation, along with an implementation schedule, shall be submitted to the department for approval with the annual report for the third year of the permitting term.		
Evaluate all storm water treatment control structures in University property for improvements, maintenance or retrofitting				This requirement involves: 1) determining if the existing treatment control structures at each University (i.e. detention ponds) meet the design standards; and 2) if it does not, determine the feasibility and practicality of retrofitting or upgrading the existing treatment control structure.	NA	
Submit results and implementation schedule in Annual Report				Provide a write up in the Annual Report of compliance if applicable to University	NA	
Pesticide and fertilizer applications	11	II.B.5		Due to the fact that most PH & Fs are applied directly to areas that generate runoff there is a potential for substantial impact to the receiving waters. The university must develop a plan that will minimize application rates or certify that the chemicals are not in use.		
Develop a pesticide and fertilizer application program plan				Continue a chemical application program plan that requires that pesticides, herbicides and fertilizers be used according to 1) State Chemical recommendations; and 2) label directions.	Yes	Calli's Lawn and Landscape handle all of our applications of herbicides, pesticides, and fertilizer
Staff education and training program	11	II.B.6		Staff that perform job functions that can potentially result in pollution of storm water runoff must be provided with general and targeted education and awareness training on storm water pollution and storm water pollution prevention		
Develop pollution prevention training program				Develop or acquire a pollution prevention training program	Yes	Routine retraining provided
Schedule training times and locations				Schedule and provide the training to staff	Yes	
Certify completion of training program				Prepare and sign certification for inclusion in the annual reports	Yes	

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Compliance Schedule For Indianapolis' NPDES Municipal Separate Storm Sewer System Permit

Permit Action Item	Page	Section	Completion Date	Action Item Description	Action Item Completed (Yes/No)	Comments
II.C POST CONSTRUCTION STORM WATER RUN-OFF CONTROL IN NEW DEVELOPMENT AND REDEVELOPMENT						
Continuing permit compliance	12	II.C.1		The City of Indianapolis has adopted a document entitled "Indianapolis Design and Construction Manual, Chapters 100-7.00 & Chapter 561 of the Indianapolis Municipal Code. The university must comply with these documents and other applicable codes, etc.		
Training of university staff			D	University staff shall attend DPW provided training regarding changes to water quality management documents.	Yes	
II.D ILLICIT DISCHARGES AND IMPROPER DISPOSAL						
Inventory outfalls and MS4 (Municipal Separate Storm Sewer System)	15	II.D.2.b		Facility maintenance, vehicle maintenance, equipment maintenance and other activities generate pollutant laden runoff that can enter the storm water system on your property and pose a pollution danger. Due to this fact it is important to know the location of and map your storm water facilities including their outfalls.		
Provide mapping of University-owned drainage system			A	All university owned storm water conveyance systems (12 inch and larger) including inlets, catch basins and manholes must be located. Update maps as applicable.	No	Implementing GIS mapping of stormwater system
Summarize used oil and toxics programs	15	II.D.5		Proper vehicle and equipment maintained generates used fluids, such as oil, that must be disposed of properly. University maintained records must show if these maintenance procedures are performed on-site or at off-site facilities.		
Summarize used oil and toxics programs			N/A	Describe the disposal process that the university utilizes for waste oil or other used fluids.	Yes	Recycle off campus
II.F CONSTRUCTION SITE RUN-OFF CONTROL						
Compliance with Rule 5	19	II.F.1		The Indiana Department of Environmental Management has adopted Rule 5 which affects construction sites one acre in size and larger. An NPDES permit is required for construction sites that are larger than one acre. The City of Indianapolis has adopted Erosion Control, which adopts Rule 5 by reference. The university and its contractors must comply with both Rule 5 and Chapter 600.		
Submit NOIs to DCE			A	The University or its contractor must submit NOIs to IDEM for all projects that disturb at least one acre of land.	NA	
Training program for construction site inspectors	20	II.F.7		University may attend DPW provided trainings for construction site inspectors and plan review staff.	Yes	
Construction site inspection program	20	II.F.8		Construction site inspector training is required. The City of Indianapolis often offers inspection classes. Utilize the Indianapolis DCE inspectors where possible.		
Continue a self-inspection program for construction sites			A	The university will operate a construction site self-inspection program for compliance with the terms of NPDES permit No. INSO40001 Part II, A.1.e., and Section 602.8 of Chapter 600 of the City of Indianapolis, Department of Public Works (DPW) Storm water Design and Construction Specifications Manual, using its own trained inspectors. The City will continue to operate its existing program to implement Chapter 600 which provides specific requirements for certain types of new construction as detailed in Chapter 561 of the Indianapolis City Code.	Yes	
Provide a self-inspection monitoring program			A	Enter into a written agreement with either the City or the Marion County Soil and Water Conservation District to have the self-inspection program monitored.	No	

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NPDES MSA Requirements for Universities / Colleges Permit No INSO40001

Compliance Schedule For Indianapolis' NPDES Municipal Separate Storm Sewer System Permit

Permit Action Item	Page	Section	Completion Date	Action Item Description	Action Item Completed (Yes/No)	Comments
III.G PUBLIC EDUCATION AND OUTREACH						
Encourage public reporting of problems	22	II.G.1		The university must publicize the appropriate phone numbers and other means of contact when storm water runoff pollution problems are identified.		
Develop fliers/signs with number to report call				The university will develop fliers and/or posters that explain how to identify and report illegal dumping or pollution if observed.	Yes	
Educate students/staff about NPS pollution	22-23	II.G.4 & 6		Provide information on storm water pollution prevention, including proper disposal of items such as used fluids, paper, and other materials to students, staff, and contract employees. Use Indianapolis fliers where possible.		
Develop distribute materials/signs				Develop and distribute information on proper disposal and pollution prevention.	No	
III.B REPORTING REQUIREMENTS						
Provide information to DPW for annual reports	32-33	IV.A.3		The City as required to submit an annual report to IDEM that details progress made on permit compliance. The university must pull together data/information regarding each individual item above and catalog this data/information into a organized, readable format. The data/information and completed checklist information then be submitted to DPW by October 31.		
Begin assembly of information for annual report				Begin pulling information together before October 1 for delivery to DPW by October 31.	No	
Complete checklist and submit to DPW by October 31				The data/information and completed checklist information then be submitted to DPW by October 31.	No	

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317.916.8000 • www.augustmack.com
1302 North Meridian Street, Suite 300 • Indianapolis, Indiana 46202

October 26, 2016

Ms. Pam Fox
University of Indianapolis
1400 East Hanna Avenue
Indianapolis, Indiana 46227

**Re: Annual Indianapolis DPW MS4 Report
University of Indianapolis
Indianapolis, Indiana
August Mack Project Number JQ1653.240**

Dear Ms. Fox:

August Mack Environmental, Inc. (August Mack) has completed the annual report for the University of Indianapolis as required by the Indianapolis Department of Public Works (DPW) for the Indianapolis Municipal Separate Storm Sewer System (MS4) permit. Please review the report. If this report meets with your approval, please sign the report in the appropriate locations. Please keep one copy for your records, keep one copy for August Mack's records, and e-mail one scanned copy to Ms. Kathy Allen and Ms. Catherine Fleszewski of the city of Indianapolis DPW at Kathy.Allen@indy.gov and Catherine.Fleszewski@indy.gov, respectively, at your earliest opportunity.

If you have any questions, please do not hesitate to contact us at 317.916.8000.

Sincerely,

A handwritten signature in black ink that reads "Megan Wenzel".

Megan Wenzel
Compliance Manager

A handwritten signature in black ink that reads "Charles J. Staehler".

Charles J. Staehler
Principal Engineer

Enclosure

EXPERTISE. INNOVATION. COMMITMENT.





317.916.8000 • www.augustmack.com
1302 North Meridian Street, Suite 300 • Indianapolis, Indiana 46202

October 26, 2016

Ms. Kathy Allen
Indianapolis Department of Public Works
2460 City-County Building
200 E. Washington Street
Indianapolis, Indiana 46204

**Re: Annual Indianapolis DPW MS4 Report
University of Indianapolis
Indianapolis, Indiana
August Mack Project Number JQ1653.240**

Dear Ms. Allen:

August Mack Environmental, Inc. (August Mack), on behalf of the University of Indianapolis, is submitting the annual report as required by the Indianapolis Department of Public Works (DPW) for the Indianapolis Municipal Separate Storm Sewer System (MS4) permit. This annual report covers the time period from October 1, 2015 through September 30, 2016. The University of Indianapolis will be addressing the deficiencies over the following year to ensure that action items are completed in accordance with the checklist. The certification statement is provided in Attachment A. The winter salt usage is provided in Attachment B. The checklist is provided in Attachment C.

If you have any questions, please do not hesitate to contact us at 317.916.8000.

Sincerely,

A handwritten signature in black ink that reads "Megan Wenzel".

Megan Wenzel
Compliance Manager

A handwritten signature in black ink that reads "Charles J. Staehler".

Charles J. Staehler
Principal Engineer

cc: Pam Fox, University of Indianapolis
Catherine Fleszewski, Indianapolis Department of Public Works

EXPERTISE. INNOVATION. COMMITMENT.



ATTACHMENT A
Certification Statement

Certification of Compliance with NPDES Permit Number INS040001
University of Indianapolis

The University of Indianapolis is designated as an entity covered by the National Pollutant Discharge Elimination System (NPDES) municipal separate storm sewer system (MS4) permit that has been issued. Under the terms of NPDES permit number INS040001 and through a Memorandum of Understanding with the City of Indianapolis, the University of Indianapolis certifies the following:

The University of Indianapolis does not perform street sweeping but does pick up trash on a daily basis and spot cleans as needed.

The University of Indianapolis wash facility, located inside the Physical Plant Building, discharges into the sanitary sewer after passing through oil and sediment separators.

The University of Indianapolis outsources its pesticide and fertilizer application to certified vendors and oversees those vendors with a university-employed certified applicator.

The University of Indianapolis is not currently providing formal training to employees and patrons of the campus. However, the university plans to implement those action items over the next year.

The University of Indianapolis complies with the City of Indianapolis's permitting procedures.

Certification:

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 gather and evaluate 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 above statement 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.

Pam Fox
Executive Director Physical Plant
University of Indianapolis

ATTACHMENT B
Winter Salt Usage

Winter Salt Usage

The University of Indianapolis uses salt throughout the campus, as follows. The university typically salts after removing snow to prevent falls and/or accidents. The university used 48,300 pounds of rock salt on the roads and parking lots. The university used 45,100 pounds of Ice Melt on the 10 miles of sidewalks and steps.

ATTACHMENT C
Annual Report Checklist

Compliance Schedule For Indianapolis' NPDES Municipal Separate Storm Sewer System Permit

Permit Action Item	Page	Section	Completion Date	Action Item Description	Action Item Completed (Yes/No)	Comments
II.B POLLUTION PREVENTION, OPERATIONS AND MAINTENANCE						
Document maintenance of structural controls	8	II.B.1.a		Structural storm water controls (SSC) are engineered facilities intended to treat storm water and / or mitigate the increased effects of storm water runoff peak rate, volume, and velocity due to urbanization. Your site may or may not contain structural storm water controls. If your site does contain SSCs you are required to map their locations.	Yes	University of Indianapolis has a work order system which is used to document maintenance issues that need to be fixed (i.e. blocked storm drains, loose trash)
Inventories structural runoff controls			A	If your campus contains SSCs you should continue to map their locations.	Yes	
Document maintenance (if applicable)			D	If your campus contains SSCs you must document your maintenance programs.	Yes	
SOP Inspection and Cleaning of University Owned Parking Lots	9	II.B.1.d		University owned parking lots exposed to storm water shall be inspected and kept clear of debris and excessive oil buildup on an as-needed basis. The parking lot SOP created by DPW should be used to determine a schedule for implementation and the procedures to follow for implementation. In each annual report, a summary of the parking lot inspections will be provided, which indicates the number of inspection, and an estimate of the trash and debris material removed.	Yes	
Develop implementation schedule for Parking Lot SOP			A, D	Continue SOP implementation and report annually on number of parking lot inspections, cleanings and estimated amount of trash and debris removed.	Yes	
Drain marking program	9	II.B.2.a		The storm drain marking program is designed to inform citizens about the ecological hazards of dumping household chemicals into storm drains. This requirement involves painting a stencil near storm drains to remind people that everything that goes into a storm drain flows directly, untreated, into a nearby stream, and distributing a brochure to citizens who attend school, work or live in the area where drains have been marked. The brochure explains how to properly dispose of materials that pose a hazard to fish and water quality.	Yes	
Continue university drain marking plan			A, D	Continue the Drain Marking Plan at the university until all university owned inlets are marked. Keep appropriate records.	Yes	
Street Sweeping Program	9	II.B.2.c		This program keeps floatables and other solid material from accumulating on the street pavement.	Yes	The majority of trash is collected from parking lot 11, parking lot 14, State Street, and National Avenue.
Prioritize streets being swept			A	Use historical data to prioritize streets that have the greatest potential for trash collection.	Yes	The University of Indianapolis does not sweep streets. Curb are blown off as needed and trash is manually picked up from the property. The University collects approximately 20 gallons of trash is collected per day during the academic school year while classes are in session.
Document amount of trash/grit collected			D, A	Continue street sweeping program and document the amount of material collected and disposal method.	Yes	
Winter weather salt use	10	II.B.2.d		Brine can impact plant life and have adverse effects on other environmentally sensitive organisms. This program limits the impact to the maximum extent practicable.	Yes	
Continue salt application guidelines			A	Continue the existing tracking the estimated amount of salt, sand and calcium chloride compounds applied to roads, walks and parking lots. The amount of desiring materials shall be minimized while not adversely impacting public safety.	Yes	
Document amount of salt used each winter season			A	The university is responsible for retaining all records and making the information available to DPW on an annual basis.	Yes	
Roadside erosion and litter control	10	II.B.2.e & f		Erosion is the single largest polluter of storm water in the United States. Being aware of and repairing erosion along roadways and on properties substantially helps reduce siltation in waterways. Litter contains many floatables which can be difficult to remove from storm water as they tend to travel along the waterway easily.	Yes	
Education program for staff & contractors			A	University staff and contractors shall attend DPW provided training on litter and erosion along roadways and mowed areas.	Yes	
Document amount of litter collected and disposed of			D	Continue to track the amount of trash / litter removed and report annually.	Yes	The University of Indianapolis collects approximately 20 gallons of trash per day during the academic school year while classes are in session.
Document erosion areas and generate work order for repair			D	Continue to track the repair of the eroded areas and report annually.	Yes	

Please initial and insert date completed in appropriate space

A = Action / N/A = No Action / C = Certification / D = Document / R = Report

NPDES MS4 Requirements for Universities / Colleges Permit No IN3040001

Compliance Schedule For Indianapolis' NPDES Municipal Separate Storm Sewer System Permit

Permit Action Item	Page	Section	Completion Date	Action Item Description	Action Item Completed (Yes/No)	Comments
SOP inspection and cleaning of University owned vehicle maintenance garages	10	II.B.3.b		University owned maintenance facilities and vehicle yard areas exposed to storm water shall be inspected and kept clear of debris and excessive oil buildup on an as-needed basis. The maintenance facility SOP created by DPW should be used to determine a schedule for implementation and the procedures to follow for implementation. In each annual report after the second year of permit coverage, a summary of the parking lot inspections will be provided, which indicates the number of inspection, and an estimate of the trash and debris material removed.		
Obtain completed Vehicle Maintenance SOP from DPW			A	DPW to provide universities with SOP	Yes	
Develop implementation schedule for Vehicle Maintenance SOP			A	Develop implementation schedule consistent with the SOP	Yes	
Document inspections and cleanings of vehicle maintenance facilities through schedule and checklist provided in the SOP			A	Document through checklist provided in the SOP	Yes	All repairs/inspections of University vehicles is performed by PFM Automotive. All cleaning of vehicles is completed off-site through Crew Carwash. If cleaning is performed on-site, it is performed in the wash bay within the Maintenance Building.
Provide documentation of reporting of SOP in the Annual Report and submit to DPW			D, A	Provide a write up in the Annual Report of compliance with SOP	Yes	
Vehicle and equipment wash area study / modifications	10	II.B.3.c		This management measure is intended to eliminate non-point source pollutant loads generated by the washing of vehicles and equipment, such as lawn mowers and generators, in areas that drain to storm drainage systems ponds, or streams. These discharges would be considered illicit discharges.		
Correct illicit discharges			A	Ensure vehicle and equipment wash areas wash waters are contained on-site or discharge to a sanitary sewer. Document corrective actions (as applicable).	Yes	All cleaning of vehicles is completed off-site through Crew Carwash. If cleaning is performed on-site, it is performed in the wash bay within the Maintenance Building.
Flood Control Projects	10-11	II.B.4		Evaluate all known existing storm water treatment control structures in the MSA area owned or operated by the University for the benefits and technical and economical feasibility of making improvements, modifying maintenance or retro-fitting for pollutant removal. Result of the evaluation, along with an implementation schedule, shall be submitted to the department for approval with the annual report for the third year of the permitting term.		
Evaluate all storm water treatment control structures in University property for improvements, maintenance or retrofitting			A	This requirement involves 1) determining if the existing treatment control structures at each University (i.e. detention ponds) meet the existing city water quality standards, and 2) if it does not, determine the feasibility and practicality of retrofitting or upgrading the existing treatment control structure.	Yes	The study was completed in the previous permit term and does not need to be repeated at this time.
Submit results and implementation schedule in Annual Report			A	Provide a write up in the Annual Report of compliance if applicable to University	N/A	
Pesticide and fertilizer applications	11	II.B.5		Due to the fact that most PH & Fs are applied directly to areas that generate runoff there is a potential for substantial impact to the receiving waters. The university must develop a plan that will minimize application rates or certify that the chemicals are not in use.		
Develop a pesticide and fertilizer application program plan			A, C	Continue a chemical application program plan that requires that pesticides, herbicides and fertilizers be used according to 1) State Chemist recommendations, and 2) label directions.	Yes	
Staff education and training program	11	II.B.6		Staff that perform job functions that can potentially result in pollution of storm water runoff must be provided with general and targeted education and awareness training on storm water pollution and storm water pollution prevention		
Develop pollution prevention training program			A	Develop or acquire a pollution prevention training program	No	The University of Indianapolis is planning a training program for 2017.
Schedule training times and locations			A	Schedule and provide the training to staff	No	
Certify completion of training program			C	Prepare and sign certification for inclusion in the annual reports	No	

NPDES MS4 Requirements for Universities / Colleges Permit No IN040001

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Compliance Schedule For Indianapolis' NPDES Municipal Separate Storm Sewer System Permit

Permit Action Item	Page	Section	Completion Date	Action Item Description	Action Item Completed (Yes/No)	Comments
II.C POST CONSTRUCTION STORM WATER RUN-OFF CONTROL IN NEW DEVELOPMENT AND REDEVELOPMENT						
Continuing permit compliance	12	II.C.1		The City of Indianapolis has adopted a document entitled "Indianapolis Design and Construction Manual, Chapters 100-700 & Chapter 561 of the Indianapolis Municipal Code. The university must comply with these documents and other applicable codes, etc.		
Training of university staff			D	University staff shall attend DPW provided training regarding changes to water quality management documents.	Yes	
II.D ILLICIT DISCHARGES AND IMPROPER DISPOSAL						
Inventory outfalls and MS4 (Municipal Separate Storm Sewer System)	15	II.D.2.b		Facility maintenance, vehicle maintenance, equipment maintenance and other activities generate pollutant laden runoff that can enter the storm water system on your property and pose a pollution risk. Determine the fact is important to know the location of and map your storm water facilities including their outfalls.		
Provide mapping of University-owned drainage system			A	All university owned storm water conveyance systems (12 inch and larger) including inlets, catch basins and manholes must be located. Update maps as applicable.	Yes	
Summarize used oil and toxics programs	15	II.D.5		Proper vehicle and equipment maintenance generates used fluids, such as oil, that must be disposed of properly. University maintained records must show if these maintenance procedures are performed on-site or at off-site facilities.	Yes	
Summarize used oil and toxics programs			N/A	Describe the disposal process that the university utilizes for waste oil or other used fluids.	Yes	
II.F CONSTRUCTION SITE RUN-OFF CONTROL						
Compliance with Rule 5	19	II.F.1		The Indiana Department of Environmental Management has adopted Rule 5 which affects construction sites one acre in size and larger. An NOI requirement is included in Rule 5. The City of Indianapolis has adopted Chapter 600 entitled "Erosion Control" which adopts Rule 5 by reference. The university and its contractors must comply with both Rule 5 and Chapter 600.	N/A	The University of Indianapolis does not inspect its construction sites. This is the responsibility of the contractors.
Submit NOIs to DCE			A	The University or its contractor must submit NOIs to IDEM for all projects that disturb at least one acre of land.		
Training program for construction site inspectors	20	II.F.7		University may attend DPW provided trainings for construction site inspectors and plan review staff.	Yes	
Construction site inspection program	20	II.F.8		Construction site inspector training is required. The City of Indianapolis often offers inspection classes. Utilize the Indianapolis DCE inspectors where possible.		
Continue a self-inspection program for construction sites			A	The university will operate a construction site self-inspection program for compliance with the terms of NPDES permit No. INS04001 Part II, A.1.e., and Section 602.8 of Chapter 600 of the City of Indianapolis, Department of Public Works (DPW) Storm Water Design and Construction Specifications Manual, using its own trained inspectors. The City will continue to operate its existing program to implement Chapter 600 which provides specific requirements for certain types of new construction as detailed in Chapter 561 of the Indianapolis City Code.	N/A	The University of Indianapolis uses contractors for construction. The contractors are expected to comply with self-inspection program requirements. In addition, a link will be added to the Undy Facilities website.
Provide a self-inspection monitoring program			A	Enter into a written agreement with either the City or the Marion County Soil and Water Conservation District to have the self-inspection program monitored.	N/A	

NPDES MS4 Requirements
for Universities and Colleges
Permit No INS04001

Please initial and insert date completed in appropriate space
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Compliance Schedule For Indianapolis' NPDES Municipal Separate Storm Sewer System Permit

Permit Action Item	Page	Section	Completion Date	Action Item Description	Action Item Completed (Yes/No)	Comments
II.G PUBLIC EDUCATION AND OUTREACH						
Encourage public reporting of problems	22	II.G.1		The university must publicize the appropriate phone numbers and other means of contact when storm water runoff pollution problems are identified.		
Develop fliers/signs with number to report/call			A	The university will develop fliers and/or posters that explain how to identify and report illegal dumping or pollution if observed.	Yes	The University of Indianapolis has a link on their website that explains how to identify and report illegal dumping or pollution if observed.
Educate students/staff about NPS pollution	22-23	II.G.4 & 6		Provide information on storm water pollution prevention, including proper disposal of items such as used fluids, paper, and other materials to students, staff, and contract employees. Use Indianapolis fliers where possible.		
Develop distribute materials/signs			A, D	Develop and distribute information on proper disposal and pollution prevention.	Yes	The University of Indianapolis has a link on their website that explains how to identify and report illegal dumping or pollution if observed.
III.B REPORTING REQUIREMENTS						
Provide information to DPW for annual reports	32-33	IV.A.3		The City as required to submit an annual report to IDEM that details progress made on permit compliance. The university must put together data/information regarding each individual item above and catalog this data/information into a organized, readable format. The data/information and completed checklist information then be submitted to DPW by October 31.		
Begin assembly of information for annual report			A, D	Begin pulling information together before October 1 for delivery to DPW by October 31.	Yes	
Complete checklist and submit to DPW by October 31			A	The data/information and completed checklist information then be submitted to DPW by October 31.	Yes	

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NPDES MS4 Requirements
for Universities / Colleges
Permit No INS040001

12/09/14
4 of 4



117 275th Street, Suite 200, Mack Centre
317.916.1177 Fax: 317.916.1178 Email: info@amack.com

October 26, 2017

Mark Adams
University of Indianapolis
1400 East Hanna Avenue
Indianapolis, Indiana 46229

Re: Annual Indianapolis DPW MS4 Report
University of Indianapolis
Indianapolis, Indiana
August Mack Project Number JR1946240

Dear Mr. Adams:

August Mack Environmental, Inc. (August Mack) has completed the annual report for the University of Indianapolis as required by the Indianapolis Department of Public Works (DPW) for the Indianapolis Municipal Separate Storm Sewer System (MS4) permit. Please review the report. If this report meets with your approval, please sign the report in the appropriate locations. Please keep one copy for your records, keep one copy for August Mack's records, and e-mail one scanned copy to Ms. Kathy Allen and Ms. Catherine Flaszewski of the city of Indianapolis DPW at Kathy.Allen@indy.gov and Catherine.Flaszewski@indy.gov, respectively, at your earliest opportunity.

If you have any questions, please do not hesitate to contact us at 317.916.8000.

Sincerely,

Thomas B. Coffin
Compliance Manager

Anthony Herdey
Senior Compliance Manager

Enclosure





2012-2013 2014 www.augustmack.com
1101 N. W. 10th Street, Suite 1000, Ft. Lauderdale, FL 33304-4000

October 26, 2016

Ms. Kathy Allen
Indianapolis Department of Public Works
2000 City County Building
300 E. Washington Street
Indianapolis, Indiana 46204

Re: Annual Indianapolis DPW MS4 Report
University of Indianapolis
Indianapolis, Indiana
August Mack Project Number JR1946210

Dear Ms. Allen:

August Mack Environmental, Inc. (August Mack), on behalf of the University of Indianapolis, is submitting the annual report as required by the Indianapolis Department of Public Works (DPW) for the Indianapolis Municipal Separate Storm Sewer System (MS4) permit. This annual report covers the time period from October 1, 2016 through September 30, 2017. The University of Indianapolis will be addressing the deficiencies over the following year to ensure that action items are completed in accordance with the checklist. The certification statement is provided in Attachment A. The water salt usage is provided in Attachment B. The checklist is provided in Attachment C.

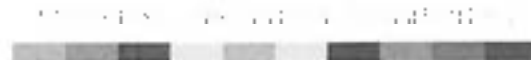
If you have any questions, please do not hesitate to contact us at 317-916-8000.

Sincerely,

Thomas R. Griffin
Compliance Manager

Anthony Hendley
Senior Compliance Manager

cc: Catherine Flaszewski, Indianapolis Department of Public Works



ATTACHMENT A
Certification Statement

**Certification of Compliance with NPDES Permit Number INS040001
University of Indianapolis**

The University of Indianapolis is designated as an entity covered by the National Pollutant Discharge Elimination System (NPDES) municipal separate storm sewer system (MS4) permit that has been issued. Under the terms of NPDES permit number INS040001 and through a Memorandum of Understanding with the City of Indianapolis, the University of Indianapolis certifies the following:

The University of Indianapolis does not perform street sweeping but does pick up trash on a daily basis and spot cleans as needed.

The University of Indianapolis wash facility, located inside the Physical Plant Building, discharges into the sanitary sewer after passing through oil and sediment separators.

The University of Indianapolis outsources its pesticide and fertilizer application to certified vendors and oversees those vendors with a university-employed certified applicator.

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The University of Indianapolis complies with the City of Indianapolis's permitting procedures.

Certification:

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 gather and evaluate 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 above statement 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.



Mark Adams
Director of Maintenance
University of Indianapolis

ATTACHMENT B
Winter Salt Usage

Winter Salt Usage

The University of Indianapolis uses salt throughout the campus, as follows. The university typically salts after removing snow to prevent falls and/or accidents. The university used 70,000 pounds of Ice Melt on the 10 miles of sidewalks and steps.

ATTACHMENT C
Annual Report Checklist

Compliance Schedule For the 2009 Municipal Separate Storm Sewer System Project

Project Activity Item	Page	Section	Completion Date	Anticipated Start Date	Anticipated End Date	Anticipated Duration
1. Obtain all necessary permits for construction of the storm sewer system.	1	1.01				1.01
2. Obtain all necessary permits for construction of the storm sewer system.	2	2.01				2.01
3. Obtain all necessary permits for construction of the storm sewer system.	3	3.01				3.01
4. Obtain all necessary permits for construction of the storm sewer system.	4	4.01				4.01
5. Obtain all necessary permits for construction of the storm sewer system.	5	5.01				5.01
6. Obtain all necessary permits for construction of the storm sewer system.	6	6.01				6.01
7. Obtain all necessary permits for construction of the storm sewer system.	7	7.01				7.01
8. Obtain all necessary permits for construction of the storm sewer system.	8	8.01				8.01
9. Obtain all necessary permits for construction of the storm sewer system.	9	9.01				9.01
10. Obtain all necessary permits for construction of the storm sewer system.	10	10.01				10.01
11. Obtain all necessary permits for construction of the storm sewer system.	11	11.01				11.01
12. Obtain all necessary permits for construction of the storm sewer system.	12	12.01				12.01
13. Obtain all necessary permits for construction of the storm sewer system.	13	13.01				13.01
14. Obtain all necessary permits for construction of the storm sewer system.	14	14.01				14.01
15. Obtain all necessary permits for construction of the storm sewer system.	15	15.01				15.01
16. Obtain all necessary permits for construction of the storm sewer system.	16	16.01				16.01
17. Obtain all necessary permits for construction of the storm sewer system.	17	17.01				17.01
18. Obtain all necessary permits for construction of the storm sewer system.	18	18.01				18.01
19. Obtain all necessary permits for construction of the storm sewer system.	19	19.01				19.01
20. Obtain all necessary permits for construction of the storm sewer system.	20	20.01				20.01

Project Name: 2009 Municipal Separate Storm Sewer System Project

Project Number: 2009-001

City of San Francisco
Department of Public Works

Special Area Reports for Interjurisdictional Municipal Separate Storm Sewer System Report 1

Project Name	Page	Section	Completion Date	Author/Staff/Title	Number Completed	Comments
SECTION 1: GENERAL INFORMATION AND PROJECT DESCRIPTION						
1.1 PROJECT DESCRIPTION AND LOCATION	1	1.1				
1.2 PROJECT LOCATION AND MAPS	2	1.2				
1.3 PROJECT DESCRIPTION AND SCOPE	3	1.3				
1.4 PROJECT LOCATION AND MAPS	4	1.4				
1.5 PROJECT DESCRIPTION AND SCOPE	5	1.5				
1.6 PROJECT LOCATION AND MAPS	6	1.6				
1.7 PROJECT DESCRIPTION AND SCOPE	7	1.7				
1.8 PROJECT LOCATION AND MAPS	8	1.8				
1.9 PROJECT DESCRIPTION AND SCOPE	9	1.9				
1.10 PROJECT LOCATION AND MAPS	10	1.10				
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1.86 PROJECT LOCATION AND MAPS	86	1.86				
1.87 PROJECT DESCRIPTION AND SCOPE	87	1.87				
1.88 PROJECT LOCATION AND MAPS	88	1.88				
1.89 PROJECT DESCRIPTION AND SCOPE	89	1.89				
1.90 PROJECT LOCATION AND MAPS	90	1.90				
1.91 PROJECT DESCRIPTION AND SCOPE	91	1.91				
1.92 PROJECT LOCATION AND MAPS	92	1.92				
1.93 PROJECT DESCRIPTION AND SCOPE	93	1.93				
1.94 PROJECT LOCATION AND MAPS	94	1.94				
1.95 PROJECT DESCRIPTION AND SCOPE	95	1.95				
1.96 PROJECT LOCATION AND MAPS	96	1.96				
1.97 PROJECT DESCRIPTION AND SCOPE	97	1.97				
1.98 PROJECT LOCATION AND MAPS	98	1.98				
1.99 PROJECT DESCRIPTION AND SCOPE	99	1.99				
2.00 PROJECT LOCATION AND MAPS	100	2.00				

Project Name and map are subject to change without notice.

Scale: 1" = 100 feet. North arrow pointing up.

DATE: 10/15/2024
 BY: [Name]
 PROJECT: [Project Name]

APPENDIX II.B – Pollution Prevention, Operations and Maintenance

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Maintenance Facilities SOP



Storm Water National Pollutant Discharge Elimination System (NPDES) Permit Document

Summary

City-owned and/or operated vehicle maintenance garages, material and equipment storage areas, fueling stations, stockpiles and parking lots (referred to as “facilities” throughout this SOP) that meet the criteria set forth in this Standard Operating Procedure (SOP) are inspected and cleaned as necessary to decrease the areas’ potential to discharge pollutants into the storm sewer system. Debris, oil, sediment, trash and other contaminants that enter the storm water drainage system can pollute waterways within the City. Inspections not only check for potential polluting situations, but also for confirmation of good housekeeping practices and best practices for material storage control, vehicle leaks and spill control, and illicit discharge control.

Permit Requirement

The City of Indianapolis is required by the Indiana Department of Environmental Management (IDEM) to comply with the EPA’s National Pollutant Discharge Elimination System (NPDES) Stormwater Phase I permit program.

Permit INS040001 Section II.B requires the continued implementation of the previously approved Standard Operating Procedures (SOPs) for *Vehicle Maintenance Area Inspection and Cleaning* and *Parking Lot Inspection and Maintenance* under the “Pollution Prevention, Operations and Maintenance.”

This SOP, as approved by the Indiana Department of Environmental Management (IDEM), combines these two previously approved SOPs and replaces them with this single SOP. This approved SOP will continue to be implemented by the City in accordance with the criteria and schedule set forth in the SOP. Each annual report of the permit term, a summary of the inspections will be provided, which includes the number of inspections and annual cleanings conducted.

Responsibilities

Each department is responsible for ensuring that inspection and cleaning of its facilities are performed in accordance with this SOP, and thereby in compliance with the City’s permit. Operations managers that are responsible for facilities will ensure that the SOP is followed and that information from the activities are entered into Infor Public Sector (InforPS). Facility managers at each of the facilities will be responsible for:

- Conducting regular spot-checks and quarterly inspections.
- Completing the quarterly inspection checklist and ensuring that the information is entered into InforPS.
- Overseeing the inspection-generated and annual cleanings and recording the cleaning in InforPS.



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Maintenance Facilities SOP



Criteria

Maintenance garages, maintenance yards, stockpile areas and parking lots that meet both of the criteria below are subject to this SOP.

1. City-owned or city operated if the lease agreement includes maintenance of the facility. This includes parcels owned or operated by a city department, and excludes city corporations.
2. One or more of the following activities occur at the facility.
 - Trash is collected in large containers such as slide off dumpsters (30 CYD size or larger) or a trash compactor is located at facility.
 - Materials such as soil, mulch, tree debris, stone, asphalt millings, etc. are stockpiled or handled for longer than two (2) weeks at the facility.
 - City-owned equipment and/or vehicles such as snow plows, fire trucks, solid waste trucks, lawn mowers, etc. are washed or maintained at the facility.
 - City-owned equipment and/or maintenance vehicles such as abandoned vehicles, solid waste trucks, snow plows, lawn mowers, etc. are stored and/or exposed to stormwater at the facility.
 - Salt and or other snow and ice fighting material/chemical is stored or handled at the facility.
 - Chemicals used for City operations are stored or handled such as herbicides, pesticides, fertilizers, paints, etc. at the facility.
 - City-owned vehicles are refueled at the facility.

Inventory

The following list of maintenance facilities meets the above criteria. For inspection purposes the SOP/Inventory date, listed in the footer of the SOP, should be current with the year of inspection(s).

	Asset ID	Facility Name	Address	Discharge	Spot Check	Responsible
1	C007	IFS Riverside	1651 W 30th Street	Both	Monthly	DPW Operations Division
2	C008	IFS Belmont	2551 S Belmont	MS4	Monthly	DPW Operations Division
3	ABV	Abandoned Vehicle Lot	2551 S Belmont	MS4	Weekly	Business and Neighborhood Services
4	SOLID	Solid Waste Garage	2520 Hudnut Blvd	MS4	Monthly	DPW Operations Division
5	1735 S WEST	West Street Traffic	1735 S West Street	CSO	Weekly	DPW Operations Division
6	1725 S WEST	West Street Streets and Chip Yard	1725 S West Street	MS4	Weekly	DPW Operations Division
7	TOXDROP	West Street Tox Drop	1725 S West Street	CSO	Weekly	DPW ERMD
8	BROOKSIDE	21st and Sherman	3915 E 21st Street	MS4	Weekly	DPW Operations Division
9	BLM	32nd and Shadeland – Parks	6820 E 32nd Street	MS4	Monthly	DPW Operations Division



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10	FOR	32nd and Shadeland – Forestry	6810 E 32nd Street	MS4	Monthly	DPW Operations Division
11	PRD2	34th and Shadeland	6825 E 34th Street	MS4	Weekly	DPW Operations Division
12	MLK	MLK Garage	2001 Dr MLK Street	CSO	Weekly	DPW Operations Division
13	TP	Traders Point	7550 N Lafayette Road	MS4	Weekly	DPW Operations Division
14	5PTS	Five Points	7110 South Troy Ave	MS4	Monthly & Daily Winter Operations	DPW Operations Division
15	65TH	65th Street Salt Barn	5370 E 65th Street	MS4	Monthly & Daily Winter Operations	DPW Operations Division
16	174951	Thatcher Maintenance	4702 Rockville Road	MS4	Weekly	DPW Parks Maintenance
17	125951	Southeastway Park Maintenance	5624 S Carroll Road	MS4	Weekly	DPW Parks Maintenance
18	PRD1	Eagle Creek Park Maintenance	6840 W 62nd Street	MS4	Weekly	DPW Parks Maintenance
19	SBBROOK	Brookside Salt Barn and Lot	1901 North Olney	MS4	Monthly & Daily Winter Operations	DPW Operations Division
20	PRD3	Garfield Park Maintenance	430 E Southern Ave	Both	Weekly	DPW Parks Maintenance
21	ACC	Animal Care & Control	2600 S Harding St	TBD	Weekly	Business and Neighborhood Services

The following facilities are temporarily leased as needed during winter months.

1	TIBBS SB	North Tibbs Salt Barn	50 N Tibbs Ave	MS4	Monthly & Daily Winter Operations	DPW Operations Division
2	TIBBS	South Tibbs Salt Barn	6800 S Tibbs Ave	MS4	Monthly & Daily Winter Operations	DPW Operations Division

Parks Department

Surface parking lots within parks do not meet the above criteria, and are therefore not subject to the SOP. The Parks Department completes regular inspections more frequently than required by the permit. These inspections reports are available but are not considered subject to the SOP and will not be reported annually.



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Indianapolis Fire Department (IFD)

IFD Stations do not meet the above criteria, and are therefore not subject to the SOP. The IFD has a separately established quarterly inspection SOP. These inspections are not subject terms of this SOP and will not be reported annually.

Inventory Updates

The function of operations facilities including stockpile areas, parking lots and yards may be altered from time to time with the operations needs of the Department(s). DPW Operations and other Departments will review the criteria in July of each year for the purpose of review and completing updates to the inventory of facilities listed by and subject to this SOP. These updates should include the addition or subtraction of facilities to be inspected and the responsible department.

DPW Assistant Administrator of Operations shall verify that the inventory has been reviewed and updated and that a SWPPP has been prepared or updated for each facility listed in the inventory. An updated SOP and inventory will be issued annually and distributed to responsible Department staff.

Stockpiles

Materials such as soil, mulch, brush, etc. may be temporarily stockpiled for no more than six months at facilities listed on the inventory. If a material stockpile is needed for two weeks or less, such as mulch in parks, those stockpiles may be located on public facilities not on the inventory.

All stockpiles, regardless of facility or timeframe, must be placed away from storm water facilities such as storm inlets or creeks and have adequate perimeter protection such as silt fence or containment berm. When soil is anticipated to be stockpiled for more than two weeks, it shall be seeded and mulched or otherwise covered to prevent erosion.

When possible, materials shall be disposed of properly such as in a landfill and not stockpiled.

Inspection Schedule

The inspection program is comprised of two (2) on-going inspection protocols; spot-checking and quarterly inspections. The inspection programs and their scheduled frequencies are described in the following paragraphs.

Regular Spot-checks

Facilities operations managers routinely spot-check their areas for trash, debris, and leaks and spills. Following the initial inspection and cleaning, facility managers will continue to spot-check their areas using the attached inspection form. During the inspections they will be looking for sediment, debris, new leaks, stains, oil build-up, trash and other pollutants. Facility managers will address problems such as leaking stored vehicles and containers and will arrange for clean-up of spills and leaks as required under this SOP (see Facilities Cleaning). Facility managers can concentrate their regular inspections on known problem-prone areas such as places where routine maintenance occurs or where vehicles are parked in storage.

The frequency of the regular spot-check may be flexible depending on the facility's activities. For example, facilities with daily activities with high potential for pollutants may require daily spot checks.



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Seasonal facilities, such as salt barns, may require daily spot checks during a snow event and on salt delivery days and monthly spot checks year round. Weekly spot checks may be appropriate for other facilities.

Quarterly Inspections

These inspections will be carried out and reported quarterly during the following months:

- January – March
- April – June
- July – September
- October – December

For thorough quarterly inspections, facility managers will complete a copy of the inspection checklist attached to this SOP during each inspection.

Inspection Processes

Regular Spot-checks

During regular spot-check inspections, scan the facility for spills, leaks, and oil build-up. Check that storage areas and containers are not leaking fluids. Scan the facility for litter and debris. Litter and debris might have collected on the top of drains or grates. If there is an accumulation of litter and debris, it should be removed and disposed of properly. A brief look at areas where vehicles are stored, where vehicles stand with engines running, where litter receptacles are located, and where minor maintenance of vehicles usually takes place should be performed. If you see litter, oil, antifreeze, or other vehicle fluid by a stored or parked vehicle, it indicates a leak from the vehicle. Leaks from stored vehicles must be fixed to prevent further pollution as soon as possible. Leaks and spills must be cleaned so that spilled materials do not enter the storm drain. If you identify a spill or leak, remove the material prior to the next expected precipitation event, if at all possible. Use dry cleaning methods when possible to remove leaked or spilled fluids. Do not wash pollutants into a storm drain. Follow the Environmental Resources Management Division (ERMD) spill procedures if a spill or leak meets the reporting requirements for ERMD. ERMD 24-hour Dispatch contact number is 317-327-1620. During spot-checks pay particular – but not exclusive – attention to areas where problems have been identified in recent inspections. Check stockpiles for evidence of erosion, need for seed/straw and/or perimeter protection.

Quarterly Inspections

Walk the entire facility checking for litter, debris, spills, leaks, and oil build-up, as required by the inspections checklist. Move vehicles so that parking and storage areas can be examined. Remove litter and debris, and clean up spills and leaks with the same process as spills and leaks that are identified in spot-checks. Follow ERMD spill procedures if a spill or leak meets the reporting requirements for ERMD. ERMD 24-hour Dispatch contact number is 317-327-1620. Check stockpiles for evidence of erosion, need for seed/straw and/or perimeter protection.

Cleaning Frequency

The facilities inspection and maintenance program is comprised of two on-going cleaning protocols; periodic and annual cleaning. The cleaning frequencies are described in the following paragraphs.



Maintenance Facilities SOP



Spot Check Cleaning

Facilities managers will address minor cleaning during spot-check inspections such as trash pickup, clean-up of minor spills and leaks, hand sweeping, etc. If more clean-up effort is required, the facilities manager shall arrange for the appropriate clean-up.

Annual Cleaning

Maintenance facilities will be thoroughly cleaned at least once each year but may be as often as quarterly as determined by the quarterly inspection. This cleaning includes all areas that meet the criteria and are listed in the inventory above. Parked or stored vehicles will have to be temporarily relocated so that the entire area can be cleaned. Materials swept, cleaned up, and collected from the annual cleaning will be disposed of properly.

Special Circumstances

Annual cleaning and periodic cleaning of debris, spills, and leaks identified through inspections should reduce polluted runoff from City maintenance facilities. Special circumstances may require that a facility be thoroughly cleaned more frequently than once a year. These circumstances include the following:

- If a facility has an unusually high volume of vehicles and the amount of debris, spills, and leaks that are identified in spot-check and/or quarterly inspections seem to demand cleaning on a regular basis, it may be necessary to clean the entire lot more than once a year. The day-to-day practices at such a facility will be examined to ensure that stormwater pollution prevention practices are being followed.
- If an unusual event such as a flood or a large spill deposits a large amount of debris or other material onto the parking lot, it will be cleaned up as soon as possible.

Facilities Cleaning

The proper methods and procedures to clean vehicle maintenance facilities and yards should be taken to prevent stormwater pollution. At a minimum, litter, debris, spills, leaks, drains, grates, and oil water separators should be properly addressed during site inspections. Below are descriptions of the correct methods of cleaning the facilities.

Litter and Debris

Litter and debris such as paper, cups, food, and other trash should be removed from the facilities. Debris such as leaves, grass clippings, twigs, branches, or other trash or debris should also be removed from the facility. Most litter and debris should not be hazardous and can be disposed of in ordinary solid waste containers.

At least once a year, the entire maintenance facilities and vehicle yard should be cleaned and swept thoroughly either by staff (inside maintenance facility), DPW or private contractor. A record should be kept indicating how much material is removed from the maintenance facilities and vehicle yard during this cleaning.

Spills and Leaks

If spills or leaks are found, contain the spill or leak, if necessary, to prevent it from entering the storm drain. Report spills according to ERMD Spill Procedure. If the leak is so small that it does not have to be reported to ERMD, use dry cleaning methods to remove the spilled material. Address leaks



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immediately to prevent further pollution. For instance, if a vehicle is leaking, have the vehicle repaired. Do not wash the spilled or leaked material with water.

Oil Spots and Stains

If spots or stains from leaking automotive fluids are found steps should be taken to prevent residual oil, antifreeze, or gasoline from entering the storm drainage system. In some cases, it may be possible to remove the spots using dry cleaning methods. In other situations, it may be necessary to use steam cleaning methods to remove the residue from the spot. Do not wash the spilled or leaked material with water.

Drains, grates, and oil water separators

Drains, grates, and the oil/water separators in the facility should be cleaned when they contain oil, grit, litter, and/or debris that prevent them from working properly. If they drain to the storm water system, they should be cleaned out frequently to prevent the discharge of pollutants to the storm water system.

Record Keeping

A key component of the inspection and maintenance program is record keeping and annual reporting to IDEM. The maintenance facility inspection and cleaning program record keeping process is described in the following paragraphs.

Spot checks, quarterly inspections and all cleaning information should be kept in the facility SWPPP. In addition, all inspections, including cleaning information, will be entered into InforPS for the purpose of documenting the City's compliance with its permit.

DPW ERMD will inspect facilities operated by the Department of Business and Neighborhood Services (BNS) and enter those inspections into InforPS. ERMD will note cleanings performed and/or recommended on the inspection form and forward the inspection form to BNS staff.

Spot Check Inspections and Cleanings

Log the spot check inspections and cleanings using the facility ID in InforPS using activity code FACSPOT and the project code NPDES. The spot check inspection form, including cleaning activities noted, shall be uploaded to InforPS and kept in the facility SWPPP.

Quarterly Inspections and Annual Cleanings

Log the quarterly inspections and cleanings using the facility ID in InforPS using activity code FACLOT and the project code NPDES. The inspection form shall be uploaded to InforPS and attached to the inspection log. The inspection form shall note any cleaning activities. Each facility shall be thoroughly cleaned at least once per year.

DPW Operations Quality Control Coordinator shall review the information submitted in InforPS two weeks prior to the end of each quarter. The responsible person listed for those facilities that have not yet recorded the quarterly inspections will be sent a notice, copying their manager, to complete the inspection and update InforPS prior to the end of each quarter.



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Best Management Practices

Pollution prevention best management practices (BMPs) should be utilized on a daily basis by all employees. These practices are important to incorporate into a daily routine and can prevent many incidents of stormwater pollution occurring. The following BMPs: staff training, good housekeeping practices, materials management, spill prevention and preventive maintenance, are described below.

Staff Training

Staff training on stormwater pollution prevention is an effective method of controlling pollution that can originate from maintenance facilities. Awareness of this SOP's requirements should be the minimal level of training provided to staff that work in or utilize the facilities listed in the inventory. Specific instruction on cleaning and responding to spills should be provided to staff as appropriate.

Good Housekeeping Practices

Keeping the workplace clean and free of debris and litter is a universally applicable best management practice for stormwater pollution prevention. Loose debris and litter that is exposed to stormwater and that is not otherwise removed from the facility could be washed into the drainage system.

Materials Management

Materials management goes hand in hand with good housekeeping as a management practice. Materials should be stored so as not to create a spill potential, or pedestrian or vehicular traffic hazard. All materials should be identified and labeled properly to avoid unnecessary confusion of the material.

Spill Prevention

Spill prevention includes making certain that spillable materials are properly managed, including: providing secondary containment for aboveground storage tanks and drums; providing drip pans for vehicles that are awaiting service that have leaking oils, antifreeze, fuel or other fluids; providing spill response materials to cleanup leaks and spills; training; and signage. Spill prevention may also include structural measures, such as providing concrete-filled steel bollards in areas where vehicles or other mobile equipment will approach generators, fuel dispensers or storage tanks to prevent accidental damage to the facilities.

Maintenance Facilities SOP



Quarterly Inspection Form

Maintenance Facilities Inspection and Cleaning Checklist		
Location:		Inspector Name:
		Date and Time:
Inspection Item	Yes / No / NA	Comments
Is the maintenance facility generally clean (interior and exterior)?		
Are spills, debris, litter, and oil-dry cleaned up and properly disposed of?		
Are stored new and used vehicle fluids, including above-ground storage tanks free from leaks?		
Are the maintenance facility and vehicle yard free from oil build-up?		
Are dumpsters covered?		
Are stockpiles stabilized (seed/straw), have perimeter protection and are not eroding?		
Is the vehicle yard free of reportable (to ERMD) leaks or spills?		
Is the vehicle yard free of new, small (non-reportable) leaks or spills?		
Are outdoor and indoor grates, drains, and the oil/water separator (if applicable) free from oil build-up, grit, and dirt?		
Other Problems:		
If any of the above items were answered "No," list actions to clean parking lot and date completed below:		
<u>Action</u>	<u>Date Completed</u>	
<u>Annual Cleaning Date</u>	<u>Amount of Debris Removed (Approximate)</u>	

Activity Code: FACLOT Project Code: NPDES



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Spot Check Inspection Form

Stormwater NPDES Compliance

These tasks should be performed by Operations and Maintenance staff on a regular basis in order to maintain a safe, clean environment for employees as well as protect stormwater quality.

Facility Name: _____

Daily

Date: _____

Weekly

Employee Name: _____

Monthly

Other

Completed	Not Completed	Not Needed	N/A	
				Place all trash in proper receptacles. Pick up any litter, and ensure that outdoor trash receptacles are covered.
				Keep fuel site clean and clean up any spills. Ensure that a spill kit is available at the fuel site. Ensure that fuel site secondary containment plugs are closed.
				Place drip pans under any leaking equipment.
				Keep fluid barrels on secondary containment. Keep the areas surrounding fluid barrels clean and free of debris. Use oil dry to clean up any chemical spills.
				Dispose of spent oil dry in spent oil dry container.
				Ensure that stormwater inlets are clean and free of debris (debris should be picked up and placed in trash receptacle, not pushed down the inlet).
				Sweep any salt in parking lot back into salt barn, and check for any holes in salt barn walls and roof.
				Sweep parking lot.

Comments or Concerns: _____

*Submit to supervisor to be placed in the SWPPP and in Infor PS.

Activity Code: FACSPOT

Project Code: NPDES

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MEMO

INDIANAPOLIS DEPARTMENT OF PUBLIC WORKS



TO Kathy Allen, NPDES Permit Compliance

FROM Benjamin Easley, Project Manager

DATE August 24, 2017

SUBJECT 8/23/17 Storm Drain Marking Event Recap– NPDES Compliance

On August 23, 2017, the Indianapolis Department of Public Works partnered with volunteers from the Marion County Public Health Department to adhere “No Dumping” markers to storm drain inlets on the south side of Indy, in order to remind passers-by that the inlet “drains to stream”.

DPW’s GIS staff prepared maps showing the unmarked stormwater assets in 13 areas, and volunteers used construction adhesive to attach the blue “No Dumping” markers to these assets. Volunteers indicated on their paper maps which assets they had marked, and these maps have now been turned back into GIS in order to update DPW’s records of marked storm drains.

An estimated 33 volunteers from Marion County Public Health Department participated in the event, including brief instructions and an explanation of how this event contributes to DPW’s water quality efforts. Many of the volunteers had participated in similar events in the past.

An estimated 184 inlets were marked with the “No Dumping” marker, many which had never been marked in past storm drain marking events.

A post-event questionnaire was completed by 22 volunteers. In response to the questions, all indicated that—after completing the event—they have: a better understanding of the City’s stormwater sewers as a complex infrastructure system; a greater awareness of stormwater infrastructure in their everyday lives; and, a belief that education on water quality issues leads to personal action to improve water quality. Many suggested that the City of Indianapolis could better educate citizens on water quality issues via social media, traditional advertising channels, integration with public schools, informational public events, and perhaps even with educational materials in Indy residents’ Citizens Energy Group bill.

The @IndyDPW Twitter account tweeted 4 times about the event using 3 event photos and 1 event video. The tweets consistently used the hashtags “#stormwater”, “#waterquality” and “#indy”; Marion County Public Health Department was twice included via the @Marion_Health handle. In total, the tweets about the event were ‘re-tweeted’ 12 times and ‘liked’ 22 times by Twitter users such Mayor Joe Hogsett, Keep Indianapolis Beautiful, the Little Flower neighborhood, and Marion County Department of Public Health; this interaction garnered 5710 impressions from Twitter users.



MEMO

INDIANAPOLIS DEPARTMENT OF PUBLIC WORKS – ENGINEERING



TO: Kathy Allen, NPDES Compliance
FROM: Ben Easley, DPW Stormwater Outreach
DATE: October 23, 2017
SUBJECT: Storm Drain Marking event recap from October 21, 2017

On October 21, 2017, the Indianapolis Department of Public Works partnered with student volunteers during the IUPUI Day of Caring to adhere “No Dumping” markers to storm drain inlets on the near west side of Indy, in order to remind passers-by that the inlets “drains to stream”.

DPW’s GIS staff prepared maps showing the unmarked stormwater assets in 6 areas near James Foster Gaines Park, and volunteers used construction adhesive to attach the blue “No Dumping” markers to these assets. Volunteers indicated on their paper maps which assets they had marked, and these maps have now been turned back into GIS in order to update DPW’s records of marked storm drains.

An estimated 35 IUPUI student volunteers participated in the event, which included a brief educational session, instructions on how to mark a storm drain, and an explanation of how this event contributes to DPW’s water quality efforts. Few, if any, of the volunteers had participated in a similar event in the past.

An estimated 435 inlets were marked with the “No Dumping” marker, many which had never been marked in past storm drain marking events.

A post-event questionnaire was completed by 34 volunteers. In response to the questions, all indicated that—after completing the event—they have: a better understanding of the City’s stormwater sewers as a complex infrastructure system; a greater awareness of stormwater infrastructure in their everyday lives; and, a belief that education on water quality issues leads to personal action to improve water quality. Many suggested that the City of Indianapolis could better educate citizens on water quality issues via social media, traditional advertising channels, integration with public schools, and further informational public events.

The @IndyDPW Twitter account posted 7 tweets during the event using 3 event photos and 3 event videos. Content included pictures of the volunteers and 2 videos of students explaining the process of marking a storm drain. The tweets consistently used the hashtags “#stormwater”, “#waterquality”, and “#IUPUIDOC”. IUPUI was included 5 times via the @IUPUI handle, which was then often retweeted by IUPUI Community Service and Civic Engagement (@IUPUICSCE). In total, tweets about the event were ‘re-tweeted’ 8 times and ‘liked’ 39 times by Twitter users such IUPUI Chancellor Nasser Paydar, Keep Indianapolis Beautiful, Herron and Riverside high schools, and Indy Parks, as well as other Indy residents. Tweets about this event from the @IndyDPW handle garnered 4,775 impressions from Twitter users.





Department of Public Works

NPDES Stormwater Compliance Training for Channel Maintenance 2017



What is NPDES?



- National Pollutant Discharge Elimination System
- US Environmental Protection Agency (EPA)
- Clean Water Act
- Originated in 1972



Our NPDES Permit



- City – MS4 NPDES Permit
- Indiana Department of Environmental Management (IDEM)
- Violations / Fines

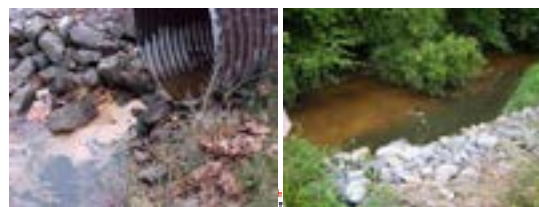


DPW

What is Stormwater Pollution?



- Rainwater Collects Pollutants from Surfaces
- Polluted Water Travels to Waterways
- Storm Sewer System



DPW

Causes of Stormwater Pollution



- Industrial waste
- Littering
- Material Storage
- Construction Sites
- Parking Lots and Streets
- Herbicides and Pesticides



Open Channel and Ditch Inspections

- **Litter and Debris:**

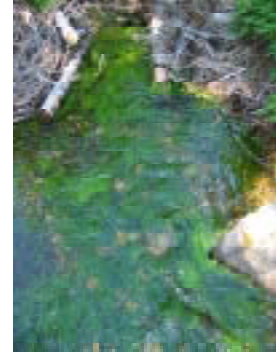
- Litter Present?
- Schedule Clean-up



Open Channel and Ditch Inspections

- **Unusual Algal or Bacterial Growth:**

- Algae and bacteria can indicate the presence of chemicals or nutrients



Open Channel and Ditch Inspections

- **Blockage of Flow or Potential for Blockage:**

- Note location of trees, limbs and large debris
- Could it block the flow or catch on bridges or other obstruction?



Open Channel and Ditch Inspections

- **Dead or Overgrown Vegetation:**

- Excessive vegetation
- Could it block or impede flow?



Open Channel and Ditch Inspections

- **Scour:**

- Underwater Erosion
- Found around pilings or spillways
- Probing with a rod can be used to detect and approximate the extent of scour



Open Channel and Ditch Inspections

- **Eroded Areas:**

- Note the location and extent of erosion



Open Channel and Ditch Inspections

- **Excessive Sediment Build-Up:**

- Note the location of areas in the stream where sediment has built up and impeded flow
- Note the locations of areas that bridge or culvert capacity is effected



Open Channel and Ditch Inspections

- **Illicit or suspicious discharges:**

- Any discharge that does not appear to be from rain
- Dry weather flows
- Wastewater
- Soapy
- Discolored
- Sheen
- Odor
- Warm water in winter
- Melted ice, green vegetation





What Do You Do if You Find a Possible Illicit Discharge?

- Call ERMD at 327-1620 (Central Dispatch)
- Discuss with supervisor
- Take photos



Conditions that Require Maintenance or Cleaning

- Blocked Flow
- Altered Flow
- Debris or Sediment
- Scour / Erosion that Threatens Safety or Property
- Water Quality
 - Litter
 - Illicit Discharges



Maintenance and Cleaning

- Remove Dead Trees
- Keep Roots / Vegetation for Stability



Maintenance and Cleaning

- Materials removed should be transported away from banks and properly disposed of



Maintenance and Cleaning

- Restore / Stabilize Site
 - Rip rap
 - Erosion Control Blanket
 - Seed / Mulch



Record Keeping

- Complete Inspection Form
- Return to Supervisor (include Photos)
- Daily Work Logs for Maintenance
- Debris or Sediment Removed Tracked by Weight
- Information Entered into Infor



Herbicide Use

- Follow Label Instructions
 - Use near waterways
- Licensed Applicators
- Levees
 - Vegetation for Stability
- Public Relations



Channel and Ditch Maintenance Best Management Practices (BMPs)

- Staff Training:
 - NPDES Permit Requirement
 - SOP Awareness at Minimum
 - New staff



BMPs

- Spill Prevention:
 - Materials (fuel, lubricants, chainsaws, etc.) are Contained:
 - Secondary Containment
 - Spill Kits
 - Label containers
 - **What supplies do you need?**



BMPs

- Good Housekeeping:
 - Do not spill when refueling
 - Fix leaking equipment
 - Dispose of Trash / Materials Properly
 - Remove Unused Materials
 - Stabilize Disturbed Areas
 - Clean and Report Spills



BMPs

- Preventative Maintenance
 - Prevent Leaking Equipment
 - Fix Leaking Equipment



Permanent Stockpile Locations

- Not in Floodplains if possible
- Erosion Control
 - Seed and mulch
 - Cover
- Sediment Control
 - Silt Fence
 - Filter Socks



BMPs

- When Possible:
 - Keep Vehicles out of Channels
 - Keep Vehicles off of Banks
 - Remove Material from Bridges or from Tops of Stream Banks



Erosion Control Blanket



Silt Fence

- Trenched in
- Maintained
- Sheet Flow



Inlet Protection

- Maintainable without Dropping Sediment into Storm Drain
- Overflow



Inlet Protection



When do you need a permit?

Section 401/404 Permit

A permit is needed:

- Equipment in or crossing waterway
- Material placed or removed
 - Riprap placement
 - Pipes for crossing
 - Removing or replacing culvert
- Work in the Ordinary High Water Mark



Section 401/404 Permit

A permit is needed:

- Disturbing wetlands
 - Water present
 - “Weird” plants
 - Low area
 - Spongy soil

Section 401/404 Permit

A permit is NOT needed:

- No wetlands present
- “One Scoop Method”
 - No equipment in water
 - Work from banks
 - Material removed from site
 - Adding no materials (riprap, etc)

CIF Permit

- Construction in a Floodway
 - One square mile + watershed
 - Cannot disturb ground without a permit
 - Cut trees
 - Leave stumps / to stabilize soil
 - Remove trees

Rule 5 Permit

- One acre + land disturbance
- Follow Storm Water Pollution Prevention Plan (SWPPP)

Permits

Follow all permit conditions

- Pump around
- Shape of channel
- Stabilize slopes
- Timeframe
- Post permit



Questions?



Monthly Stormwater Topics for Operations and Maintenance

- January: Remember to sweep salt into salt barn and not to let salt reach inlets.
- February: Remember to use oil dry to clean up spills and dispose of spent oil dry in designated container only.
- March: Keep spill kits handy at fuel stations in case there is a spill. Only use spill kits for cleaning up spills, not as a trash receptacle.
- April: Remember to keep outdoor trashcans closed and cover dumpsters at the end of the day or while it is raining.
- May: Remember to report leaking equipment to get repaired as soon as possible.
- June: Remember to use secondary containment for chemicals, even while in your truck or on a mower.
- July: Remember to read the label when using chemicals. Do not use chemicals near surface water unless the label specifies that it is safe for use near surface waters. I.e. water-safe herbicides.
- August: Remember to dispose of chemicals properly – contact ToxDrop if necessary.
- September: Report clogged storm inlets on streets if you see them while driving around the city.
- October: Wash equipment in wash bay whenever possible. If wash bay is not available, then in a bermed area or in grassy area away from surface waters.
- November: Remember only to throw trash away in proper receptacles as litter can pollute waterways and clog storm inlets.
- December: Remember to place drip pans under any parked leaking equipment.
- Alternate: Keep plugs intact and doors closed on hopper.

Monthly Sustainability Topics for Operations and Maintenance

- January: When leaving a building, make sure doors shut completely behind you to prevent wasting heat energy.
- February: Check the air filter and fluid levels on your vehicle to keep it running as efficiently as possible, and check tire tread wear for safety.
- March: Maintain healthy trees when mulching by keeping mulch away from the crown or base of the tree.
- April: When cleaning out your home or workplace, recycle as much as possible, donate reusable items, and take hazardous waste or electronics to ToxDrop.
- May: If a Knozone Action Day is called for tomorrow, make sure to fill gas and diesel gas tanks today to lessen your impact on days with poor air quality.
- June: Remember to protect your skin from harmful UV rays by wearing a hat, sunblock and long sleeves when possible.
- July: If applying pesticide, first ensure the area is not protected for native plants and animals. Minimize overspray and wear proper protective gear. Only use the necessary amount of any chemicals.
- August: ToxDrop also accepts most unwanted or broken electronics to be e-cycled.
- September: As you finish out construction season, remember to follow all safety protocols and properly dispose of hazardous waste. Contact ToxDrop if necessary.
- October: While washing equipment, remember to turn off the hose or faucet when not in use to conserve water.
- November: Recycle paper, plastic and glass objects when possible.
- December: Check the tire pressure of all equipment and add air as necessary to maintain optimal gas mileage.



NPDES Compliance Guidelines (Good Housekeeping)

- Label chemicals
- Use secondary containment
- Pick up trash
- Repair leaking equipment ASAP and use drip pans to catch leaks until they are repaired
- Get rid of any items not being used - contact ToxDrop if necessary
- Clean up oil spills and leaks ASAP using oil dry. Dispose of spent oil dry in a labeled container that is only used for spent oil dry
- Contain salt within barns as much as possible
- Label drains and keep them clean
- Keep spill kits handy in case there is a spill
- Cover dumpsters and trashcans that are outside
- Wash trucks/equipment in wash bay or wash area



NPDES Training Photos

What is wrong with these photos from an NPDES standpoint?

1



2



3



4



APPENDIX II.C – Post-Construction Stormwater Run-off Controls

II.C.2.a Best Management Practices SOP

191



Standard Operating Procedures

Public Post-Construction BMP Inspection and Maintenance

Maintaining an adequate stormwater conveyance system is a priority for the City of Indianapolis (City) Department of Public Works (DPW).

Regular inspection and maintenance of City-owned post-construction water quality Best Management Practices (BMPs) is important for the long-term functionality of the BMPs for water quality improvement. As part of the City’s stormwater management program, BMPs are to be inspected and maintained regularly.

Compliance Requirement

The City of Indianapolis is required by the Indiana Department of Environmental Management (IDEM) to comply with the EPA’s National Pollutant Discharge Elimination System (NPDES) Stormwater Permits Program via the INS040001 individual permit.

These Standard Operating Procedures for Post-Construction BMP Inspection and Maintenance address a requirement of the “Post-Construction Storm Water Run-off” section of the permit.

The standard operating procedure requirement is as follows:

- II.C.2. Establish policy and procedures regarding implementation of the Post-Construction Storm Water Run-off Control component that will include:
 - a. Develop and/or evaluate existing inspection policy and procedures of the maintenance and long-term functionality (quality and quantity) of post-construction storm water systems.

Responsibilities

The City of Indianapolis, DPW Operations Division (OD) is responsible for inspection and maintenance of City-owned property, including post-construction BMPs. The City has contracted with Citizens Energy Group (CEG) to perform inspection and maintenance activities on City-owned Stormwater Quality Units (SQU). Adjacent property owners are responsible for regular maintenance, such as mowing, required on hybrid ditches. All other BMP types are the responsibility of DPW OD.

DPW Engineering is responsible for updating the Stormwater GIS layer and Infor Public Sector (InforPS) with Post-Construction BMPs as they are installed.

OD GIS Analyst shall forward an updated list of City-owned Post-Construction BMPs to the Operations Division Deputy Director and CEG by January 31 annually.

Stormwater National Pollutant Discharge Elimination System (NPDES) Permit Document



Training

Persons responsible for inspection shall attend annual training as required by the NPDES permit. Training shall be administered by the OD Training Center Manager with content provided by manufacturers, OD Supervisors, Engineering, city partners or other sources.

Safety

Many BMPs are located within the public right-of-way and on or near travel lanes. During inspection and cleaning activities, personnel shall maintain traffic as necessary to provide a safe zone around the BMP area. Traffic cones, attenuators, flashing vehicle safety lights or other safety measures shall be placed prior to beginning inspection or maintenance activities in compliance with OD Traffic Control Manual and applicable OSHA regulations for Maintenance of Traffic.

Personal protective equipment (PPE) such as reflective vests, safety glasses, etc. as necessary or required per the O&M manual shall be used. No person shall enter into a confined space without proper confined entry training, credentials, PPE and other requirements.

Operation and Maintenance Manual

The responsible person shall read the Operations and Maintenance (O&M) manual provided by the manufacturer and stored with the asset in InforPS for instruction on maintenance and cleaning. If no O&M manual is on file, he/she shall download an O&M manual from the manufacturer's website and attach the file to the asset in InforPS. Manufacturer's instructions, including safety measures, shall be followed.

Preparation for Inspection

In preparation for inspections crews will:

- *Background materials:* Obtain and review the BMP Operations and Maintenance Manual.
- *Confirm location:* Confirm location of BMP in field within five (5) meters accuracy.
- *Asset identification:* Determine and confirm the asset identification number and that it conforms with the Asset ID naming convention and other GIS standards.
- *Support resources and equipment:* Assemble necessary resources and equipment to carry-out inspection.
- *Citizen complaints:* Check InforPS for any citizen complaints associated with the BMP such as trash, blockages, or overall function.

Illicit Discharges

If illicit discharges such as sewage, industrial waste, chemicals, etc. are suspected at any time during inspections or maintenance operations, call DPW Environmental Resources Management Division (ERMD) immediately at 317-327-1620 (Central Dispatch) and report the location and characteristics (smell, appearance) of the discharge.



Inventory

The City of Indianapolis DPW maintains an inventory of post-construction water quality BMPs in its stormwater GIS layer. City-owned BMPs are identified by asset IDs in the City's GIS and InforPS database. The City completes updates to the inventory as capital projects, which include city-owned BMPs and related capital outputs, are constructed and placed in operation.

Stormwater Quality Units (SQU)

Inspection Frequency

Stormwater Quality Units (SQU) such as hydrodynamic separators and similar structural BMPs generally located underground in structures are inspected annually. If excessive sedimentation is noted on a particular SQU, the inspection frequency may be increased to twice annually (or as recommended by the inspector).

Inspection

During inspections, crews will use the attached checklist and identify:

- *Asset ID*: Note the asset number of the structure. Use street names or landmarks to provide a better description, as necessary.
- *Blockage of flow or potential for blockage*: Note if storm sewer flows are blocked or there is a potential for blockage by debris, sediments, etc.
- *Sediment buildup*: Using a sediment stick, sludge judge or similar sediment measuring tool or device, the inspector shall estimate the depth of sediment buildup within the structure.
- *Floatables*: Check for floatables such as oils and trash.
- *Illicit or suspicious discharges*: Suspicious discharges might be any discharge that does not appear to be from rain, for example: dry weather flows, wastewater, soapy water, discolored water, water with a sheen, or water with an odor.

Conditions that Require Maintenance or Cleaning

The inspector shall comply with the Operations and Maintenance (O&M) manual provided by the manufacturer to determine specific conditions that require maintenance and or cleaning. As a general rule or in lack of more specific information the following conditions should be used to determine if the BMP requires maintenance:

- *Sediment buildup*: maintenance shall be performed when sediment and other debris accumulation is effecting the intended function of the unit.
- *Floatables buildup*: maintenance shall be performed when floatables accumulation is effecting the intended function of the unit.
- *Regular cleaning*: regardless of the amount of sedimentation, floatables and other captured pollutants, each unit shall be cleaned at least once every five years.

Debris Disposal

Debris shall be disposed of in a landfill or other appropriate facility.



Mapping Update of Asset

Inspector shall provide SQU location updates to OD GIS representative and confirm location update has been completed. OD GIS shall verify that asset meet the naming convention standard and make updates as needed.

Record Keeping

The responsible person shall record all inspections and cleanings in the City's asset management database, InforPS.

- *Inspections:* The inspection shall be recorded in InforPS using the BMPINSPECTION activity code and the NPDES project code. Inspection reports shall be attached to the asset in InforPS in the *Inspection* module.
- *Cleanings:* Cleanings shall also be recorded in InforPS using the BMPCLEAN activity code and project code NPDES.

Pervious Pavement

Cleaning

Pervious pavements shall be cleaned quarterly with a vacuum sweeper per the schedule below. Sweep 1 and Sweep 4 may fall slightly outside of the specified months if weather conditions such as snow and/or ice preclude sweeping activities. It is important to perform Sweep 4 after the majority of the leaves have fallen but prior to winter snow fall.

- Sweep 1: February/March (as weather allows)
- Sweep 2: June
- Sweep 3: September
- Sweep 4: November/December (as weather allows)

Using the Elgin Whirlwind Sweeper, the driver shall sweep at low speed (approximately 1 mph) along the curb edge, in order to remove debris on and within the gaps surrounding the pavers.

Debris Disposal

Debris shall be disposed of in a landfill or other appropriate facility.

Inspection

During quarterly maintenance of pervious pavement, the condition of the system is inspected for overall functionality. The operator shall verify no sediment remains on the surface of the pavers after each sweep.

The City relies on citizens to report areas of standing water and general non-function of the system. If the system does not function after scheduled maintenance, the City will determine maintenance necessary to return the system to its intended function.

Stormwater National Pollutant Discharge Elimination System (NPDES) Permit Document



The pervious pavement shall be inspected annually by the OD Assistant Administrator (or delegate) using the attached inspection form. These inspections shall be coordinated to occur within a few days after a quarterly cleaning, and preferably with no rain events between the cleaning and inspection.

The following conditions should be used to determine if the pavement requires maintenance:

- *Sediment buildup*: if sediment remains after quarterly sweeping, the inspector shall note unstable upstream conditions such as erosion. The inspector shall also verify with the supervisor that the quarterly sweeping was performed.
- *Missing pavers or infiltration stone*: the inspector shall note if all pavers are generally level, no notable heaving or sinking, none missing or broken, and overall functional and if there is adequate filtration stone between pavers as designed.
- *Infiltration rate*: the inspector may test the infiltration rate of the pavers in a few locations that appear to be low or otherwise accumulate the most sediment.

Record Keeping

The responsible person shall record all inspections and cleanings, including attaching the inspection form, in the City's asset management database, InforPS. A work order shall be generated for repairs such as missing or broken pavement. If the infiltration rate is slower is suspected to be insufficient, the inspector shall notify the Stormwater Program Manager within the DPW Engineering Division.

- *Cleanings*: Cleanings shall be recorded in InforPS using the SWEEP activity code and NPDES project code with log type PAVEDRAIN.
- *Inspections*: Inspections shall be recorded in InforPS using the IN9 activity code and NPDES project code with log type PAVEDRAIN. The inspection form shall be uploaded to InforPS.

Regional Stormwater Basins

Inspection Frequency

Regional stormwater basins are inspected annually by the OD Channel Maintenance Assistant Administrator (or delegate). If reoccurring maintenance concerns are observed such as outlet structure blockages or standing water in dry basins, the inspection frequency may be increased to twice annually (or as recommended by the inspector).

An abbreviated inspection is performed by the mowing crews during mowing maintenance. These inspections are not recorded in InforPS.

Annual Inspection

During annual inspections, the inspector shall use the attached checklist and identify:

- *Asset*: Note the asset number of the structure. Use street names or landmarks to provide a better description, as necessary.
- *Forebay*: If the basin has a forebay or similar pretreatment structure, check for accumulated sediment, debris, trash

Stormwater National Pollutant Discharge Elimination System (NPDES) Permit Document



- *Blockage of flow or potential for blockage:* Note if storm sewer flows are blocked or there is a potential for blockage by trash, debris, sediments, etc. on the outlet structure (orifice, weir, riser, emergency overflow), and downstream pipe or channel.
- *Vegetation:* Check for erosion and adequate vegetation on pond bottom (if dry basin), pond slopes, emergency overflow and downstream channel. Check for undesirable vegetation such as woody growth in channels and invasive species.
- *Animal burrows:* Note any animal burrows, beaver dams, etc.
- *Seeps/leaks:* Check for seeps, cracking, bulging on the downstream side of the basin. Also check for appropriate water levels (if wet basin).
- *Outlet structure:* Note any corrosion, cracks, spalling, broken parts, displaced riprap, etc. on the outlet structure and downstream pipe/channel.
- *Illicit or suspicious discharges:* Suspicious discharges might be any discharge that does not appear to be from rain, for example: dry weather flows, wastewater, soapy water, discolored water, water with a sheen, or water with an odor.

Maintenance

Regional stormwater basins are maintained per the O&M manual for each basin.

In cases where no O&M manual is on file, the basins are mown a minimum of twice during from May through October. Mowing crew shall remove trash and other debris and inspect the basin for overall function. The forebay (as applicable) shall be inspected and sediment removed as necessary. The outlet structure and channels shall also be inspected and obstructions removed.

Annual maintenance shall occur as needed after annual inspections. Repairs are noted on the inspection form and the inspector shall write the necessary work orders to perform repairs.

Debris Disposal

Debris shall be disposed of in a landfill or other appropriate facility.

Stormwater Basin Ingress and Egress

Crews shall access the drainage easements from the public rights-of-way and perform work only within the rights-of-way or drainage easements.

Record Keeping

The responsible person shall record mowings, annual inspections and repairs in the City's asset management database, InforPS.

- *Inspections:* Inspections shall be recorded in InforPS using the IN9 activity code and NPDES project code with log type BASIN. The inspection form shall be uploaded to InforPS.
- *Repairs:* Repairs shall be noted on the inspection form.

Stormwater National Pollutant Discharge Elimination System (NPDES) Permit Document



- *Mowing*: Mowing activities shall be recorded using the MOW code and asset ID. Contracted mowing activities shall be recorded by the contract administrator.

Green Infrastructure

Inspection Frequency

Green Infrastructure assets are inspected annually by the Land Stewardship Manager (or delegate) prior to the follow year contract scope development. Contracted maintenance crews inform the Land Stewardship Manager if concerns are discovered during maintenance activities.

Maintenance and Cleaning

Green infrastructure such as rain gardens and bioswales are maintained via a private contract.

- Year One:

New green infrastructure is hand weeded once per week for the first four weeks, then every two weeks for four weeks and then on an as needed basis through the end of the growing season. Trash is also removed as part of hand weeding and broadleaf foliar herbicide applied as needed. Plants are watered twice per week for the first four weeks, once every two weeks for four weeks and then on an as needed basis through the end of the growing season.

- Subsequent Years:

Green infrastructure is evaluated annually to determine maintenance needs for growing season. Annual maintenance includes weed management and trash removal six to twelve times during the growing season. This includes both hand weeding and broadleaf foliar herbicide as needed. Once each year, the native material is cut back and removed.

The contract includes as needed services including tree removal, planting of plants, plugs or seeds and mulching.

Record Keeping

Daily maintenance logs are kept in an Excel file and located on a GIS file. Annual inspections to be recorded in InforPS using the IN9 activity code and the NPDES project code.

Special Considerations

The City has executed maintenance agreements for many rain gardens, bioswales and other green infrastructure within the public right-of-way. Maintenance for these BMPs are the responsibility of the entity stated in each agreement. Citizens are encouraged to call the Mayor's Action Center line to report infrastructure concerns to the City.



SQU Inspection Form

City-owned Post-Construction BMP Inspection and Maintenance Checklist		
Location:		Inspector Name:
		Date and Time:
Inspection Item	Y / N / NA	Comments
Is the SQU asset number recorded in GIS correctly and in the correct location (within 5 meters)?		Note corrections needed:
O&M Manual attached to asset in InforPS?		
Is the SQU free of floatables, sediment and other debris?		Note amount removed:
Debris disposed of properly?		
Is the SQU and surrounding pipes free of obstructions?		
Is the SQU free of corrosion, spalling, cracks, broken parts and otherwise functional?		
Is the basin free of illicit discharges such as sewage, oily sheen, discoloration, odors, etc.?		
Other Problems:		
If any of the above items were answered "No," list work orders written and dates completed below:		
<u>Item above</u>	<u>Work Order Number</u>	<u>Date Completed</u>



Stormwater Basin Inspection Form

City-owned Post-Construction BMP Inspection and Maintenance Checklist		
Location:		Inspector Name:
		Date and Time:
Inspection Item	Y / N / NA	Comments
Is the basin asset number recorded in GIS correctly and in the correct location (within 5 meters)?		Note corrections needed:
O&M Manual attached to asset in InforPS?		
Is the forebay free sediment and other debris?		Note amount removed:
Is the outlet structure free of trash, debris, sediment or other obstructions? Is it working properly?		Note amount removed:
Is there adequate vegetation and generally free of erosion on the basin banks, emergency spillway and downstream channel?		
Is the basin free of unwanted woody vegetation or other unwanted species?		Note debris removed:
Are the structures free of corrosion, spalling, cracks, broken parts and otherwise functional?		
Is there adequate riprap or other channel protection?		
Is the basin free of animal burrows and obstructions?		
Is the basin free of illicit discharges such as sewage, oily sheen, discoloration, odors, etc.?		
Other Problems:		
If any of the above items were answered "No," list work orders written and dates completed below:		
<u>Item above</u>	<u>Work Order Number</u>	<u>Date Completed</u>



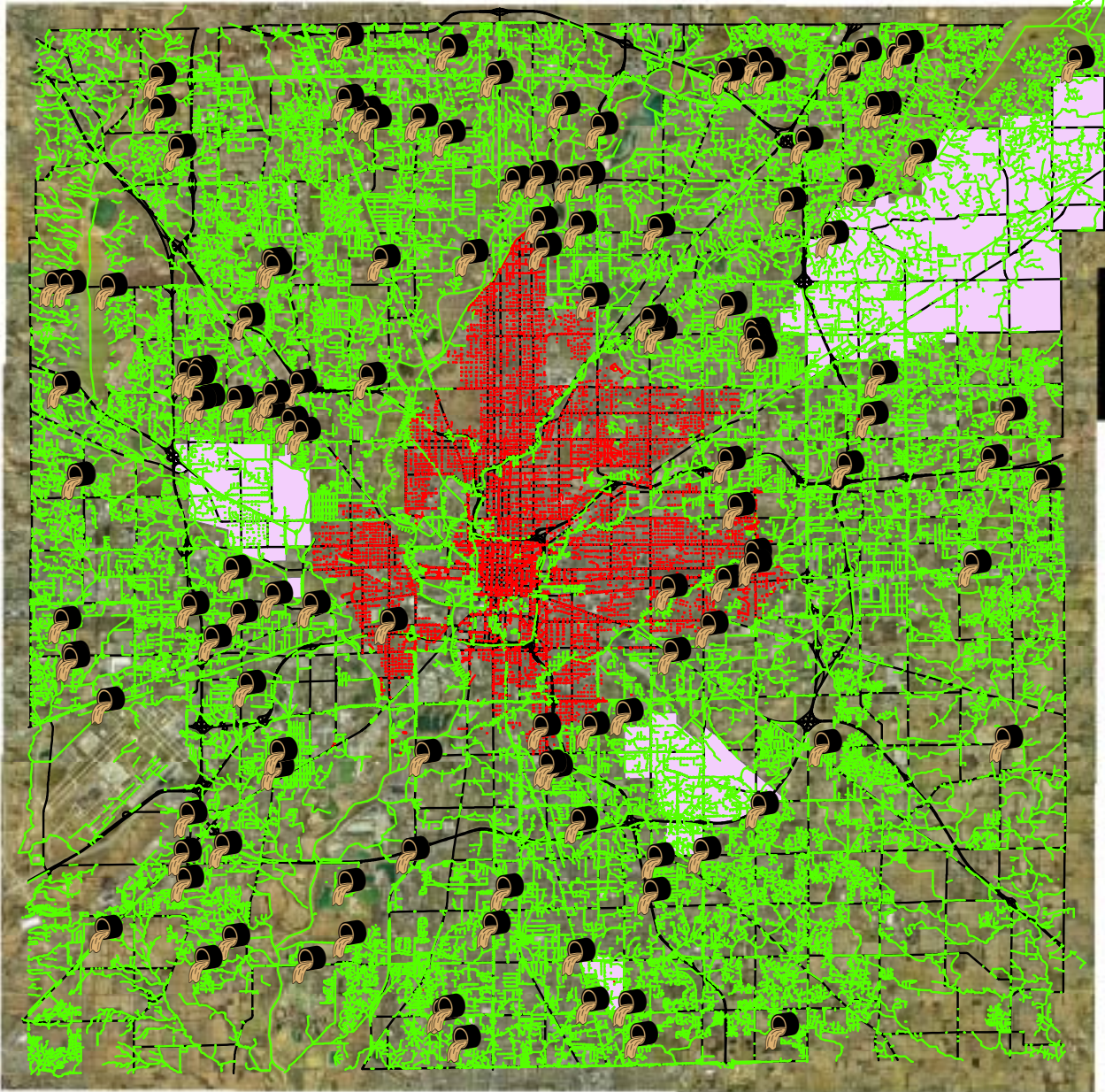
Permeable Pavement Inspection Form

City-owned Post-Construction BMP Inspection and Maintenance Checklist		
Location:		Inspector Name:
		Date and Time:
Inspection Item	Y / N / NA	Comments
Is the permeable pavement asset number recorded in GIS correctly and in the correct location (within 5 meters)?		
O&M Manual attached to asset in InforPS?		
Is the pavement free sediment and other debris?		
Is the underdrain free of debris, sediment or other obstructions? Is it working properly?		
Is there adequate vegetation near and upstream of the pavement?		
Is the pavement level (no heaving), and free of broken pavers, potholes, etc.?		
Is there adequate aggregate between the pavers as designed?		
Is the pavement free of evidence of illicit discharges?		
Is does water flow through pavement at 500 inches per hour (72 seconds) or faster? Note time in comments section.		
Other Problems:		
If any of the above items were answered "No," list work orders written and dates completed below:		
<u>Item above</u>	<u>Work Order Number</u>	<u>Date Completed</u>

APPENDIX II.D – Illicit Discharges and Improper Disposal

II.D.1.f	Sanitary Sewer Overflow	202
II.D.4	Marion County Public Health Department	205

Sanitary Sewer Overflows in MS4 Area 11/1/2015 through 10/31/2016



Legend



Sanitary Sewer Overflows 11/01/2015 through 10/31/2016

MS4

COMBO

— MS4

— Non-MS4

— Major Streets

Excluded Cities

Hazmat Release to Water Incidents Nov 1 2015 through

459983	12/15/2015	6648 S PERIMETER RD	Federal Express Corporation
459996	12/16/2015	6450 W HANNA AVE	CHEP Pallets
464458	3/23/2016	1720 W THOMPSON RD	Flying J Service Ctr
464501	3/25/2016	1801 N SENATE AVE	IU Health
464608	4/1/2016	5455 W 84TH ST	Welch Packaging Group, Inc.
464663	4/5/2016	1601 S ARLINGTON AVE	
465351	4/9/2016	2701 S EMERSON AVE	Shelby Materials
465510	4/19/2016	8850 RIVER BEND PKWY	Core Riverbend Apartments
465764	5/5/2016	1700 S. WEST ST.	
470391	7/11/2016	6007 PRAIRIE MEADOW DR	
470828	7/31/2016	8840 APPLEBY LN	
473222	10/7/2016	8128 ZIONSVILLE RD	RCE Indy
473577	10/13/2016	3302 S HARDING ST	Indiana Auto Auctions, Inc.
474740	10/27/2016	3970 W 10TH ST	Heritage-Crystal Clean, LLC

October 31 2016

Hazardous Materials	Release to Water	IDEM Spill Line	Open
Hazardous Materials	Release to Water	Jamie Miller	Closed
Hazardous Materials	Release to Water	Wayne Township Fire Dept.	Closed
Hazardous Materials	Release to Water	Amanda Sierp- IU Health	Closed
Hazardous Materials	Release to Water	Jamie IDEM OSC	Closed
Hazardous Materials	Release to Water		Closed
Hazardous Materials	Release to Water	Scott Frosch IDEM ER	Closed
Hazardous Materials	Release to Water	Scott Frosch	Closed
Hazardous Materials	Release to Water	Jeff Larmore	New
Hazardous Materials	Release to Water	Mike Zielinski	Closed
Hazardous Materials	Release to Water	Jay Tucker	Closed
Hazardous Materials	Release to Water	Scott Frosch	Closed
Hazardous Materials	Release to Water	Mark Stead	Closed
Hazardous Materials	Release to Water	Rob	New

**Marion County Public Health Department Responses within the City of Indianapolis MS4 Area
11 1 2016 to 10 31 2017 Reporting Period**

Sanitary Sewer Overflows

Sanitary sewer overflows (SSO) are reported to the Marion County Public Health Department by Citizens Energy Group, citizen complaints and through referrals from external agencies. The Marion County Public Health, Department of Water Quality and Hazardous Materials (DWQHMM) inspects the location of the overflow to determine the risk to public health and the environment and to ensure the responsible party implements actions to cease, correct and clean-up the overflow. To prevent future SSO at the same location, the DWQHMM will follow-up with the responsible party after the overflow has been cleaned up and corrected to ensure routine maintenance and monitoring is being implemented. For overflow locations where excessive fats, oils and grease has been introduced to the sanitary sewer system contributing to the overflow, the DWQHMM will distribute educational material such as the enclosed *Reducing Fats Oils and Grease in our Sewers* document from Citizens Energy Group.

For the reporting period of November 1, 2016 to October 31, 2017, the DWQHMM responded to **94 SSO** within the City of Indianapolis MS4 area. The DWQHMM responded to 127 SSO for the reporting period of November 1, 2015 to October 31, 2016. 5 repeat overflow locations were identified as occurring during both the “2016” and “2017” reporting periods:

- 10900 E Troy Avenue, SSO reported on 8/26/2016 and 5/25/2017
- 4900 to 5100 block of Pike Creek Lane, SSO reported on 4/11/2016 and 9/1/2017
- 3800 block of Marseille Road and 3900 block of Richelieu Road, SSO reported on 4/8/2016 and 5/5/2017
- 8500 block of One West Drive, SSO reported on 6/9/2016 and 1/31/2017
- 8600 block of Hague Road, SSO reported on 4/20/2016 and 4/19/2017

The overflow locations are provided for the “2017” reporting period and for both reporting periods on the enclosed maps.

Hazardous Materials Releases to Stormwater

The DWQHMM maintains a Hazardous Materials Environmental Response Team which works with local fire departments and other first responder agencies to ensure releases such as diesel fuel from an interstate semi-trailer crash are safely contained and cleaned up. During the response, the DWQHMM Hazmat Response Team ensures the responsible party and/or their designated contractor takes immediate actions to reduce and mitigate the impact to stormwater infrastructure and waters of the state.

For the reporting period of November 1, 2016 to October 31, 2017, the DWQHMM responded to **48** incidents wherein a hazardous materials release to MS4 infrastructure occurred. The enclosed map provides the locations of the hazardous materials release to MS4 infrastructure for the “2017” reporting period.

Reducing Fats, Oils and Grease in Our Sewers

What Is FOG?

Fats, oils and grease (FOG) are found in food scraps, meat fats, lard, oil, margarine, butter, sauces and dairy products. FOG is commonly associated with fried foods and baked goods prepared at home or in a food establishment. When FOG is not disposed of properly, it can clog your home's plumbing as well as city sewers.



Sewer pipe clogged with grease

Why Should FOG Matter To You?

When washed down a sink or drain, FOG builds up over time and can cause a blockage in your drains, pipes and in sanitary sewers. Blockages lead to increased costs to maintain private plumbing, our sewers, the wastewater treatment plants and public and private property.

- Neighborhood: Plumbing and sewer backups can result in property damage and various code violations. These backups can also create hazardous and unhealthy conditions.
- Environment: Clogged sewers can cause raw sewage overflows, which release untreated sewage into our rivers and streams. Sewer overflows make waterways unsafe for recreation, and they threaten the fish and other aquatic life that live in our rivers and streams.
- Quality of Life: Sewer backups and clogs attract insects and vermin, resulting in undesirable and unhealthy living conditions.

How Can You Reduce FOG In Our Sewers?

- Pour cooking fat or grease into a small container. Once it solidifies, place it in the garbage.

- Dispose of food waste in the trash or compost organic waste instead of putting it down the garbage disposal.
- “Dry wipe” pots, pans and dishes before washing to minimize the amount of FOG and solids washed down the drain.
- Do not put used oil, oil-based paints, solvents or other chemicals down sewer lines or storm drains. Dispose of them at an Indianapolis ToxDrop site. For a location, visit www.indy.gov/ToxDrop.
- Educate others on the damage that FOG can cause.



Pour cooking fat or grease into a small container. Once it solidifies, place it in the garbage.

How Does Indianapolis City Code Address FOG?

Section 17 of the Sewage Disposal Service Terms and Conditions states:

No person shall discharge or cause to be discharged to any city sewer...solid or viscous substances and/or other pollutants which may cause obstruction to the flow in a sewer...such as, but not limited to, grease. - Sec. 17.2.6

Spread The Word

Educating residents about proper disposal of FOG is a Citizens Water program, and you can help by sharing this information with friends and neighbors. Citizens Water is working hard to improve Indianapolis' water quality by informing residents and businesses of ways to reduce water pollution and improve quality of life for those who live and work here.

For more information on managing fats, oils and grease, visit www.CitizensWater.com or call (317) 631-1431.

Reducción De Grasas, Aceites Y Lubricantes En Nuestras Alcantarillas

¿Qué Es El FOG?

Las grasas, aceites y lubricantes (FOG) se encuentran en trozos de alimentos, grasas de carne, mantequilla, aceite, margarina, mantequilla, salsas y productos lácteos. El FOG es comúnmente asociado con alimentos fritos y productos horneados preparados en casa o en un establecimiento de comida. Cuando el FOG no es desechado correctamente, puede obstruir la plomería de su hogar, así como las alcantarillas de la ciudad.



Tubería de alcantarilla obstruida con grasa

¿Por Qué Le Debería Importar El FOG?

Cuando corre por un sumidero o un drenaje, el FOG se acumula con el tiempo y puede causar un bloqueo en los drenajes, tuberías y alcantarillado sanitario. Los bloqueos dan lugar al aumento de los costos para mantener la plomería privada, nuestras alcantarillas, las plantas de tratamiento de aguas residuales y las propiedades públicas y privadas.

- **Vecindad:** Los desbordamientos de plomería y alcantarillado pueden causar daños a la propiedad y diversas violaciones del código. Estas copias de seguridad también pueden crear condiciones peligrosas e insalubres.
- **Ambiente:** Las alcantarillas obstruidas pueden causar desbordamientos de aguas residuales, que liberan aguas residuales no tratadas en nuestros ríos y arroyos. Los desbordamientos de alcantarillado hacen inseguras las vías navegables para la recreación y amenazan los peces y otras formas de vida acuática que viven en nuestros ríos y arroyos.
- **Calidad de vida:** Los reboses y obstrucciones de alcantarillado atraen insectos y alimañas, lo cual da lugar a condiciones indeseables e insalubres.

¿Cómo Puede Reducir El FOG En Nuestras Alcantarillas?

- Vierta la grasa de cocina o el aceite en un recipiente pequeño. Una vez se solidifica, colóquelo en la basura.

- Descarte los desperdicios de alimentos en la basura o en desechos orgánicos de compostaje en vez de ponerlos en la trituradora de basura.
- “Limpie en seco” las ollas, cacerolas y vajillas antes de lavarlas, a fin de minimizar la cantidad de FOG y sólidos que corren por el desagüe.
- No ponga aceite usado, pinturas a base de aceite, disolventes o otros químicos en las líneas de alcantarillado o desagües pluviales. Descártelos en un sitio ToxDrop de Indianápolis. Para una ubicación, visite www.indy.gov/ToxDrop.
- Eduque a otros respecto al daño que el FOG puede causar.



Vierta la grasa de cocina o el aceite en un recipiente pequeño. Una vez se solidifica, colóquelo en la basura

¿Cómo Aborda El FOG El Código De La Ciudad De Indianápolis?

La Sección 17 de las Condiciones y Términos de Servicio de Eliminación de Aguas Residuales indica lo siguiente:

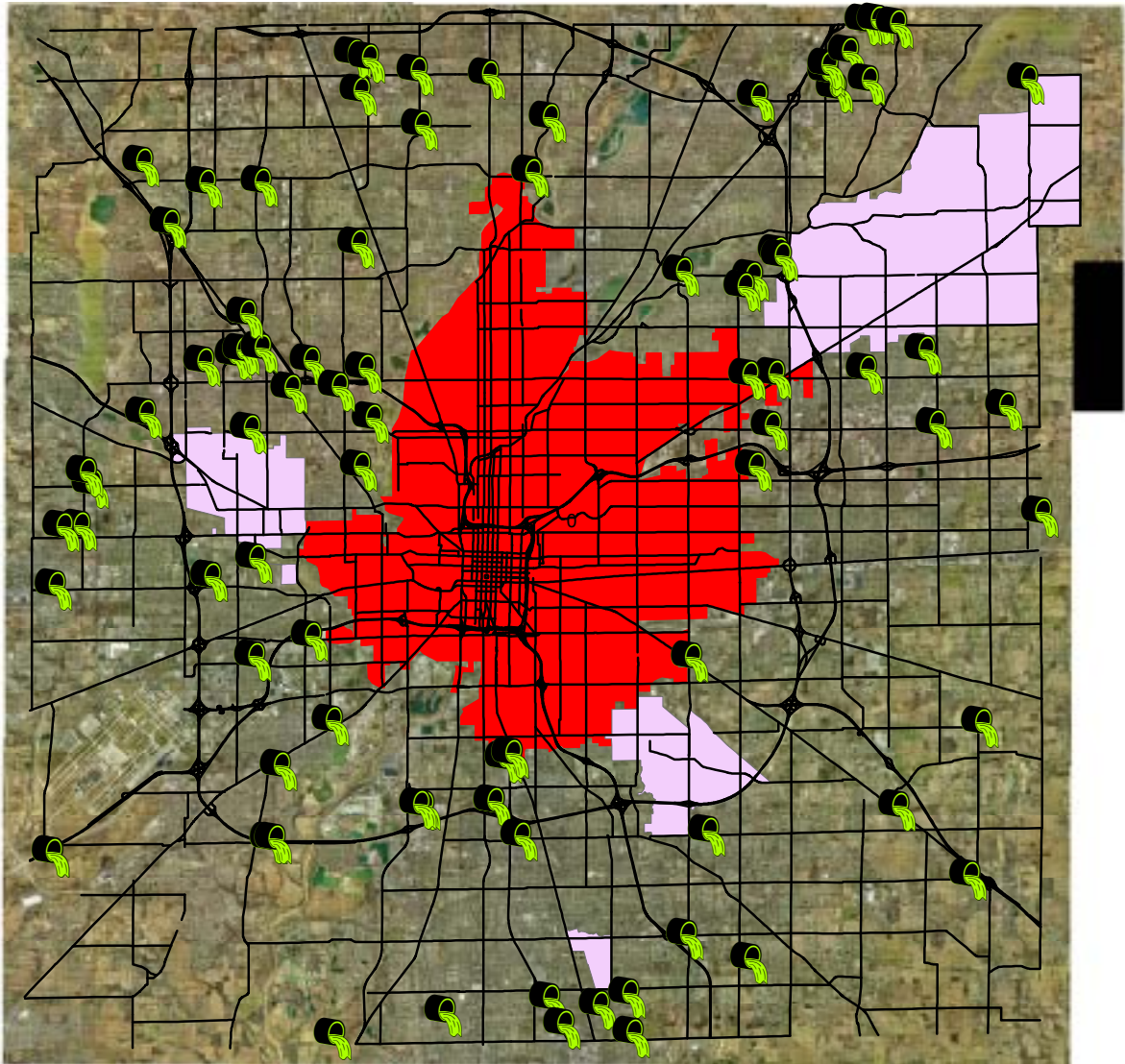
Ninguna persona descargará o hará que se descarguen en cualquier alcantarillado de la ciudad... sustancias sólidas o viscosas y otros contaminantes que puedan causar obstrucción del flujo en una alcantarilla... tales como, pero sin limitarse a, la grasa. - Sec. 17.2.6

Haga Correr La Voz





Educar a los residentes sobre la correcta eliminación del FOG es un programa de Citizens Water, y usted puede ayudar compartiendo esta información con amigos y vecinos. Citizens Water está trabajando duro para mejorar la calidad del agua de Indianápolis informando a los residentes y negocios sobre las formas de reducir la contaminación del agua y mejorar la calidad de vida para quienes viven y trabajan aquí.

Para obtener más información sobre la gestión de grasas, aceites y lubricantes, visite www.CitizensWater.com o llame al (317) 631-1431.

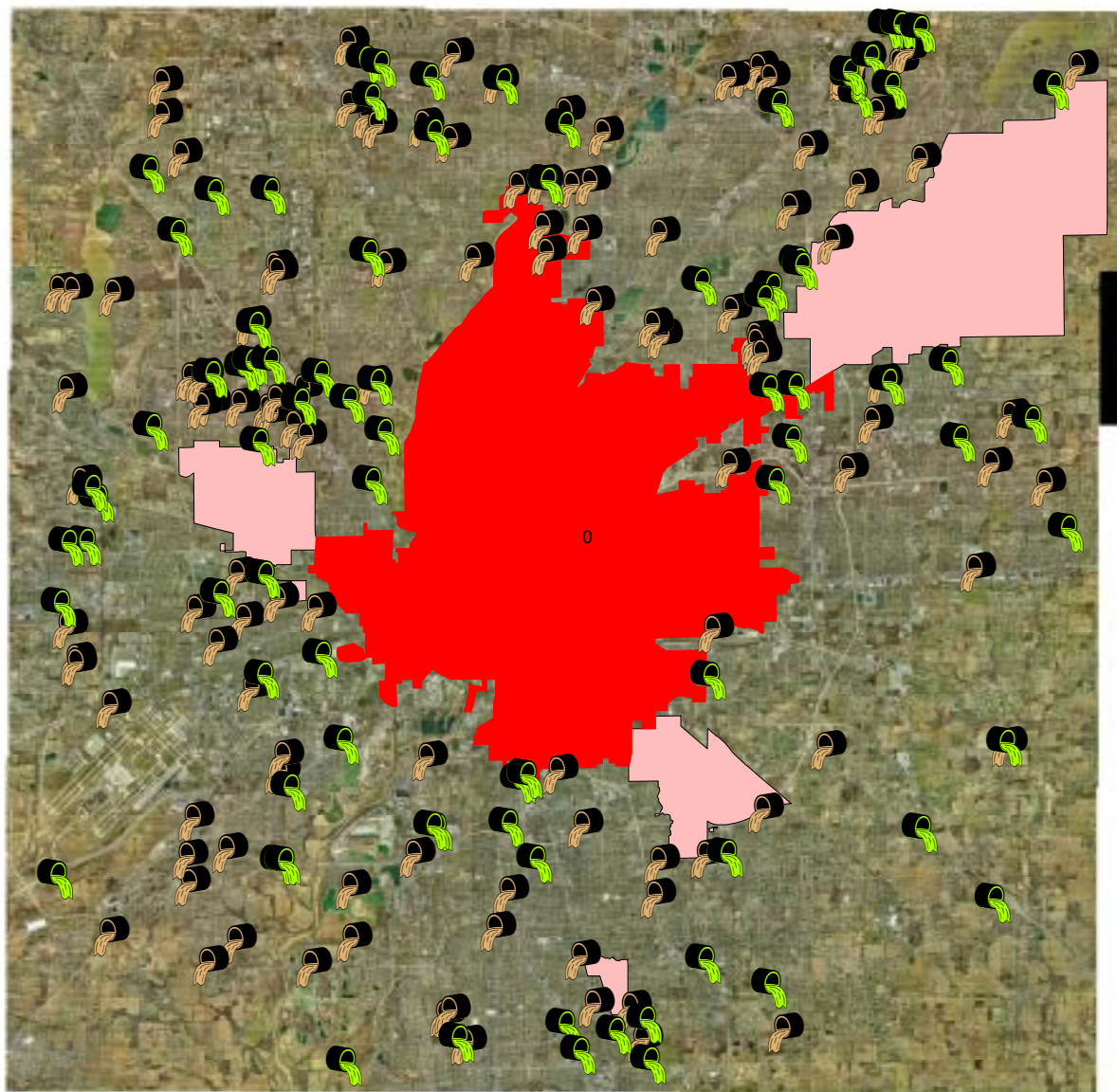
Sanitary Sewer Overflows to MS4 Area 11/1/2016 through 10/31/2017






Legend

-  Sanitary Sewer Overflows to MS4 Area 2016 to 2017
-  Major Streets
-  Excluded Cities
-  CSO Area

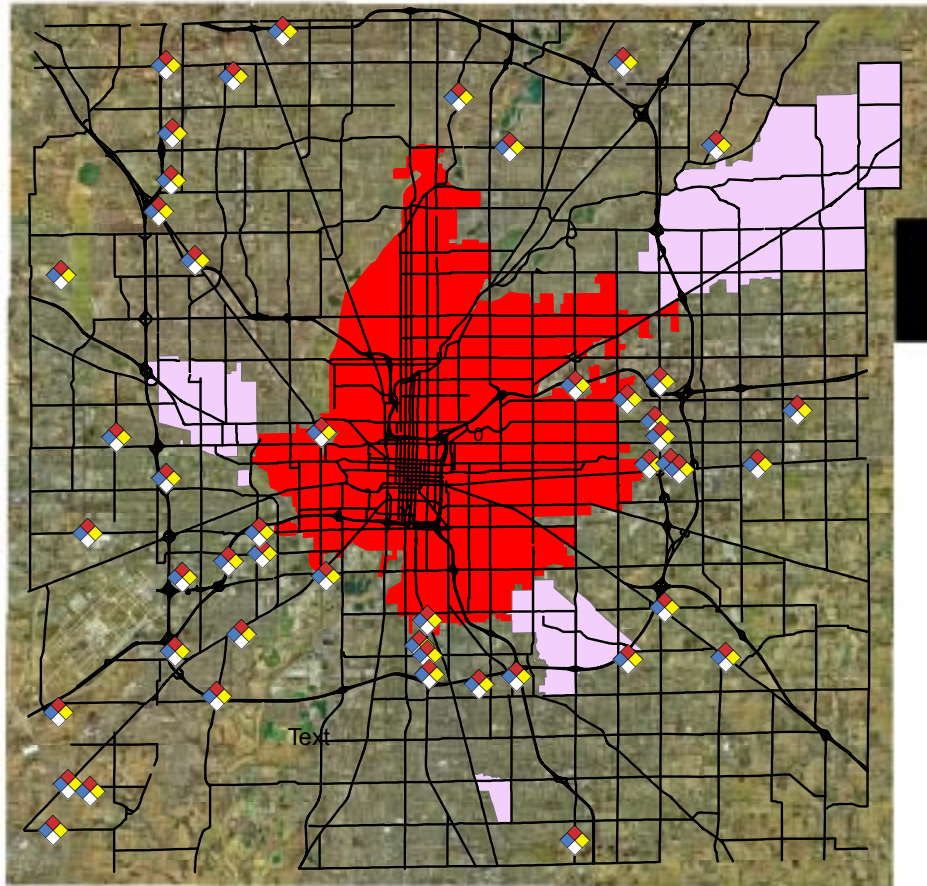
Sanitary Sewer Overflows to MS4 Area 11/1/2015 to 10/31/2017







Legend

-  Sanitary Sewer Overflows to MS4 Area 11 1 2016 to 10 31 2017
-  Sanitary Sewer Overflows to MS4 Area 11 1 2015 to 10 31 2016
-  CSO Area

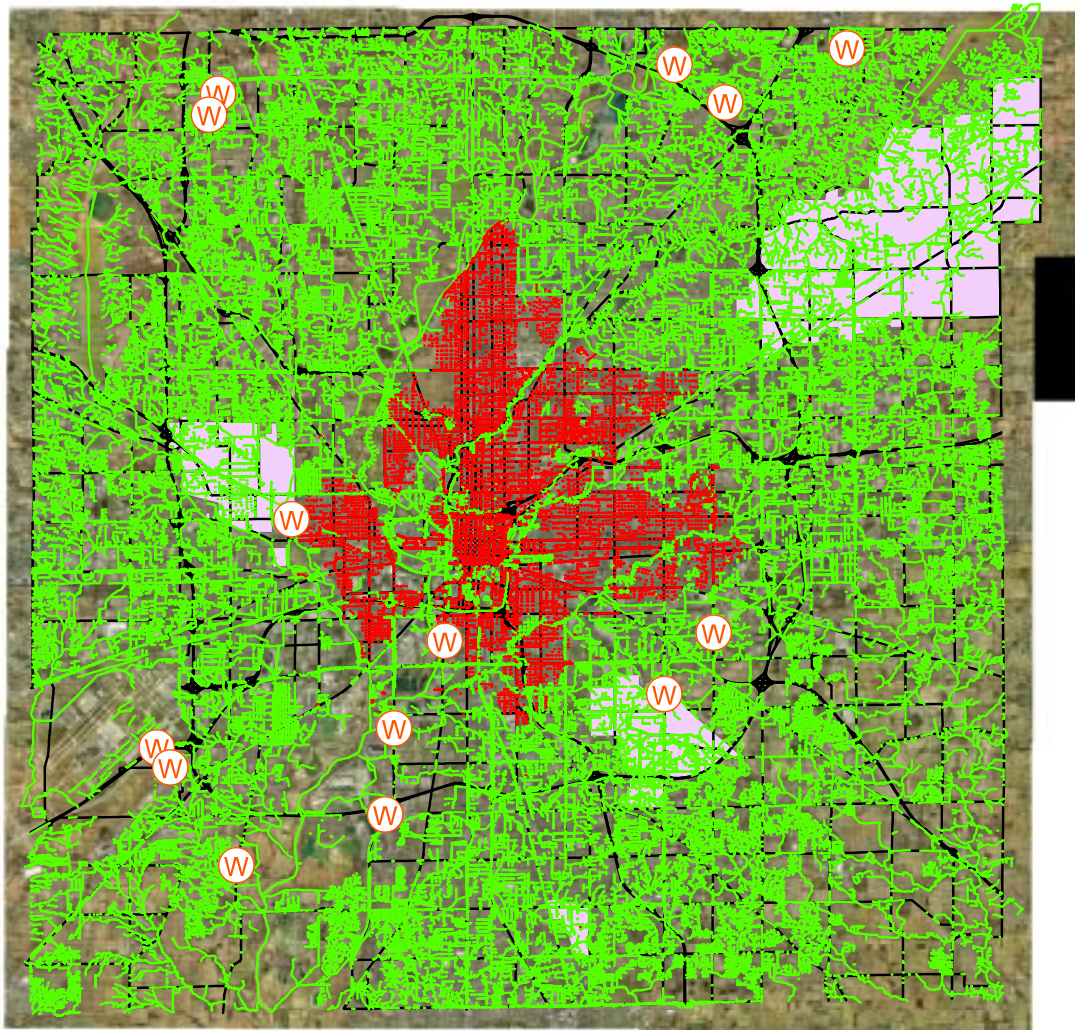
Hazmat Releases to MS4 Area 11/1/2016 through 10/31/2017



Legend

-  Hazmat Releases to MS4 Area 11/1/2016 to 10/31/2017
-  Major Streets
-  Excluded Cities
-  CSO Area

Hazmat Releases Within MS4 Area 11/1/2015 through 10/31/2016




Legend

 MCPHD Hazmat Release to Water Nov 1 2015 through October 31 2016

MS4

 MS4

 Non-MS4

 Major Streets

 Excluded Cities

APPENDIX II.E – Industrial Run-off Control

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Keeping Waste Out of Our Storm Water Best Management Practices (BMPs)

City of Indianapolis | Department of Public Works

Storm Water Pollution

- Storm water runoff occurs when rainfall or snowmelt does not naturally soak into the ground; instead it goes over impervious surfaces (driveways, sidewalks, roofs or streets) picking up unwanted contaminants and eventually enters the City's storm water drainage system.
- Once in the storm water drainage system, the water eventually ends up in our water bodies such as White River, Eagle Creek Reservoir, Fall Creek and other streams, creeks, and ponds.
- This pollutes our sources of drinking water which makes it more expensive to treat, results in injury to the animals and plants that live in or use the water, and results in the loss of recreational uses of our local water bodies.

Clean Water Act

- Per the EPA and the Federal Clean Water Act, the City of Indianapolis (City) is required to identify, monitor, and control pollutants in storm water discharges.
- Storm water discharges include runoff into drains, gutters, ditches, curbs, roadside drainage systems, streets, catch basins, man-made channels, pipes and tunnels that ultimately discharge into the City's water bodies.
- To accomplish this task the City needs help from our residents and our businesses to keep storm water runoff into our rivers and streams as clean as possible.

What Should You Do?

BEST MANAGEMENT PRACTICES (BMPs)

Best Management Practices are methods or techniques to prevent or minimize storm water pollution with the goal of making optimum use of your resources. BMPs can include items such as a schedule of activities, prohibitions of specific work practice activities, treatment requirements, operation and maintenance procedures, and use of containment facilities.

- **Good Housekeeping** Keep the workplace clean and free of debris and litter, store materials inside, and cover dumpsters. This is a universally applicable BMP. Loose debris and litter can be washed into our drainage system.
- **Spill Prevention & Materials Management** Complete and implement a Preventative Maintenance & Spill Response Program.
 - Materials should be stored so they do not have the potential to create a spill from pedestrian or vehicular damage. Make sure containers are properly labeled, safely located, and in good condition to prevent accidental spills or leakage. If necessary, provide some type of secondary containment.
 - Preventative Maintenance. Keep up to date with preventative maintenance practices to keep minor leaks and spills from creating the potential for pollution.
- **Staff Training** Routinely inform and train all staff engaged in activities that impact storm water quality, include topics such as spill response, good housekeeping, and spill prevention & materials management. This should include education on accidental releases on site and substances which migrate off site.





Industrial Facilities

Storm Water Pollution Prevention Plan (SWP3) Make sure the facility SWPPP is kept up to date.

- Storm water discharge exposed to industrial activity can include storm water discharges from:
 - Industrial plant yards
 - Access roads used or traveled by carriers of raw materials, manufactured products, waste material, or by-products
 - Material handling sites
 - Refuse sites
 - Sites used for application or disposal of process wastewaters
 - Sites used for residual treatment, storage, or disposal
 - Shipping and receiving areas
 - Manufacturing buildings
 - Storage areas (including tank farms) for raw materials and intermediate products
 - Areas where industrial activity has taken place in the past and significant materials remain and are exposed to storm water

- Potential Pollutants:
 - Garbage, chemical wastes, wrecked or discarded equipment, biological materials, construction waste and soil, industrial, municipal and agricultural waste, paint, oil, sediments, fertilizers (phosphorus & nitrogen), heavy metals, hydraulic fluid, pesticides and pathogens.
- Hazardous Waste
 - Inspect all known hazard material treatment, storage, disposal and recovery facilities to confirm that Storm water BMPs are being effectively implemented & in accordance with local, state, and federal requirements.
- Regulatory Reporting
 - Keep current with all operational permits and annual reporting requirements (SARA Tier II & IDEM annual reports).
 - Keep records up to date and readily accessible on site to facilitate field inspections at reasonable times.

Remember it is illegal to dump materials into storm drains or into areas subject to storm water runoff!

For More Information

Marion County Soil & Water Conservation District

Discovery Hall, Suite 200

1202 East 38th Street

Indianapolis, IN 46205

Phone: 317-786-1776

Website: <http://marionswcd.org/>

Indiana Department of Environmental Management

Office of Water Quality, Surface Water

Operations & Enforcement Branch

Wetlands and Storm Water Section, Storm Water Program

100 North Senate Avenue Room 1255

Indianapolis, Indiana 46204

Phone: (800) 451-6027

Website: <http://www.in.gov/idem/stormwater/2332.htm>

Indianapolis Department of Public Works

1200 South Madison Avenue, Suite 200

Indianapolis, IN 46225

Phone: 317-327-4000

Website: <http://www.indy.gov/egov/city/dpw/pages/home.aspx>

U.S. Environmental Protection Agency

National Pollutant Discharge Elimination System (NPDES)

Website: <http://www.epa.gov/npdes>

Indianapolis Office of Sustainability

Website: <http://www.indy.gov/eGov/City/DPW/SustainIndy/Pages/SustainIndyHome.aspx>



**Industrial Facility Inspection Program
NPDES Storm Water Permit Report**

Permit Period 2013 – 2018

Permit No: INS040001

December 30, 2016

Prepared by:



DLZ Indiana, LLC

City Job No: SY-00-232
DLZ Job No: 1563-1129-70



Executive Summary

This Industrial Inspection Report was prepared to satisfy the reporting requirements of the City of Indianapolis' (City) NPDES permit, permit number INS040001. This report provides a brief summary of the industrial facilities that were inspected, as well as the observations made while performing inspections.

The City inspected industrial facilities located within Marion County and the City of Indianapolis that were identified under one, or more, of the following categories:

- Rule 6 (327 IAC 15-6)
- Title III, Section 313 of the Superfund Amendments and Reauthorization Act of 1986 (SARA)
- Hazardous Waste Treatment, Storage, Disposal and Recovery (Hazardous)

Approximately, 1,700 total facilities were identified within all of Marion County; however, the majority of the facilities were either located in; an excluded City or Town; within the Combined Sewer Overflow (CSO) area; or the same facility was identified multiple times under different categories. The final number of facilities identified for inspection totaled 291, of which 283 were inspected. The remaining 8 sites were not inspected because they were located on airport facilities which have strict access policies.

The majority of the industrial facilities were familiar with storm water pollution prevention practices. Additionally, a large segment of the industrial facilities employed storm water pollution prevention best management practices (BMPs), provided employee education, and in general had good housekeeping practices. Continued collaboration and outreach between the City and the industrial facilities will facilitate an improved understanding of each facilities responsibility resulting in fewer pollutants in the City's MS4 territory.

The conditions of the NPDES permit require inspections of all known industrial facilities at least once during the five (5)-year term of the permit, provided that the first inspection does not require a second inspection to verify compliance. Assuming no significant change in the number of industrial facilities under the City's purview, the City may want to consider inspecting approximately 60 sites on an annual basis. A rolling inspection program of this type may assist in assuring that the industrial facilities continually provide the necessary attention and energy in understanding and implementing necessary storm water best management practices.



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APPENDICES

- Appendix A Industrial Facility List SOP & Original Facility Listing**
- Appendix B Training Manual**
- Appendix C Inspector Training Sign in Sheet**
- Appendix D Inspection Form**
- Appendix E Facility Notification Letters and Educational Brochure**
- Appendix F Facility Inspection Listing**
- Appendix G Summary Analysis of Inspections by Category**
- Appendix H Inspection Reports**
- Appendix I Facility Aerial Maps**



I. Purpose and Background

In accordance with the Federal Water Pollution Control Act and the Indiana Department of Environmental Management's permitting authority, the City of Indianapolis (City) is authorized to discharge storm water and allowable non-storm water to waters of the state in accordance with non-numeric effluent limitations, monitoring requirements and other conditions as set forth in the National Pollutant Discharge Elimination System (NPDES) permit number INSO40001, effective as of 11/1/13 and expires on 10/31/18.

As part of the City's NPDES permit requirements, the City is required to develop, implement and enforce a Storm Water Quality Management Program (SWQPM). This program includes controls to reduce the discharge of pollutants from MS4¹ conveyances to meet water quality standards. The controls, such as best management practices (BMPs), public education, and engineered solutions, that are part of the City's SWQPM, are intended to be environmentally beneficial and technically and economically feasible.

This report summarizes the activities associated with a segment of the City's Industrial Run-Off Control Program that is part of the City's overall SWQPM.

II. Industrial Run off Control

a. Industrial Facility List

The City compiled a list of industrial facilities identified as potential industrial sources that could discharge into the City's MS4 conveyances. Per the NPDES permit requirements, the listing is comprised of facilities categorized as either:

- 1) Hazardous Waste treatment, storage, disposal and recovery facilities (Hazardous);
- 2) Industrial Facilities subject to Title III, Section 313 of the Superfund Amendments and Reauthorization Act of 1986 (SARA), and;
- 3) Industrial Facilities subject to a 327 IAC 15-6 Storm Water Discharges Exposed to Industrial Activity (Rule 6).

¹ MS4: Municipal Separate Storm Sewer System. A MS4 is the system that collects and transports storm water. The City's MS4 is comprised of the conveyances and outfalls located within the area established under the Indianapolis-Marion County Unigov statute (IC36-3-5). The MS4 conveyances include storm drains, gutters, ditches, curbs, roads, municipal streets, catch basins, man-made channels, pipes and tunnels.



A listing of industrial facilities located within Indianapolis was originally obtained from both EPA and IDEM. These lists identified over 1,700 facilities located within Marion County and the City of Indianapolis. The listing was reviewed in detail to confirm which sites should be inspected. For example, facilities located within Beech Grove, Lawrence, Southport and Speedway are not located within the City's MS4 territory and were removed from the inspection list. Additionally, all facilities within the combined sewer overflow (CSO) territory were removed from the inspection list. Finally, Hazardous waste facilities identified as "conditionally exempt"² and Rule 6 facilities identified as "exempt no exposure"³ were removed from the inspection listing. A detailed standard operating procedure for development and review of the inspection listing is provided in **Appendix A**. Applying the revisions to the original lists identified a total of 291 unique facilities to be inspected. It should be noted that some facilities showed up under multiple categories, but were only counted as a single facility for the final count.

b. Industrial Facility Mapping

Aerial maps were created for each industrial facility that was identified to be inspected. Each map depicts the facility parcel boundary, storm sewer lines, storm sewer structures, sanitary sewer lines, sanitary sewer structures, streams, rivers, trails, and other significant topographic features. These facility maps were developed utilizing the City's current Geographical Information System (GIS) information.

The maps were used in order to gain familiarity with the site, and are frequently annotated during inspections to further illustrate items observed on site such as point sources, outfalls, location of any work activities, and neighboring MS4 conveyance facilities. A copy of each Industrial Map is provided in **Appendix I**.

² Hazardous waste generators are categorized by class: 1) Conditionally Exempt Small Quantity Generators (CESQG) generate < 220 lbs of hazardous waste or 2.2 pounds of acutely toxic hazardous waste in any month and can only accumulate on site 2200 lbs. 2) Small Quantity Generator (SQG) generate > 220 lbs and < 2,200 lbs during a month and never accumulate > 13,227 lbs on site. 3) Large Quantity Generator (LQG) generates > 2,200 lbs or 2.2 lbs of acutely hazardous waste in any month.

³ Facilities which have provided sufficient information to IDEM that demonstrate their on-site activities will have no impact to the surrounding MS4. Additional details may be found online at: <http://www.in.gov/idem/5913.htm>



c. Industrial Facility Database

The City maintains an Industrial Facility Database of each industrial facility inspected within Marion County. The database contains general contact information for each facility and the responsible operating entity; description of each facility's primary activity; available permit and compliance information; links to PDFs of the facility aerial maps; links to PDF copies of the detailed inspection reports; site photos available; and a tabular format of the data collected during the inspection and captured in each of the inspection reports.

d. Industrial Inspections

i. Training. Industrial inspectors were provided classroom training and field training. The classroom training discusses Storm Water Pollution and the City's obligations, the types of industrial facilities that are to be inspected, and the exact nature of the items the inspector is to examine on aerials and while on the site premises. During training each item on the inspection form was discussed and a copy of the training manual (See **Appendix B**) was provided to each inspector. The classroom training was followed by a field visit to a City facility in which actual site conditions and inspection forms were reviewed. A copy of the 2016 Inspection Training sign in sheet is provided in **Appendix C**.

ii. Inspection Form. An electronic or paper copy inspection form (See **Appendix D**) was utilized by each Inspector for the inspection. The inspection form is divided into four (4) areas:

1. Desktop Evaluation. The information provided in this section includes: the facility and operator contact information; a description of the facility activities (SIC or NAICS codes⁴ if available); and

⁴ SIC code. Standard Industrial Classification codes were established in the 1930s to classify business establishments' primary activities. NAICS (North American Industry Classification System) 6 digit codes were adopted for use in 1997 and provide more flexibility than SIC codes. However, SIC codes are still used by some organizations (IDEM) and government agencies so either code was used when available.



identification of any available permit compliance concerns.

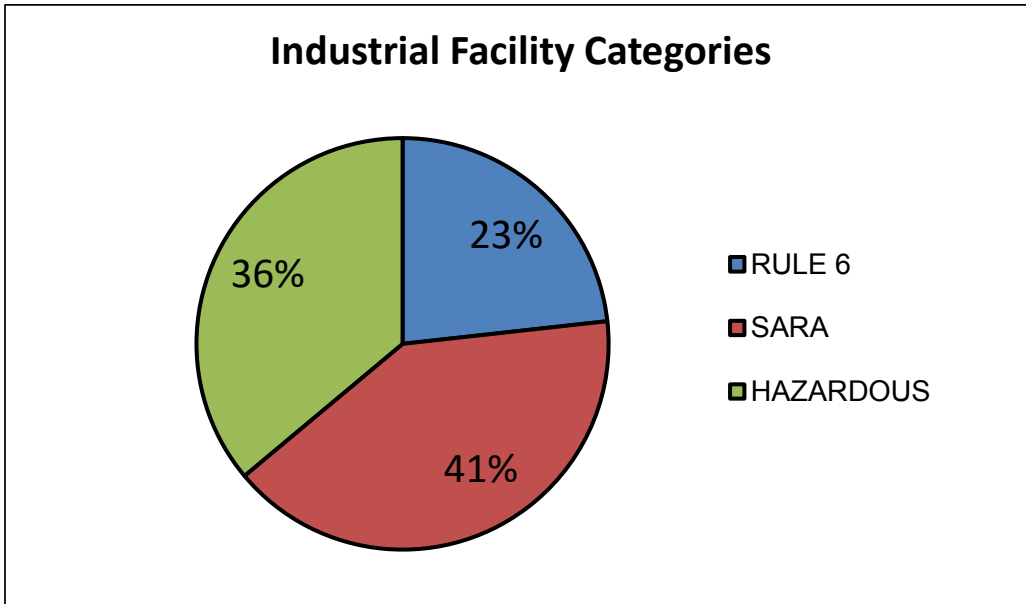
2. Aerial Evaluation. Inspector utilize available aerial applications (e.g.; Google Earth, City GIS, etc.) to identify MS4 conveyances and potential exposures to storm water run-off.
3. Facility Site Scheduling. Letters and educational brochures were sent to each facility prior to inspection. (See **Appendix E**). The information in this section tracks contact made with each facility.
4. Field Inspection. While on site, each inspector examines and evaluates A) permit information B) MS4 conveyances C) identification of any potential contaminants to storm water D) Best Management Practices (BMPs) and E) storm water compliance and control measures.

iii. 2016 Field Inspection Summary. In 2016, a total of 327 sites were preliminarily identified for field inspections. These were comprised of Rule 6 facilities, Hazardous, and SARA facilities as shown below.

TABLE 1	
INDUSTRIAL FACILITY CATEGORIZATIONS	
TYPE	QTY
RULE 6 (327 IAC 15-6 Storm Water Discharges Exposed to Industrial Activity)	76
SARA (Title III, Section 313 of the Superfund Amendments & Reauthorization Act of 1986)	133
HAZARDOUS (waste treatment, storage, disposal, and recovery)	118
TOTAL SITES	327



Figure 1. Industrial Facility Categories



Of the 327 sites, 36 sites were listed under more than one category. For example, a single industrial site may be subject to both Rule 6 permit requirements and Hazardous waste permitting requirements. In order to simplify the database, as well as to avoid unnecessary duplication of inspection efforts, facilities with multiple permits were shown on a single line with the type of permit(s) associated with that facility.

After combining the duplicate sites, the overall number of facilities to be inspected totaled 291 (See **Appendix F**). Inspections for 283 sites have been completed at the time of this report (See **Figure 2**). The remaining 8 sites are not readily accessible (e.g., airport facilities have strict access policies) and the City is evaluating how to proceed with these few remaining sites as listed in **Table 2**.



Figure 2. Completed Field Inspections

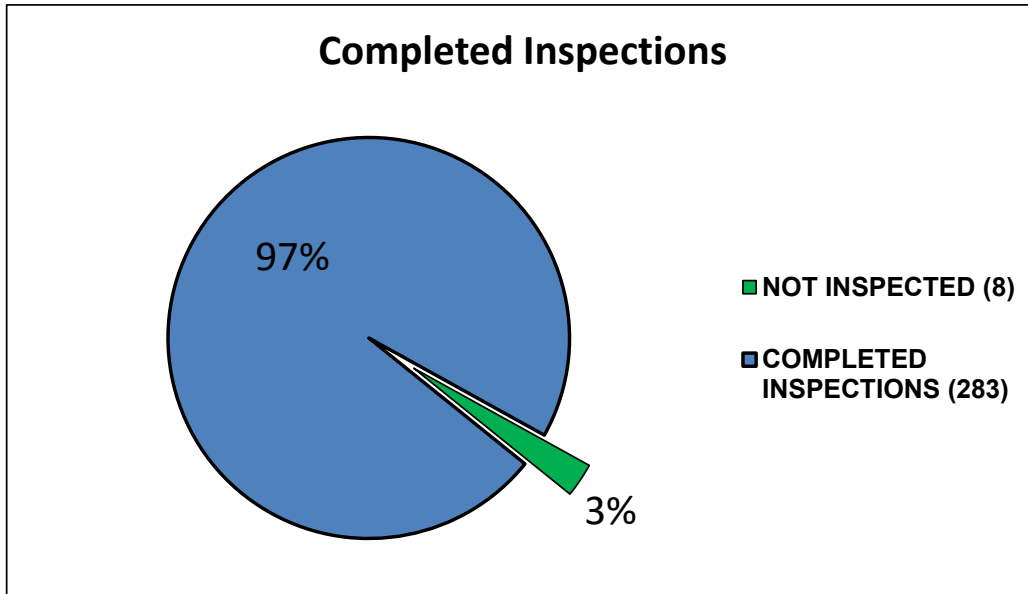


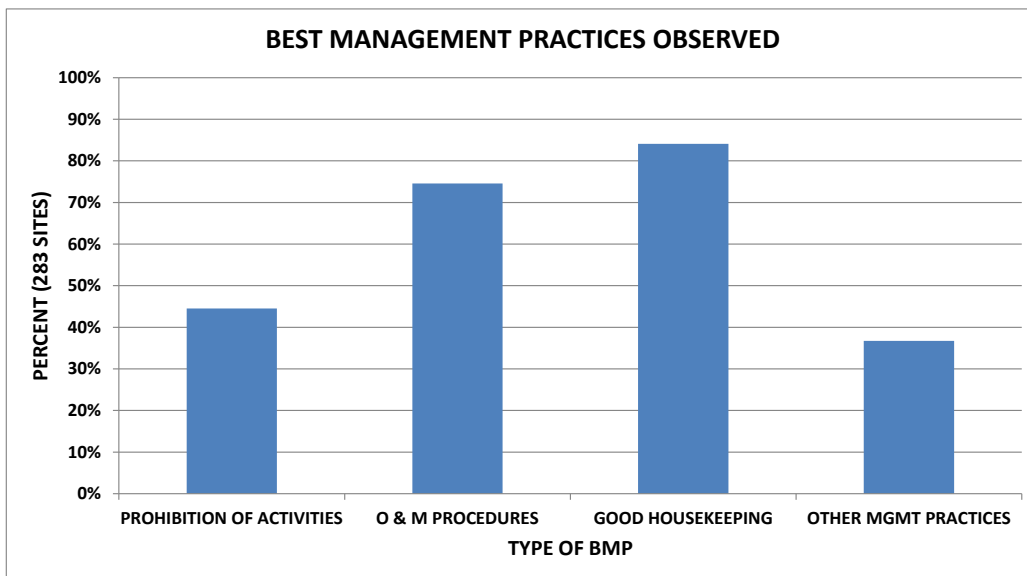
TABLE 2		
FACILITIES NOT INSPECTED		
#	FACILITY NAME	FACILITY ADDRESS
1	Federal Express Corp	2459 Aviation Dr
2	BP - Indianapolis Terminal	2500 N Tibbs Ave
3	Shuttle America	2745 S Hoffman Rd
4	United Airlines Indianapolis Maintenance Center	2825 W Perimeter Rd
5	Comlux Aviation	2910 S High School Rd
6	Eagle Creek Aviation Services, Inc.	4101 Dandy Trl
7	Eagle Creek Airpark	4103 Dandy Trl
8	FEDEX Express Corp East Hangar	7661 N Perimeter Rd



Best Management Practices

While on site, Inspectors checked each facility for implementation of best management practices. The Inspectors field verified control measures utilized to mitigate the quantity and/or quality of pollutants that can combine with urban run-off to the waters of our state during rain events. Since these are industrial facilities, many of the sites have site specific BMPs developed for their particular facility. Therefore, baseline BMPs, which are generally practiced at all facilities, such as good housekeeping, prohibition of activities and operational procedures, were required to be identified and recorded as part of the inspection form. However, to address more specific situations, the inspection form also allowed more detailed reporting to be recorded. A large portion of the industrial facilities inspected have implemented baseline BMPs as illustrated below in **Figure 3**.

Figure 3. BMPs Observed



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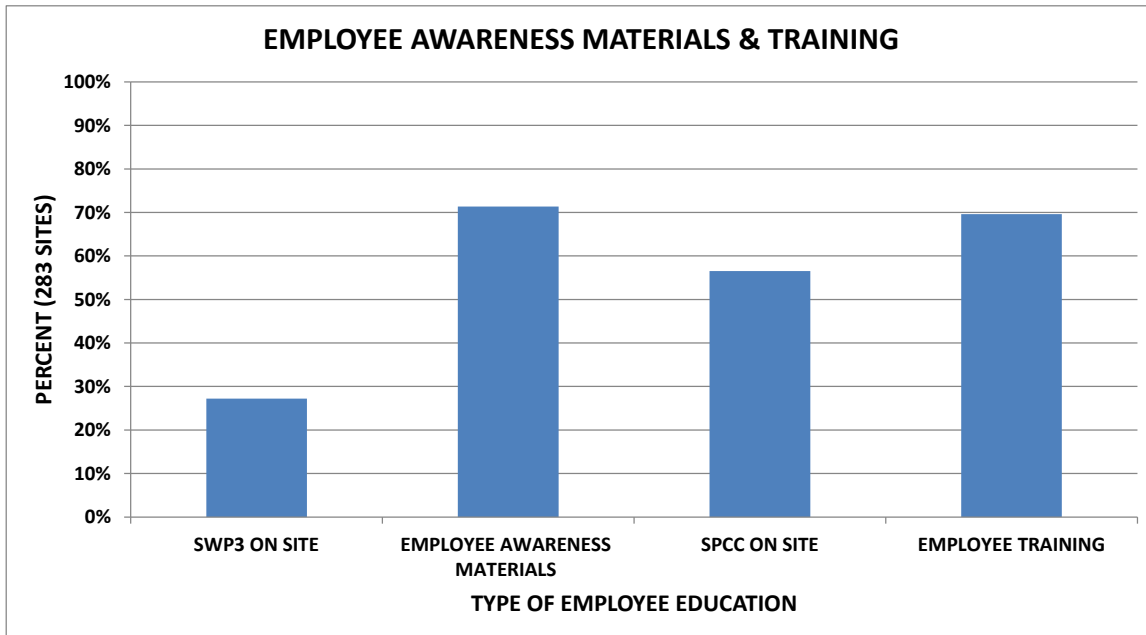


Control Measures and Compliance

Control Measure: Employee Awareness and Training

While on site, inspectors checked whether a facility had a storm water pollution prevention plan (SWP3 or SWPPP) on site or a spill prevention control and countermeasures (SPCC) plan. In addition, inspectors inquired if the facility operator provided any employee training and reported on the inspection form if any employee awareness materials were observed on site. A large portion of the industrial facilities inspected have implemented employee educational measures, which is illustrated below in **Figure 4.**

Figure 4. Facility Employee Training

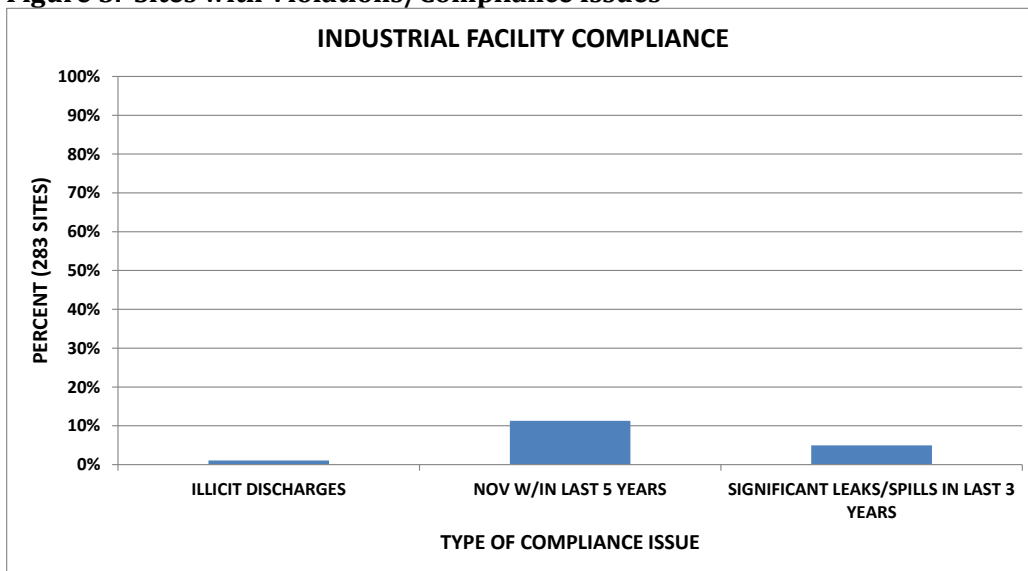


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Compliance

For each facility inspection completed, a review of available online records was performed. Additionally, the inspectors had discussions with the facility operator in order to determine if any facility had experienced any recent compliance issues. Approximately 10% of the sites inspected were identified as having a compliance issue within the last five years as illustrated in **Figure 5**.

Figure 5. Sites with Violations/Compliance Issues



Exposures

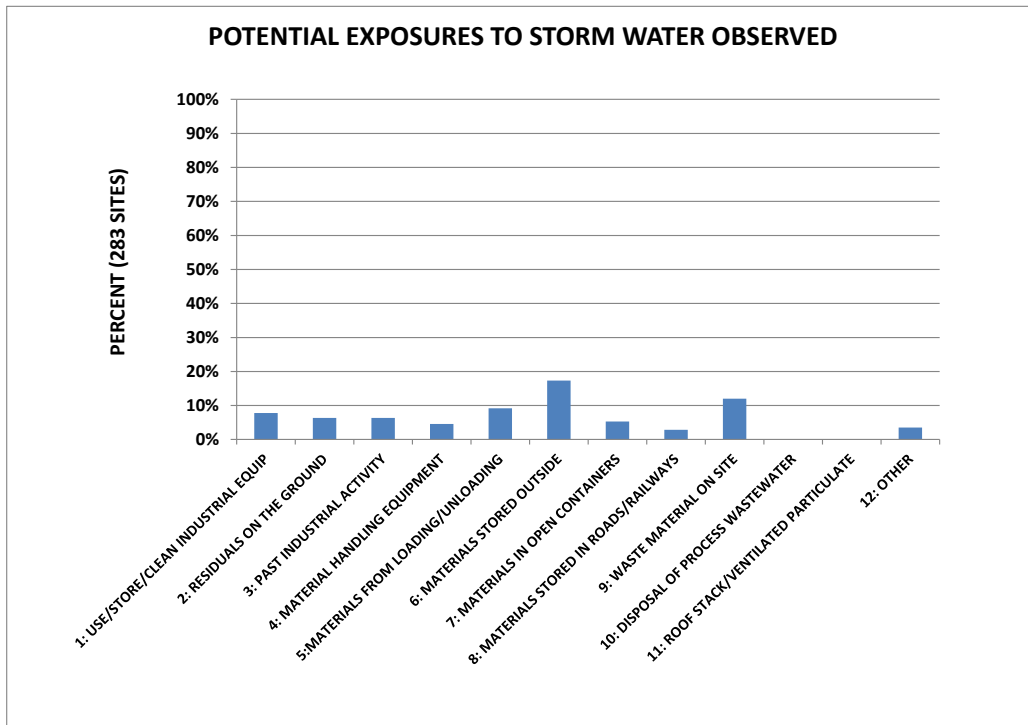
A critical component of the inspections was identification of any activities that indicate a potential risk of “exposure” of storm water run-off to industrial activities. Inspectors were trained, and the inspection form required, that inspectors look for multiple items while on site. The inspection form also allowed the inspectors a location to record any undefined type of exposure that may be observed. All inspectors were trained to notify their manager if any egregious incidents were observed while on site in order for the City to immediately witness the situation. There were no reported cases in which this situation arose in 2016. In most cases, exposures identified



were discussed with the facility operator and were treated as an educational opportunity for the Facility and the Inspector.

The type and percent of exposures observed are illustrated in **Figure 6**.

Figure 6. On-Site Exposures Identified

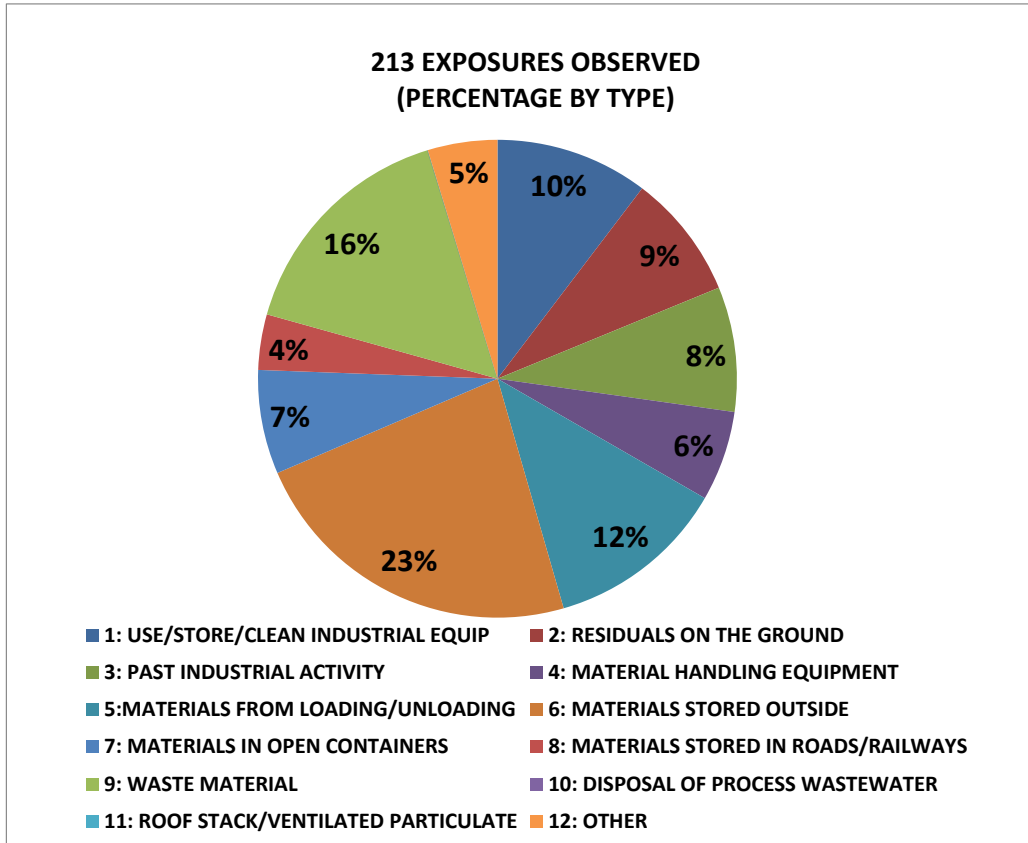


*Items 10 and 11, disposal of wastewater & vented particulate matter, were not observed during inspections.

Of the 213 potential exposures observed, the largest percentage was attributable to materials stored in outside (23%), followed by waste materials on site observed on site (16%) as illustrated in **Figure 7**. The City may want to concentrate future educational handouts on these types of exposures.



Figure 7. Breakdown of Identified Exposures



*Items 10 and 11, disposal of wastewater & vented particulate matter, were not observed during inspections.

The last main item addressed in the inspection reports was whether the inspectors identified any sites recommended for re-inspection. Of the 283 sites inspected, 25 sites (identified more specifically within the database) were noted for consideration by the City to follow up or re-inspect more often than the once per permit period. These facilities are identified with an asterisk next to their record ID in **Appendix F** as well as in **Table 3**.



TABLE 3		
POTENTIAL SITES FOR RE-INSPECTION		
#	FACILITY NAME	FACILITY ADDRESS
1	Andretti Machine/ currently Scott Industrial	1445 Brookville Way
2	ICOR International/ El Chapin Body Shop	2351 Kentucky Ave
3	Hunt Construction Group	2450 S Tibbs Ave
4	NNC Group	2670 Executive Dr
5	Best Way of Indiana 1 Division Terminal	2729 Kentucky Ave
6	Indianapolis Electrical	2900 Shadeland Ave
7	Hostess Brands LLC	2929 N Shadeland Ave
8	C & S Wholesale/ currently Indianapolis Logistics	333 S Franklin Rd
9	Walmart Return Center	3333 N Franklin Rd
10	IPL Harding Street Generating Station	3700 S Harding St
11	Pizza Blends, INC	404 S. Kitley Ave; Suite 200
12	96th Street Transfer and Recycling	4935 Robinson Rd
13	Pinnacle Oil, INC	5009 W 81st St
14	General Devices Co, INC	525 S Webster Ave
15	UCI Solvents, INC	5345 Lexington Ave
16	HD SUPPLY/ currently Ferguson Fire Fabrication	6433 E 30th St
17	Hawker Beechcraft Services, INC	6911 Pierson Dr
18	Delphi Energy & Chassis Systems Indianapolis	7601 E 88th Pl
19	Quemetco	7870 W Morris St
20	St. Francis Hospital and Health Center	8111 S Emerson Ave
21	Ashland, INC	8315 E 33rd St
22	FEDEX Smart Post	8951 Mirabel Rd
23	CSX Transportation Hawthorne Yard	901 S Emerson Ave
24	Foundations by Thompson, INC	9008 Flynn Rd
25	AMAZON DOT COM INDC LLC	9101 Orly Dr

Appendix G provides a similar report summary analysis per category; i.e., a breakdown by Rule 6, SARA and Hazardous.

A copy of the detailed inspection reports for each facility is provided in **Appendix H**.



FOOD SERVICE DOs AND DON'Ts

LO QUE SE DEBE HACER Y LO QUE NO SE DEBE HACER EN EL SERVICIO DE ALIMENTOS

Keep Pollutants Out of Our Sewers and Waterways

Preventing water pollution is everybody's job. Follow these simple tips to keep grease and other pollutants from clogging sewers and out of local surface waters.

Mantenga Los Contaminantes Fuera de Nuestras Alcantarillas y Cursos de Agua

La prevención de la contaminación del agua es tarea de todos. Siga estos consejos simples para impedir que la grasa y otros contaminantes obstruyan las alcantarillas y para que se mantengan fuera de las aguas superficiales locales.

DO	Sí
Clean up outdoor leaks, drips and spills immediately using dry absorbents.	 Limpie los derrames, goteos y fugas de aire libre inmediatamente con absorbentes secos.
Maintain grease traps through routine cleaning.	 Haga mantenimiento a las trampas de grasa mediante una limpieza de rutina.
Regularly sweep paved areas such as parking lots and loading areas.	 Barra con regularidad las áreas pavimentadas, tales como estacionamientos y áreas de carga.
Keep dumpster area clean, free of trash and dumpster lid closed.	 Mantenga limpia el área de los contenedores de basura, libre de basura y las tapas de los contenedores de basura cerradas.
DON'T	NO
Don't dispose of waste cooking oil (deep fryer oil) down any drain. Use an established recycling company instead.	 No deseche el aceite residual de cocina (aceite de freidora) en ningún drenaje. Use una empresa de reciclaje establecida.
Don't use water to clean outdoor paved areas. This washes pollutants directly to our waterways.	 No utilice agua para limpiar las áreas pavimentadas al aire libre. Esto envía directamente los contaminantes a nuestros canales.
Don't use storm drain inlets to dispose of any material as storm drains lead directly to local surface waters.	 No use las entradas de los colectores de aguas pluviales para desechar cualquier material, ya que estos colectores descargan directamente en las aguas superficiales locales.
Don't throw used cigarettes on the ground. Dispose of them at a properly designated smoking station instead.	 No tire las colillas de cigarrillos al suelo. Deséchelos en una estación de fumadores debidamente designada.
Don't dump mop water outside.	 No descargue el agua del trapeador afuera.

STORAGE/SERVICE AREAS

DO: Inspect and clean up leaks, drips and spills using dry cleanup methods.



DON'T: Use water to clean up chemicals and debris on pavement.

DO: Clean up absorbent material immediately.



DON'T: Leave absorbent material on the ground.

DO: Store hazardous liquids in contained/secured locations.



DON'T: Expose hazardous liquids or used parts to rainfall or runoff.

GENERAL LOCATION AREAS

DO: Direct downspouts away from the storage and service areas.



DON'T: Rely on rainwater to wash away spills and debris.

DO: Check and clean storm drain inlets after rain events.



DON'T: Use storm drain inlets to dispose of any material.

DO: Check and clean catch basins routinely.



DON'T: Let catch basins become full of debris.

DUMPSTER AND TRASH AREAS

DO: Pick up litter and debris.



DON'T: Let trash overflow.

DO: Recycle or dispose of automotive fluids as hazardous waste.



DON'T: Dispose of hazardous liquids in trash dumpsters.

DO: Use water-tight trash dumpsters and keep lids closed.



DON'T: Allow storm water to run toward trash dumpsters.

Learn more at indy.gov/stormwater.

NPDES MS4 SWQMP Inspections Automotive Service Facilities			
Facility Name:		Owner/Operator:	
Facility Description:		Phone:	
Location:			
Inspection Item			Yes/No
Indoor floor drains go to sanitary sewer?			
Regularly inspect/clean outdoor parking and storage areas?			
Dumpster lids closed?			
Outdoor washing activities?			
Outdoor new/used liquid storage tanks contained?			
Storm drain inlets labeled?			
Storm drain inlets inspected?			
Storm drain inlets routinely cleaned?			
Storm water BMP (i.e., oil/water separator) on site?			
Employee Storm Water Pollution Prevention Training?			
Raw and waste material disposal methods:			
Liquid waste disposal methods:			
Pollution Potential at Site		Hi	Med
Excessive staining on pavement			
Overall cleanliness of site			
Public/employee awareness materials			
Comments			
Owner/Operator Name (Print)		Inspector	
Owner/Operator Signature		Inspection Date	
Discharge to CSO/SS <input type="checkbox"/> Discharge to MS4 <input type="checkbox"/> Re-inspect <input type="checkbox"/> Wellfield Protection Area <input type="checkbox"/>			

NPDES MS4 SWQMP Inspections Automotive Service Facilities	
Facility Name:	Employee:
Facility Description:	Interviewer:
Location:	Date:
Interview Questions	Answers
What is your position?	
What are some storm water pollution sources at this facility?	
If you see a pollution source or potential for pollution, what do you do?	
Does your company have a pollution prevention policy?	
Do you or someone from your company do routine inspections for storm water pollution prevention?	
Do you or someone from your company do routine maintenance for storm water pollution prevention?	
Are outdoor surfaces swept or washed into storm drains/ditches?	
Have you received storm water pollution prevention training within the past year?	
If so, when? Describe the topic(s).	
What do you do with used oil, transmission fluid, etc.?	
Are drip pans routinely placed underneath vehicles leaking fluids?	
What is a reportable spill?	
If you see a reportable spill, what are you required to do?	
Where is wastewater (such as mop water) routinely disposed of/dumped?	
Are you/other employees aware that you are prohibited from disposing of non-storm water into storm drains?	
Comments <div style="text-align: right;"> Discharge to CSO/SS <input type="checkbox"/> Discharge to MS4 <input type="checkbox"/> Re-inspect <input type="checkbox"/> Wellfield Protection Area <input type="checkbox"/> </div>	

REFUELING/DISPENSING AREAS

DO: Inspect and clean up leaks, drips and spills using dry cleanup methods.



DON'T: Use water to clean up chemicals and debris on pavement.

DO: Clean up absorbent material immediately.



DON'T: Leave absorbent material on the ground.

DO: Install automatic shut-off fuel dispensing nozzles.



DON'T: Use broken fueling equipment that needs repair.

GENERAL STATION AREAS

DO: Direct downspouts away from the refueling area.



DON'T: Rely on rainwater to wash away spills and debris.

DO: Check and clean storm drain inlets after rain events.



DON'T: Use storm drain inlets to dispose of any material.

DO: Check and clean catch basins routinely.



DON'T: Let catch basins become full of debris.

DUMPSTER AND TRASH AREAS

DO: Pick up litter and debris.



DON'T: Let trash overflow.

DO: Recycle or dispose of automotive fluids as hazardous waste.



DON'T: Dispose of hazardous liquids in trash dumpsters.

DO: Use water-tight trash dumpsters and keep lids closed.



DON'T: Allow storm water to run toward trash dumpsters.

Learn more at indy.gov/stormwater.

NPDES MS4 SWQMP Inspections Retail Gas Facilities	
Facility Name:	Employee:
Facility Description:	Interviewer:
Location:	Date:
Interview Questions	Answers
What is your position?	
What are some storm water pollution sources at this facility?	
If you see a pollution source or potential for pollution, what do you do?	
Does your company have a pollution prevention policy?	
Do you or someone from your company do routine inspections for storm water pollution prevention?	
Do you or someone from your company do routine maintenance for storm water pollution prevention?	
Are outdoor surfaces swept or washed into storm drains/ditches?	
Have you received storm water pollution prevention training within the past year?	
If so, when? Describe the topic(s).	
What is a reportable spill?	
If you see a reportable spill, what are you required to do?	
Where is wastewater (such as mop water) routinely disposed of/dumped?	
Are you/other employees aware that you are prohibited from disposing of non-storm water into storm drains?	
Comments	
Discharge to CSO/SS <input type="checkbox"/> Discharge to MS4 <input type="checkbox"/> Re-inspect <input type="checkbox"/> Wellfield Protection Area <input type="checkbox"/>	

NPDES MS4 SWQMP Inspections Retail Gasoline Outlets			
Facility Name:		Owner/Operator:	
Facility Description:		Phone:	
Location:			
Inspection Item			Yes/No
Rags and absorbent available to clean up leaks/spills?			
Automatic shut-off nozzles on dispensers?			
Water-tight waste dumpsters (with lids) used?			
Routinely sweep fuel-dispensing area?			
Routinely clean leaks and drips?			
Routinely check outdoor waste containers?			
Routinely inspect/clean storm drain inlets and catch basins?			
Aware of wash-down prohibition?			
Aware of design flaws of drainage?			
Is there an oil/water separator?			
<ul style="list-style-type: none"> If so, is it regularly inspected/maintained? 			
Posted "No topping off" signs close to fuel dispensers?			
Posted employee awareness signs?			
Other public awareness signs posted?			
Employees properly trained?			
Employees aware of Spill Prevention, Control, and Countermeasure (SPCC) Rule (if required for site)?			
Pollution Potential at Site		Hi	Med
Excessive staining on pavement			
Overall cleanliness of site			
Public/employee awareness materials			
Comments			
Owner/Operator Name (Print)		Inspector	
Owner/Operator Signature		Inspection Date	
Discharge to CSO/SS <input type="checkbox"/> Discharge to MS4 <input type="checkbox"/> Re-inspect <input type="checkbox"/> Wellfield Protection Area <input type="checkbox"/>			



NPDES Landfill Inspections	
Facility Name: <i>Southside Landfill</i>	Owner/Operator: <i>Dave Perkins</i>
Facility Description: <i>Landfill</i>	Phone/Email: <i>(317) 247-6808</i>
Location: <i>2561 Kentucky Ave. Indianapolis, IN 46221</i>	
Inspection Item	Yes/No
Is there a current IDEM permit?	<i>YES</i>
Permit #: <i>49-01</i>	<i>YES</i>
Is a current SWPPP on site?	<i>YES</i>
Do any illicit discharges or connections exist?	<i>NO</i>
If so, describe:	
Does the landfill have a current City permit per Section 601-8 of the City County Code?	<i>Yes/w/ IDEM Permit</i>
Is litter/trash leaving the landfill site?	<i>NO</i>
Does the landfill create a public health or environmental hazard?	<i>NO</i>
If so, describe:	
Is there evidence of erosion?	<i>NO</i>
• Are there gullies over 9 inches in depth?	<i>NO evidence</i>
Is there evidence of off-site sedimentation?	<i>NO</i>
• Are there appropriate sediment control measures downstream of disturbed areas?	<i>YES</i>
• Are sediment control measures installed, maintained and functioning properly?	<i>YES</i>
• Are waterways impacted by off-site sedimentation?	<i>NO</i>
If any above, describe:	
Have appropriate measures been implemented to stabilize inactive portions of the landfill?	<i>YES</i>
• Are final grades seeded and mulched/blanketed?	<i>YES</i>
• Have areas inactive for 60 days or more been adequately stabilized?	<i>YES</i>
• Do existing vegetated areas require maintenance?	<i>NO</i>
If any above, describe:	
Has progress been made since the last visit (for follow up visits only)?	
If so, describe:	

APPENDIX II.F – Construction Site Run-off Control

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Stormwater NPDES Compliance
Rule 5
February 16, 2016



Presenter

Kathy Allen, PLA, CPESC, CMS4S
Stormwater Program
Department of Public Works
City of Indianapolis

Kathy.Allen@indy.gov



Agenda

- Overview
- Rule 5 Paperwork
- 5 Pillars of Stormwater
- Culverts
- Bridges
- Example
- Inlet Protection



Overview



Overview of 327 IAC 15-5
(Rule 5)

- Environmental Protection Agency (EPA)
- National Pollution Discharge Elimination System (NPDES) as Authorized by Clean Water Act (CWA)
- Authority given to Indiana Department of Environmental Management (IDEM)
- Permit by Rule 327 IAC 15-5 (Rule 5)



Overview of 327 IAC 15-5
(Rule 5)

- Construction Activity
- Soil disturbance of 1 acre or more
- Protect
 - Public health
 - Existing water uses
 - Aquatic biota



Overview of 327 IAC 15-5 (Rule 5)

- Minimize the potential for pollutants to contaminate surface water and/or ground water
 - Soil
 - Construction chemicals
 - Oil, grease, transmission fluid
 - Fertilizers and pesticides
 - Temporary toilet facilities
 - Trash

Storm Water Manual & City Code

- Section 100 and 600 require being in compliance with Rule 5 (327 IAC 15-5)
- Projects under 1 acre
 - No Notice of Intent (NOI) required
 - But, ALL land disturbing activities require an erosion and sediment control plan
- City Code 561
 - Exposed areas to be protected
 - Potential erosion minimized
 - Applies to ALL projects

Rule 5 Paperwork

Notice of Intent (NOI)

- What is it?
 - IDEM form
- What is on it?
 - Owner/Designer contact
 - Project details
 - Receiving waters
 - Acres of disturbance
- Why is it required?
 - Intent to comply with Rule 5
 - Authorizes pollutant discharges

Notice of Intent (NOI)

NOI Process – Public Projects

- Designer prepares SWPPP
- SWCD reviews and approves SWPPP
- Designer submits NOI to IDEM
- Should be included with contract documents
- Contractor must post NOI & NOS
 - At jobsite
 - Accessible to public & IDEM
- RPR - contact SWCD prior to construction start
 - (317) 786-1776
 - marionswppp@iaswcd.org



Notice of Sufficiency (NOS)



Storm Water Pollution Prevention Plan (SWPPP)

- Designer prepares
- SWPPP includes plans and narrative
- Should be included with contract documents
- Contractor must
 - Amend it
 - Modify it as necessary
 - Make it available at jobsite
- Amendment forwarded to
 - RPR
 - SWCD

Storm Water Pollution Prevention Plan (SWPPP)

- SWPPP Amendment
 - Stockpile, staging, concrete washout locations
 - Construction entrance locations
 - Sequencing of activities
 - Material handling and spill prevention plan
 - Monitoring and maintenance plan
 - Contractor's inspector contact information

Self Inspections

- Contractor performs self inspections
- Minimum weekly
- And within 24 hours of ½" + rain event
- Required
- Must provide upon request
- RPR encouraged to and should inspect with contractor monthly

Self Inspections

Self Inspections

- RPR - Compare Contractor's Report with Site Conditions
- Use Report as a Tool
- Be Proactive – Prevent Problems
- "Good" vs "Bad" Inspection

Notice of Termination (NOT)

- What is it?
 - IDEM form
- What is on it?
 - Project details
 - Owner signature
- Why is it required?
 - Closes the permit



Notice of Termination (NOT)

The image shows a screenshot of the IDEM Notice of Termination (NOT) form. The form is titled "PROJECT WORK INFORMATION" and contains several sections for project details, including project name, location, and dates. There is a signature line for the project manager and a section for the permit holder's signature. The form is filled out with blue text.

Notice of Termination (NOT)

- What are the required conditions?
 - 70% Uniform Density, Permanent Vegetation
 - No Additional Earth Disturbing Work
 - All Temporary BMPs removed



Notice of Termination (NOT)

- RPR responsibilities
 - Verify conditions are met
 - Take photos of site
 - Representative area
 - Worst area
 - Taken at shoulder height
 - Forward photos to the DPW project manager



Notice of Termination (NOT)



Notice of Termination (NOT)



Five Pillars of Stormwater

Five Pillars of Stormwater

- Communication
- Project Management
- Control Stormwater
- Erosion Control
- Sediment Control

IN THAT ORDER!

Communication

- What Are Your Expectations
- What's the Communication Chain
- Self Inspections
- Progress Meetings
- Prevent Repeat Issues

Project Management

- Weather Forecasts
- Schedule Seed/Mulch Sub
- Sequencing
 - Place BMPs Before Demo
 - Maintenance of Traffic
- Seasons
 - Seed in September ✓
 - Mass Earthwork in April ✗

Control Stormwater

- Diversions
- Slope Drains
- Rock Chutes



Erosion Control

- Existing Vegetation
- Seed/Sod
- Mulch
- Erosion Control Blanket
- Stone



Sediment Control

- Sediment Traps
- Silt Fence
- Filter Bags
- Soil on the move!
- Not very effective
- \$\$\$\$



Erosion vs. Sediment Control



Erosion vs. Sediment Control

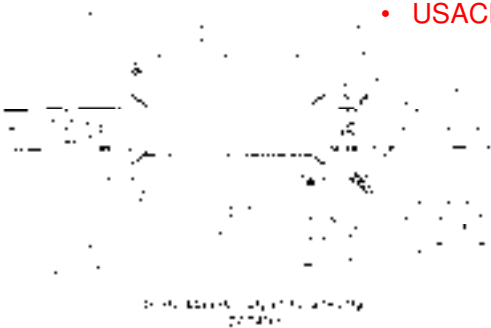


Culverts

Culverts

PERMITS?

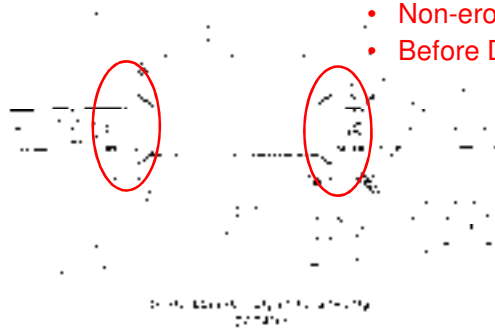
- IDEM 401
- USACE 404

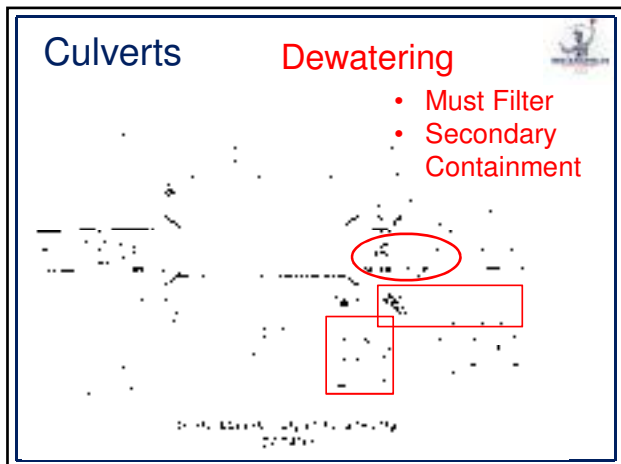
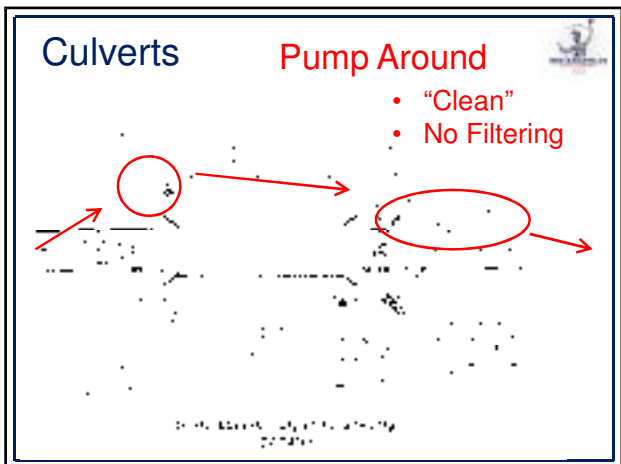


Culverts

COFFER DAMS

- Impermeable
- Non-erodible
- Before Demo





Culverts



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Bridges

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Temporary Crossings



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Temporary Crossings



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Temporary Crossing



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Equipment Pads



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Equipment Pads



5000 1000 1000
1000 1000 1000

Sediment Traps



5000 1000 1000
1000 1000 1000

Sequencing



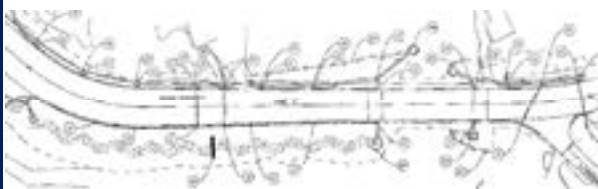
5000 1000 1000
1000 1000 1000

Sequencing



5000 1000 1000
1000 1000 1000

Example



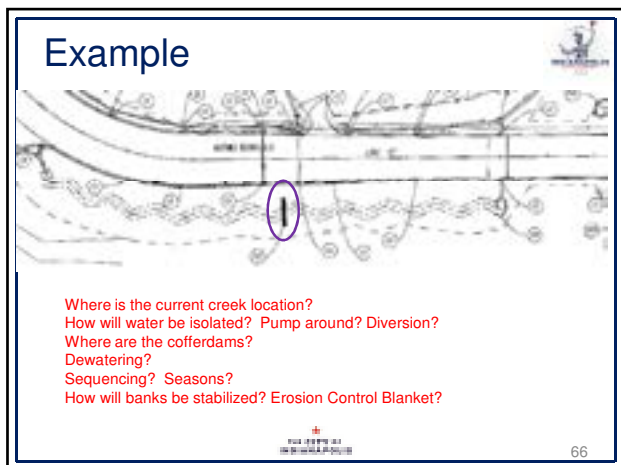
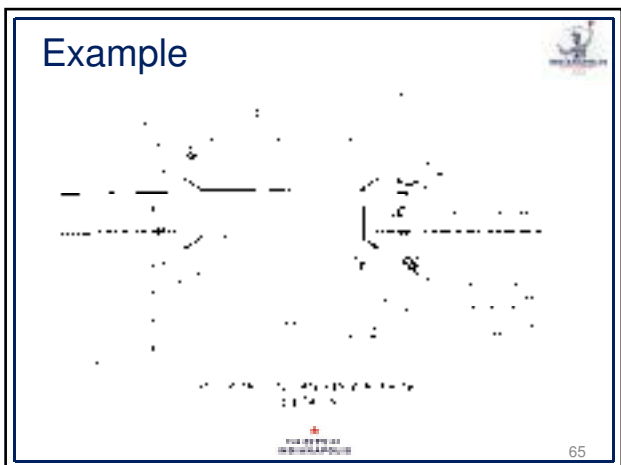
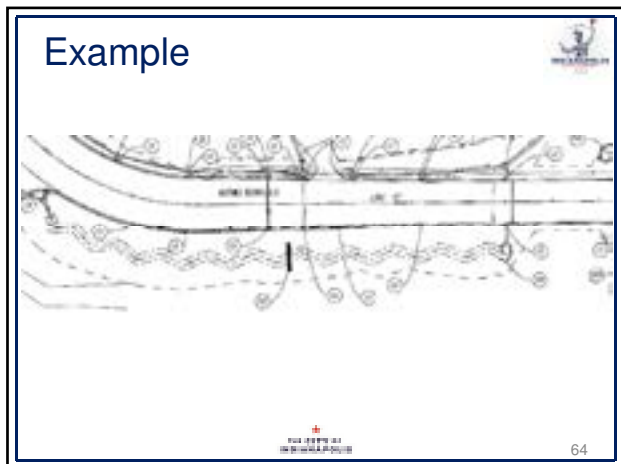
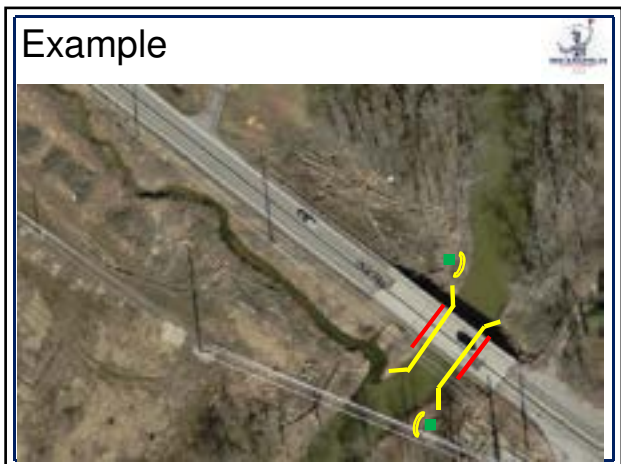
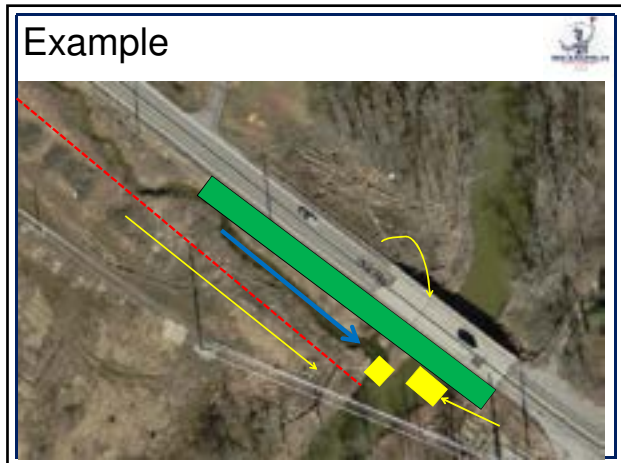
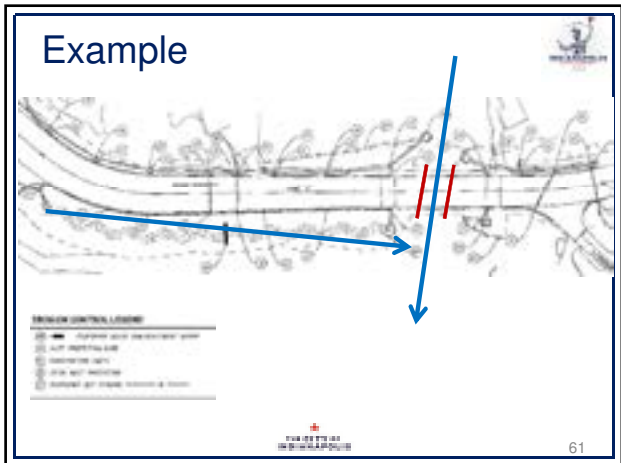
- CONSTRUCTION CONTROL, SEQUENCING**
- 1. CONSTRUCTION CONTROL LINE
 - 2. CONSTRUCTION CONTROL LINE
 - 3. CONSTRUCTION CONTROL LINE
 - 4. CONSTRUCTION CONTROL LINE

5000 1000 1000
1000 1000 1000

59

Example





Where is the current creek location?
 How will water be isolated? Pump around? Diversion?
 Where are the cofferdams?
 Dewatering?
 Sequencing? Seasons?
 How will banks be stabilized? Erosion Control Blanket?

Inlet Protection

Inlet Protection

- Cannot Impede Traffic
- Overflow
- Maintainable

Inlet Protection



Inlet Protection



Inlet Protection



Inlet Protection



Inlet Protection as safety

2016 ACEC Training Attendees

First	Last	Company
Dwayne	Backus	American Structurepoint, Inc.
Richard	Ballard	Franco Consulting Engineers, LLC
Ted	Behrens	HNTB Corporation
Michael	Biesecker	Butler, Fairman, & Seufert, Inc.
Matt	Bobay	GAI Consultants
David	Borden	Indy DPW
Rick	Brost	Indy DPW
Paul	Brucker	ms consultants, inc.
Ben	Bruss	Resolution Group, Inc.
Greg	Bryan	Infrastructure Engineering, Inc.
Tim	Bussell	HWC Engineering, Inc.
Ben	Butz	Infrastructure Engineering, Inc.
Keith	Chadwick	Lochmueller Group
Mark	Chambers	SJCA P.C.
Bill	Coleman	United Consulting
Jesse	Combs	Bollinger, Lach & Associates
Michael	Conley	Butler, Fairman, & Seufert, Inc.
Doug	Corey	CMID, Inc.
Tom	Coughenour	Hanson Professional Services Inc.
Mike	Cox	Beam, Longest and Neff
Sherry	Davis	Indy DPW
Chad	Dickey	HWC Engineering, Inc.
Amy	Douglass	Burke, Christopher B. Engineering, LLC
Mark	Duffy	Certified Engineering, Inc.
Bill	Duncan	Burgess & Niple, Inc.
Tim	Edwards	Parsons Cunningham & Shartle Engineers, Inc.
Eric	Fisher	Resolution Group, Inc.
Andy	Flower	RQAW Corporation
Gary	Fox	Commonwealth Engineers, Inc.
Dan	Grolla	Butler, Fairman, & Seufert, Inc.
Kevin	Hall	Parsons Brinckerhoff
David	Hammons	Northpointe Engineering & Surveying, Inc.
Rick	Hay	Certified Engineering, Inc.
Rob	Herink	Hanson Professional Services Inc.
Michael	Hoff	HNTB Corporation
Carlos	Irizarry	Infrastructure Engineering, Inc.
Timothy	Jennings	Clark Dietz, Inc.
Chriss	Jobe	RQAW Corporation
Aaron	Ketzner	Lochmueller Group
Gregory	Kitchens	VS Engineering, Inc.
Nicole	Klass	American Structurepoint, Inc.
Scott	Knepley	Northpointe Engineering & Surveying, Inc.
Darin	Koelm	Hanson Professional Services Inc.
Rick	Kruchten	Indy DPW
David	Kyle	Northpointe Engineering & Surveying, Inc.

Dave	Lancet	HWC Engineering, Inc.
JaNetta	Leary	Burke, Christopher B. Engineering, LLC
Jacob	Love	Northpointe Engineering & Surveying, Inc.
Carl	Lowe	DLZ Indiana, LLC
Sam	Lunt	Resolution Group, Inc.
Vince	Lynch	DLZ Indiana, LLC
Jeffrey	Mahan	Parsons Cunningham & Shartle Engineers, Inc.
Brian	Mart	Resolution Group, Inc.
Tom	Mattingly	Corradino LLC
James	McQuade	VS Engineering, Inc.
Christopher	Miller	United Consulting
Craig	Miser	DLZ Indiana, LLC
Tom	Mobley	HWC Engineering, Inc.
Brett	Morgan	Indy DPW
Jeremy	Morris	Burke, Christopher B. Engineering, LLC
Kyle	Morton	Shrewsberry & Associates, LLC
Eric	Newkirk	Shrewsberry & Associates, LLC
Jason	Nix	Lochmueller Group
Thomas	Padgett	DURHAM Engineering, Inc.
Darren	Parkes	DLZ Indiana, LLC
Ed	Pops	Northpointe Engineering & Surveying, Inc.
Sarah	Prizio	Commonwealth Engineers, Inc.
George	Rader	GRW
Scott	Randle	GAI Consultants
Frank	Rankin	etica group, inc., the
Morgan	Reardon	Butler, Fairman, & Seufert, Inc.
Jim	Reese	Certified Engineering, Inc.
Mark	Settlemyre	CMID, Inc.
John	Seufert	Butler, Fairman, & Seufert, Inc.
Michael	Smith	DLZ Indiana, LLC
Chris	Smithers	Northpointe Engineering & Surveying, Inc.
Dane	Snyder	CrossRoad Engineers, P.C.
Mike	Stair	Parsons Brinckerhoff
Lauren	Stevenson	Indy DPW
Jason	Summerfield	Butler, Fairman, & Seufert, Inc.
Fred	Turner	CHA
Jason	Umlauf	Clark Dietz, Inc.
David	Van Duyn	Resolution Group, Inc.
Eric	Von Hoven	Clark Dietz, Inc.
Melissa	Walker	HWC Engineering, Inc.
Derek	Walton	Crawford, Murphy & Tilly (CMT)
David	Whited	Hanson Professional Services Inc.
Chuck	Wildt	American Structurepoint, Inc.
Jason	Willy	RQAW Corporation
Todd	Wilson	Indy DPW
Chris	Wright	CrossRoad Engineers, P.C.

Construction Inspector Training - 2016

Introduction

- Clean Water Act
- Cuyahoga River – Cleveland
- NPDES program (Industrial, Construction, MS4)
- Why?
 - Protection of aquatic wildlife and plants
 - Does anyone fish?
 - Recreation
 - Do you have dogs that like to swim? (Blue green algae can be fatal)
 - Excess fertilizer use contributes to blue green algal blooms
 - Where does your drinking water come from?
- MS4 Permit vs Construction Permit (Rule 5)
- Rule 5 vs City Code
- Indianapolis's Individual Permit Requirement
- EPA Audit
- Purpose – Keep Construction Pollutants out of Stormwater
- MS4 vs Combined sewers
- What are some pollutants?
- Rule 5 requirement – No discharge “off-site”
- What is “off-site”? (property line, right-of-way, waters of the US)

Waters of the US

- Waters are considered offsite, even if they are within project limits
- Creeks, Rivers, wetlands, lakes, intermittent streams
- Isolate from work
- Pump around
- Diversion
- Perimeter controls

Erosion Control vs Sediment Control

- Erosion Control more effective and less expensive
- Sediment Control not very effective
- Soil – mostly clay
 - Once picked up by water, needs a long residence time to settle out
 - Water is powerful – grand canyon
- Wildfire analogy

Erosion Control BMPs

- Mulch
 - Thick enough to reduce erosion
- Grass (existing & new) (vegetative filter strip)
- Erosion Control Blankets
- Disturbed areas MUST be stabilized if scheduled to be inactive for 15 days (per Rule 5)
- Is tree clearing, grubbing considered disturbance?

Sediment Control BMPs

- Construction Entrances
 - May need to be redressed often, is mud on road
- Inlet Protection (overflow, maintainable without dropping sediment into inlet)
 - Inlet protection should be maintained after EVERY rain event. Why? (heavy, cumbersome, etc.)
- Silt Fence
 - Run over, trenched in, sediment $\frac{1}{2}$ height of fence, tears, effective
 - Sheet flow only (remember the Grand Canyon?)
- Dewatering Filter
 - Break often, hose slips out, secondary containment, stable outlet (doesn't scour)
- Sediment traps
 - $\frac{1}{2}$ height of the trap, scour around the outsides
- What about check dams? Erosion or sediment control? (primarily for ditch scour – erosion control but does provide minimal sediment control)
- When should Sediment Control BMPs be installed? (Before disturbance)

Other Pollutants

- Concrete Washout (no leaks, completely contained)
 - Why? High pH (fish kills, grass growth) Many other nasty chemicals
 - Enough capacity for the day's work
 - Harden and dispose or vac truck and dispose of properly
- Storage of chemicals

BMP Maintenance

- Inspection required weekly and after $\frac{1}{2}$ " rain events
- Inspections are intended as a tool to ensure maintenance

Notice of Termination

- All earth disturbing work is complete
- 70% uniform density permanent vegetation
- All temporary BMPs removed



Stockpile Stabilization

- Must be located away from waterways and wetlands
- Must have effective perimeter protection
 - Silt fence, filter socks, etc.
- Must be stabilized with seed & straw, geotextile, etc. if staying longer than 15 days



Construction Entrance

- Construction Entrances made of #2 stone removes dirt from tires and minimizes tracking on streets
- Geotextile separates stone from soil extending the useful life of stone entrance. Redress with clean stone often.
- Sediment on roads causes damage to cars, can be a safety hazard and increases complaint calls from citizens
- Tracking onto streets is a violation of City code





Dewatering

- Filter bags must be used for dewatering to remove as much sediment from water before being released into waterways
- Place bag behind secondary containment because bags often break or hoses come loose and fine sediment is not filtered
- Filter bags must be placed out of waterways
- Sediment is the nation's top water pollutant by volume



Inlet Protection

- Maintainable without dropping sediment into the inlet
- Maintained after every rain event
- Have an overflow to prevent jobsite and street flooding
- Manufactured drop inlet bags have built-in overflows and handles
- A piece of geotextile fabric is not acceptable
- Pollutants that enter storm drains travel directly to waterways





Concrete Washout

- Construction sites must have a designated concrete washout container that is lined, with no tears, to prevent leaks
- Container should be sized to contain all washout
- High pH in concrete can cause fish kills, prevent vegetation growth, harm other wildlife, etc.



Silt Fence

- Must be trenched in
- Used in sheet flow areas only
- Must be maintained once silt reaches ½ height of fence, fence tears, has fallen over or is otherwise not functional
- Prevents sediment from reaching storm water inlets and waterways





Stormwater NPDES Compliance
Rule 5
February 23, 2017



Presenter



Kathy Allen
Stormwater Program
Department of Public Works
City of Indianapolis

Kathy.Allen@indy.gov



Agenda



- Overview
- EPA Audit
- New INDOT Requirements
- New RPR Certifications



Overview



Overview of 327 IAC 15-5
(Rule 5)



- National Pollution Discharge Elimination System (NPDES) as Authorized by Clean Water Act (CWA)
- EPA Authority given to Indiana Department of Environmental Management (IDEM)
- Permit by Rule 327 IAC 15-5 (Rule 5)



Overview of 327 IAC 15-5
(Rule 5)



- Construction Activity
- Soil disturbance of 1 acre or more
- Protect
 - Public health
 - Existing water uses
 - Aquatic biota



Overview of 327 IAC 15-5 (Rule 5)

- Minimize the potential for pollutants to contaminate surface water and/or ground water
 - Soil
 - Construction chemicals
 - Oil, grease, transmission fluid
 - Fertilizers and pesticides
 - Temporary toilet facilities
 - Trash



Storm Water Manual & City Code

- Section 100 and 600 require being in compliance with Rule 5 (327 IAC 15-5)
- Projects under 1 acre
 - No Notice of Intent (NOI) required
 - But, ALL land disturbing activities require an erosion and sediment control plan
- City Code 561
 - Exposed areas to be protected
 - Potential erosion minimized
 - Applies to ALL projects

NPDES MS4 Permit

- Municipal Separate Storm Sewer System (MS4) Phase I Community
- Since 1998
- Other Communities regulated under Rule 13 (Phase II)



NPDES MS4 Permit

- Legal Authority
- Operations and Maintenance
- Post-Construction BMPs
- Illicit Discharges and Improper Disposal
- Industrial
- **Construction**
- Public Education
- Monitoring



Construction

- Standards and Codes in Place
- Public Projects in Compliance
- Inspectors Trained Annually

EPA Audit

EPA Audit

- April 2016
- MS4 NPDES Program
- Visited Construction Sites
- Interviewed Inspectors
- Have not yet received findings



Why do we care?

- It's the law (city, state and federal)
- Erosion issues are expensive
- Erosion can lead to structure damage
- Hazardous road conditions – liability
- Violations expensive

New INDOT Requirements

RSP 205-R-636

- Effective beginning September 2016 lettings
 - Federally Funded
 - Locally Funded beginning January 2018
- Storm Water Quality Manager (Contractor's Inspector)
 - Level 1
 - Level 2

RSP 205-R-636

- Contractor Certifications (Level 1)
 - INDOT Stormwater Certification
- Contractor Certifications (Level 2)
 - INDOT Stormwater Certification
 - National Certification
 - CESSWI,
 - CISEC,
 - CPESC,
 - In-Training,
 - Or Approved Equivalent

RSP 205-R-636

- Storm Water Quality Control Plan (SWQCP)
 - Engineer & CPESC or CPESC In-Training
 - Start with SWPPP
 - SWPPP in CIB
 - Submitted to RPR within 14 days of operations

RSP 205-R-636

- Storm Water Quality Control Plan (SWQCP)
 - Update with:
 - Storage/Staging areas
 - Stockpile locations
 - Fueling locations
 - Batch plants
 - Concrete Washout location
 - Material Handling & Spill Prevention Plan
 - Sequencing
 - Construction entrance(s)



RSP 205-R-636

- Storm Water Quality Control Plan (SWQCP)
 - When Waters of the US (WOTUS) are located within the project limits SWQCP also to include:
 - Method to delineate WOTUS (signs, fencing, etc.)
 - Work methods in those areas (pump around, diversions, temporary crossings, turbidity barrier)
 - Work must be in compliance with 401/404 permits



RSP 205-R-636

- Designer Establishes Stormwater Budget
- Pay Items & Prices in RSP



RSP 205-R-636

Pay Item	Pay Unit Symbol	Established Price
Diversion Interceptor Type C	LFT	\$20.00
Fertilizer	TON	\$725.00
Filter Sock	LFT	\$5.00
Manufactured Surface Protection Product	SYS	\$1.25
Mobilization and Demobilization for Surface Stabilization	EACH	\$650.00
No. 2 Stone	TON	\$25.00
Sediment Removal	CYS	\$20.00
Splashpad	TON	\$55.00
Standard Metal End Section	EACH	\$340.00
Storm Water Management Budget	DIG	
SWQCP Preparation and Implementation, Level 1	LS	
SWQCP Preparation and Implementation, Level 2	LS	
Temporary Check Dam, Reversible Riprap	TON	\$50.00
Temporary Check Dam, Traversable	LFT	\$15.00



RSP 205-R-636

Temporary Filter Berm	LFT	\$15.00
Temporary Filter Stone	TON	\$40.00
Temporary Geotextile	SYS	\$1.50
Temporary Inlet Protection	EACH	\$100.00
Temporary Mulch Stabilization	SYS	\$0.25
Temporary Mulch	TON	\$400.00
Temporary Reversible Riprap	TON	\$50.00
Temporary Sediment Basin	EACH	\$1,000.00
Temporary Sediment Trap	TON	\$40.00
Temporary Seed	LBS	\$1.50
Temporary Site Fence	LFT	\$2.00
Temporary Slope Drain	LFT	\$20.00
Weekly Inspection	EACH	\$400.00



Concrete Washout

- RSP 205-R-636 (revised 11/18/16)
- Effective Bids March 1, 2017
- Storm Water Quality Control Plan
 - Include plan for collection, storage and disposal of concrete washout waste water



Concrete Washout

- Contractor to size washout container
- Submit daily concrete waste water calculations
- Straw bale washouts no longer allowed
- May be recycled, lined roll off container, etc.
- Evaporate or Pumped into Tanker
- Secondary washout container on site



2017 ACEC Training Attendees

First	Last	Company
Kathy	Allen	Indy DPW
Dave	Andrewski	Clark Dietz, Inc.
Ted	Behrens	HNTB Corporation
Mike	Biesecker	Butler, Fairman, & Seufert, Inc.
David	Borden	Indy DPW
Rick	Brost	Indy DPW
Jesse	Brown	DB Engineering
Brian	Brownlee	ms consultants, inc
Greg	Bryan	Infrastructure Engineering, Inc.
Robert	Burt	Parsons Cunningham & Shartle Engineers, Inc.
Benjamin	Butz	Butler, Fairman, & Seufert, Inc.
Rick	Cecrle	American Structurepoint, Inc.
Terry	Condre	Crawford, Murphy & Tilly (CMT)
Michael	Conley	Butler, Fairman, & Seufert, Inc.
Tom	Coughenour	Hanson Professional Services Inc.
Mike	Cox	Beam, Longest & Neff, LLC
Alan	Crague	Parsons Cunningham & Shartle Engineers, Inc.
John	Cutter	Parsons Cunningham & Shartle Engineers, Inc.
Gary	Dubois	Eilts Consulting Services, Inc.
Robert	Falk	VS Engineering, Inc.
Brian	Geis	DLZ Indiana, LLC
Frank	Glidden	the etica group
Michael	Goralski	HNTB Corporation
Mike	Gregg	CHA
Dan	Grolla	Butler, Fairman, & Seufert, Inc.
Kevin	Hall	WSP Parsons Brinckerhoff
Ronald	Hamersley	CMID, Inc.
Kendra	Harding	Commonwealth Engineers, Inc.
Chris	Harrison	7NT Engineering, LLC
Rick	Hay	Certified Engineering, Inc.
Julian	Hayes	Clark Dietz, Inc.
Shawn	Heilers	7NT Engineering, LLC
Ryan	Hickman	DURHAM Engineering, Inc.
Josh	Hodge	DB Engineering
John	Huston	Arcadis U.S., Inc.
Carlos	Irizarry	Infrastructure Engineering, Inc.
Mark	Kaiser	Christopher B. Burke Engineering, LLC
Paige	Kingsley	Corradino LLC
Scott	Knepley	Northpointe Engineering & Surveying, Inc.
Mike	Lampman	Fleis & Vandenbrink
JaNetta	Leary	Christopher B. Burke Engineering, LLC
Scott	Mason	Banning Engineering, PC
Cathy	Mescall	the etica group
Kevin	Miller	HNTB Corporation
Brian	Miller	United Consulting

Chris	Miller	United Consulting
Chad	Mills	Shrewsberry & Associates, LLC
Roy	Milner	Hanson Professional Services Inc.
Tom	Mobley	HWC Engineering, Inc.
Cody	Niles	Parsons Cunningham & Shartle Engineers, Inc.
Thomas	Padgett	DURHAM Engineering, Inc.
Melody	Park	Indy DPW
Julie	Petree	DLZ Indiana, LLC
Christa	Petzke	Resolution Group, Inc.
Frank	Rankin	etica group, inc., the
James	Rawlings	DB Engineering
Morgan	Reardon	Butler, Fairman, & Seufert, Inc.
Jim	Reese	Certified Engineering, Inc.
AJ	Schulmeyer	First Group Engineering, Inc.
Mark	Settlemyre	CMID, Inc.
Josh	Sherron	United Consulting
Eric	Siegrist	EMH & T
Jon	Slutz	Resolution Group, Inc.
Mike	Smith	DLZ Indiana, LLC
Bill	Steele	CHA Consulting, Inc.
Jason	Summerfield	Butler, Fairman, & Seufert, Inc.
Eric	Thomas	Commonwealth Engineers, Inc.
Amber	Tolle	HWC Engineering, Inc.
Bart	Trester	USI Consultants, Inc.
Brian	Turley	DLZ Indiana, LLC
Jarreth	Vance	EMH&T
Melissa	Walker	HWC Engineering, Inc.
Ken	Walschlager	Milestone Contractors
Robin	Warner	DURHAM Engineering, Inc.
Jenny	Willis	Northpointe Engineering & Surveying, Inc.
Jason	Willy	RQAW Corporation
Rachel	Wilson	Indy DPW
Mark	Zwoyer	Indy DPW

Construction Inspector Training - 2017

Introduction

- Clean Water Act
- Cuyahoga River – Cleveland
- NPDES program (Industrial, Construction, MS4)
- Why?
 - Protection of aquatic wildlife and plants
 - Does anyone fish?
 - Recreation
 - Do you have dogs that like to swim? (Blue green algae can be fatal)
 - Excess fertilizer use contributes to blue green algal blooms
 - Where does your drinking water come from?
- MS4 Permit vs Construction Permit (Rule 5)
- Rule 5 vs City Code
- Indianapolis’s Individual Permit Requirement
- EPA Audit
- Purpose – Keep Construction Pollutants out of Stormwater
- MS4 vs Combined sewers
- What are some pollutants?
- Rule 5 requirement – No discharge “off-site”
- What is “off-site”? (property line, right-of-way, waters of the US)

Waters of the US

- Waters are considered offsite, even if they are within project limits
- Creeks, Rivers, wetlands, lakes, intermittent streams
- Isolate from work
- Pump around
- Diversion
- Perimeter controls

Erosion Control vs Sediment Control

- Erosion Control more effective and less expensive
- Sediment Control not very effective
- Soil – mostly clay
 - Once picked up by water, needs a long residence time to settle out
 - Water is powerful – grand canyon
- Wildfire analogy

Erosion Control BMPs

- Mulch
 - Thick enough to reduce erosion
- Grass (existing & new) (vegetative filter strip)
- Erosion Control Blankets
- Disturbed areas MUST be stabilized if scheduled to be inactive for 15 days (per Rule 5)
- Is tree clearing, grubbing considered disturbance?

Sediment Control BMPs

- Construction Entrances
 - May need to be redressed often, is mud on road
- Inlet Protection (overflow, maintainable without dropping sediment into inlet)
 - Inlet protection should be maintained after EVERY rain event. Why? (heavy, cumbersome, etc.)
- Silt Fence
 - Run over, trenched in, sediment $\frac{1}{2}$ height of fence, tears, effective
 - Sheet flow only (remember the Grand Canyon?)
- Dewatering Filter
 - Break often, hose slips out, secondary containment, stable outlet (doesn't scour)
- Sediment traps
 - $\frac{1}{2}$ height of the trap, scour around the outsides
- What about check dams? Erosion or sediment control? (primarily for ditch scour – erosion control but does provide minimal sediment control)
- When should Sediment Control BMPs be installed? (Before disturbance)

Other Pollutants

- Concrete Washout (no leaks, completely contained)
 - Why? High pH (fish kills, grass growth) Many other nasty chemicals
 - Enough capacity for the day's work
 - Harden and dispose or vac truck and dispose of properly
- Storage of chemicals

BMP Maintenance

- Inspection required weekly and after $\frac{1}{2}$ " rain events
- Inspections are intended as a tool to ensure maintenance

Notice of Termination

- All earth disturbing work is complete
- 70% uniform density permanent vegetation
- All temporary BMPs removed

Monthly Stormwater Topics for BNS Construction Inspectors

January – BMP maintenance and inspections are required weekly and after each rain event...even in the winter when temperatures are below freezing. As the ground begins to thaw, the first thin layer of soil is very erodible.

February – Stockpiles remaining longer than 15 days must be stabilized with seed and straw, geotextile, etc. to prevent erosion.

March - Groundwater pumped out for basements, etc. should be filtered using a dewatering bag placed behind secondary containment.

April - Efforts to keep soil where it belongs (Erosion controls such as vegetation and mulch) are more effective and less expensive than BMPs that remove sediment from moving water (sediment controls such as sediment traps and inlet protection). Often contractors rely on sediment controls but both are necessary.

May - Inlet protection must be used on all functional stormwater inlets. Inlet protection must be maintainable without dropping sediment into the structure and should be maintained after every rain event. Inlet protection should also have an overflow to prevent flooding.

June – Streets and other paved surfaces should be swept daily for safety purposes and to keep sediment out of the storm sewer system.

July - Construction sites must have a designated concrete washout area with a container that will completely contain the washout without leaks. For example, if using a dumpster, the dumpster must be lined with a thick, plastic liner.

August - Silt fence must be trenched in so that the line on the bottom half of the silt fence is not visible. Silt fence is ineffective if not properly trenched in.

September – September is a good time to permanently seed disturbed areas before winter. Exposed areas must be temporarily or permanently seeded and covered with mulch even in the winter months to reduce erosion potential.

October – Construction entrances should be made of # 2 stone to remove dirt from tires when leaving the construction site. Geotextile fabric under the stone helps the entrance last longer without needing to be redressed. Dirt tracked onto roads/streets should be swept (not washed with water).

November – BMPs should be used to keep sediment onsite. Waterways are considered offsite even if they go through the site's project limits because they are jurisdictional waters of the U.S..

December – Chemicals, stockpiles and temporary toilets should be stored in locations far from storm drains and waterways.



Department of Public Works

Stormwater Reviewers NPDES
Training
October 2016



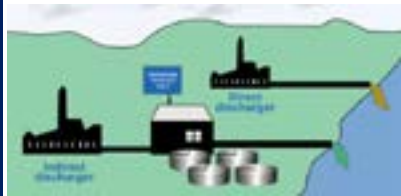
Background

- Water Pollution Control Act
 - 1948
- Clean Water Act
 - 1972
- National Pollutant Discharge Elimination System (NPDES)
 - Unlawful to discharge a pollutant from a point source without a permit



Background

- NPDES Permits
 - Industrial
 - Construction Sites
 - Municipal Separate Storm Sewer System (MS4)



Background

- Indianapolis MS4 NPDES
INS040001
 - Since 1998
 - Individual
- Construction NPDES: Rule 5
 - Administered by IDEM
 - Construction sites with 1 acre or more soil disturbance



Background

- Legal Authority
- Operations and Maintenance
- Post-Construction
- Illicit Discharges and Improper Disposal
- Industrial Run-off Controls
- Construction Site Run-off Controls
- Public Education and Outreach
- Rivers Monitoring
- Reporting



Why It's Important

- Water Supply
- Recreation
 - Boating, Fishing, Swimming
- Plants, Animals, Aquatic Life
- Flooding
- Safety
- Violations



Why It's Important

- Soil is the **number one** water pollutant by volume
- Soil fills gravel beds in streams and **suffocates aquatic life**
- Soil fills ditches, inlets, and pipes – flooding
- **Chemicals and nutrients** attach to soil, water carries that soil



Background

- EPA Audit April 2016
 - Visited Construction Sites
 - Process
 - Oversight
 - Training
 - Ordinances

Background

- Legal Authority
 - Stormwater Standards
 - Ordinances
 - Legal Boundaries
- Post-Construction
 - 80% TSS Removal
 - Capture Floatables
 - New impervious surface of ½ acre or more
 - (Standards say disturbance)

Background

- Construction
 - Implementation and Enforcement of Chapter 561 City Code and Chapters 104.2 and 600 of Stormwater Manual
 - Construction projects must be administered consistent with state regulatory requirements
 - Rule 5 SWPPPs: > 1 acre
 - Annual training for inspectors and reviewers

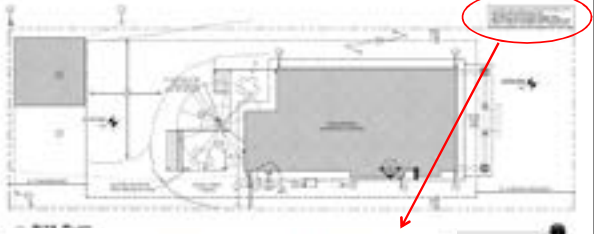
Single Family Example



Single Family Example



Single Family Example



NOTE: EXISTING GRADE TO REMAIN - NO CHANGES TO THE EXISTING, FLAT SITE.
 EXISTING GRADE ELEVATIONS SHOWN PER O&M MAP.
 NEW DOWNSPOUTS TO BE TIED INTO EXISTING DOWNSPOUT DRAINS.
 EXISTING CONCRETE PATIO TO BE PARTIALLY DEMOLISHED TO BE REPLACED BY
 RAZED DECK - REMOVAL OF APPROXIMATELY 200SF OF IMPERVIOUS SURFACE.

Single Family Example



Single Family Example

- NO CHANGES TO THE EXISTING, FLAT SITE
 - Yes, but where does water drain?



Single Family Example

- What is Off-Site?
 - Property Lines
 - Public Rights-of-Way
 - Waterways



Single Family Example



Single Family Example



Single Family Example

– What BMPs are required?

- Construction entrance
- Inlet protection
- Perimeter protection (silt fence, filter socks)



Single Family Example

- Inlet protection
 - Overflow
 - Maintainable
 - Does not impede active traffic



Single Family Example



Single Family Example

- NEW DOWNSPOUTS TO BE TIED INTO EXISTING DOWNSPOUT DRAINS
 - Existing drains not shown.
 - What system do they tie into? Sanitary?

Single Family Example



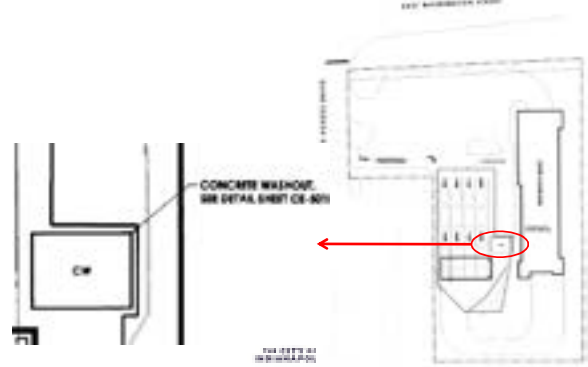
Single Family Example

- EXISTING CONCRETE PATIO REPLACED BY RAISED DECK, REMOVAL OF 200 SF OF IMPERVIOUS SURFACE
 - To reduce impervious area calculation, proof of impervious material under deck
 - What temporary BMPs needed if new concrete patio?
 - Concrete washout

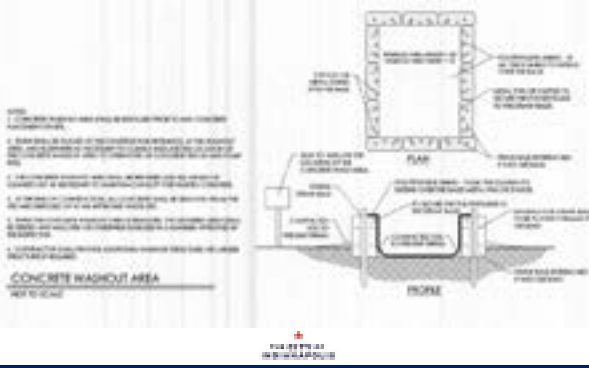
Commercial Example



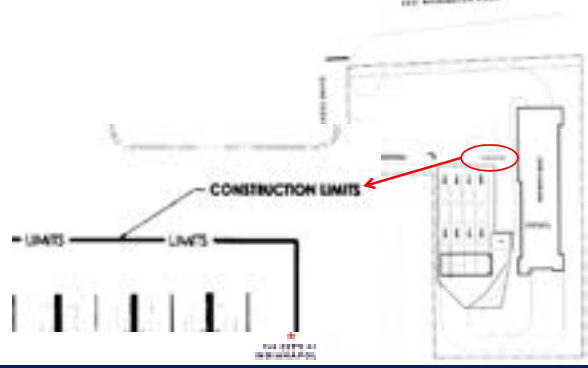
Commercial Example



Commercial Example



Commercial Example

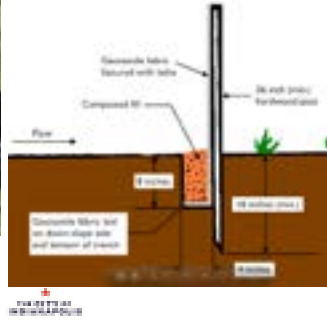


- NOTES**
- 1. DATE NOTED MAY NOT BE CONSIDERED AS THE DATE OF THIS CONSTRUCTION ACTIVITY. THE DATE SHALL BE DETERMINED BY THE CITY OF INDIANAPOLIS.
 - 2. ALL OBTAINED AREAS THAT WILL BE OPEN TO THE PUBLIC FOR 14 DAYS OR MORE SHALL BE FENCED (SEE SHEET 02-001) AND MONITORED.
 - 3. ADDITIONAL STANDARDS FOR THE PROTECTION OF THE CITY OF INDIANAPOLIS SHALL BE REQUIRED BY THE CITY OF INDIANAPOLIS.
 - 4. ALL OBTAINED AREAS SHALL BE MONITORED BY THE CITY OF INDIANAPOLIS.
 - 5. THESE SHALL BE AVOIDED. SEE SHEET 02-001 FOR MORE INFORMATION.
 - 6. APPROVED CONSTRUCTION SCHEDULE (SEE SHEET 02-001).
 - 7. RECORD DRAWING: DRAFT COPY.
 - 8. LATEST: 08/14/17.
 - 9. CONTACT PERSON: [Name], [Phone], [Email].
 - 10. [Additional note]
 - 11. [Additional note]
 - 12. [Additional note]
 - 13. [Additional note]
 - 14. [Additional note]

- CONSTRUCTION SEQUENCING**
- PRE-CONSTRUCTION ACTIVITIES**
1. [Note]
 2. [Note]
 3. [Note]
 4. [Note]
 5. [Note]
 6. [Note]
- CONSTRUCTION ACTIVITIES**
1. [Note]
 2. [Note]
 3. [Note]
 4. [Note]
 5. [Note]

Location?
Detail?

Commercial Example



- Trenched in
- Sheet Flow Only

CONSTRUCTION SEQUENCING

- PRE-CONSTRUCTION ACTIVITIES**
1. CARL BYT SERVICES ATTEMPT TO CHECK THE LOCATION OF ANY EXISTING UTILITIES. THEY SHOULD BE NOTIFIED TWO WORKING DAYS BEFORE CONSTRUCTION TAKES PLACE.
 2. A SILT FENCE SHALL BE INSTALLED AT THE EDGES OF THE PROJECT SITE WHERE THERE IS POTENTIAL FOR ANY STORMWATER RUNOFF. POTENTIAL AREAS ARE DETERMINED BASED ON EXISTING TOPOGRAPHY AND SHOWN ON SHEET 10-101. THE METAL SEDIMENT FENCE SHOULD BE INSPECTED AND ANY ACCUMULATING SEDIMENT REMOVED. EXISTING VEGETATION SUITABLE FOR USE AS FILTER STRIPS ALONG THE SOUTH AND EAST BOUNDARIES, THE EXISTING ENTRANCES SHALL BE UTILIZED AS CONSTRUCTION ENTRANCES.
 3. ESTABLISH CONSTRUCTION STAGING AREA FOR EQUIPMENT AND VEHICLES AS FAR FROM PUBLIC AND OWNERS AS POSSIBLE.
 4. DETERMINE ON-SITE LOCATION FOR OPERATOR/CONTRACTOR PLACEMENT OF APPROVED PLANS AND INSPECTION DOCUMENTATION.
- CONSTRUCTION ACTIVITIES**
1. EROSION AND SEDIMENT CONTROL MEASURES ARE IN PLACE, BENCH LAND CLEARING FOLLOWED IMMEDIATELY BY BENCH GRADING. DO NOT LEAVE LARGE AREAS UNPROTECTED FOR MORE THAN 14 DAYS. ALL DEFURROWED AREAS THAT FOREVERALLY WILL BE EXPOSED FOR 14 DAYS OR MORE WILL BE STABILIZED, SEEDING, MULCHED, ETC. IMMEDIATELY.
 2. AFTER COMPLETION OF MAJOR GRADING, FINAL GRASS AND SOIL LANDSCAPE SEEDING AND STAKES IMMEDIATELY AFTER GRADING IS COMPLETED.
 3. CONTRACTOR SHALL MAINTAIN EROSION CONTROL MEASURES AND DEVICES DURING THE CONSTRUCTION PHASE AND UNTIL SEPARATION OF THE STREETS AND STORM SEWERS WILL NO LONGER OCCUR.
 4. AFTER ALL DEFURROWED AREAS HAVE BEEN STABILIZED, REMOVE ACCUMULATED SEDIMENT FROM INSTALLED EROSION CONTROL MEASURES.
 5. WHEN TOP OF VEGETATIVE COVER IS OBTAINED THE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES.

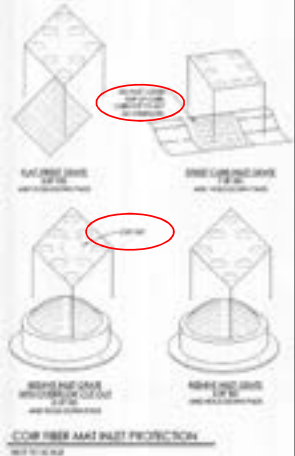
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 4. AFTER ALL DEFURROWED AREAS HAVE BEEN STABILIZED, REMOVE ACCUMULATED SEDIMENT FROM INSTALLED EROSION CONTROL MEASURES.
 5. WHEN TOP OF VEGETATIVE COVER IS OBTAINED THE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES.



Commercial Example

- Maintainable?
- Overflow?
- Impede Traffic?
- Location?



CONSTRUCTION SEQUENCING

1. CALL IT! VERIFY AT 8:11 TO CHECK THE LOCATION OF ANY EXISTING UTILITIES. THEY SHOULD BE NOTICED TWO WORKING DAYS BEFORE CONSTRUCTION TAKES PLACE.
2. A SILT FENCE SHALL BE INSTALLED AT THE EDGES OF THE PROJECT SITE WHERE THERE IS POTENTIAL FOR ANY STORMWATER FLOW. POTENTIAL AREAS ARE DETERMINED BASED ON EXISTING TOPOGRAPHY AND SHOWN ON SHEET CS-101. THE INSTALLED SILT FENCE SHOULD BE INSPECTED AND ANY ACCUMULATING SEDIMENT REMOVED.
3. EVALUATE EXISTING VEGETATION SUITABLE FOR USE AS FILTER STRIPS ALONG THE SOUTH AND EAST BOUNDARIES. THE EXISTING ENTRANCES SHALL BE UTILIZED AS CONSTRUCTION ENTRANCES.
4. ESTABLISH CONSTRUCTION STAGING AREA FOR EQUIPMENT AND VEHICLES AS FAR FROM PILES AND DWELLS AS POSSIBLE.
5. OBTAIN IN WRITING LOCATION FOR CHANNEL OPERATION CONTRACTOR PLACEMENT OF APPROVED PILES AND INSPECTION DOCUMENTATION.

- CONSTRUCTION ACTIVITIES**
- ✓ TRUCK TIRE TRACKS AND EROSION CONTROL MEASURES ARE IN PLACE. BEGIN LAND CLEARING FOLLOWED IMMEDIATELY BY BROWN GRADING. DO NOT LEAVE LARGE AREAS UNPROTECTED FOR MORE THAN 14 DAYS. ALL DISTURBED AREAS THAT POTENTIALLY WILL BE EXPOSED FOR 14 DAYS OR MORE WILL BE STABILIZED, SEEDING, MULCHED ETC. IMMEDIATELY.
 - ✓ AFTER COMPLETION OF MASS GRADING, FINAL GRASS AND BIRD/LANDSCAPE SEEDS AND STRIPS IMMEDIATELY AFTER GRADING IS COMPLETED.
 - ✓ CONTRACTOR SHALL MAINTAIN EROSION CONTROL MEASURES AND DEVICES DURING THE CONSTRUCTION PHASE AND UNTIL SEPARATION OF THE SEEDS AND STORM SEEDING WILL NO LONGER OCCUR.
 - ✓ AFTER ALL DISTURBED AREAS HAVE BEEN STABILIZED, REMOVE ACCUMULATED SEDIMENT FROM INSTALLED EROSION CONTROL MEASURES.
 - ✓ WHEN TOP OF VEGETATIVE COVER IS OBTAINED THE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES.

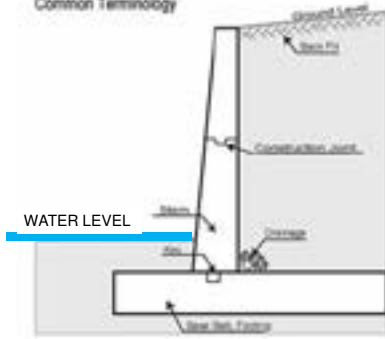
Constructability



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Common Terminology



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Department of Public Works

Stormwater Reviewers NPDES
Training
2017



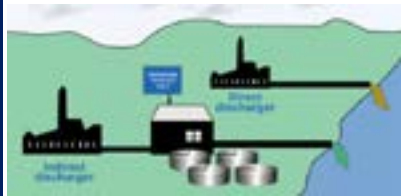
Background

- Water Pollution Control Act
 - 1948
- Clean Water Act
 - 1972
- National Pollutant Discharge Elimination System (NPDES)
 - Unlawful to discharge a pollutant from a point source without a permit



Background

- NPDES Permits
 - Industrial
 - Construction Sites
 - Municipal Separate Storm Sewer System (MS4)



Background

- Indianapolis MS4 NPDES INS040001
 - Since 1998
 - Individual
- Construction NPDES: Rule 5
 - Administered by IDEM
 - Construction sites with 1 acre or more soil disturbance



Background

- Legal Authority
- Operations and Maintenance
- Post-Construction
- Illicit Discharges and Improper Disposal
- Industrial Run-off Controls
- Construction Site Run-off Controls
- Public Education and Outreach
- Rivers Monitoring
- Reporting



Background

- Legal Authority
 - Stormwater Standards
 - Ordinances
- Post-Construction
 - 80% TSS Removal
 - Capture Floatables
 - New impervious surface of 1/2 acre or more
 - (Standards say disturbance)



Background

- Construction
 - Implementation and Enforcement of Chapter 561 City Code and Chapters 104.2 and 600 of Stormwater Manual
 - Construction projects must be administered consistent with state regulatory requirements
 - Rule 5 SWPPPs: > 1 acre
 - Annual training for inspectors and reviewers

Why It's Important

- Soil is the **number one** water pollutant by volume
- Soil fills gravel beds in streams and **suffocates aquatic life**
- Soil fills ditches, inlets, and pipes – flooding
- **Chemicals and nutrients** attach to soil, water carries that soil
- Water Supply
- Violations



Storm Water Pollution Prevention Plan

- Instruction to the Contractors
- First Step in Compliance
 - Construction (Rule 5 & City Code)
 - MS4 (Rule 13)
- Challenges
 - Designer is not a Contractor
 - Narrative Often Not Read by Contractor
 - Many Other Priorities

Checklist

IDEM Rule 5 Guidance
(<http://www.in.gov/idem/4909.htm>)



A3: Narrative

Describe Entire Project

- Project
- Waterways
- Unique Features
- Basements
- Demolition



A3: Narrative

- Tree Clearing
- Utility Relocations
- Street Alterations
- Cut or Fill
(Borrow/Disposal)

Reviewers' First Understanding of Project



Not Just SWPPPs

A3: Narrative



A8: Other Permits

IDEM 401 Water Quality Certification
USACE 404 Permit
IDNR Construction in Floodway

A9: SW Leaves Site

Perimeter

- Concentrated Flow
- Sheet Flow

Interior

- Inlets
- Waterways
- Detention Ponds

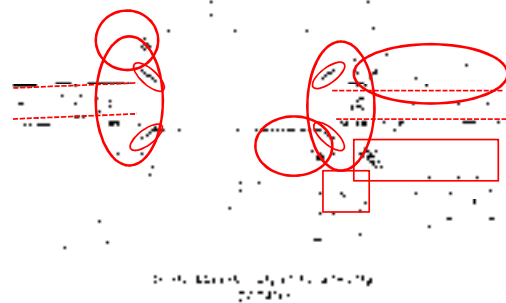
A10: Waters On/Near Site

- Waterways Are Considered Off-Site (regardless of location)
- Labeled on Plans
- “Isolate” these Hot Spots
 - Creeks
 - Ponds
 - Wetlands

A10: Waters On/Near Site



A10: Waters On/Near Site



A10: Waters On/Near Site



A10: Waters On/Near Site



A10: Waters On/Near Site



Dewatering



Dewatering



Dewatering



Coffer Dams



FIGURE 10-10
NATIONAL SANITATION FOUNDATION

Perimeter Protection



FIGURE 10-11
NATIONAL SANITATION FOUNDATION

A11: Receiving Waters

- Streams
- Reservoirs
- MS4

Considered Off-Site
(No BMPs Allowed
without state and/or
federal permits)



FIGURE 10-12
NATIONAL SANITATION FOUNDATION

A14: Pre & Post Discharge

- Effect of Project on Environment
- Clue about Watershed Size
- Pick the Right BMPs
 - Sediment Trap vs Basin
 - Check Dam Material
 - Is Silt Fence Appropriate?

FIGURE 10-13
NATIONAL SANITATION FOUNDATION

A16: Disturbed Areas

- Often Not All Inclusive
- Limits of Earthwork
 - Staging
 - Constructability

Rule 5 Permit Limit

FIGURE 10-14
NATIONAL SANITATION FOUNDATION

A18: Soils

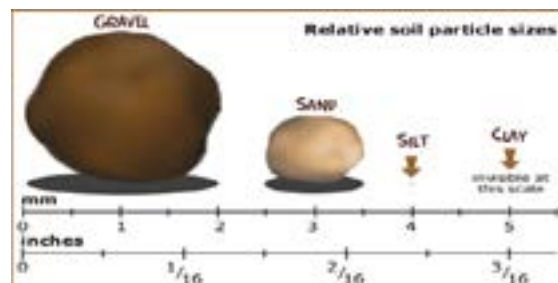


FIGURE 10-15
NATIONAL SANITATION FOUNDATION

A18: Soils



31

A20: Off-site Activities

- Utility Relocations
- Added Turn Lanes



A21: Stockpiles, Borrow, Disposal

- Away from Sensitive Areas
- Off-Site
 - BMPs Included in Plans?
 - Path Between
 - Separate Permit



A21: Stockpiles, Borrow, Disposal



A21: Stockpiles, Borrow, Disposal



A22/A23: Existing and Proposed Topography

- Magnitude of Earthwork
- Discharge Points May Change
- Watersheds May Change
- Slope
- Change in Soil Profile



B1: Pollution Sources

- Fuel containers
- Concrete washouts
- Dust Control
- Port-o-lets
- Trash Removal
- Spill Response Program



B1: Pollution Sources

Concrete Washout



B1: Pollution Sources



B2: Sequencing

Think Like a Contractor

- Staging Area
- Haul Roads/Access
- Construction Entrances
- Perimeter Protection
 - Silt Fence
 - Sediment Traps
- Demo/Tree Clearing
- Earthwork
- Phases?
- Ditch Excavation
- Check Dams
- Permanent Stabilization ASAP

B2: Sequencing



B2: Sequencing



B3: Construction Entrance

- Do Not Block Drainage
- Located in Safe Location
- 150 Feet Long (if possible)
- Tracking = Citizen Complaints



B3: Construction Entrance



B4: Sheet Flow

- Silt Fence
- Filter Berms
- Filter Socks



B4: Sheet Flow

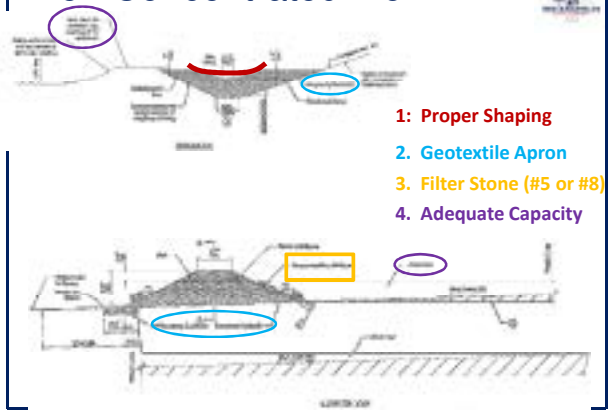


- Trenched in
- Down Slope
- Trees
- Gravel Pavement

B5: Concentrated Flow

- Check Dams
 - Rock
 - Straw
 - Filter Socks
- Sediment Traps
- Sediment Basins (over 5 acres)

B5: Concentrated Flow



B5: Concentrated Flow



B5: Concentrated Flow



B5: Concentrated Flow



B6: Inlet Protection

- Usually Concentrated Flow
- Cannot Impede Traffic
- Overflow Reduce Flooding Potential
- Maintain without Dropping Sediment

B6: Inlet Protection



B6: Inlet Protection



B6: Inlet Protection



B6: Inlet Protection



B6: Inlet Protection



2013 Kirby Lee - USA TODAY Sports

Inlet Protection as safety

B7: Runoff Control

- Diversion Berms
- Diversion Swales
- Slope Drains



B7: Runoff Control



B8: Outlet Protection

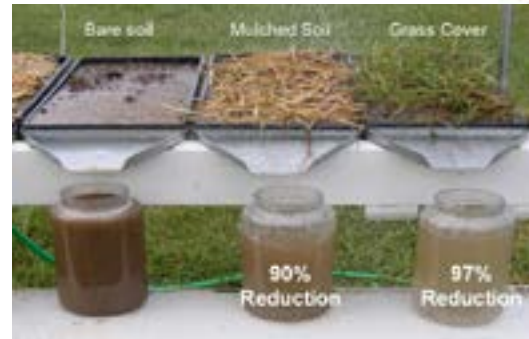
- Permanent BMPs
- End Sections
 - Splash Pads
- No Sediment Traps or Check Dams



B11: Temp Stabilization

- Length of Time
- Demo to Construction Gap
- Phases
- Mobilizations
- Seasons
- Soil Stockpiles

B11: Temp Stabilization



B12: Perm Stabilization

More than Turf

- Erosion Control Blanket
- Landscaping
- Native Plants
- Pavement



B15: Individual Lots



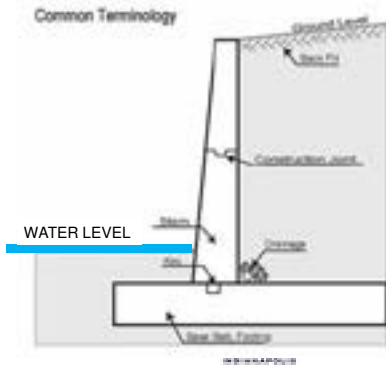
C1-5: Post Construction

- Meets City Standards
- Addresses Pollutants of Concern
 - 80% TSS Removal
 - Floatables
- Includes O&M Manuals
- Installation Sequencing
 - Ponds as Sediment Basins
 - Hydrodynamic Separators
 - Rule 5 Language Changes

Constructability



Constructability



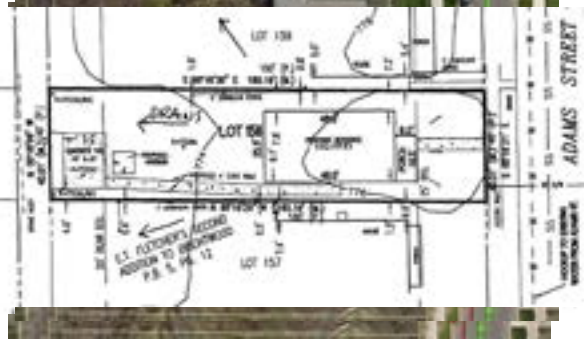
Constructability



Example



Example



Pop Quiz !

- What BMPs are needed if new basement?
 - Dewatering
 - Concrete washout
- Three Requirements of Inlet Protection
 - Does not impede traffic
 - Overflow
 - Maintainable without Dropping Sediment

Pop Quiz !

- What is considered off-site?
 - Adjoining property
 - Street
 - Waterways
 - Storm Sewer

APPENDIX II.G – Public Education and Outreach

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PRESS RELEASE

FOR IMMEDIATE RELEASE

July 28, 2017

MEDIA CONTACT: Dimitri Kyser
Public Information Officer - Department of Business & Neighborhood Services
(317) 327-3785; Dimitri.Kyser@indy.gov

HAUGHVILLE NEIGHBORHOOD TRASH SWEEP

CITY AGENCIES CLEAN COMMUNITY AS PART OF "IT'S MY CITY" INITIATIVE

INDIANAPOLIS – On Monday, July 31, the Department of Business and Neighborhood Services (BNS) and the Department of Public Works (DPW) will assist the Indianapolis Metropolitan Police Department (IMPD) for a trash sweep in the Haughville community. City agencies will, also, cut back unsightly brush and vegetation that has become a nuisance for residents of the community. Clean-up teams will arrive at 8:45 a.m. for a briefing prior to the beginning of the sweep. The trash sweep location in Indianapolis' Haughville community was selected due to a high frequency of trash and illegal dumping cases and unkempt brush cases reported over the years by citizens to the Mayor's Action Center.

This neighborhood cleanup is a part of Mayor Hogsett's commitment to hold monthly trash sweeps in areas of the City most affected by illegal dumping and litter. The "It's My City" initiative is a three-year campaign intended to reignite civic engagement in Indianapolis. The campaign will have a new focus each year, beginning with 2017 as the year of clean. The Haughville neighborhood sweep marks the fourth targeted sweep this year, following last month's cleanup in Fountain Square community.

Residents can help keep their neighborhoods clean by disposing of heavy trash items on scheduled heavy pickup days, taking hazardous household waste to ToxDrop locations or by organizing a Great Indy Cleanup event through Keep Indianapolis Beautiful.

To report trash or illegal dumping call the Mayor's Action Center (MAC) at 327-4MAC, go online to RequestIndy at www.indy.gov/requestindy or download the RequestIndy Mobile Application on your smartphone.

B-roll opportunity: Teams will pick up litter in the streets and alleyways, and DPW trucks will haul away heavy trash near North Concord Street. Pre-Sweep briefing at the Kroger Grocery Store parking lot (2630 W. Michigan St.) near West Michigan Street and King Avenue.

###



PRESS RELEASE

FOR IMMEDIATE RELEASE

August 28, 2017

MEDIA CONTACT: Dimitri Kyser
Public Information Officer - Department of Business & Neighborhood Services
(317) 327-3785; Dimitri.Kyser@indy.gov

REAGAN PARK COMMUNITY SWEEP

"IT'S MY CITY" INITIATIVE BRINGS CITY AGENCIES AND PARTNERS TOGETHER TO TACKLE TRASH

INDIANAPOLIS – On Tuesday, August 29, 2017, the Department of Business and Neighborhood Services (BNS), the Department of Public Works (DPW) and Keep Indianapolis Beautiful, Inc. (KIB) will come together to clean up litter and remove illegally dumped materials in the Reagan Park community which have become a nuisance concern for residents and businesses.

Clean-up teams will arrive at 8:45 a.m. for a pre-sweep briefing at Harvest Christian Fellowship, 923 E. 25th St. City representatives and KIB volunteers will cleanup trash in the community from 9:00 a.m. to 12:00 p.m. Additional volunteers are more than welcome to come out and participate.

The Reagan Park community was selected as the next neighborhood in a series of cleanups due to a high rate of trash and illegal dumping cases reported by residents to the Mayor's Action Center over the years. The cleanup is the fifth targeted sweep this year, following last month's cleanup in the Haughville community.

The Reagan Park trash cleanup is a part of Mayor Hogsett's commitment to hold monthly trash sweeps in areas of the City most affected by litter and illegal dumping. The "It's My City" initiative is a three-year campaign intended to reignite civic engagement in Indianapolis. The campaign will have a new focus each year, beginning with 2017 as the year of clean.

Residents can help keep their neighborhoods clean by disposing of heavy trash items on scheduled heavy pickup days, taking hazardous household waste to ToxDrop locations or by organizing a Great Indy Cleanup event through Keep Indianapolis Beautiful.

To report trash or illegal dumping call the Mayor's Action Center (MAC) at 327-4MAC, go online to RequestIndy at www.indy.gov/requestindy or download the RequestIndy Mobile Application on your smartphone.

Reagan Park Community Sweep:

Who: City of Indianapolis, Dept. of Business and Neighborhood Services, Dept. of Public Works, Keep Indianapolis Beautiful, Inc.

What: Community Trash Sweep

When: Tuesday, August 29, 2017, 9:00 a.m. – 12:00 p.m. (pre-sweep briefing at 8:45 a.m.)

Where: Pre-Sweep Briefing – Harvest Christian Fellowship parking lot (923 E. 25th St.)

B-roll opportunity: Teams will pick up litter on private property, streets and alleyways. DPW trucks will supply trucks to haul away heavy trash items and illegally dumped materials. Pre-Sweep briefing will occur at 8:45 a.m. in the parking lot of Harvest Christian Fellowship (923 E. 25th St.). The sweep will be from 9:00 a.m. to 12:00 p.m. Teams will operate between 25th to 22nd (north to south) and College Avenue to Winthrop Avenue (west to east).

###



KEEP INDIANAPOLIS BEAUTIFUL REPORT TO THE CITY

Date: December 16, 2015

To: Nila Richmond, Anthony McDaniel, Alan Bacon, Mike Massonne, Bill Kinscius, Melody Park, Shawn Brock, Elaine Dillahunt

From: Christine Duncan-Vice-President/Programs, KIB

Re: KIB Monthly Report-November, 2015

Below, you will find a report of the activities of Keep Indianapolis Beautiful(KIB) in relationship to our contract obligations to the City of Indianapolis during the month of November, 2015.

Vibrant Neighborhoods:

Great Indianapolis Cleanup (GIC): 2015 Contract Goal- 200 cleanups

Clean-ups to Date: 428 Volunteers to Date: 13,132 Trash picked up to Date: 1,675,680 lbs.

With the Great Indy Cleanup season coming to an end in October, November is the month to complete the numbers, finish the reporting and start planning for next year! As previously noted, Tammy Stevens, left as the GIC Coordinator in late September. We will be posting the position in early November and hopefully will have the position rehired in January. The dates and neighborhoods in 2016 are: April 3-Betty Beecher Smith/Paul Rosse's quadrants, April 9-Finish Line on the east side, April 16-Speedway, April 23rd-the Old Southside.

Neighborhood Beautification:

2015 New IPL Greenspaces: 3 IPL Greenspaces in 3 year Maintenance agreement: 12

Finishing touches are being completed on the 2015 3 IPL Greenspaces. Ransom Place pocket park is an incredible tribute to the history of the area and is a "must see". Community meetings have begun with the 5 new 2016 Greenspaces: Springdale, Town of Speedway, Wheeler Mission, Ringgold Park and Felege Hiywot. Designs are starting. We held the second meeting for the Greenspace Alumni club, which was a big success, again! These past project leaders are anxious to keep their parks in beautiful shape, so getting together to share ideas and network is a part of their sustainability.

Great Places: 2015 LISC-led Great Places 2020: 3 (Near West, Englewood and 38th & Illinois)

No additional news on the three Great Place locations as KIB has completed their projects in each location.

Adopt-A-Block: 2015 Contract Goal: 750 blocks adopted Blocks adopted to date: 935

With each new block adopted, KIB meets a new record of blocks adopted. These block captains are vital to KIB as they are the "committed" people in their neighborhoods who want to keep their block clean, but are also great connectors within their neighborhood. KIB will be transforming the already-successful Adopt-A-Block annual awards dinner into the KIB Green Carpet Volunteer Awards dinner in 2016. It will be an ALL Volunteer event, so with the numbers of AABers who already attend, it should be THE Volunteer event to attend in town! Our new goal for AAB coordinators in 2016 is 1,000!

Youth Involvement:

KIB Clubs: 2015 KIB Clubs: 5 Total Elementary Students "reached" to date with KIB Club event programs: 1443 Elementary students enrolled in schools with KIB Clubs: 1,178

Elementary students enrolled in the KIB Clubs: 158 Corporate groups engaged to date: 17

Heather Maurer, KIB Clubs Coordinator, facilitated the Children's Craft Area at the KIB Volunteer Happy Hour tailgate. She also began working with the contractor on plans for the brick paver pathway installation at Spring Mill Elementary. A maintenance day was also held at Avendale Meadows Academy. After-school club meetings were continued at all of the 2015 KIB Club partner schools. KIB will also design and hold a project management training program for all KIB Club teachers. It will be a huge help to keep the clubs maintained after KIB's three year partnership with them. Other project partners are being worked such as DePave and IDNR.

Youth Tree Team: YTT watered: 0 trees Staked 0 trees; Unstaked: 0 trees Removed: 0 dead trees Mulched: 0 trees

YTT season has come to an end with the weather cooling off and the trees going into dormancy. With the weekend tree plantings that KIB did have, some of the YTT leaders did help in off- loading trees on Thursdays and Fridays prior to the plantings. Ned Brockmeyer, Youth Tree Team Manager, attended the AcTrees Conference in Denver, where much information is shared on youth employment in not-for-profits with the same mission as KIB.

Public Relations:

Number of webpage hits relating to the City of Indianapolis this month= 21,100

Number of mailings that mention the City of Indianapolis this month=1 to 28,115 subscribers

Number of press releases that mention the City of Indianapolis this month= 0

This month KIB highlighted our pocket park work in an effort to encourage residents to get outside through REI's #OptOutside campaign. Through an aggressive email and social media campaign, KIB's IPL Project Greenspace locations, as well as public art murals through the Vibrant Corridors initiative were promoted. Additionally, we prepared and took part in pre-promotion of #giving Tuesday, which we branded #GivingTreesDay. This campaign served to help raise money for our community tree planting.

Media hits:

- Indianapolis Star: Graffiti: Art or Nuisance?
- Hendricks County Flyer, Veterans Tribute has a Place of Honor
- The Southside Times, Anchored in Prayer
- Indianapolis Business Journal, NAWIC Monthly Meeting
- Fox59, Suburu, Community Tree Planting
- WTHR, Speedway & KIB, IPL Project Greenspace

Volunteers:

Number of Groups: 14

Number of group volunteers: 80

Number of corporate groups: 2

Number of corporate volunteers: 15

Number of projects: 29

Number of volunteers in parks: 78

Total volunteer experiences: 1,206

Recycle:

-Recycling calls (dumpsters) =9

-Recycling calls/emails = 5

-Trash boxes to city= 10

- Recycling bins 2 loaned to 1 different organizations

Looking Ahead:

December is a huge wrap-up month for KIB. Much year-end reporting is being completed. The Tree Team is already planning for spring plantings, so will be out in several states tagging trees. An Alumni club meeting will be held for the KIB Clubs, a new endeavor. Several after work “thank you” gatherings are being planned for the Tree Tender and Ambassador Volunteer Groups. (Both of which were huge successes this year with more volunteers signing up than ever!)

Keep Indianapolis Beautiful is grateful for the partnership with the City of Indianapolis and looks forward to continuing our work together in 2016!



KEEP INDIANAPOLIS BEAUTIFUL REPORT TO THE CITY

Date: January 31, 2016

To: Lori, Miser, Anthony McDaniel, Alan Bacon, Mike Massonne, Bill Kinscius, Melody Park, Shawn Brock, Linda Broadfoot, Dan Goldblatt, Jennifer Hashem

From: Christine Duncan-Vice-President/Programs, KIB

Re: KIB Monthly Report-December, 2015

Below, you will find a report of the activities of Keep Indianapolis Beautiful(KIB) in relationship to our contract obligations to the City of Indianapolis during the month of December, 2015

Vibrant Neighborhoods:

Great Indianapolis Cleanup (GIC): 2015 Contract Goal- 200 cleanups

Clean-ups to Date: 428 Volunteers to Date: 14,005 Trash picked up to Date: 1,745,700 lbs.

The position for the new GIC Community Coordinator was posted with interviews starting in January. KIB received over 80 applications for the position! Meetings are being held with the Old Southside community, the Focus neighborhood for the April 23rd cleanup, to begin discussions on what they would like to have done in their neighborhood. Meetings are also being held with DPW to start scheduling trucks and dumpsters for the spring cleanups.

Neighborhood Beautification:

2015 New IPL Greenspaces: 3 IPL Greenspaces in 3 year Maintenance agreement: 12

Planning and design meetings with the communities are in full gear for the five new IPL Greenspaces, which include: Wheeler Mission, Ringgold Park, Felege Hiywot, Town of Speedway and Springdale. Work is also being completed on paths and a tressel in Willard Park, which is a 2015 Greenspace project. Maintenance handbooks are being completed for the 2015 Greenspace projects, which give each Project Leader a roadmap on how to properly care for their pocket park.

Great Places: 2015 LISC-led Great Places 2020: 3 (Near West, Englewood and 38th & Illinois)

No additional news on the three Great Places locations as KIB has completed their projects in each location.

Adopt-A-Block: 2015 Contract Goal: 750 blocks adopted Blocks adopted to date: 945

With each new block adopted, KIB meets a new record of blocks adopted. The program now has 945 blocks adopted, past the 750 block goal. Substantial time was committed to continuing to review current block captains, which is a biannual process. This might result in a decrease in block participation, but will provide a more accurate view of our current adopters. Plans are also in high gear for the March AAB Appreciation dinner, which has been expanded to include all KIB Volunteers! It will be a "Green Carpet" Awards Dinner held at the Biltwell. The KIB Awards will be given to volunteers from each of our KIB Programs.

Youth Involvement:

KIB Clubs: 2015 KIB Clubs: 5 Total Elementary Students "reached" to date with KIB Club event programs: 1443 Elementary students enrolled in schools with KIB Clubs: 1,178

Elementary students enrolled in the KIB Clubs: 158 Corporate groups engaged to date: 17

Final 2015 KIB Club meetings were held in KIB school. The review process continued for the 2016 KIB Club partner school with the grant being given to IPLS School 91 for the next three years. Maintenance days were being planned for corporate groups to take advantage of in 2016. The first KIB Club Alumni meeting was held. This Alumni Group is open to all past and present KIB Club leaders as a way to continue to share information, develop compelling curriculum and help keep their clubs sustainable and interesting throughout the years. Maintenance manuals were completed for the 2015 schools. These manuals serve as roadmaps for keeping the outdoor classrooms in top condition.

Youth Tree Team: YTT watered: 0 trees Staked 0 trees; Unstaked: 0 trees Removed: 0 dead trees Mulched: 0 trees

Planning is in full force for recruiting for the new 2016 Youth Tree Team. Collateral material was updated for the schools and Ned Brockmeyer, Manager of the YTT Program, began meeting with schools to describe the program. Christine Duncan and Ned took a trip to Indiana University to meet with Professor Sarah Mincey. She will be helping KIB design a survey that will be given to current YTT members to assess their summer experience. In addition, a survey will be designed to give to all of the 300 past YTT members two years after they are out of the program. We are very interested to see how the YTT summer job experience affected their career and life choices. In addition, KIB is working with John Branden of MCCOY to develop a "certificate of completion" that will be awarded to all YTT youth who demonstrate the skillsets that are required by many employers after their YTT experience(ex: timeliness, communication skills, teamwork,etc.) . This certificate will be yet another benefit the youth receive from this exceptional youth work program.

Public Relations:

Number of webpage hits relating to the City of Indianapolis this month: 2312

Number of mailings that mention the City of Indianapolis this month=1 to 14,633 subscribers

Number of press releases that mention the City of Indianapolis this month=0

We ended the year with fundraising appeals, both to our entire KIB audience and to segmented lists. Additionally, we began planning for the KIB Donor Lunch in March. KIB also hosted a group from Project from Public Spaces (PPS-based in New York). In this meeting, KIB was able to highlight our greenspace program and leverage our relationships with the Indiana Historical Society and the City of Indianapolis. This meeting was very successful and there are numerous follow-ups planned. KIB is continuing to get national recognition for our programs including The IPL Greenspace programs and Youth Tree Team. The Indy Star also featured our greenspace program in a multiple page story highlighting our partnerships and project work.

Media highlights this month include:

- Indianapolis Star-Pocket parks changing landscapes
- Indianapolis Star-"Here's where to dispose of that old Christmas Tree"

Volunteers:

Number of Groups: 0

Number of group volunteers: 0

Number of corporate groups: 0

Number of corporate volunteers: 0

Number of projects: 14

Number of volunteers in parks: 0

Total volunteer experiences: 963

Total hours: 980

Recycle:

-Recycling calls (dumpsters) = 3

-Recycling calls/emails = 17

-Trash boxes to city= 0

- Recycling bins 20 loaned to 1 different organization

RECAP/Looking Ahead:

2015 has been a very successful year for KIB. We exceeded our goals for cleanups in the city as well as the number of Adopt-A-Block captains. 20,790 people had one time volunteer engagements with KIB and there were 32,706 volunteer experiences (accounts for repeat experiences). Our repeat volunteers were UP 20%. KIB had 300 volunteer satisfaction surveys returned throughout the project season and on a scale of 1-5 (5 being the best), KIB averaged a 4.8! (up from 4.7 last year!) There are 29 active Ambassador volunteers and 23 active Tree Tenders, our two specialized "super volunteer" programs. KIB, with the help of Butler University and Current Consulting, facilitated our first ever IPL Greenspace survey in the neighborhoods surrounding our Greenspace pocket parks. The survey results helped us to see how these parks help connect the neighborhoods to nature, community and to the health benefits of getting outdoors. In 2016, we will begin work on developing and facilitating a multi-year survey, with the help of Indiana University, to assess how being involved with the Youth Tree Team impacts the career and life decisions of the youth in the years after their program participation. KIB also started the Urban Naturalists Program. This program is made up of a team of six university students that seek careers in green collar industries upon graduation. They have done invasive removal projects along waterways, worked with the city replanting the stormwater planters at Central State and weeded and cared for the Fall Creek bioswales. They also were very involved with caring for the CEG stormwater planters in the Fairfax neighborhood. The students have weekly enrichment programs which allow the students to interact with different "green infrastructure" businesses. KIB planted 2,786 trees and pruned 5,155 city trees during 40 projects in 2015 and to date, has planted 47,278 trees towards our goal of 100,000. KIB has also completed our much anticipated HotSpot map will give us much canopy information for future planting opportunities as well as many other layers (health, social capital, etc) that will be most useful in helping to guide our workplan for 2016. It has been a busy year with many "wins" of which we are most proud. We are most thankful to our partnership with the City of Indianapolis and look forward to working with the city in the year ahead.



KEEP INDIANAPOLIS BEAUTIFUL REPORT TO THE CITY

Date: February 25, 2016

To: Lori, Miser, Anthony McDaniel, Alan Bacon, Mike Massonne, Bill Kinscius, Melody Park, Shawn Brock, Linda Broadfoot, Dan Goldblatt, Jennifer Hashem

From: Christine Duncan-Vice-President/Programs, KIB

Re: KIB Monthly Report-January, 2016

Below, you will find a report of the activities of Keep Indianapolis Beautiful(KIB) in relationship to our contract obligations to the City of Indianapolis during the month of January, 2016.

Vibrant Neighborhoods:

Great Indianapolis Cleanup (GIC): 2015 Contract Goal- 200 cleanups

Clean-ups to Date: 0 Volunteers to Date: 0 Trash picked up to Date: 0

Interviews took place much of January to find the new Great Indy Cleanup coordinator. In the meanwhile, Director of Community Engagement, Joe Jarzen and CECommunity Coordinator, Matt Wakefield, met with DPW staff several times to work through the proper amount of resources available for the program starting April 1 and ending October 22nd. The Focus neighborhood for spring is the Old Southside, so community meetings have been held to work on the details. Communities and neighborhoods are already signing up for their spring cleanups!

Neighborhood Beautification:

2016 New IPL Greenspaces: 5 IPL Greenspaces in 3 year Maintenance agreement: 12

The five new IPL Greenspace projects are Springdale(Pogues Run),Wheeler Mission, Town of Speedway, Ringgold Park and Felege Hiywot. The KIB Engagement staff and project managers held community meetings to review the designs for their spaces. Meetings with partners, the Arts Council and the Indiana Humanities Council were also held, as they will be supporting art in two of the pocket park locations. Year-end Maintenance handbooks were designed and reviewed with the project partners for the 2015 projects. These very important handbooks are one of the key resources to the proper maintenance and sustainability of each project. Dr. Ali O'Malley (Butler) and Kelly Harris(Current Consulting) are completing their research on the IPL Greenspace pocket parks that was conducted in 2015 and will present the findings in February. The IPL Greenspace Alumni Club, for past and present partners, was being programmed and scheduled for February. This new club has been so well attended and will be another key to keeping pocket parks maintained and sustainable throughout the years. In order for any past project partner to request a SAP (Sustainability Award Program) Grant from KIB, they must be an active member of the Greenspace Alumni Club. KIB will award \$2,000 in SAP grants in 2016. They are to be used for sprucing up their KIB Greenspace.

Great Places: 2015 LISC-led Great Places 2020: 3 (Near West, Englewood and 38th & Illinois)

Maintenance handbooks and ongoing engagement is continuing in these three neighborhoods.

Adopt-A-Block: 2016 Contract Goal: 750 blocks adopted Blocks adopted to date: 500

This program is undergoing a process for renewals to re-engage the 940 block captains. Emails and a newsletter was sent to make block captains aware that they need to renew their commitment to continue as a block captain in 2016. A drop in numbers is expected, but renewals are going well so far with over 500 blocks already re-engaged. Plans for the much-expanded KIB Volunteer Appreciation Dinner (March 23) are in high gear. It will be held at the Biltwell Center and all KIB Volunteers are invited. The KIB Awards will be given out to exceptional volunteers.

Youth Involvement:

KIB Clubs: 2016 KIB Clubs: 5 Total Elementary Students "reached" to date with KIB Club event programs: 1443 Elementary students enrolled in schools with KIB Clubs: 1,178

Elementary students enrolled in the KIB Clubs: 158 Corporate groups engaged to date: 0

KIB Club meetings started back up after the holiday break. The new KIB Club, School 91, had their first meeting. The calendar for maintenance days throughout the summer so that corporate groups can sign up for them (they really enjoy working at schools). Ash Tree removal began at Skiles Test School. New curriculum is being created for Year Two of the other four schools.

Youth Tree Team: YTT watered: 0 trees Staked 0 trees; Unstaked: 0 trees Removed: 0 dead trees Mulched: 0 trees

January begins recruitment season for the Youth Tree Team. Ned Brockmeyer, the YTT Program Manager shared the information and application forms with schools, universities, churches, after school organizations and any organizations with potential employees. At the end of January, KIB had already received over 100 applications for the summer program! Planning for the YTT overnight camping trip and planning the worksites for spring and summer were also part of the January schedule. This year, KIB and IU/Bloomington will partner for the first time to offer qualified YTT students the opportunity to spend FOUR days at "Camp" down on the Bloomington campus. The curriculum will be designed within the SPEA school (focusing on careers in green collar industries) and will be offered to sophomore and juniors in the program. We are very excited to partner with IU on this new endeavor and think that it will be an additional benefit to the already successful youth work program. In addition, KIB is working with MCCOY to help us build guidelines to "certify" the YTT program. Those youth meeting standards based on good work habits will earn a certificate at the end of the summer. The purpose is to give the students an additional "benefit" when they go to interview for new jobs.

Public Relations:

Number of webpage hits relating to the City of Indianapolis this month: 2978

Number of mailings that mention the City of Indianapolis this month= 1 to 13927subscribers

Number of press releases that mention the City of Indianapolis this month=0

We began this year by implementing a large scale mailing to the Butler-Tarkington neighborhood about our work with Great Places 2020 and the importance for community pride and litter abatement through the Adopt-A-Block program. We followed up this mailing with a presentation to the Butler-Tarkington neighborhood Association. Since that meeting, we have seen a slight increase in the number of Adopt-A-Block captains. This, coupled with other initiatives from the community garnered media attention.

We release the announcement regarding our newest KIB Club at IPS #91.

We began planning for our upcoming Greenspace Alumni Club meeting by leveraging a partnership with the Indiana Wildlife Federation. This partnership will incorporate IWF's Native Habitat workshop and hopefully off-set programming cost with an alternative to purchasing native plants for our Adopt-A-Block captains.

We also spent most of the month planning our annual Donor Appreciation Luncheon on Tuesday, March 1st. Acknowledgment and appreciation are key to our work and we plan to focus much of 2016, from a PR perspective, on Awareness, Advocacy and Appreciation. KIB hopes to honor former Mayor Ballard and Mayor Hogsett. 2016 is the 40th ANNIVERSARY for KIB so we are also planning many tie-in events throughout the year to highlight this exceptional accomplishment!

Volunteers:

Number of Groups: 6

Number of group volunteers: 30

Number of corporate groups: 6

Number of corporate volunteers: 30

Number of projects: 23

Number of volunteers in parks: 0

Total volunteer experiences: 622

Total hours: 0

Recycle:

-Recycling calls (dumpsters) = 3

-Recycling calls/emails = 5

-Trash boxes to city= 0

- Recycling bins=34 loaned to 3 different organizations

Looking Ahead:

January is a big month for planning for the spring project season. Budgets are being finalized, sponsors being sought and the permitting and planning process has begun. February will see planning for the Great Indy Cleanup in full force. Our new Great Indy Cleanup Coordinator, Lauren Wright, will start her new position. Many meetings with the DPW crew will commence getting ready for the Great Indy Cleanup. Meetings are being set to meet with the new administration in the various departments. Recruiting for the Youth Tree Team and the Urban Naturalist team will begin for the spring/summer crews.



KEEP INDIANAPOLIS BEAUTIFUL REPORT TO THE CITY

Date: March 15, 2016

To: Lori, Miser, Anthony McDaniel, Alan Bacon, Mike Massonne, Bill Kinscius, Melody Park, Shawn Brock, Linda Broadfoot, Dan Goldblatt, Jennifer Hashem

From: Christine Duncan-Vice-President/Programs, KIB

Re: KIB Monthly Report-February, 2016

Below, you will find a report of the activities of Keep Indianapolis Beautiful(KIB) in relationship to our contract obligations to the City of Indianapolis during the month of February, 2016.

Vibrant Neighborhoods:

Great Indianapolis Cleanup (GIC): 2016 Contract Goal- 200 cleanups

Clean-ups to Date: 0 Volunteers to Date: 0 Trash picked up to Date: 0

Lauren Wright was hired as our new Great Indy Cleanup Coordinator. She started meetings with the Old Southside Neighborhood for the Focus Area Cleanup on April 23rd. Lauren met with the new Mayor's Press Secretary along with Chris Duncan, Joe Jarzen and Matt Wakefield to start talking about the event with the new administration. KIB would very much like to have Mayor Hogsett to attend the April 23rd event and has put in a request for that date. Weekly meetings with DPW are in the works and requests are coming as neighborhoods schedule their cleanups and need dumpsters of packer trucks.

Neighborhood Beautification:

2016 New IPL Greenspaces: 5 IPL Greenspaces in 3 year Maintenance agreement: 12

Meetings are being held with the five neighborhoods getting greenspaces to complete the designs. The five greenspaces for 2016 are Springdale, Town of Speedway, Ringgold Park, Felege Hiwot and Wheeler Mission. Art Installations will be going into Town of Speedway in partnership with the Arts Council and Springdale. The ROW Pogues Run waterway committee has applied for a Kreskge grant for the Springdale greenspace, which will be awarded in March. KIB has been working with Indy Parks on the Ringgold project, as that has faced some permitting issues. Town of Speedway project will be put off until after the big 100th running of the Indy 500. Maintenance days are starting to be scheduled with volunteer and corporate groups for the 12 greenspaces that are in the maintenance phase of their partnership. The Greenspace Alumni Club met, with great attendance. The Indiana Wildlife Foundation did a presentation on how to build Backyard Habitats.

Great Places: 2015 LISC-led Great Places 2020: 3 (Near West, Englewood and 38th & Illinois)

Maintenance days are being planned for the three great places this spring. Discussions are taking place whether there could be trails possibly created along the B & O corridor on the Near West side, near the pocket park created their for Great Places.

Adopt-A-Block: 2016 Contract Goal: 750 blocks adopted Blocks adopted to date: 380

The program is undergoing a process for renewals to re-engage the 940 block captains from last year. A renewal email was sent to block captains to encourage them to renew their commitment to be a captain in 2016. After recalculating the number of truly active people, we have 380 captains, so an ambitious way to go to meet the 950 goal. Work continued on the plans for the Volunteer Appreciation Dinner. Heartland Growers is contributing native plants for the spring distribution.

Youth Involvement:

KIB Clubs: 2016 KIB Clubs: 5 Total Elementary Students “reached” to date with KIB Club event programs: 1443 Elementary students enrolled in schools with KIB Clubs: 1,178

Elementary students enrolled in the KIB Clubs: 158 Corporate groups engaged to date: 0

KIB signed an agreement with the DNR implementing a cost-share program for plantings at Skiles Test Elementary. Also attended the Binford Redevelopment and Growth monthly meeting to discuss strategies to engage the community at the Skiles Test Elementary Eco Trail. KIB Program Manager Heather Maurer presented to the Kiwanis Foundation of Indianapolis about the KIB Clubs program. Also began exploring relationships with 1st Makers Space and AYS(At-your-School Child services). All schools are engaging in their classroom programs and spring projects on their outdoor classrooms are being scheduled.

Youth Tree Team: YTT watered: 0 trees Staked 0 trees; Unstaked: 0 trees Removed: 0 dead trees Mulched: 0 trees

February continues recruitment season for the Youth Tree Team. Ned Brockmeyer, the YTT Program Manager shared the information and application forms with schools, universities, churches, after school organizations and any organizations with potential employees. At the end of February, KIB had already received over 260 applications for the summer program! Planning for the YTT overnight camping trip and planning the worksites for spring and summer were also part of the January schedule. Ned and Chris continued planning with IU/Bloomington for the first annual youth “ Eco-Camp” down on the Bloomington campus. The curriculum will be designed within the SPEA school (focusing on careers in green collar industries) and will be offered to sophomore and juniors in the YTT program. Our YTT youth (who meet the requirements we are putting together) will apply directly to the program and the IU staff will choose the 26 youth who will be able to attend the four day camp in early July. We are very excited to partner with IU on this new endeavor and think that it will be an additional benefit to the already successful youth work program. In addition, KIB is working with MCCOY to help us build guidelines to “certify” the YTT program. Those youth meeting standards based on good work habits will earn a certificate at the end of the summer. The purpose is to give the students an additional “benefit” when they go to interview for new jobs.

The Pruning team pruned 87 trees at Fall Creek and Delmar in the restoration area.

Public Relations:

Number of webpage hits relating to the City of Indianapolis this month: 1904

Number of mailings that mention the City of Indianapolis this month= 2 to 14,627subscribers

Number of press releases that mention the City of Indianapolis this month=0

Working closely with the Community Engagement Department and the Great Indy Cleanup Coordinator, collateral was created and meetings were held for the annual Great Indy Cleanup. Again, KIB will be partnering with the Indy Public Library to encourage residents to abate litter through the Every Litter Bit Helps campaign. This campaign leverages the wonderful work residents accomplish through traditional neighborhood cleanups that leverage City resources—it also encourages participants to share their experience via social media.

We also planned heavily for our annual Donor Appreciation Lunch, which was held at Barnes and Thornburg. A takeaway from this annual thank you event were hand screen-printed seed packets containing native flower seeds picked by KIB’s Urban Naturalist Team.

Lastly, KIB had a Facebook post go viral on Valentine’s Day. Nearly 50,000 people liked this post highlighting a story of a youth worker at Kroger helping a visually impaired shopper with his grocery shopping. This post was picked up by every news station in Indy. Atlanta and Colorado affiliates also covered the story, as did the Huffington Post.

Media Highlights this month:

-Greenwood and Southside Challenger, KIB to Present at ISO

-WTHR, Facebook post goes viral

-WISHTV-Facebook post goes viral

-Fox59-Facebook post goes viral

Huffington Post-Facebook post goes viral

Volunteers:

Number of Groups: 0

Number of group volunteers: 0

Number of corporate groups: 0

[Number of corporate volunteers: 0](#)

[Number of projects: 23](#)

[Number of volunteers in parks: 0](#)

[Total volunteer experiences: 470](#)

[Total hours: 0](#)

Recycle:

[-Recycling calls \(dumpsters\) = 3](#)

[-Recycling calls/emails = 5](#)

[-Trash boxes to city= 0](#)

[- Recycling bins=34 loaned to 3 different organizations](#)

Looking Ahead:

[March is the beginning of spring project season for KIB so the calendar is getting booked with weekend tree plantings, maintenance/spring cleanups on IPL Greenspace pocket parks and the beginning stages of our five new greenspace projects. KIB is working with Lori Miser and Jason Larrison on finding ways to make the permitting process more efficient for tree plantings and pocket parks. The Green Carpet Volunteer Appreciation Dinner is being held on March 23rd at the Biltwell Center. KIB is expecting 350 volunteers, with a visit from the new Mayor. KIB is thankful, as always for it's ongoing partnership with the City of Indianapolis.](#)



KEEP INDIANAPOLIS BEAUTIFUL REPORT TO THE CITY

Date: April 21, 2016

To: Lori, Miser, Anthony McDaniel, Alan Bacon, Mike Massonne, Bill Kinscius, Melody Park, Shawn Brock, Linda Broadfoot, Dan Goldblatt, Jennifer Hashem

From: Christine Duncan-Vice-President/Programs, KIB

Re: KIB Monthly Report-March, 2016

Below, you will find a report of the activities of Keep Indianapolis Beautiful (KIB) in relationship to our contract obligations to the City of Indianapolis during the month of March, 2016.

Vibrant Neighborhoods:

Great Indianapolis Cleanup (GIC): 2016 Contract Goal- 200 cleanups

Clean-ups to Date: 0 Volunteers to Date: 0 Trash picked up to Date: 0

The Old Southside Neighborhood is the deep dive target neighborhood for the spring kickoff on April 23rd. Many meetings are being held for the "day of" and projects were finalized and details for each site were discussed. 15 different projects will be completed on that day. Lauren Wright, the new Great Indy Cleanup Coordinator, met with DPW weekly for GIC updates to make sure everything is on task for the April weekend cleanups and the main event. Registration forms continued to come in steadily. Dumpsters for April 9th and April 16th reached the maximum allowed to be reserved. One change in the program is that we are now allowing HOA's to do cleanups and have dumpsters as well. Adopt-A-Block and Great Indy Cleanup supply distribution took place on March 18th & 19th. Many community coordinators came by and picked up supplies and also signed up to become an AAB captain! Southside Landfill, Covanta and Republic was confirmed as sponsor. We could NOT do this program without them and we would like to say THANK YOU in this report. "The Every Litter Bit Counts" campaign also kicks off in partnership with the Indianapolis Public Library on April 1st.

Neighborhood Beautification:

2016 New IPL Greenspaces: 5 IPL Greenspaces in 3 year Maintenance agreement: 12

New projects for 2016 : Springdale- the Kresge Grant was awarded and the design for the project is complete. The team met with the Indiana Historical Society at the end of March to begin work on the interpretive elements for the historical panels. Wheeler Mission-KIB confirmed with Wheeler and its architects that the planters will be relocated to be along East St. and Wheeler will be in charge of securing all permitting for project. They will be planted in October. Feleyge Hiywot, Ringgold and Town of Speedway are all in stages of design and planning. Thanks to Jason Larrimore for helping to move the permitting process along more quickly.

The Greenspace Alumni Club continues to be a great source of staying in touch with our past Greenspace projects and several have applied for and received a small SAP (Sustainability) grant that KIB offers to alumni club members only.

Great Places: 2015 LISC-led Great Places 2020: 3 (Near West, Englewood and 38th & Illinois) Maintenance on the planters at 38th street/Illinois and community engagement continue at all three locations. Meetings are starting to be held with LISC to understand where the next three locations will be.

Adopt-A-Block: 2016 Contract Goal: 750 blocks adopted Blocks adopted to date: 623 The Adopt-A-Block wrapped up its official renewal process in March after the Volunteer Appreciation Dinner. More renewals will come throughout the year, but with renewals and new sign-ups, we stand at 623 captains, up from 380 last month. This is great progress and good to know that this 623 is a firm number of committed captains. The biggest event for AAB was held on March 23rd..the annual Volunteer Appreciation Dinner. This was the first year that the annual AAB dinner was combined with all KIB volunteer programs, so the Green Carpet Volunteer Dinner was attended by 400 people at the Biltwell Center. Green Glove Awards were presented along with a fabulous dinner and dessert auction. The dinner was a huge success and almost twice as large as last year's award dinner. The Mayor attended which added to the excitement of the evening.

A "Little BIG" grant was awarded to IMPD and Rivoli Park Neighborhood on March 26th which went well. The supply distribution was held, went well and had several new captains sign up.

Youth Involvement:

KIB Clubs: 2016 KIB Clubs: 5 Total Elementary Students "reached" to date with KIB Club event programs: 1443 Elementary students enrolled in schools with KIB Clubs: 1,178

Elementary students enrolled in the KIB Clubs: 78 Corporate groups engaged to date: 0

Partnerships explored: Girl Scouts of Central Indiana, Evo Rock Climbing Gym, AYS, the STEM connection.

Work at school KIB Clubs: Began planting grow lab at CFI2 and working on prepping spring garden beds, secured 2016 partnership with Bartlett Tree Experts at Skiles Test Elementary, worked on design for IPS School 91, worked with Gardens of Growth to consult on outdoor chalkboard installation at CFI2, edging installed at Eleanor Skillen Elementary, working with Community Forestry to try and figure out a way to protect the fruit trees at Eleanor Skillen. Vandalism continues to be a problem there.

Working with Brian Plankis of IUPUI to start a conversation on developing a KIB Clubs metrics program.

Youth Tree Team: YTT watered: 0 trees Staked 4 trees: Unstaked: 10 trees Removed: 0 dead trees Mulched: 67 trees Planted: 90 trees Trunk Guards: 139

Ned Brockmeyer, YTT Manager, spent much of March preparing for the big Challenge Day on March 12th when over 100 youth came out to compete for 27 spots on the Summer Crew. Plans were also made for the April 2nd YTT Applicant tree planting, where 85 of the youth are asked to come back for the second part of the interview where they plant trees.

Media Relations:

Number of webpage hits relating to the City of Indianapolis this month: 2203

Number of mailings that mention the City of Indianapolis this month= 2 to 14614 subscribers

Number of press releases that mention the City of Indianapolis this month= 1

This month was spent promoting the kick-off of the Great Indy Cleanup. A press release was issued about the initiative that highlighted the City's involvement. This announcement received wonderful coverage. Additionally, working closely with the Office of Sustainability, KIB is launching a city-wide pollinator count, in conjunction with the signing of the Mayor's Monarch Pledge.

Youth Tree Team Challenge Day also garnered quite a bit of media coverage, as did our Pop-up Perennial Splitting Workshop with Sun King. We called this event BYOP. This will now be an annual event, as Sun King has created a community greenspace near their new patio that they also hired KIB to plant and program.

In addition, there was a great deal of planning and outreach for the annual Volunteer Appreciation Dinner that was held on March 23rd at the Biltwell Center.

Media Highlights this month include:

-Indy Star, To-do list-Perennial Pop-Up

-WTTV, KIB's Youth Tree Team

-WRTV, KIB's Youth Tree Team

-IBJ, Mayor's Team Gels

Volunteers:

Number of Groups: 8

Number of group volunteers: 93

Number of corporate groups: 2

Number of corporate volunteers: 8

[Number of projects: 39](#)

[Number of volunteers in parks: 0](#)

[Total volunteer experiences: 956](#)

[Total hours: 1504](#)

Recycle:

[-Recycling calls \(dumpsters\) = 0](#)

[-Recycling calls/emails = 4](#)

[-Trash boxes to city= 0](#)

[- Recycling bins= 4 loaned to 2 different organizations](#)

Looking Ahead:

[April will be a tremendously busy month with all departments having projects ongoing. April begins the Great Indy Cleanup weekends, with the Deep Dive Event with the Mayor on April 23rd. It will be held in the Old Southside Neighborhood. KIB Clubs will be getting outside into their outdoor classrooms with the weather turning better. Tree plantings, park maintenance and new Greenspace projects are all in full gear.](#)



KEEP INDIANAPOLIS BEAUTIFUL REPORT TO THE CITY

Date: May 23, 2016

To: Lori, Miser, Anthony McDaniel, Alan Bacon, Mike Massonne, Bill Kinscius, Melody Park, Shawn Brock, Linda Broadfoot, Dan Goldblatt, Jennifer Hashem

From: Christine Duncan-Vice-President/Programs, KIB

Re: KIB Monthly Report-April, 2016

Below, you will find a report of the activities of Keep Indianapolis Beautiful (KIB) in relationship to our contract obligations to the City of Indianapolis during the month of April, 2016.

Vibrant Neighborhoods:

Great Indianapolis Cleanup (GIC): 2016 Contract Goal- 200 cleanups

Clean-ups to Date: 198 Volunteers to Date: 7,075 Trash picked up to Date: 1,075,060 tons

The month of April was a HUGELY successful month for the Great Indy Cleanup. Our new GIC Coordinator, Lauren Wright, did a fabulous job leading the Mayor's Great Indy Cleanup "Kick Off" Event in the Old Southside Neighborhood on April 23rd. For the Kick Off event in the Old Southside, there were 15 project sites completed by 400 community volunteers. Projects consisted of street/alley cleanings, invasive removal and prepping a planting area. The Old Southside neighborhood committee was happy with the work that was done and they could see a substantial difference in their neighborhood. In the follow-up meeting, plans were made to stay engaged in the area with projects such as planting, assisting with a mural and completing additional street cleanups. Weekend cleanups continue from now until the fall. Kudos to the great DPW team that is such a great partner in this much-needed focus in our city.

Neighborhood Beautification:

2016 New IPL Greenspaces: 5 IPL Greenspaces in 3 year Maintenance agreement: 12

Project partner and neighborhood engagement work in all five IPL Greenspace pocket parks is in full gear. Final designs are completed and approved by the neighborhoods. The Springdale

Great Places: 2015 LISC-led Great Places 2020: 3 (Near West, Englewood and 38th & Illinois)

Plans for a Block Party in Near West are being worked on. Joe and Dave Forsell had a meeting with Troy Riggs to hear about the new police strategy from using the terms "Focus Areas" to "15 beats". Engagement continues in the three Great Places as needed.

Adopt-A-Block: 2016 Contract Goal: 750 blocks adopted **Blocks adopted to date: 623** The AAB program continues to grow with 731 blocks adopted, up significantly from last month. Joe Jarzen and Matt Wakefield furthered efforts to renew more block captains and pulled together the Native Plant Distribution details. A refined process for the distribution is worked out, plants reviewed and ordered from partner, Heartland Growers. They and the Indiana Wildlife Federation is on board to volunteer and share more information to the block captains about the plants. A Little BIG grant funded a block party in the Watson-McCord Neighborhood scheduled for May 7. The Fletcher Place grant was paid out and a new application from Woodruff Place was submitted. An application from Eleanor Skillen School is expected to be submitted. These small maintenance grants continue to be in much demand. The five Greenspace projects are: Springdale (Temple Oak), Felege Hiwot, Town of Speedway, Ringgold Park and Wheeler Mission. All are in various stages of implementation with completion dates for all being the end of the year.

Youth Involvement:

KIB Clubs: 2016 KIB Clubs: 5 Total Elementary Students “reached” to date with KIB Club event programs: 1443 Elementary students enrolled in schools with KIB Clubs: 1,178

Elementary students enrolled in the KIB Clubs: 78 Corporate groups engaged to date: 0

Replanted apple trees at Eleanor Skillen Elementary and worked with the club committee to discuss how vandalism could be prevented at this school. It has been frustrating to plant trees and have them vandalized. Heather Maurer, KIB Clubs Program Manager, hosted a Homeschool Group of a dozen kids for a half-day class at KIB. They planted three trees and learned a great deal about why planted natives is so important. All KIB club schools continued their planned class meetings. Heather planned and facilitated the Spring Mill Elementary club in attending the White Pine Wilderness Academy for a field trip half day. Met with Indiana Children and Nature network to discuss Nature Play days for the club kids this summer. Heather Maurer also continued working with the Marion County Soil and Water Conversation district with regards to an orchard planting project.

Youth Tree Team: YTT watered: 0 trees Staked 37 trees: Unstaked: 10 trees Removed: 0 dead trees Mulched: 909 trees Planted: 251 trees Trunk Guards: 792 Pruned: 110

Ned Brockmeyer, YTT Program Manager, ran YTT crews on Saturdays. They supported Community Forestry efforts to plant trees throughout Marion County and continued with alternative tasks as we did not have to water trees due to sufficient rainfall. In addition to overseeing the YTT groups performing the many tree care tasks (see above), Ned continued the applicant process for the 2016 summer YTT team. 65 youth were invited back to interview for only 25 open spots. Plans also continue for recruiting YTT youth to apply for the first IU SESE /KIB summer camp in Bloomington. KIB is also working with John Branden from MCCOY as we design a “work skills” certification process for our Youth Tree Team. They will be reviewed all summer in ten key areas of much-needed workforce skills. If they pass, the youth will receive a “work skills” certificate that can serve as an additional “reference” when they apply for a job. The certificate will be awarded by KIB with “support from MCCOY”.

Media Relations:

Number of webpage hits relating to the City of Indianapolis this month= 2210

Number of mailings that mention the City of Indianapolis this month=1 to 14,000 subscribers

Number of press releases that mention the City of Indianapolis this month= 2

KIB hosted the Great Indy Cleanup kick-off event on April 23rd. In addition to this one day event, cleanups were held, in partnership with the City, all over Indianapolis during the month of April. Rivoli Park neighborhood kicked off the month on April 2 with coverage on Fox59 and WISHTV. KIB also hosted the YTT applicant planting day at Ellenberger Park. This event, the second step in KIB’s YTT application process was covered by WTHR as a kick-off to spring. The annual ROWport event highlighted KIB’s work along the waterways and other projects that we are currently leveraging for neighborhood improvement, including an IPL Project Greenspace pocket park in the Springdale community. Preparations were also made to kick-off Small business Week in early May with a planting along the Mass Avenue Industrial Corridor. Working with the Riley Area Development Corporations, small businesses and the City of Indianapolis, a press conference to kick off the week and the planting was planned for May. Other initiatives that took place in the month of April include: planning with Indiana Humanities for an upcoming Chew on This Event around community greenspaces, preliminary meetings for next year’s Fairbanks Symposium with UIndy, creation of tree tags to be hung on the trees planted at Garfield Park during the Indy Humane Mutt Strut, FedEx tree planting along Oxford Street, KIB presentation at ISO for the InFusion MusicFest, participation in the Indy Free Tree Giveaway(KIB worked with IPL to tag the 1,000 giveaway trees), meeting with the Office of Sustainability regarding the upcoming KIB Wild Pollinator count, and planning with Eli Lilly, Project for Public Spaces and other community stakeholders on the future of the Lilly Sustainability Garden.

Media hits for the month of April include:

-Southside Times, Keep Southport Beautiful Day

-Indianapolis Star, Bringing Beauty into Indy Neighborhoods

-Fox59, Englewood FedEx planting

-WTHR, Great Indy Cleanup

-IndyStyle, volunteering with your Kids

-WTTV, KIB Celebrates 40 years with Community Cleanup

Volunteers:

Number of Groups: 48

Number of group volunteers: 729

Number of corporate groups: 24

Number of corporate volunteers: 319

Number of projects: 68

Number of volunteers in parks: 308

Total volunteer experiences: 8955

Total hours: 3,051

Recycle:

-Recycling calls and emails (dumpsters) = 10

-Trash boxes to city= 0

- Recycling bins= 77 loaned to 4 different organizations

Looking Ahead:

May will be a month of many projects for KIB. It is the last month of the spring project season. Maintenance on our past IPL Greenspaces is in full swing as we continue early implementation our new Greenspace projects. AAB recruitment continues. YTT youth will be hired for the summer season with their start date being early June.



KEEP INDIANAPOLIS BEAUTIFUL Report to the CITY

Date: June 20, 2016

To: Lori, Miser, Anthony McDaniel, Alan Bacon, Mike Massonne, Bill Kinscius, Melody Park, Shawn Brock, Linda Broadfoot, Dan Goldblatt, Jennifer Hashem

From: Christine Duncan-Vice-President/Programs, KIB

Re: KIB Monthly Report-May, 2016

Below, you will find a report of the activities of Keep Indianapolis Beautiful (KIB) in relationship to our contract obligations to the City of Indianapolis during the month of May, 2016.

Vibrant Neighborhoods:

Great Indianapolis Cleanup (GIC): 2016 Contract Goal- 200 cleanups

Clean-ups to Date: 216 Volunteers to Date: 7,415 Trash picked up to Date: 1,213,540 lbs.

Lauren Wright, the Green Indy Cleanup Coordinator, met with Phyllis Boyd (Groundworks) and Peggy Gamlin (President of Riverside Neighborhood Association) to discuss having the United Northwest Neighborhood be the site of the fall Great Indy Cleanup. The first meeting with the neighborhood will be in June to discuss just how the partnership works. KIB has decided to now make the Great Indy Cleanup an application-based program. For years, the neighborhood selections have been chosen in more informal manner. Starting with the 2017 Deep Dive cleanups in April and October, neighborhoods will be asked to fill out an online application and then present on why their neighborhood should be selected for the large cleanup Event. KIB feels that this process will attract neighborhoods who are more willing to have an active participation in the cleanup event and keep the cleanups and associated projects going long after the event has happened. Lauren is also working with the Marion County Health Department-Health and Hospital to configure a partnership system to assist with the neighborhood cleanups.

Neighborhood Beautification:

2016 New IPL Greenspaces: 5 IPL Greenspaces in 3 year Maintenance agreement: 12

(2016 Projects: Ringgold Park, Springdale, Town of Speedway, Felege Unity Park and Wheeler Mission). All projects are under way with Partnerships with the Arts Council at Speedway, with Indiana Historical Society at Springdale and a Kresge grant at Springdale as well. A workday was also done at Community Baptists, one of the very FIRST greenspace projects done over a decade ago. The goal was to spruce up the park and get the space in a better condition for summer. Another workday is planned for September. This is a great example of the commitment KIB has made to the sustainability of our IPL Greenspaces. Whether it is a project like Community Baptist that is over ten years old, the three year maintenance agreements we have with our annual projects or the Alumni Club, inviting all IPL greenspace partners to attend, sustainability by community engagement is a huge focus for this program.

Great Places: 2015 LISC-led Great Places 2020: 3 (Near West, Englewood and 38th & Illinois)

[KIB continues our involvement with the Livability Committee for Great Places and begin exploring new projects now that the plans are unveiled for the neighborhoods.](#)
[KIB continues to water tree planters at 38th & Illinois with our Urban Naturalist team.](#)

[Adopt-A-Block: 2016 Contract Goal: 750 blocks adopted **Blocks adopted to date: 772**](#)

[Adopt-A-Block completed a revised format and process for carrying out the Native Plant Distribution, where KIB gave away 850 flats of native plants to over 240 Adopt-A-Block captains. That is up from 195 captains last year. Heartland Growers donated over \\$9500 worth of annuals. Two more Little BIG grants were awarded to fund a native plant and an interactive play space at a pocket park in Woodruff Place, as well as a Picnic with the Parents event at Eleanor Skillen Elementary, a KIB Club school. The program only has \\$520 left for grant awards.](#)

Youth Involvement:

[KIB Clubs: **2016 KIB Clubs: 5** Total Elementary Students “reached” to date with KIB Club event programs: **1443** Elementary students enrolled in schools with KIB Clubs: **1,178**](#)

[Elementary students enrolled in the KIB Clubs: **78** Corporate groups engaged to date: **0**](#)

[May was a busy month at the schools and in their outdoor classrooms. Heather Maurer, the KIB Clubs Program Manager, facilitated “spruce-up” day at Center for Inquiry 2 in their outdoor classroom, planted three trees at Spring Mill Elementary and held the inaugural “Picnic with the Parents” at Spring Mill Elementary to engage both the school and parent community and help educate them about all of the benefits of the outdoor classroom. KIB’s Community Engagement department is getting more involved with our KIB Clubs so that the parents and surrounding neighborhoods can take advantage of and appreciate the benefits of the outdoor classrooms. Heather also attend the Youth Public Safety Forum to discuss Challenges and Solutions for Today’s Youth with IMPD and Indianapolis Public Schools. Heather is also participating in the YTT/KIB/IU Summer Camp as an advisor. She and Nate \(YTT Program Manager\) on working on ways to connect the KIB Clubs \(usually third graders\) with the youth participating in the YTT Program. They are looking at mentorship programs, etc.](#)

[Youth Tree Team: **YTT watered: 1500 trees Staked 66 trees: Unstaked: 10 trees Removed: 3 trees Mulched: 87 trees Planted: 0 trees Trunk Guards: 100 Pruned: 241**](#)

[May was a busy month with the YTT weekend crew attending to tree maintenance and helping the Community Forestry group finish up with several planting projects. Ned Brockmeyer, the YTT Program Coordinator, facilitated over 60 youth interviews for the summer team and offered employment to 24 youth. The other 68 are coming back from last year. Planning for the summer tree watering, enrichment days, and the management of the team took up a great deal of time. In addition, planning for the four day YTT/IU Camp continued with several program professors in Bloomington. This program will be a one-of-a-kind for a select group of KIB YTTer’s to attend IU for four days, stay in dorms, and attend a curriculum oriented towards careers in the green industry. This is our first year in this partnership. Work also continued with MCCOY to complete our program for our YTT youth to earn a “work skills” certificate by the end of the summer. Ours will be the first youth program to offer a Work Skills certification program. One of the main benefits is that the youth will have this extra “certificate” to show when they are applying to jobs in the future. It should provide them with an added edge when interviewing.](#)

Media Relations:

[Number of webpage hits relating to the City of Indianapolis this month= **1872**](#)

[Number of mailings that mention the City of Indianapolis this month= **2** to 15,711 subscribers](#)

[Number of press releases that mention the City of Indianapolis this month= **1**](#)

[KIB partnered with Roche for their annual day of service on the near eastside in Grassy Creek Park, as well as IPL in Ellenberger Park. These events helped to leverage our partnership with Indy Parks.](#)

[KIB also hosted research Frances Kuo for a public talk on May 9 on the effects of community greening and health and well-being. This talk was held at the IMA and set the groundwork for a more in-depth partnership regarding research. KIB also held an event on May 10 with a select group of Indy thought leaders. This half-day workshop focused on research from KIB greenspaces \(Butler University\) and how they have a positive effect on community involvement, public health, safety and youth.](#)

[KIB also held its’ annual Adopt-A-Block Plant Distribution. This year, the event focused on native plants and their importance to the city’s urban ecosystem. Hundreds of block captains participated and the Indiana Wildlife Federation was on hand to answer questions. May also marked the announcement of our partnership with Ricker’s Replenish. This partnership, was announced through a press conference with the Office of Sustainability.](#)

[Media Highlights this month include:](#)

[-The Southside Times, Keep the Southside Beautiful](#)

[-The Indianapolis Star, Help of Angels](#)

[-The Indianapolis Star,Folk Fest](#)

[-The Indianapolis Star, City seeks youth jobs for 1,000](#)

[-The Indianapolis Recorder, Summer Youth Employment](#)

[-CBS4-YTT Watering Trees this summer](#)

[-Fox 59-Youth Employment](#)

[-WTHR,KIB and Roche Day of Service](#)

Volunteers:

[Number of Groups: 12](#)

[Number of group volunteers: 668](#)

[Number of corporate groups: 11](#)

[Number of corporate volunteers: 660](#)

[Number of projects: 60 + neighborhood GIC weekend cleanups](#)

[Number of volunteers in parks: 416](#)

[Total volunteer experiences: 1967](#)

[Total hours: 7317.5](#)

Recycle:

[-Recycling calls and emails \(dumpsters\) = 13](#)

[-Trash boxes to city= 20](#)

[- Recycling bins= 67 loaned to 6 different organizations](#)

Looking Ahead:

[June looks to be another busy month for KIB in several departments. The tree plantings are completed for the spring, but the planning for the fall plantings begins right away. Also, Tree applications are due by Early July 2017, followed by individual interviews for all applicants. YTT is the busiest with the starting of the team watering and tree maintenance, as well as their kick off overnight camping session. Greenspace has many projects going in the five pocket parks throughout the summer, as well as KIB Clubs. And community engagement is working in all areas getting the ground laid for fall projects.](#)



KEEP INDIANAPOLIS BEAUTIFUL Report to the CITY

Date: July 11, 2016

To: Lori, Miser, Anthony McDaniel, Alan Bacon, Mike Massonne, Bill Kinscius, Melody Park, Shawn Brock, Linda Broadfoot, Dan Goldblatt, Jennifer Hashem

From: Christine Duncan-Vice-President/Programs, KIB

Re: KIB Monthly Report-June, 2016

Below, you will find a report of the activities of Keep Indianapolis Beautiful (KIB) in relationship to our contract obligations to the City of Indianapolis during the month of June, 2016.

Vibrant Neighborhoods:

Great Indianapolis Cleanup (GIC): 2016 Contract Goal- 200 cleanups

Clean-ups to Date: 236 Volunteers to Date: 8,588 Trash picked up to Date: 1,304,160 lbs.

-The first meeting with the Northwest Area for the 2016 October GIC took place in June. There were 5 residents and community organization reps in attendance. This meeting was an intro meeting to familiarize the committee with GIC and explain the expectations from both sides of KIB and the community. Monthly meetings from this point until October will take place. Possible projects and sites will be discussed at the next meeting.

-The numbers for tons of trash picked up were down a bit from last year because PACKER AND BOOM TRUCKS ARE NOT AVAILABLE DURING THE MAY-SEPTEMBER CLEANUP SEASON. This new fact has made it quite difficult to accommodate cleanups as in the past. It has been mentioned by many engaged cleanup citizens that it would be very helpful to have packers available in order to cleanup streets and alleys more effectively and efficiently.

-Now that KIB is choosing GIC neighborhoods by application, the new application for the 2017 Focus Neighborhood has been posted online. Two submissions have already been submitted!! A mass email to all past and current GIC coordinators was sent out informing of the new selection process as well as in the Adopt-A-Block newsletter. Application deadline is August 5th.

Neighborhood Beautification:

2016 New IPL Greenspaces: 5 IPL Greenspaces in 3 year Maintenance agreement: 12

-2016 Greenspace projects-Ringgold Park has their workday scheduled for July 30th. There will be plantings and a birdhouses built and installed then. Wheeler Mission is waiting for city permitting to move ahead with their concrete removal. Felege/Unity Park is progressing nicely. Springdale is seeing the installation of the artist's work and Speedway is turning into more of a planting project with more "concrete" trails requested from the town versus a more natural setting. The pastor from Community Baptist Church contacted KIB (this was a one of the original KIB Greenspace projects over a decade ago) to help with cleaning up the park across the street from them. KIB hosted a work day there, which was very much appreciated by the church and neighborhood.

-Applications for 2017 IPL Greenspace projects are due back to KIB by July 11th. KIB will meet with each applicant and interview them to assess the potential long term sustainability success of their project. The grants will be awarded after Labor Day.

Great Places: 2015 LISC-led Great Places 2020: 3 (Near West, Englewood and 38th & Illinois)

KIB continues our involvement with the Livability Committee for Great Places and begin exploring new projects now that the plans are unveiled for the neighborhoods. KIB continues to water tree planters at 38th & Illinois with our Urban Naturalist team. Bike rack installation is delayed at 38th& Illinois as DPW said they had equipment

[malfunctions. Matt Wakefield \(CE Coordinator\) continues to work with Englewood neighborhood on cleanups and invasive removal near CSX.](#)

[Adopt-A-Block: 2016 Contract Goal: 750 blocks adopted **Blocks adopted to date: 800**](#)

[Adopt A Block captains continue to sign up! After we purged the list of those who weren't "really" doing the work of an Adopt A Block captain, we had to engage and reengage neighbors to sign up for the program. As you can see, the number is climbing quickly! AAB captains are signing up for the annual tree distribution and we are already over budget with 88 applicants submitted for a total of 172 trees!](#)

Youth Involvement:

[KIB Clubs: **2016 KIB Clubs: 5 Total Elementary Students "reached" to date with KIB Club event programs: 1443 Elementary students enrolled in schools with KIB Clubs: 1,178**](#)

[Elementary students enrolled in the KIB Clubs: 78 Corporate groups engaged to date: 1](#)

[Spruce-up day was held at Eleanor Skillen Elementary and finalized landscape design was completed for 2016 KIB clubs partner school Rousseau McClellan. Held "picnic with the parents" to engage school and parent community and educate them about the outdoor classroom. Worked with YTT at Spring Mill Elementary for an educational project day.](#)

[Heather also worked with corporate volunteers from Project Lead at the Center for Inquiry. Heather is out in the community quite a bit as Program Manager, and led two youth education sessions about repurposing materials and invasive species at Distelrath Farms.](#)

[Youth Tree Team: **YTT watered: 4,000 trees/week Staked 85 trees: Unstaked: 55 trees Removed: 33 trees Mulched: 814 trees Planted: 0 trees Trunk Guards: 583 Pruned: 854**](#) June was the first month of work for the new YTT summer crew and they were busy! They worked the first two weekends before the program officially began on Jun 13th! In addition to the tree and watering work, they also completed leadership activities on the camping trip and got to go rafting on the White River with the Friends of the White River group to learn about water quality and CSO issues that affect Indianapolis citizens. This summer begins the new "Work Skills Certification" program with the Youth Tree Team. Having the Marion County Commission on Youth supporting the program, all youth with "passing" scores on ten key work skillsets will receive an official "Work Skills Certificate" that will be an additional resource when applying for jobs in the future. A youth must also earn this certificate in order to work at KIB next summer. In addition, Ned Brockmeyer, YTT Program Manager, will be taking 16 YTT youth to IU in July for a four day "sustainability" camp. This is the first year for this partnership with IU/Bloomington and the goal is to introduce high school students (who qualified for the camp with good grades, an application and an essay) to the sustainability programs that IU has to offer them in college.

Media Relations:

Number of webpage hits relating to the City of Indianapolis this month= 1901
Number of mailings that mention the City of Indianapolis this month= 2 to 16150 subscribers
Number of press releases that mention the City of Indianapolis this month= 0

KIB worked closely with the OOS to plan and execute the upcoming Pollinator Count. This inaugural, week-long event (July 18-24) will engage the city in the important work of not only counting pollinators but educating Hoosiers on the need to plant native to help people and nature thrive.

This citizen scientist initiative is important because the data gathered will help guide conservation and restoration efforts, tree and other native plantings, as well as raise awareness of how vital pollinators are to the Indianapolis urban ecosystem. One in every three bites of food we eat are impacted by bees and other pollinators.

Pollinator Count Kits will be available for download on KIB's website (www.kibi.org/kibeas) and available at all Indianapolis Public Library branches and YMCA locations. Kits include a Pollinator Data Sheet, a "Buzz Off! I'm Counting" yard sign/ruler, FAQs, and map of KIB's Greenspaces. Data should be uploaded on the KIB website or delivered to KIB's offices.

Highlights of the week include a press conference with Mayor Joe Hogsett asking all residents to join

the count, a live-streaming bee feed from the KIB greenroof, educational opportunities, social media contests, and even having the hashtag #KIBees in lights on the IPL Building. This event is also helping to leverage the work of the OSS Pollinator Partnership.

An event on the horizon is a First Friday gallery show with IgersIndy (<https://www.instagram.com/igersindy/>) and Litter of Highland Park (<https://www.instagram.com/litterofhighlandpark/>) showcasing the importance of litter abatement. More information is shaping up for this 2017 event, but KIB hopes to showcase the creative work of one of its awesome Adopt-A-Blockers and the help of the City in this event.

Media highlights this month include:

- RTV6, KIB + Crown Hill Tree Planting
- WISHTV, KIB + Girl Scouts Amy Beverland Tree Planting

#KIBees in lights on the IPL Building. This event is also helping to leverage the work of the OSS Pollinator Partnership.

Volunteers:

Number of Groups: 11

Number of group volunteers: 161

Number of corporate groups: 7

Number of corporate volunteers: 124

Number of projects: 59

Number of volunteers in parks: 0

Total volunteer experiences: 2341

Total hours: 8926.25

Recycle:

-Recycling calls and emails (dumpsters) = 25

-Trash boxes to city= 30

-Trash boxes sold=368

- Recycling bins= 104 loaned to 10 different organizations

Looking Ahead:

With the heat of the summer comes increased watering of all KIB projects and trees. KIB is trying to work with Citizens Energy Group on their high rate increases on water and meters as it will have a profound effect on the KIB budget. Keep Indianapolis Beautiful (national) will come to Keep Indianapolis Beautiful in July. As KIB is one of KAB's largest affiliates, we are anxious to "show off our stuff". Several important IPL Greenspace celebrations will take place over the summer, including the Millersville (56th and Emerson) park. There will be an art installation going in mid-July with the neighborhood celebration in mid-August. The first annual Pollinator Count in the city will be hosted by KIB the week of July 18th. Working in conjunction with the Mayor's office, the citizens of Indianapolis are being asked to download the Pollinator count kit at www.kibi.org/bees and count the much needed pollinating insects they see on July 18th. We encourage all who read this to count your pollinators!



KEEP INDIANAPOLIS BEAUTIFUL Report to the CITY

Date: August 11, 2016

To: Lori, Miser, Anthony McDaniel, Alan Bacon, Mike Massonne, Bill Kinscius, Melody Park, Shawn Brock, Linda Broadfoot, Dan Goldblatt, Jennifer Hashem

From: Christine Duncan-Vice-President/Programs, KIB

Re: KIB Monthly Report-July, 2016

Below, you will find a report of the activities of Keep Indianapolis Beautiful (KIB) in relationship to our contract obligations to the City of Indianapolis during the month of July, 2016.

Vibrant Neighborhoods:

Great Indianapolis Cleanup (GIC): 2016 Contract Goal- 200 cleanups

Clean-ups to Date: 247 Volunteers to Date: 9,088 Trash picked up to Date: 1,356,760 lbs.

Lauren Wright, the GIC Program Coordinator, has been meeting with the Northwest Area preparing for the October Great Indy Cleanup. More attendees from the neighborhood attend with each meeting. Projects will cover almost every corner of the Northwest Area, involving different associations, community resources and residents in the neighborhood. Opening Ceremony will take place in Watkins Park.

The GIC Deep Dive Application and selection process has 3 applications submitted so far. The deadline has been extended to August 19th, in order to give people time to apply. This is a new process for the Great Indy Cleanup, so expect the number of applications to grow over time.

Neighborhood Beautification:

2016 New IPL Greenspaces: 5 IPL Greenspaces in 3 year Maintenance agreement: 12

The Springdale Greenspace project is coming along well. The partnership with the Indiana Historic Society is working well. They will be helping with the historic panels that will surround the temple oak. The Millersville art has been installed (a MUST SEE!) at 56th and Emerson along Fall Creek. The celebration will be held in August. Ringgold Park's planting project is on schedule, as is the Town of Speedway, Wheeler Mission and Felege –Hiywot. Our heart and prayers go out to Astere, for the loss of her son.

Great Places:

2015 LISC-led Great Places 2020: 3 (Near West, Englewood and 38th & Illinois)

Joe Jarzen, the Director of Community Engagement re-engaged the Livability Committee for Great Places. The committee now has a greater sense of it's role and purpose moving forward with the three Great Places. Chief James Waters, now being a co-chair of this committee, also shared the new tactics the police are taking with Beat Policing and engagement of the Juvenile Justice Jeopardy program. There is a better connection forming with how these partnerships can work with the Great Places neighborhoods.

Adopt-A-Block: 2016 Contract Goal: 750 blocks adopted Blocks adopted to date: 803

The program continues to grow and develop with now over 800 block captains involved, though still a ways to go to the 950 internal goal set. Tree Distribution is now being conducted by Matt Wakefield, the Community Engagement Coordinator. We have a record 160 trees requested for fall. We took tree requests earlier this year, which seems to be making a difference in the larger number of requested. The last of KIB's little BIG grants was awarded to Fall Creek Place for new trash receptacles. Six grants were awarded in total this year from the little BIG grant program, showing how popular the new program is and the creativity of the block captains! Scoring of the 800 blocks is being maintained and a monthly newsletter was distributed.

Youth Involvement:

KIB Clubs: 2016 KIB Clubs: 5 Total Elementary Students "reached" to date with KIB Club event programs: 1443 Elementary students enrolled in schools with KIB Clubs: 1,178

Elementary students enrolled in the KIB Clubs: 78 Corporate groups engaged to date: 3

Heather Maurer, KIB Clubs Program manager, worked with corporate volunteers from Project Lead the Way at Center for Inquiry(IPS School2), met with DNR representative, Falyn Owens, to discuss native plantings at Skiles Test Elementary and worked with several different corporate volunteers including Salesforce and Rickers at Skiles Test Elementary. Heather was also working with Brian Plankis of IUPUI and the KIB Club Committee to discuss a partnership grant at IPS School 2. The Skiles Test Elementary students and surrounding community participated in the first annual KIB Pollinator count, calling it "Pollinators and Popsicles". School was out in late May, so clubs will be into maintenance mode for the summer.

Youth Tree Team: YTT watered: 4,000 trees/week Staked 77 trees: Unstaked: 87 trees Trunk Guards : 668trees Mulched: 2,000 trees Planted: 0 trees Trunk Guards: 583 Pruned: 1,656

The youth had a very busy summer and got to celebrate their seven weeks of work with an end-of-summer picnic on July 28th. This was the first summer of KIB's new WorkSkills Certificate program, supported by McCoy. Those youth who qualified got a certificate that will be useful in their future job applications but also allows them to come back to KIB next summer. Ned Brockmeyer, YTT Program Manager, and Heather (KIB Clubs) chaperoned 14 youth in Bloomington who qualified to attend the first Annual IU Summer Experience in Sustainability and Environment Camp. It was a fabulous experience for the youth and will be continued next year with a goal of getting more youth to attend.

Media Relations:

Number of webpage hits relating to the City of Indianapolis this month= 2045
Number of mailings that mention the City of Indianapolis this month= 2 to 16150 subscribers

Number of press releases that mention the City of Indianapolis this month= 2
July kicked-off KIB's first ever city-wide Pollinator Count. Working closely with the city, and various other organizations, KIB organized a series of events to educate and engage residents in counting Indy's pollinators. Two press releases were issued that mentions this initiative. These events included:

- Program Launch with Mayor Hogsett (July 18) – Mayor Hogsett will kick off Pollinator Count Week by signing the Monarch Pledge and pollinator proclamation in front of the LEGO Monarch Butterfly at the Indianapolis Zoo.
- #KIBees featured in lights on IPL building (July 18 – 20) – The IPL building lights will feature the Pollinator Count Week social media tag #KIBees as a reminder that pollinators continue their work at night.
- Public Pollinator Count with Bee Public at Public Greens (July 19) – Kate Franzman, of Bee Public, will lead a short talk about the impact of honey bees and other pollinators at Public Greens: An Urban Kitchen. Attendees will then count pollinators in the Public Greens urban farm and Monon Trail greenspaces.
- Indy Style guest spot on the importance of pollinators and the health of our city
- Happy Hour Weeding and Volunteer Count at KIB Headquarters (July 21) – Citizen scientists count pollinators as part of KIB's Happy Hour Weeding event. Volunteers will help maintain a thriving, native landscape and learn along the way by counting pollinators, gaining knowledge about native plants and enjoying libations courtesy of Sun King Brewery.

- Pollinators & Popsicles at Skiles Test Elementary School (July 22) – KIB Clubs will host a lunchtime; family-friendly pollinator count for kids. Families will enjoy popsicles, count pollinators together and enjoy the KIB Club’s outdoor classroom.

KIB and its partners garnered a ton of media attention for this event. Not only did every major news station cover the program, but CityLab covered the inaugural event. With a focus on citizen science this is the type of initiative that will leverage the numerous community organization making a difference on the health of our city, and the idea that any resident can contribute to the future of Indianapolis. Additionally, this initiative also helped to announce the City of Indianapolis’s Pollinator Partnership.

Media Highlights Include:

- Indianapolis Star, Old Meets New on The Trail
- WBAA (NPR), Indianapolis Enlists Volunteers In Crowdsourced Bee-Search Project
- WISHTV, KIB Hosts Indianapolis First City-Wide Pollinator Count
citylab.com, Why Indianapolis Is Counting its Bees

Volunteers:

Number of Groups: 10

Number of group volunteers: 119

Number of corporate groups: 7

Number of corporate volunteers: 73

Number of projects: 54

Number of volunteers in parks: 33

Total volunteer experiences: 1480

Total hours: 5660.75

Recycle:

-Recycling calls and emails (dumpsters) = 12

-Trash boxes to city= 0

-Trash boxes sold=67

- Recycling bins= 26 loaned to 3 different organizations

Looking Ahead:

August is the big planning month for the fall planting and project season. The YTT Youth have gone to weekend watering. Greenspace projects will continue to be held on Fridays and Saturdays. The Community Forestry and Greenspace teams will be out daily talking to grant applicants for future tree plantings and Greenspace parks. Weekend cleanups continue each weekend.



KEEP INDIANAPOLIS BEAUTIFUL Report to the CITY

Date: September 22, 2016

To: Lori, Miser, Anthony McDaniel, Alan Bacon, Mike Massonne, Bill Kinscius, Melody Park, Shawn Brock, Linda Broadfoot, Jennifer Hashem, Dominic Cornett, Ronnetta Spalding

From: Christine Duncan-Vice-President/Programs, KIB

Re: KIB Monthly Report-August, 2016

Below, you will find a report of the activities of Keep Indianapolis Beautiful (KIB) in relationship to our contract obligations to the City of Indianapolis during the month of August, 2016.

Vibrant Neighborhoods:

Great Indianapolis Cleanup (GIC): 2016 Contract Goal- 200 cleanups Cleanups to date: 262
Volunteers to Date: 9,442 Trash picked up to Date: 1,430,720 pounds

GIC Deep Dive planning and selection:

The 2017 GIC Focus Neighborhood application has closed. There was a total of 8 applications submitted. This is at the top end of what was expected for this applicants of this first year. Review of the applicants are being conducted and then applicants will interview with Lauren. An open house event is being planned for the top 3 finalists to come and present their neighborhoods on November 4th. 2017 GIC Focus Neighborhood selections will be announced this evening.

Preparations for the Northwest Area Cleanup on October 8th are going well. There will be a total of 14 projects. The opening ceremony will take place at Watkins Park. Neighborhood Beautification:

2016 New IPL Greenspaces: 5 IPL Greenspaces in 3 year Maintenance agreement: 12

The Springdale project is seeing continuous progress with the art installation being installed. Panels will be installed with the history of the Nolan Oak. Wheeler Mission will most likely be planted next year, as they are having a difficult time getting permitting completed. Town of Speedway planting will be held in the fall. Felege Hiyot is progressing as well. Maintenance days are being held at the previous IPL Greenspace projects. A well-attended celebration was held at Millersville (please visit this place at 56th and Emerson along Fall Creek...the art and the park are just beautiful). Final applications for the 2017 Greenspace projects were reviewed by the Green Team, as well as a 25 person group of Indianapolis community leaders. The announcement of the finalists for grant receipts will be held in mid-September.

Great Places:

2015 LISC-led Great Places 2020: 3 (Near West, Englewood and 38th & Illinois) Joe Jarzen, the Director of Community Engagement, continues to head up the Liveability Committee for Great Places. Meetings are now being held to consider the next two locations for Great Places grants. Time is spent, in addition, with other implementation partners to continue maintenance in the three current Great Places.

Adopt-A-Block: 2016 Contract Goal: 750 blocks adopted Blocks adopted to date: 820 The program continues to grow and develop with now over 820 block captains involved. Fall usually sees an increase in new commitments, so we are looking forward to that. The Tree Distribution is being conducted by Matt Wakefield and we have 160 trees requested. But due to budget restraints, we are only able to provide 150 trees. The Community Engagement department continues to visit one neighborhood a month to continue its outreach efforts and keep in touch with neighborhoods. Scoring is also being maintained and monthly newsletter being sent.

Youth Involvement:

KIB Clubs: 2016 KIB Clubs: 5 Total Elementary Students "reached" to date with KIB Club event programs: 1443 Elementary students enrolled in schools with KIB Clubs: 1,178

Elementary students enrolled in the KIB Clubs: 78 Corporate groups engaged to date: 3 Work days included working with DLZ at Eleanor Skillen to begin bench building and bed preparation, Cliff Bar volunteers at Spring Mill Elementary on maintenance tasks and bed preparation and Sales force volunteers to do maintenance at three different KIB Partner schools. The Outdoor chalkboard was installed at CF12 and the Tree House deck was completed there as well. Club meetings are happening at all schools and partnerships are being worked on including White Pine Wilderness Academy and MicrogreensIndy.

Youth Tree Team: YTT watered: 2094 trees/week Staked 5 trees: Unstaked: 1 tree Trunk Guards : 25 removed Mulched: 500 trees Planted: 0 trees

August saw the switch from Monday-Thursday program to our Saturday work throughout the fall. This is due to the youth being back in school. YTT also tested a "closing crew" program that would eventually be responsible for visiting all of our 5 and 10 year old sites to assess survivability and ensure the trees are free of any stakes and/or trunk guards.

Media Relations:

Number of webpage hits relating to the City of Indianapolis this month= 1982

Number of mailings that mention the City of Indianapolis this month= 2 to 16411 subscribers

Number of press releases that mention the City of Indianapolis this month= 2

Press releases issued this month include:

KIB's first city-wide Pollinator Count Week provides baseline insight of Indianapolis' pollinator health

The weeklong, crowdsourced data collection project aimed to engage residents in the important work of gathering information to help guide conservation and restoration efforts, tree plantings, and raise awareness of how vital pollinators are to the Indianapolis food system saw nearly 200 individual counts occurred between July 18 and July 24; the equivalent of 772 minutes of observation.

Here is a snapshot of pollinators counted:

- 745 bumble bees
- 650 honey bees
- 27 skipper butterflies
- 2 monarch butterflies
- 18 painted lady butterflies
- 133 houseflies
- 93 hoverflies (bee mimics)
- 28 milkweed beetles

KIB will use this information as an educational tool as a part of 2017 greenspace and community engagement programing. Data gleaned from the pollinator count will also inform 2018 IPL Project GreenSpace locations, as we identify opportunities and partnerships for the coming year.

KIB Youth Tree Team Members selected for 2016 Excellence in Summer Service Education Award

Five members of Keep Indianapolis Beautiful's Youth Tree Team have been selected to receive the 2016 Excellence in Summer Service Education Award by the Marion County Commission on Youth, Inc (MCCOY).

Media Highlights Include:

IBJ, It's Time to Put Urban Trees on Indianapolis' Priority List

Indianapolis Recorder, Felege Hiywott

Volunteers:

Number of Groups: 8

Number of group volunteers: 174

Number of corporate groups: 4

Number of corporate volunteers: 146

Number of projects: 43

Number of volunteers in parks: 17

Total volunteer experiences: 1323

[Total hours: 4686.77](#)

[Total value: \\$108,123.32](#)

Recycle:

[-Recycling calls and emails \(dumpsters\) = 14](#)

[-Trash boxes to city= 0](#)

[-Trash boxes sold=664](#)

[- Recycling bins= 103 loaned to 7 different organizations](#)

Looking Ahead:

[September is the month of Lilly Day of Service on September 29th and KIB's big fundraiser, THRIVE. Project season is in full gear. Meetings will start with IU/Bloomington to plan for the YTT/IU summer camp as part of the YTT summer program.](#)



KEEP INDIANAPOLIS BEAUTIFUL Report to the CITY

Date: October 19, 2016

To: Lori, Miser, Anthony McDaniel, Alan Bacon, Mike Massonne, Bill Kinscius, Melody Park, Shawn Brock, Linda Broadfoot, Jennifer Hashem, Dominic Cornett, Ronnetta Spalding

From: Christine Duncan-Vice-President/Programs, KIB

Re: KIB Monthly Report-September, 2016

Below, you will find a report of the activities of Keep Indianapolis Beautiful (KIB) in relationship to our contract obligations to the City of Indianapolis during the month of September, 2016.

Vibrant Neighborhoods:

Great Indianapolis Cleanup (GIC): 2016 Contract Goal- 200 cleanups **Cleanups to date: 280
Volunteers to Date: 10,292 Trash picked up to Date: 1,519,232 pounds**

Lauren continues to work with the planning committee in the Northwest Area to prepare for the October GIC. The Project Leader training was held at KIB to assist the community leaders in how to lead their group of volunteers on the day and familiarize them with the resources they will have for the day. There were 10 project leaders in attendance and Lauren spoke with the ones unable to attend to keep them up to date. Lauren met with the IMA to further discuss the partnership and coordination in one of the projects sites just south of the 100 Acres Park. IMA was completely on board and will provide member of their grounds maintenance team to assist on the day. Lauren also met with the South Grove Golf Course and Indy Parks (Kent Knorr) to explore a partnership led by the Riverside neighborhood. This meeting was to discuss assisting the golf course in clearing the fence line along E. Riverside Drive in coordination with eh neighborhood, as the neighbors have been complaining about the view of the fence line being overgrown and unsightly. An MOU was created by KIB and signed by Indy Park, South Grove Golf Course and the neighborhood to ensure maintenance of the area cleared on the GIC day. The Great Indy Cleanup event will take place on October 8th at the Watkins Park Family Center with over 200 volunteers.

GIC Deep Dive planning and selection:

Interviews have been with 3 of the 4 applicants that were approved to move forward. Applicant's finalist are BRAG, Millersville, Kennedy King and St. Clair. The top 3 finalists that will be invited to the First Friday event to present their neighborhood will be announced on October 21. The First Friday event has been named Litter2 (Litter squared). The event will not only be the evening that the finalists present and 2017 project locations are announced but also will have Dan Remington, as the artist spotlight. Dan is an AAB captain and he created a social media presence on Instagram called 'Litter of Highland Park'. Photos of the litter he has collected and arranged in artistic poses will be also featured this night.

Neighborhood Beautification:

2016 New IPL Greenspaces: 5 IPL Greenspaces in 3 year Maintenance agreement: 12

The three 2017 IPL Greenspace grants were announced mid-September. They will be Caring and Sharing (Southside), Progress House(Shelby street) and Athenaeum. Work will begin on the community engagement meetings and design discussions will be a part of those meetings in the months to come. Work continues on the 2016 IPL Project Greenspaces including Springdale , where the plaza and paths are being put in.(Please go visit! This is the greenspace that surrounds the Temple Oak on the near east side). Town of Speedway will have their art installation in October. Plantings are taking place in the Unity Garden (Felyge Hiywot) and Ringgold Park. Partnership agreements were signed for 2017 with the Arts Council and the Indiana Historical Society.

Lilly Day of Service, on September 29th 42 projects and over 3500 volunteers worked on murals, tree and garden plantings, invasive removals and other beautification projects throughout the city. Mark Adler, our Director of Special Projects, Project Managed this day and it was a huge success! This is our 9th year!

2015 LISC-led Great Places 2020: 3 (Near West, Englewood and 38th & Illinois) Joe Jarzen, Director of Community Engagement worked with LISC and Chief Waters and Captain Leary to review the role and responsibility of the Livability committee and sought to invite new participants on the committee. Also, the

[selection process is beginning to identify the next Great Places neighborhoods.](#)

[Adopt-A-Block: 2016 Contract Goal: 750 blocks adopted Blocks adopted to date: 833](#)

[The program continues to grow and develop with 833 blocks adopted, up from 820 last month.](#)

[The Community Engagement continues to recruit people to keep working towards our 950 captains in 2015. The CE department continues its outreach efforts and keep in touch with neighborhoods. Scoring is also being maintained and a monthly newsletter is being consistently.](#)

Youth Involvement:

[KIB Clubs: 2016 KIB Clubs: 5 Total Elementary Students "reached" to date with KIB Club event programs: 1443 Elementary students enrolled in schools with KIB Clubs: 1,178](#)

[Elementary students enrolled in the KIB Clubs: 78 Corporate groups engaged to date: 3](#)

- [Installed boulders at Skiles Test as part of native butterfly garden](#)
- [Held first club meeting of the school year with Spring Mill Elementary](#)
- [Held first club meeting of the school year with Rousseau McClellan School 91](#)
- [Met with Jim Life of Lions Club to discuss partnership/volunteer opportunity with School 91](#)
- [Held meeting with Eleanor Skillen KIB Club Committee to welcome new committee members and discuss upcoming school year projects](#)
- [Installed first section of outdoor classroom pathway at Spring Mill Elementary with Ascension Health volunteers](#)
- [Worked with Center for Inquiry School 2 KIB Club students to utilize vegetables grown in their garden by making a salad](#)
- [Installed retaining wall at Rousseau McClellan School 91 with Salesforce volunteers](#)
- [Held first club meeting of the school year with Eleanor Skillen Elementary School 34](#)
- [Participated in Eleanor Skillen "Community Walk" program with neighbors and students to raise awareness of the outdoor classroom and other neighborhood projects](#)
- [Partnered with instructor from White Pine Wilderness Academy to lead KIB Club meeting at Spring Mill Elementary – pilot program](#)

[Youth Tree Team: YTT watered: 1254 trees Staked trees: 103 Unstaked: 17 trees Trunk Guards installed: 112 trees Mulched: 175 trees Pruned: 240 trees Trees planted: 1200 on the Lilly Day of Service](#) Despite it being a weekend routine for the YTT group with school in session, many turned out to help plant 112 trees at Crown Hill and 1200 trees at Shadeland and English. Four of the youth also went to MCCOY to start a focus group to talk about youth employment in Indianapolis. Plans are ongoing to continue the IU/YTT Camp next summer for seniors in the YTT program.

Media Relations:

Number of webpage hits relating to the City of Indianapolis this month= 2109
Number of mailings that mention the City of Indianapolis this month= 1 to 725 subscribers
Number of press releases that mention the City of Indianapolis this month= 1

Press releases issued this month include:

Keep Indianapolis Beautiful, Inc. (KIB) announced today that three new community greenspace projects have been awarded as part of KIB's IPL Project GreenSpace program for 2017. KIB received numerous applications were submitted for the program, showing the desire for community greenspace in our city.

Through placemaking efforts since 1995, KIB, in partnership with Indianapolis Power & Light Company (IPL) and the City of Indianapolis, has helped neighborhoods, schools, churches, and other community-based organizations create vibrant public places. These spaces focus on native plant palettes, connecting people to nature, and creating a sense of place rooted in community, building lasting value by sustained and community-inspired design.

The following organizations have been selected as 2017 greenspace partners through KIB's IPL Project Greenspace:

- **Community Caring and Sharing Community Park & Garden**
- **Athenaeum Greenspace**
- **Progress House Pocket Park**

Additionally, this month KIB organized a reception for Indy engineering firms to learn more about KIB's efforts in green infrastructure and youth employment. This event will take place in November and feature Melody Park and Lori Miser.

KIB also through its largest fundraiser of the year on September 17 at the 1899 Experience Venue. This event had a 70's chic theme to celebrate KIB's start in 1976 and pay homage to its 40th anniversary. This event raised nearly \$100,000 for KIB programs.

Media Highlights Include:

Indy Star, What's on Top: A look at unexpected Indy roofs

Fox59, KIB + Lilly team up for annual day of service

Volunteers:

Number of Groups: 9

Number of group volunteers: 3,428

Number of corporate groups: 5

Number of corporate volunteers: 3,394

Number of projects: 93

Number of volunteers in parks: 1 (Tree Tenders Survival Tracking)

Total volunteer experiences: 5,481

Total hours: 21,589

Total value: \$498,058

Recycle:

-Recycling calls and emails (dumpsters) = 4

-Trash boxes to city= 0

-Trash boxes sold=687

- Recycling bins=163 to 17 different organizations

Looking Ahead:

October will see our Great Indy Cleanup in the UNWA neighborhood with over 200 volunteers. Project season in our IPL Greenspaces and tree plantings are in full swing. The Youth Tree Team is busy on weekends with watering and caring for trees. And our annual Run 317 will be held on October 20th.



KEEP INDIANAPOLIS BEAUTIFUL Report to the CITY

Date: November 14, 2016

To: Lori, Miser, Anthony McDaniel, Alan Bacon, Mike Massonne, Bill Kinscius, Melody Park, Shawn Brock, Linda Broadfoot, Jennifer Hashem, Dominic Cornett, Ronnetta Spalding

From: Christine Duncan-Vice-President/Programs, KIB**

Re: KIB Monthly Report-October, 2016

Below, you will find a report of the activities of Keep Indianapolis Beautiful (KIB) in relationship to our contract obligations to the City of Indianapolis during the month of October, 2016.

Vibrant Neighborhoods:

Great Indianapolis Cleanup (GIC): 2016 Contract Goal- 200 cleanups Cleanups to date: 383
Volunteers to Date: 12,842 Trash picked up to Date: 1,929,760 pounds

Lauren Wright, out Great Indy Clean Up Coordinator led the October GIC on October 8th, in the Northwest Area. There were 218 volunteers in attendance and completed 13 project sites. Mayor Hogsett was in attendance of the opening ceremony and had a check presentation from Kroger, Inc. The community was ecstatic with the work done and was very appreciative of all the assistance and love shown to their community. Projects consisted of street/alley cleanup, abandoned homeless camp cleared out (in coordination with the IMA), Watkins Park playground equipment repainted and playground re-mulched (in coordination with Indy Parks), Charlie Wiggins Community Park painted, re-mulched, re-stoned and weeded. Also an obstructed fence line was cleared, in direct request from the community, at South Grove Golf Course (in coordination with golf course management and Indy Parks) along with a beautification of Indy Parks sign. Volunteers appreciated the variety of projects offered.

GIC Deep Dive planning and selection:

Lauren met the review committee that consisted of KIB staff and key community partners to discuss the 3 applicants (BRAG, Millersville and Kennedy King). There was a great discussion on the 3 sites and ideas of which should be selected from the 2017 April and October cleanups and the \$1,000 Advancement Award. Litter2 event is scheduled for November 4th and the 3 neighborhoods will pitch their neighborhoods. Selection decision will be announced that evening.



Neighborhood Beautification:

2016 New IPL Greenspaces: 5 IPL Greenspaces in 3 year Maintenance agreement: 12 The IPL Greenspaces are in full fall project season. Springdale (The Nowland Oak) has the tree patio, stairs, fence and interpretive panel installations completed along with the timber boardwalk, native plants and art installation. This visionary Greenspace park should be a definite driveby for anyone reading this. To highlight the importance of saving this 300+ year old tree with a beautiful pocket park around it for all to enjoy is a great example of neighbors working together. The neighborhood also completed a tile art piece trail walk between the Nowland and Temple Oak trees. Work also continued to complete planting at Ringgold Park and Felege Hiywot Unity Park. The exceptional art piece will be installed at the Town of Speedway Greenspace in November. (Another beautiful piece worth driving by, especially when it is lit at night!). Early workshops and community meetings are beginning with next year's IPL Greenspaces: Athenaeum, Progress House and Caring and Sharing on the south side.

Great Places: Great Places in maintenance: 2 The selection committee met to review the eight new neighborhoods who submitted applications. Tours of the spaces will be held in November. KIB will once again be an early implementer from the neighborhood engagement aspect.

Adopt-A-Block: 2016 Contract Goal: 750 blocks adopted Blocks adopted to date: 847 The program continues to grow and get new captains as well as engaging the current dedicated group of volunteers. The Community Engagement department continues to visit one neighborhood a month to continue it's outreach efforts and keep in touch with neighborhoods. Scoring is also being maintained and a monthly newsletter distributed. 2017 will call for a revised scoring system that will allow for a better metrics and measurement process that will also allow for a more meaningful way to understand the impact of the program.

Youth Involvement:

KIB Clubs: 2016 KIB Clubs: 5 Total Elementary Students "reached" to date with KIB Club event programs: 1443 Elementary students enrolled in schools with KIB Clubs: 1,178

Elementary students enrolled in the KIB Clubs: 78

The wonderful partnership continues with the White Pine Wilderness Academy at 5 school club meetings (Springmill, Center for Inquiry, Eleanor Skillen Elementary, Rousseau McClellan and Skiles Test Elementary). Heather Maurer, the KIB Clubs Program Manager, participated in the TURN Festival at Paramount School of Excellence, a former KIB Clubs school. Work was completed and benches were installed at Eleanor Skillen Elementary. Heather attended Fletcher Place Kids Association meeting to discuss partnership opportunities and give advice on environmental projects. Pathways were installed at Spring Mill Elementary with volunteers from State Farm. A butterfly garden was planted at Skiles Test with volunteers from SMARI and an additional section of butterfly garden with club students was installed at Spring Mill Elementary. Heather also attended all school KIB Club meetings.

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YTT: Staked trees: 99 trees Unstaked: 0 trees Trunk Guards installed: 0 trees Mulched: 141 trees Pruned: 281 trees Trees planted: 111 at Shadeland and Washington as well as the medians on Post Road and 38th St. Fall has the YTT crew watering on weekends only due to school. The watered and mulched and were an exceptional help during the 1,000 tree planting during the Lily Day of Service.

Media Relations:

Number of webpage hits relating to the City of Indianapolis this month= 1899
Number of mailings that mention the City of Indianapolis this month= 2 to 16411 subscribers
Number of press releases that mention the City of Indianapolis this month= 0

This month focused on organizing the First Friday event to be held on November to leverage our community impact regarding litter abatement through The Great Indy Cleanup and the Adopt-A-Block program. Keep Indianapolis Beautiful will host @ LitterofHighlandPark, a wildly popular Instagram feed brought to life by KIB Adopt-a-Block Captain, Dan Remington in a series of artistic images, pithy commentary & community engagement to encourage residents of Indianapolis to keep their neighborhoods litter free. A veritable litter-azzi, Remington melds activism and aesthetic to better his community and support KIB's mission of helping people and nature thrive—all in a square shot.

Through engagement efforts via our marketing/PR department and a very industrious Adopt-A-Block Captain KIB was able to create an event around the artist efforts of an industrious volunteer and the interest in a city-wide initiative.

KIB also hosted the Great Indy Cleanup wrap-up event on October 8 in the Flanner House neighborhood. This event saw great media coverage and the addition of a check presentation by Kroger Co. to benefit KIB's efforts in the community. We were happy to host the Mayor at the wrap-up event.

Additionally, KIB announced, in partnership with Citizen Energy Group, Indy Parks and DPW, the 10,000 trees initiative. This partnership was kicked-off with a press conference at Douglass Park and will span the next 7 years.

Media Highlights Include:

- WRTV6, 10,000 Trees
- WISHTV, 10,000 Trees
- CBS4, 10,000 Trees
- WTHR, Great Indy Cleanup
- Indy Star, Indy Do Day
- Southside Times, Volunteer of the Month

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Volunteers:

Number of Groups: 51

Number of group volunteers: 434
Number of corporate groups: 23
Number of corporate volunteers: 256
Number of projects: 181
Number of volunteers in parks: 308
Total volunteer experiences: 3,586
Total hours: 13,366
Total value: \$308,358.46

Recycle:

-Recycling calls and emails (dumpsters) = 13
-Trash boxes to city= 0
-Trash boxes sold=100
- Recycling bins= 6 to 2 different organizations

Looking Ahead:

November will see the First Friday Event where people will be able to see the Litter of Highland Park exhibit as well as vote for the top three GIC neighborhoods for 2017. Tree plantings continue every weekend as well as finishing project days at the Greenspace parks. ** There will be a new organizational chart at KIB as of January 1, 2017, which all is VERY exciting. Christine Duncan will be pursuing “Phase 3 of her work life”(i.e.—a few less work hours and a few more play hours) and leaving KIB at the end of December, with much love and respect for this fabulous organization. Joe Jarzen will be elevated to VP/Program Strategy (which oversees our Community Engagement, Greenspace, Volunteers and GIS Analyst). Mark Adler (who oversees the Parks, Medians and Gateways part of our Contract with the City) will be elevated to VP/Special Projects and Contracts. Mark will be overseeing the City contract and reporting to you each month. Mark has been with KIB for 10 years (heading up the big Lilly Day of Service each year) and many of you know him already. Joe has been with KIB for 5 years, most recently as the Director of Engagement and many of you know him as well. These are two great opportunities and I can’t imagine two better guys to fill these positions. Please feel free to contact them with any questions after the first of the year!



KEEP INDIANAPOLIS BEAUTIFUL Report to the CITY

Date: December 14, 2016

To: Lori, Miser, Anthony McDaniel, Alan Bacon, Mike Massonne, Bill Kinscius, Melody Park, Shawn Brock, Linda Broadfoot, Jennifer Hashem, Dominic Cornett, Ronnetta Spalding

From: Christine Duncan-Vice-President/Programs, KIB**

Re: KIB Monthly Report-November, 2016

Below, you will find a report of the activities of Keep Indianapolis Beautiful (KIB) in relationship to our contract obligations to the City of Indianapolis during the month of November, 2016.

Vibrant Neighborhoods:

**Great Indianapolis Cleanup (GIC): 2016 Contract Goal- 200 cleanups Cleanups to date: 383
Volunteers to Date: 12,842 Trash picked up to Date: 2,157,553 pounds**

GIC Deep Dive planning and selection:

The last and final piece of the new selection process for the 2017 GIC Focus Neighborhoods took place on Friday, Nov. 4th. KIB hosted a First Friday event called Litter2 (Litter squared). This event highlighted a series of artistic images of @LitterofHighlandPark, Dan Remington. Dan is a very engaged Adopt-A-Block captain that takes litter pickup to a new level of art. This evening was also devoted to the selecting of the 2017 Great Indy Cleanup Focus Neighborhood. The neighborhoods of Binford Redevelopment and Growth (BRAG), Kennedy King and Millersville pitched their communities to those in attendance in hopes of being selected as the 2017 Great Indy Cleanup Focus Neighborhoods for the months of April or October. At the end of the evening, selections were announced with the help of those in attendance and a panel of judges.

The final selections for 2017 were;

- April 2017 Great Indy Cleanup Focus Neighborhood – BRAG
- October 2017 Great Indy Cleanup Focus Neighborhood – Kennedy King
- 2017 Neighborhood Advancement Award (\$1,000) – Millersville
 - o This award is designed to help with community improvement and engagement. It is designed to assist the community to complete projects and tasks that will further neighborhood goals and improve its quality of life

Neighborhood Beautification:

2016 new IPL Greenspaces: 5 IPL Greenspaces in 3 year Maintenance agreements: 12

The four new Greenspaces projects are completed for this year. Springdale, surrounding the Temple Oak, is a pocket park everyone should see. The informational panels and peaceful sitting area remind every visitor just how important these 300 + year oak trees are to the city. Ringgold Park, Unity Park (Felege Hiywot) and the Town of Speedway all boast beautiful new plantings, trees, and in the Town of Speedway, an exceptional piece of art that everyone should visit, day or night. It lights up and is a flower native to Indiana. Work has begun engaging the neighborhoods for the 2017 IPL Greenspaces. Community, Caring and Sharing, Athenaeum and Progress House. Designs will be started in early 2017 and the groups have already participated in several workshops that will help them be more successful in attracting volunteers and maintaining their pocket parks.

Great Places: 2016 Great Places in maintenance: 2

The Great Places selection committee toured four Great Places and attended the final selection committee. Two more neighborhoods were selected for Great Places work starting in 2017. Twin Aire under SEND and United Northwest under Flanner House. Joe Jarzen, our new VP/Program Strategy, held the last Livability Committee meeting for the year. He will continue to oversee this committee in 2017. KIB will continue to be an early implementer in these neighbors with community engagement to see what the neighborhoods would like to see happen.

Adopt-a-Block: 2016 Contract goal: 750 blocks adopted Blocks adopted to date: 85

0 The program continues to grow and develop with now over 850 block captains. 950 was the goal for the year, but we will start 2017 with a solid foundation of 850 and the goal is to reach 1,000 AAB captains. These are very committed volunteers to keeping their neighborhood cleaned up, as well as being great resources to help connect people in their immediate areas. The final Steering Committee of the year was held, where they reviewed the year's achievements. The final newsletter of the year was sent. 2017 will call for a revised scoring system that will allow for a better metrics and measurement process. That will allow for a more meaningful way to understand the impact of the Adopt-A-block program.

Youth Involvement:

KIB Clubs: 2016 KIB Clubs: 5 Total Elementary Students "reached" to date with KIB Club event programs: 1443 Elementary students enrolled in schools with KIB Clubs: 1,178

Elementary students enrolled in the KIB Clubs: 78

Planted four varieties of native plant species in Spring Mill Elementary butterfly garden with club students

Planted two varieties of native plant species with Alumni Club school Lynurst 7th and 8th Grade Center

Painted benches in School 91 outdoor classroom with corporate volunteer group, Indiana Lions Club

Participated in Middle School Civic Engagement Program "Meet the Solutionaires" panel and spoke to 45 students

Continued regular fall club meetings at partner schools: Eleanor Skillen Elementary, Center for Inquiry 2, Spring Mill Elementary, and Rousseau McClellan School 91

Conducted soil test in partnership with Community Forestry department at potential future orchard site in bean creak neighborhood owned by KIB Clubs partner school Eleanor Skillen Elementary

Planted seven varieties of native plant species in butterfly garden at Skiles Test Elementary with corporate volunteer group Brockton Communities

Planted two Adopt-a-Block trees with Scouts Group at Spring Mill Elementary school

Participated in Alliance for Community Trees conference, in order to learn from "Urban Orchards" panel session

Created specific outline for new Stewardship Coordinator position within the KIB Clubs program Local tree service company, Tree-o, donated \$5,500 worth of services towards dead Ash tree removal in Skiles Test Eco-trail

Adult Dad's Club completed tool shed in Spring Mill Elementary Outdoor Classroom, and new tools were delivered to ensure maintenance of the space

Cooked fried green tomatoes with CFI club students using unripened tomatoes from their outdoor classroom garden beds

YTT: Staked trees: 10 trees Unstaked: 0 trees Trunk Guards installed: 0 trees
Mulched: 0 trees Pruned: 251 trees Trees planted: 147 at Post Road and 38th

A group of YTT youth attended the annual Partners in Community Forestry conference that was held in Indianapolis for the first time in early November. Eight of them attended the talks and

workshops on scholarships provided by the Indiana DNR. Several more of them participated in a tour provided by KIB to arborists from around the country. They demonstrated our watering techniques as well as our equipment.

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Media Relations:

Number of webpage hits relating to the City of Indianapolis: 1763

Number of mailings that mention the City of Indianapolis: 1 to 16,411 subscribers

Number of press releases that mention the City of Indianapolis: 1

In November, KIB hosted Litter2. The First Friday events was held to leverage our community impact regarding litter abatement through the Great Indy Cleanup and the Adopt-A-block program, as well as to serve as a launch event for the selection the new Great Indy Cleanup focus areas. More than 200 people were in attendance for this event, and the public pitch event was a complete hit. Additionally, the event garnered a great deal of community support with a "local celebrity" guest judge panel. Every media outlet covered the event.

Indianapolis was also the host city for the National Arbor Day/Partners in Community Forestry conference. KIB played a large role in the promotion and topics for the event, organizing speakers and city-wide field trips to see our impact and partnership with the City.

Media Highlights include:

-WRTV6-Litter 2 event

-WISHTV-Litter 2 event

-CBS4-Litter 2 event

-WTHR-Litter 2 event

-Indy Star-Litter 2 event

Volunteers:

Number of Groups: 10

Number of group volunteers: 104

Number of corporate groups: 6

Number of corporate volunteers: 57

Number of projects: 43

Number of volunteers in parks: 78

Total volunteer experiences: 1,098

Total hours: 2,319.25

Total value: \$53,505.10

Recycle:

-Recycling calls and emails (dumpsters) = 8

-Trash boxes to city= 0

-Trash boxes sold=39

- Recycling bins= 12 to 3 different organizations

Looking Ahead:

**This is the final City report submitted by Chris Duncan, who is retiring from KIB after four great years. It has been SUCH a pleasure to work with the City of Indianapolis and the key partners within, who have made this partnership so positive and productive. A very special thanks to Lori Miser, Melody Park, Bill Kinscius, and Shawn Brock who have stewarded our contracts and have been great advisors throughout the past four years. Your hard work has helped pave the way for another 40 wonderful years for KIB. Thank you. Mark Adler, our new VP/Special Projects and Contracts will be submitting these reports starting with the December report. If you have any questions, please contact Mark at MAAdler@kibi.org.

His cell number is 317-430-7676.

Happy Holidays and have a GREAT New Year!



KEEP INDIANAPOLIS BEAUTIFUL Report to the CITY

Date: January 26, 2017

To: Lori, Miser, Melody Park, Linda Broadfoot, Bob Frye, Mike Massonne, Bill Kinscius, Shawn Brock, Kathy Allen, Rachel Wilson, Betsy Whitmore, Jennifer Hashem, Dominic Cornett, Ronnetta Spalding

From: Mark Adler, Vice President of Special Initiatives, Keep Indianapolis Beautiful

Re: KIB Monthly Report - December, 2016

Below, you will find a report of the activities of Keep Indianapolis Beautiful (KIB) in relationship to our contract obligations to the City of Indianapolis during the month of December, 2016.

Vibrant Neighborhoods:

Great Indianapolis Cleanup (GIC):

2016 Contract Goal – 200 cleanups

Cleanups to date: 366

Volunteers to Date: 12,353

Trash picked up to Date: 2,157,553 pounds

- End of the year report was constructed for the 2016 project season.
- First meeting with the BRAG neighborhood was completed in December. This meeting was an initial intro to the process and what to expect. Committee was instructed to start thinking of possible projects and the January meeting will be focused on brainstorming possible project sites.

Neighborhood Beautification:

2016 IPL Greenspaces: 5

IPL Greenspaces in 3 year Maintenance agreements: 12

Wrapping up final pieces for 2016 Greenspace projects.

- Set up and attended January 5th Athenaeum Committee design meeting. Held Speedway end of project meeting and knowledge transfer on December 8th.
- Arranged and attended January 9th Community Caring & Sharing artist design presentation and selection for the greenspace.
- Meeting in December with Progress House focused with the designer, MKSK, to bring their ideas. MKSK went over and above and “wowed” the committee with their initial design and had little to no feedback from the committee. They loved the design.

Great Places:

2016 Great Places in maintenance: 2

- With the two new Great Places identified, we will look to a 2017 plan that focuses on engagement to add Adopt-A-Block participants and other programming ways where it makes sense.

Adopt-a-Block:

2016 Contract goal: 750 blocks adopted

Blocks adopted to date: 857

- The program closed out with 857 adopters which is a bit short of our internal goal of 950. Application do continue to come in and we hope that this will start us off well for 2017.

Youth Involvement:

KIB Clubs:

2016 KIB Clubs: 5

Total elementary students reached to date with KIB Club event programs: 308

Elementary students enrolled in schools with KIB Clubs: 2,605

Elementary students enrolled in the KIB Clubs: 151

- Oversaw completion of Spring Mill Elementary tree deck as part of the natural play area per their outdoor classroom design.
- Continued regular fall club meetings at partner schools: Eleanor Skillen Elementary, Center for Inquiry 2, Spring Mill Elementary, and Rousseau McClellan School 91.
- Began working to expand Alumni Club network participants by cataloging all past project partners of two previous youth program phases.
- Prepared a program Work Plan in connection with the new Organization Strategic Plan to be implemented in 2017.
- Finalized new part-time KIB Clubs Coordinator job description to be posted in January 2017

Community Forestry/Youth Tree Team:

Trees planted: 23 trees **Trees pruned: 188 trees**

Trees staked: 0 trees **Trees unstaked: 0 trees**

Trunk guards installed: 0 trees **Trees mulched: 0 trees**

- With the assistance of volunteer, 188 trees were pruned. Some additional mature trees along College Avenue, planted by KIB, were pruned by the Community Forestry staff.
- The last tree planting of the year was held on December 3 at the Butler Lab School. Due to sidewalk cuts happening later than anticipated, this projected had to be bumped into December.

Media Relations:

Number of webpage hits relating to the City of Indianapolis this month= 1088

Number of mailings that mention the City of Indianapolis this month= 1 to 16411 subscribers

Number of press releases that mention the City of Indianapolis this month= 0

- In December KIB celebrated the past 40 years of keeping Indianapolis clean and green with an end of the year fundraising campaign to raise \$40,000 in 40 hours. The catalyst for the campaign was a \$40,000 match challenge from the Efroymsen Family Fund. KIB successfully matched the challenge through the support of Indianapolis residents (many of them new donors) to raise over \$80,000 in total to support the next 40 years of service.

Volunteers:

Number of groups: 1

Number of group volunteers: 16

Number of corporate groups: 0

Number of corporate volunteers: 0

Volunteers in parks: 0

Number of projects: 17

Total volunteer experiences: 958

Total hours: 1,089

Total value: \$5,329.17

Overall 2016 numbers

Number of projects: 892

Total volunteer experiences: 29,300

Total hours: 102,850

Total value: \$2,353,243

Looking Ahead:

As we close out 2016 and look forward to 2017, KIB looks forward to the beginning of our 3 year strategic plan with this first year looking at metrics and measurements to give us baseline information to build on to establish some of the goals in the plan. This measurements will also hopefully enhance this report to be able to report better the great work that we can accomplish through this great relationship with all of you and other great partners across this community.



Keep Indianapolis Beautiful Report to the City of Indianapolis

Date: February 20, 2017

To: Lori, Miser, Melody Park, Linda Broadfoot, Bob Frye, Mike Massonne, Bill Kinscius, Shawn Brock, Kathy Allen, Rachel Wilson, Betsy Whitmore, Jennifer Hashem, Dominic Cornett, Ronnetta Spalding

From: Mark Adler, Vice President of Special Initiatives, Keep Indianapolis Beautiful

Re: KIB Monthly Report - January, 2017

Vibrant Neighborhoods:

Great Indianapolis Cleanup (GIC):

Contract Goal – 250 cleanups

Cleanups to date: 0

Volunteers to Date: 0

Trash picked up to Date: 0 pounds

- Continued meeting with the BRAG neighborhood for the planning and development of the April GIC focused event.
- The team is reviewing metrics measurements which could be implemented in 2018. These would include tracking pounds of trash and more enhanced volunteer tracking for specific neighborhoods.

Neighborhood Beautification:

IPL Greenspaces: 3

IPL Greenspaces in 3 year Maintenance agreements: 14

- Design meetings with the 3 new grant recipient committees (Athenaeum, Community Caring & Sharing and Progress House) and their assigned landscape architects have been happening. Each committee is nearing the completion of their designs.
- Preliminary meetings with the Indianapolis Historic Preservation Commission (IHPC) have been held to determine any permitting or construction restrictions with the elements that are currently in the draft design at the Athenaeum project site.
- Stewardship is a new position to KIB for 2017, Adam Schmutte is actively creating a strategy for re-engaging communities and volunteers to assist in the long-term maintenance and stewardship at past greenspace project locations. A major component of this initiative is the Alumni Club, a network of past project partners that convene quarterly to learn and discuss gardening tips, volunteer recruitment strategies, litter abatement, support needs and much more.

Great Places:

- Early engagement with the two new Great Places at Twin Aire and Flanner House are in the planning stages along with continued engagement for the prior three Great Places at

Englewood Village, Maple Crossing and River West.

Adopt-a-Block:

Contract goal: 500 blocks adopted

Blocks adopted to date: 874

- 18 new captains were added in January to continue growth with the program.

Youth Involvement:

KIB Clubs:

Current KIB Clubs: 5

Total elementary students reached to date with KIB Club event programs: 86

Elementary students enrolled in the KIB Clubs: 70 (not all schools reported, still engaging for the spring)

- Presented at 2017 Indiana Park & Recreation Association Conference in partnership with Hitchcock Design Group through an education session titled “Creative Play Environments: Education in the Outdoors”.
- Attended 2017 ‘Nature Play Day’ Planning Meeting in partnership with Indy Parks, The Nature Conservancy, Indiana Children and Nature Network, among other entities.
- Held Steering Committee Meetings with partner schools including Center for Inquiry 2, Eleanor Skillen Elementary School 34, and Rousseau McClellan School 91 to discuss 2017 project plans and education outcomes.
- Continued cataloging all past project partners of two previous youth program phases with the aim of expanding Alumni Club Network participants

Community Forestry/Youth Tree Team:

Trees planted: 0 trees **Trees pruned: 229 trees** **Trees staked: 0 trees**

Trees unstaked: 0 trees **Trunk guards installed: 0 trees** **Trees mulched: 0 trees**

- Spring planning continues with the Community Forestry staff visiting various nurseries across the Midwest to tag trees for spring projects that will kick off on March 18.
- Youth Tree Team continues its recruitment of the teams with their annual Challenge Day happening on March 11.

Media Relations:

Number of webpage hits relating to the City of Indianapolis this month: 5,112

Number of mailings that mention the City of Indianapolis this month: 2 to 16,107 subscribers

Number of press releases that mention the City of Indianapolis this month = 0

- During the month of January, KIB program staff continued planning for the ramp up of project season (starting in March).

- Communications efforts focused on preparing materials and updates for the 2017 season. The University of Indianapolis is hosting the Fairbanks Symposium on Civic Leadership: Building Vibrant Cities Through Greenspace & Parks in partnership with Keep Indianapolis Beautiful, Indiana Humanities, and Indy Parks. The communications team from each department finalized speakers and topics for the event, with public release of the invitation February 1.

Volunteers:

Number of groups: 0

Number of group volunteers: 0

Number of corporate groups: 0

Number of corporate volunteers: 0

Volunteers in parks: 0

Number of projects: 14

Total volunteer experiences: 881

Total hours: 973.25

Total value: \$22,929.77

Looking Ahead:

February will be a month of planning as we get closer to our spring kick-off in March. This includes recruiting for both of Youth Tree Team and Urban Naturalist programs to get the teams built and ready to be put into action. KIB will also host is annual donor luncheon in late February which recognizes all of those that supported KIB in some way from 2016. It will be at Indiana Landmarks which is a new location this year.



Keep Indianapolis Beautiful Report to the City of Indianapolis

Date: February 20, 2017

To: Lori, Miser, Melody Park, Linda Broadfoot, Bob Frye, Mike Massonne, Bill Kinscius, Shawn Brock, Kathy Allen, Rachel Wilson, Betsy Whitmore, Jennifer Hashem, Dominic Cornett, Ronnetta Spalding

From: Mark Adler, Vice President of Special Initiatives, Keep Indianapolis Beautiful

Re: KIB Monthly Report - January, 2017

Vibrant Neighborhoods:

Great Indianapolis Cleanup (GIC):

Contract Goal – 250 cleanups

Cleanups to date: 0

Volunteers to Date: 0

Trash picked up to Date: 0 pounds

- Continued meeting with the BRAG neighborhood for the planning and development of the April GIC focused event.
- The team is reviewing metrics measurements which could be implemented in 2018. These would include tracking pounds of trash and more enhanced volunteer tracking for specific neighborhoods.

Neighborhood Beautification:

IPL Greenspaces: 3

IPL Greenspaces in 3 year Maintenance agreements: 14

- Design meetings with the 3 new grant recipient committees (Athenaeum, Community Caring & Sharing and Progress House) and their assigned landscape architects have been happening. Each committee is nearing the completion of their designs.
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Great Places:

- Early engagement with the two new Great Places at Twin Aire and Flanner House are in the planning stages along with continued engagement for the prior three Great Places at Englewood Village, Maple Crossing and River West.

Adopt-a-Block:

Contract goal: 500 blocks adopted

Blocks adopted to date: 874

- 18 new captains were added in January to continue growth with the program.

Youth Involvement:

KIB Clubs:

Current KIB Clubs: 5

Total elementary students reached to date with KIB Club event programs: 86

Elementary students enrolled in the KIB Clubs: 70 (not all schools reported, still engaging for the spring)

- Presented at 2017 Indiana Park & Recreation Association Conference in partnership with Hitchcock Design Group through an education session titled "Creative Play Environments: Education in the Outdoors".
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Trees pruned: 229 trees

Trees staked: 0 trees

Trees unstaked: 0 trees

Trunk guards installed: 0 trees

Trees mulched: 0 trees

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- Youth Tree Team continues its recruitment of the teams with their annual Challenge Day happening on March 11.

Media Relations:

Number of webpage hits relating to the City of Indianapolis this month: 5,112

Number of mailings that mention the City of Indianapolis this month: 2 to 16,107 subscribers

Number of press releases that mention the City of Indianapolis this month = 0

- During the month of January, KIB program staff continued planning for the ramp up of project season (starting in March).
- Communications efforts focused on preparing materials and updates for the 2017 season. The University of Indianapolis is hosting the Fairbanks Symposium on Civic Leadership: Building Vibrant Cities Through Greenspace & Parks in partnership with Keep Indianapolis Beautiful, Indiana Humanities, and Indy Parks. The communications team from each department finalized speakers and topics for the event, with public release of the invitation February 1.

Volunteers:

Number of groups: 0	Number of group volunteers: 0
Number of corporate groups: 0	Number of corporate volunteers: 0
Volunteers in parks: 0	
Number of projects: 14	Total volunteer experiences: 881
Total hours: 973.25	Total value: \$22,929.77

Looking Ahead:

February will be a month of planning as we get closer to our spring kick-off in March. This includes recruiting for both of Youth Tree Team and Urban Naturalist programs to get the teams built and ready to be put into action. KIB will also host its annual donor luncheon in late February which recognizes all of those that supported KIB in some way from 2016. It will be at Indiana Landmarks which is a new location this year.



Keep Indianapolis Beautiful Report to the City of Indianapolis

Date: March 30, 2017

To: Lori, Miser, Melody Park, Linda Broadfoot, Bob Frye, Mike Massonne, Bill Kinscius, Shawn Brock, Kathy Allen, Rachel Wilson, Betsy Whitmore, Jennifer Hashem, Dominic Cornett, Ronnetta Spalding, Katie Robinson

From: Mark Adler, Vice President of Special Initiatives, Keep Indianapolis Beautiful

Re: KIB Monthly Report - March, 2017

Vibrant Neighborhoods:

Great Indianapolis Cleanup (GIC):

Contract Goal – 250 cleanups

Cleanups to date: 0

Volunteers to Date: 0

Trash picked up to Date: 0 pounds

- Registration is open for April cleanups. Cleanup weekends are April 1, 8, 22 and 29, with a blackout date of April 15 due to Easter. April cleanup weekends are split into four quadrants for these weekends and cleanup coordinators are encouraged to register based on their quadrant. DPW provides an AM and PM packer truck shift, limited dumpsters and boom truck pickups for the month of April. Weekends are filling up quickly and communities are excited to get started with the spring kickoff.
- Meeting continue with the BRAG neighborhood, spring focus neighborhood, on a bi-monthly basis to organize the cleanup event. Projects are focused along the Binford Blvd thoroughfare with shoulder and median cleanup. These efforts have additional coordination with DPW and IMPD North District.

Neighborhood Beautification:

IPL Greenspaces: 3

IPL Greenspaces in 3 year Maintenance agreements: 14

- The design portion for all 3 IPL Project GreenSpace locations and is beginning to look ahead to the project implementation phase. The three project locations are: the Mars Hill Neighborhood, the Irish Hill Neighborhood and in the historic Mass Ave. Arts and Cultural District.
- KIB will begin permitting discussions with IHPC as well as the Business and Neighborhood Services for each unique greenspace in the coming month. Preliminary meetings with the Indianapolis Historic Preservation Commission (IHPC) have been held to determine any permitting or construction restrictions with the elements that are currently in the draft design at the Athenaeum project site.
- Adam Schmutte has successfully scheduled spring maintenance work days with each past IPL Project GreenSpace location still within their 3 year partnership. The KIB GreenSpace Alumni Club, a network of past greenspace partners, met at the KIB Club School at Lynhurst 7th and 8th Grade Center to view their greenspace as well as discuss challenges, resource sharing and upcoming workshop opportunities. The Alumni Club serves past projects in the ongoing preservation, stewardship and maintenance of their spaces.

Great Places:

- Early engagement with the two new Great Places at Twin Aire and Flanner House are in the planning stages along with continued engagement for the prior three Great Places at Englewood Village, Maple Crossing and River West.

Adopt-a-Block:

Contract goal: 500 blocks adopted

Blocks adopted to date: 879

- A handful of new captains were added in February and work continues to build more.
- This month we also did some statistics on how many miles of blocks we have adopted. The 879 blocks adopted equal 175.42 miles with the shortest block 0.2 miles and the longest 3.7 miles, fun statistic!

Youth Involvement:

KIB Clubs:

Current KIB Clubs: 5

Total elementary students reached to date with KIB Club event programs: 97

Elementary students enrolled in the KIB Clubs: 71 (not all schools reported, still engaging for the spring)

- Held first 2017 after-school club meeting with Rousseau McClellan School 91 and continued after-school club meetings with Center for Inquiry 2.
- Held Steering Committee Meetings with partner school Spring Mill Elementary to discuss 2017 project plans and education outcomes.
- Toured five Alumni Club school partner spaces with new Stewardship Coordinator in order to familiarize him with maintenance needs of these past projects.

Community Forestry/Youth Tree Team:

Trees planted: 0 trees

Trees pruned: 0 trees

Trees staked: 0 trees

Trees unstaked: 0 trees

Trunk guards installed: 0 trees

Trees mulched: 0 trees

- The Community Forestry staff hosted two training events for our Tree Tenders (advanced tree planting volunteer that provide support at planting projects) including a workshop for first time Tree Tenders and an advanced winter hike for tree identification.
- A few member of the team also presented at Dr. Burney Fisher’s Urban Forestry class at IU Bloomington to talk about the KIB tree planting process and share our hot spot mapping tool.

Media Relations:

Number of webpage hits relating to the City of Indianapolis this month: 7,639

Number of mailings that mention the City of Indianapolis this month: 3 to 15,107 subscribers

Number of press releases that mention the City of Indianapolis this month = 0

- During the month of February, communications efforts focused on promoting the Fairbanks Symposium on Civic Leadership: Building Vibrant Cities Through Greenspace & Parks in partnership with UIndy, Keep Indianapolis Beautiful, Indiana Humanities, and Indy Parks.
- At the 2016 Donor Appreciation Breakfast on February 23, the City of Indianapolis was recognized in front of nearly 200 guests as KIB's 2016 Organization Donor of the Year.

Volunteers:

Number of groups: 0	Number of group volunteers: 0
Number of corporate groups: 0	Number of corporate volunteers: 0
	Volunteers in parks: 0
Number of projects: 8	Total volunteer experiences: 908
Total hours: 967.50	Total value: \$22,794.30

Looking Ahead:

- March will ramp up our planning significantly with our first projects of the season happening.
- This includes tree plantings with the Garfield Park Neighborhood, Friends of Ellenberger Park, Catholic Cemeteries and Irvington Development Organization. In addition, our Youth Tree Team Challenge day kicks off the Community Forestry season on March 11.
- Project planning and project days for both Greenspace and KIB Clubs will continue with dates being established to get work started with the improving weather.
- Finally, we are gearing up for our annual volunteer appreciation dinner on March 22 and hope to once again have 400+ attendees from all of our programs to thank them for their service to KIB and our city.



Keep Indianapolis Beautiful Report to the City of Indianapolis

Date: April 26, 2017

To: Melody Park, Linda Broadfoot, Bob Frye, Mike Massonne, Bill Kincius, Shawn Brock, Kathy Allen, Rachel Wilson, Betsy Whitmore, Jennifer Hashem, Dominic Cornett, Ronnetta Spalding, Katie Robinson, Warren Stokes, Ben Easley

From: Mark Adler, Vice President of Special Initiatives, Keep Indianapolis Beautiful

Re: KIB Monthly Report - April, 2017

Vibrant Neighborhoods:

Great Indianapolis Cleanup (GIC):

Contract Goal – 250 cleanups

Cleanups to date: 0

Volunteers to Date: 0

Trash picked up to Date: 0 pounds

- Cleanup signups are still flowing in for April with approximately 100 neighborhood cleanups planned.
- The Great Indy Cleanup Supply Distribution was held and cleanup coordinators came and picked up their supplies for their respective cleanups.
- Met with Mayor's Neighborhood Advocates regarding the April activities.
- Mayors Great Indy Cleanup - Focus Neighborhood – Binford Redevelopment and Growth (BRAG). Cleanup is looking for have eight to ten projects, still with a focus on Binford Blvd from Rucker Road to 75th Street. The opening ceremony will take place at Stanley Security Solutions and request for Mayor Hogsett to be in attendance has been submitted.
- Cleanups interested in organizing for May through September will be open starting April 3rd.

Neighborhood

Beautification:

IPL

Greenspaces: 3

IPL Greenspaces in 3 year Maintenance agreements: 14

- IPL Project Greenspace has been busy this season finalizing all the designs for the 2017 project sites. Development staff is pursuing large, in-kind asks for several locations that require excavation. An IHPC Certificate of Appropriateness was filed for the location at the historic Athenaeum site with pending hearing on May 3rd.
- The KIB Stewardship program has already completed 4 maintenance work days at past greenspace sites. These work days focus on best management practices for their specific planting and hardscape maintenance. Program leader Adam Schmutte is also actively seeking sites from our portfolio of past greenspace project sites to re-engage and rejuvenate their spaces.
- The Urban Naturalist program has initiated its "ramping up" as the college student's school schedule's allow them to be available. They have successfully completed a large installation planting at the newly constructed Pinnex apartment complex near our facility. Program Manager Ethan Olson has spent much of March completing site assessments for future invasive removal volunteer projects in alignment with our Restoration Master Plan.

Great Places:

Adopt-a-Block:

Contract goal: 500 blocks adopted

Blocks adopted to date: 879

- A handful of new captains were added in February and work continues to build more.
- This month we also did some statistics on how many miles of blocks we have adopted. The 879 blocks adopted equal 175.42 miles with the shortest block 0.2 miles and the longest 3.7 miles, fun statistic!

Youth Involvement:

KIB Clubs:

Current KIB Clubs: 5

Total elementary students reached to date with KIB Club event programs: 97

Elementary students enrolled in the KIB Clubs: 71 (not all schools reported, still engaging for the spring)

- Held first 2017 after-school club meeting with Rousseau McClellan School 91 and continued after-school club meetings with Center for Inquiry 2.
- Held Steering Committee Meetings with partner school Spring Mill Elementary to discuss 2017 project plans and education outcomes.
- Toured five Alumni Club school partner spaces with new Stewardship Coordinator in order to familiarize him with maintenance needs of these past projects.

Community Forestry/Youth Tree Team:

Trees planted: 0 trees

Trees pruned: 0 trees

Trees staked: 0 trees

Trees unstaked: 0 trees

Trunk guards installed: 0 trees

Trees mulched: 0 trees

- The Community Forestry staff hosted two training events for our Tree Tenders (advanced tree planting volunteer that provide support at planting projects) including a workshop for first time Tree Tenders and an advanced winter hike for tree identification.
- A few member of the team also presented at Dr. Burney Fisher’s Urban Forestry class at IU Bloomington to talk about the KIB tree planting process and share our hot spot mapping tool.

Media Relations:

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- During the month of February, communications efforts focused on promoting the Fairbanks Symposium on Civic Leadership: Building Vibrant Cities Through Greenspace & Parks in partnership with UIndy, Keep Indianapolis Beautiful, Indiana Humanities, and Indy Parks.
- At the 2016 Donor Appreciation Breakfast on February 23, the City of Indianapolis was recognized in front of nearly 200 guests as KIB's 2016 Organization Donor of the Year.

Volunteers:

Number of groups: 0	Number of group volunteers: 0
Number of corporate groups: 0	Number of corporate volunteers: 0
Volunteers in parks: 0	
Number of projects: 8	Total volunteer experiences: 908
Total hours: 967.50	Total value: \$22,794.30

Looking Ahead:

- March will ramp up our planning significantly with our first projects of the season happening.
- This includes tree plantings with the Garfield Park Neighborhood, Friends of Ellenberger Park, Catholic Cemeteries and Irvington Development Organization. In addition, our Youth Tree Team Challenge day kicks off the Community Forestry season on March 11.
- Project planning and project days for both Greenspace and KIB Clubs will continue with dates being established to get work started with the improving weather.
- Finally, we are gearing up for our annual volunteer appreciation dinner on March 22 and hope to once again have 400+ attendees from all of our programs to thank them for their service to KIB and our city.



Keep Indianapolis Beautiful Report to the City of Indianapolis

Date: May 23, 2017

To: Tim Joyce, Melody Park, Linda Broadfoot, Bob Frye, Mike Massonne, Bill Kincius, Shawn Brock, Kathy Allen, Rachel Wilson, Betsy Whitmore, Dominic Cornett, Ronnetta Spalding, Katie Robinson, Warren Stokes, Ben Easley

From: Mark Adler, Vice President of Special Initiatives, Keep Indianapolis Beautiful

Re: KIB Monthly Report - May, 2017

Vibrant Neighborhoods:

Great Indianapolis Cleanup (GIC):

Contract Goal – 250 cleanups

Cleanups to date: 140

Volunteers to Date: 153 groups representing 3,535 volunteers

Trash picked up to Date: 292.37 tons (584,740) pounds

- April was the kick off month for the Great Indy Cleanup so lots of great work is kicking off. With April having an extra weekend, cleanups were going on during each of the 5 weekends.
- While we had our focus weekend in the Binford Redevelopment and Growth on April 29, unfortunately due to severe weather we had to cancel the day. Some of the crucial projects (tree planting and mulch spreading) did occur the week after. We are working with this group for a smaller scale event on June 10 to help tackle some of the other projects that did not get completed.

Neighborhood Beautification:

IPL Greenspaces: 3

IPL Greenspaces in 3 year Maintenance agreements: 14

- IPL Project Greenspace had a busy April with finalizing all permitting and design. KIB has gathered several new community partners to assist with skilled services such as excavation, engineering and fabrication. April experienced several cancellations of scheduled projects due to excessive rainfall.
- The KIB Stewardship program has been very busy completing a large number of maintenance work days at past greenspace project locations. Adam Schmutte, KIB's Stewardship Coordinator, is also working hard on an upcoming workshop about native bees that filled to max occupancy within days of opening the registration.
- The Urban Naturalist program had several new team members begin in April with intermittent work days while the program ramps up to full swing in mid-May. The team completed a native planting at the newly constructed Pinnex Apartment/Condo Complex next door to our facility and has started maintenance operations. The team also had the opportunity to lead a corporate volunteer group from First Person Advisors at Skiles Test Elementary School (a KIB Club School) in an invasive species removal project.

Great Places:

- Community Engagement staff attended and met with Great Places 2020 Twin Aire and continued to provide consulting for the Maple Crossing, River West and Englewood Village locations.

Adopt-a-Block:

Contract goal: 500 blocks adopted

Blocks adopted to date: 934

- April was a great month for the Adopt-a-Block program with a number of new neighbors adopting their block. We hope this trend will continue to get us over the 1,000 mark soon.
- The team began preparations and finalized plant material orders for the native plant distribution where Adopt-a-Block Captains can receive native plants for their block and to share with their neighbors. That event will be Saturday, May 20.

Youth Involvement:

KIB Clubs:

Current KIB Clubs: 5

Total elementary students reached to date with KIB Club event programs: 140

Elementary students enrolled in the KIB Clubs: 115

- A volunteer work day with Citizens Energy Group, neighborhood volunteers and parents and students from Eleanor Skillen Elementary school planted a community orchard which was a wish list item for the school.
- KIB Clubs Manager presented to elementary students at Butler University Laboratory School about the benefits of urban trees
- Additional volunteer work days included Guggenheim Partners at Rousseau McClellan School 91 and First Person at Skiles Test Elementary.

Community Forestry/Youth Tree Team:

Trees planted: 399 trees

Trees Watered: 9,344

Trees pruned: 382 trees

Trees staked: 27 trees

Trees unstaked: 35 trees

Trunk guards installed: 564 trees

Trees mulched: 1,189 trees

- The Community Forestry team completed 7 planting projects this month including Bona Thompson Center (Irvington Garden Club), Bel Moore, Emerson Heights and Graceland Avenue and Blue Ridge Road in the Butler Tarkington neighborhood.
- Youth Tree Team held its applicant tree planting and also conducted formal interviews for new hires. 31 new youth were hired for this summer along with the returning youth, all positions have been filled.
- The team also began preparations including hiring new staff and determining basins for planting as part of the Citizens Energy Group 10,000 trees initiative.

Media Relations:

Number of webpage hits relating to the City of Indianapolis this month: 19,012

Number of mailings that mention the City of Indianapolis this month: 3 to 16,686 subscribers

Number of press releases that mention the City of Indianapolis this month = 3

- Some April highlights included: KIB and IPL revisited the original IPL Greenspace for a workday at Community Baptist (April 13), Earth Day tree plantings and participation at various celebrations (April 22) and National Fish & Wildlife with FedEx tree planting in the Pleasant Run watershed area (April 24).
- April was filled with activity as KIB kicked off the Great Indy Cleanup and Earth Month. Engaged citizen action on all 5 Saturdays in April highlighted the efforts of the It's My City campaign. Residents took to the streets to cleanup illegal dumping, litter, and winter-overgrowth.
- To celebrate Arbor Day, KIB messaging focused on tree education during the week prior -- leading up to the public release of the KIB Tree Canopy Planner and Hotspot Map. KIB uses this map to plan tree plantings, track survivability, and record maintenance. As a public facing tool, Indy residents can find plantable space in their neighborhood and plan for KIB Community Forestry Tree Applications.

Volunteers:

Number of groups: 175

Number of corporate groups: 11

Volunteers in parks: 5

Number of group volunteers: 3,919

Number of corporate volunteers: 205

Number of projects: 213

Total hours: 19,394.5

Total volunteer experiences: 5,150

Total value: \$447,431.12

Looking Ahead:

- With preparation work scheduled within our Greenspaces, work will begin in full force to begin to transform these spaces from bland to beautiful.
- Tree plantings with Roche at Pogues Run Art and Nature Park, Greenbriar HOA, Braeburn Village and IPL as part of their annual Day of Service along the Pogues Run Greenway will add 224 trees to the landscape.
- With spring winding down, we will be planning for full maintenance activities including our Youth Tree Team being with us 4 days a week starting on June 12.



Keep Indianapolis Beautiful Report to the City of Indianapolis

Date: June 19, 2017
To: Tim Joyce, Melody Park, Linda Broadfoot, Bob Frye, Mike Massonne, Bill Kincius, Shawn Brock, Kathy Allen, Rachel Wilson, Betsy Whitmore, Dominic Cornett, Ronnetta Spalding, Katie Robinson, Warren Stokes, Ben Easley
From: Mark Adler, Vice President of Special Initiatives, Keep Indianapolis Beautiful
Re: KIB Monthly Report - June, 2017

Vibrant Neighborhoods:

Great Indianapolis Cleanup (GIC):

Contract Goal – 250 cleanups

Cleanups to date: 172

Volunteers to Date: 193 groups representing 4,211 volunteers

Trash picked up to Date: 369.85 tons (739,700) pounds

- May was a busy month of the Great Indy Cleanup with 40 groups participating with almost 700 volunteers.
- KIB also partnered with the Department of Business and Neighborhood Services for a Trash Sweep Initiative in the Riverside and UNWA areas which have had higher than average reporting of illegal dumping. This initiative will continue in the months where there are five Wednesday's in different areas of the city to focus resources. Numbers from this initial effort will be available next month.

Neighborhood Beautification:

IPL Greenspaces: 3

IPL Greenspaces in 3 year Maintenance agreements: 14

- IPL Project Greenspace has started to host volunteer projects at 2 of the 3 Greenspace locations to begin to develop the base hardscape for these sites. The third location, the Athenaeum has received a Certificate of Appropriateness and is in the process of completing an Encroachment License before work can begin.
- The KIB Stewardship program hosted a well-attended Intro to Native Bees workshop that included the construction of a native bee nesting box. Stewardship has been blasting through work days with volunteers at various past greenspace location sites such as: Millersville at Fall Creek Valley, Fox Hill Estates, & Devington Transit Stop. Also new to the program, the start of a new externship with IU SPEA Bloomington will allow a funded extern to help us organize the data and assess the level of involvement that remains at past greenspace locations that have fallen out of our immediate network.
- The Urban Naturalist program is fully staffed and in the field completing their maintenance commitments in Indy Parks locations, Greenway locations as well as CSO033, CSO032 and Pinnex sites. The team has also successfully completed First Aid and Fleet training. Their first enrichment activities have been underway as they have job shadowed with such great partners as: CBBEL Engineering, The Garfield Park Conservatory and Sunken Garden, as well as an in-depth native plant seminar by staff Director of Greenspace, Emily Wood.

Great Places:

- Community Engagement staff started the Twin Aire Great Places Livability meetings and continued general outreach for 2018 applications.

Adopt-a-Block:

Contract goal: 500 blocks adopted

Blocks adopted to date: 1,120

- May was an amazing month for the Adopt-A-Block program where we surpassed not only 1,000 adopters but passed 1,100! That is an increase of almost 200 over the course of the last month. This effort was possible through more focused efforts through the Great Indy Cleanup and also pushing some competition among neighborhoods which was very effective!
- On May 20, 191 block captains picked up their native plant through the spring distribution. This event not only helps to educate about and get more native plant material in the ground but also another tool for the block captains to work with their neighbors.

Youth Involvement:

KIB Clubs:

Current KIB Clubs: 5

Total elementary students reached to date with KIB Club event programs: 140

Elementary students enrolled in the KIB Clubs: 115

- Hosted Kate Franzman of Bee Public at Rousseau McClellan School 91 KIB Club meeting and Center for Inquiry 2 KIB Club meeting to teach kids about the importance of bees.
- Held "Picnic with the Parents" event at two KIB Club partner schools: Spring Mill Elementary and Rousseau McClellan School 91 to engage school and parent community and educate them about the outdoor classrooms.
- Attended fruit-tree-pruning workshop with Tree-Centric in order to further sustainability efforts at KIB Club partner schools with orchards.

Community Forestry/Youth Tree Team:

Trees planted: 260 trees

Trees Watered: 6,631

Trees pruned: 290 trees

Trees staked: 105 trees

Trees unstaked: 2 trees

Trunk guards installed: 389 trees

Trees mulched: 1,060 trees

- The Community Forestry team completed 5 planting projects this month including Braeburn Village, and Greenbriar. Trees were also planted as part of the Roche Day of Service in the Pogues Run Art & Nature Park and IPL Day in the Parks along the Pogues Run Greenway.
- The team also began visiting nurseries to tag trees for tree plantings this fall.
- We also hired 34 new Youth and 4 new Leaders for the upcoming summer season. We will have 68 Youth, 18 Adult Leaders, and 2 part-time managers this summer.

Media Relations:

Number of webpage hits relating to the City of Indianapolis this month: 19,018

Number of mailings that mention the City of Indianapolis this month: 3 to 16,686 subscribers

Number of press releases that mention the City of Indianapolis this month = 1

- Some May highlights included: Roche Day of Service in Pogues Run Art & Nature Park (May 5), IPL Day in the Parks (May 11), Adopt-A-Block Native Plant Distribution (May 20) and BNS Great Indy Cleanup & Illegal Dumping Trash Sweep in Riverside/UNWA Neighborhood (May 30).
- KIB partnered with the Department of Business & Neighborhood Services to tackle illegal dumping in the Riverside neighborhood on May 30. Volunteers, BNS employees, and DPW worked together to pull trash out of abandoned lots throughout the community. The Trash Sweep initiative is part of the continued It's My City campaign.

Volunteers:

Number of groups: 13
Number of corporate groups: 10
Volunteers in parks: 625

Number of group volunteers: 717
Number of corporate volunteers: 701

Number of projects: 98
Total hours: 9,773.5

Total volunteer experiences: 2,601
Total value: \$225,474.65

Looking Ahead:

- Youth Tree Team begins with us for the summer on June 12 putting lots of young people in the city watering and maintaining trees.
- With most of the prep work complete for the current Greenspace projects, some hardscape implementation will begin to happen that will further these projects.
- There is also a push for neighborhoods and groups to apply for both trees and greenspace through applications that are due on July 7.



Keep Indianapolis Beautiful Report to the City of Indianapolis

Date: July 21, 2017

To: Dan Parker, Tim Joyce, Melody Park, Linda Broadfoot, Bob Frye, Mike Massonne, Bill Kincius, Shawn Brock, Kathy Allen, Rachel Wilson, Betsy Whitmore, Dominic Cornett, Ronnetta Spalding, Katie Robinson, Warren Stokes, Ben Easley

From: Mark Adler, Vice President of Special Initiatives, Keep Indianapolis Beautiful

Re: KIB Monthly Report - July, 2017

Vibrant Neighborhoods:

Great Indianapolis Cleanup (GIC):

Contract Goal – 250 cleanups

Cleanups to date: 198

Volunteers to Date: 219 groups representing 4,625 volunteers

Trash picked up to Date: 639.77 tons (1,410,451) pounds

- While June was not as busy of a month as April, the amount of litter picked was almost 600,000 pounds, so groups did a lot of heavy lifting!
- KIB also partnered with the Department of Business and Neighborhood Services and DPW for a Trash Sweep Initiative in the Riverside and UNWA on June 29.

Neighborhood Beautification:

IPL Greenspaces: 3

IPL Greenspaces in 3 year Maintenance agreements: 14

- IPL Project Greenspace has a great deal of prep work completed including excavation and raised garden beds (in the form of large tires) was completed. Permitting has been completed with Athenaeum and planning for excavation of proceeding. Pathways were completed at Progress House along with some additional planning for elements that will be including in this space.
- The KIB Stewardship program hosted from Hoosier Lottery in an invasive removal project at a 2010 Greenspace project at Fox Hill estates. Unity Park, one of the 2016 Greenspace locations, held their celebration of the completion of their space. Held the 2nd Quarter Alumni Club at the end of June at Fletcher Place Gateway with double the attendees of the previous meeting.
- The Urban Naturalist program is fully staffed and in the field completing their maintenance commitments in Indy Parks locations, Greenway locations as well as CSO033, CSO032 and Pinnex sites. The team has also had enrichment activities including an experience with the Urban Wilderness Trail with Greg Harger of IUPUI, chainsaw training and meeting with an environmental lawyer to learn about the focus of their work.

Great Places:

- Community Engagement staff started the Twin Aire Great Places Livability meetings and continued general outreach for 2018 applications.

Adopt-a-Block:

Contract goal: 500 blocks adopted

Blocks adopted to date: 1,033*

- June saw an increase in the number of block captains but the overall number is lower than previously reporting. Due to a glitch in our tracking software about 100 captains were double counted. So while a bit lower, we continue to see new adopters every day.
- The program was shared with a variety of groups in the community including 30th and Kessler Neighborhood Association, Garfield Park Library Festival Day, West Indy Community Day, Great Places 2020 (25th & MLK), Circle of Friends Senior Group and the Mars Hill Community meeting.

Youth Involvement:

KIB Clubs:

Current KIB Clubs: 5

Total elementary students reached to date with KIB Club event programs: 178

Elementary students enrolled in the KIB Clubs: 115

- KIB Clubs Coordinator worked with partner school Spring Mill Elementary to organize and establish summer maintenance schedule for outdoor classroom.
- Conducted site visit to past partner school Avondale Meadows Academy with Stewardship Coordinator as part of new maintenance and sustainability strategy for school space.
- Discussed opportunities and strategies for communicating storm water messaging to our project partners and KIB Club students.
- Led volunteers at Skiles Test Elementary as part of rescheduled Spring Great Indy Cleanup effort and working with the school on relocation of teaching garden due to school expansion.

Community Forestry/Youth Tree Team:

Trees planted: 0 trees

Trees watered: 6,631

Trees pruned: 567 trees

Trees staked: 73 trees

Trees unstaked: 92 trees

Trunk guards installed: 0 trees

Trees mulched: 2,494 trees

- Our Youth Tree Team was in full swing watering thousands of trees each week and mulching on those weeks where we had significant rainfall. The team this year consists of 88 participants.
- As part of the enrichment program, Youth Tree Team also took an overnight camping trip to Bradford Woods, had a birds of prey presentation from Eagle Creek Ornithology Center, had a Leave No Trace Camping presentation by DNK Presents, and had an Arborist/Landscape Architect Career Day.
- The team worked to further organize the fall planting logistics as well as begin to look at right of way planting opportunities for 2018.
- The team also visited a few additional tree nurseries to tag trees for tree plantings this fall.

Media Relations:

Number of webpage hits relating to the City of Indianapolis this month: 19,104

Number of mailings that mention the City of Indianapolis this month: 3 to 16,686 subscribers

Number of press releases that mention the City of Indianapolis this month = 0

- KIB partnered with the Department of Business & Neighborhood Services to tackle illegal dumping in the Riverside neighborhood on June 29. Volunteers, BNS employees, and DPW worked together to pull trash out of abandoned lots throughout the community. The Trash Sweep initiative is part of the continued It's My City campaign.

Volunteers:

Number of groups: 12
Number of corporate groups: 10
Volunteers in parks: 1

Number of group volunteers: 132
Number of corporate volunteers: 107

Number of projects: 45
Total hours: 5,974.25

Total volunteer experiences: 1,557
Total value: \$137,825.95

Looking Ahead:

- From a staffing update, Emily Wood, Director of Greenspace, left KIB to become the Executive Director of the Indiana Wildlife Federation and Lauren Wright, Great Indy Cleanup Coordinator, left due to her husband being transferred to Atlanta. Both positions have been posted with the hope of getting those filled by mid-August.
- Applications for both Greenspace and Community Forestry are being reviewed after their deadline of early July. As we sort through those, there will certainly be opportunities by many of you on this report to help in seeing what makes the best projects and locations.



Keep Indianapolis Beautiful Report to the City of Indianapolis

Date: August 24, 2017

To: Dan Parker, Tim Joyce, Melody Park, Linda Broadfoot, Bob Frye, Mike Massonne, Bill Kincius, Shawn Brock, Kathy Allen, Rachel Wilson, Betsy Whitmore, Dominic Cornett, Ronnetta Spalding, Katie Robinson, Warren Stokes, Ben Easley

From: Mark Adler, Vice President of Special Initiatives, Keep Indianapolis Beautiful

Re: KIB Monthly Report - August, 2017

Vibrant Neighborhoods:

Great Indianapolis Cleanup (GIC):

Contract Goal – 250 cleanups

Cleanups to date: 227

Volunteers to Date: 241 groups representing 5,338 volunteers

Trash picked up to Date: 674.10 tons (1,509,984) pounds

- July was a quieter month on the Great Indy Cleanup front but still had 22 cleanups that pulled almost 90,000 pounds of trash out of the neighborhoods.
- Meetings also continued with the Kennedy-King neighborhood which is the focus area for the October cleanup. Projects and activities are shaping up.

Neighborhood Beautification:

IPL Greenspaces: 3

IPL Greenspaces in 3 year Maintenance agreements: 14

- IPL Project Greenspace is in full swing with hardscape implementation. Aside from projects at the Athenaeum and Progress House, the highlight of the month was a workday attended by the Mayor at Community Caring & Sharing. The Mayor worked with volunteers to move dirt around the site to create the plantable beds at the site and did more than we asked of him.
- The KIB Stewardship program continues with upcoming projects at Double 8 Rain Garden (2011), Fox Hill Estates (2010), and Ringgold Park (2016). Consulted with North Willow Farms (2009) on their space.
- The Urban Naturalist program has been in the field continuing their maintenance in their Indy Parks locations with plants in full bloom at both Krannert and Washington Parks. They also led a volunteer group in removing invasive species near Barton Park West, tackling almost 2 acres to open up more of this section of Fall Creek.

Great Places:

- Community Engagement staff continued work and planning for the Twin Aire and 25th and MLK Great Places.

Adopt-a-Block:

Contract goal: 500 blocks adopted

Blocks adopted to date: 1,040

- July saw some more additions to the Adopt-A-Block program which continues to show strong representation from all over the City.

- The program was shared with a variety of groups in the community including an event with Zion Hope and additional meeting in the Great Places areas.

Youth Involvement:

KIB Clubs:

Current KIB Clubs: 5

Total elementary students reached to date with KIB Club event programs: 594

Elementary students enrolled in the KIB Clubs: 115

- Continued research for volunteer vetting processes by speaking with other representatives from various local youth organizations and nonprofits.
- Continued curriculum research and development during school summer interim in preparation for fall 2017 semester.
- Began working with Volunteer Manager and Volunteer Coordinator to develop booth activities related to STEM (Science Technology Engineering and Math) disciplines geared towards youth.
- Led volunteers from Clark Dietz at Skiles Test Elementary, AmWins at Spring Mill Elementary, Salesforce at Rousseau McCllean School 91 and DOZ at Eleanor Skillen School 34.

Community Forestry/Youth Tree Team:

Trees planted: 0 trees

Trees watered: 6,631

Trees pruned: 832 trees

Trees staked: 71 trees

Trees unstaked: 117 trees

Trunk guards installed: 97 trees

Trees mulched: 1,515 trees

- 13 members of our Youth Tree Team participated in a sustainability camp at IU over a long weekend. Some of the other activities included a trip to a local tree nursery to see the process of growing trees, participating in the Pollinator Count and financial literacy information provided by First Financial Bank.
- Members of the Youth Tree Team were also joined by the Mayor to kick off Pollinator Week by joining their weeding and watering.
- Community forestry applications for 2018 have been reviewed and site visits with potential project partners including reviewing the site for planting possibilities and talking with neighborhoods about their potential for bringing volunteers and future care for the trees.
- Work also continued on the planning for fall planting projects including 1,007 trees that will be planted as part of Lilly Day of Service.

Media Relations:

Number of webpage hits relating to the City of Indianapolis this month: 19,104

Number of mailings that mention the City of Indianapolis this month: 3 to 16,686 subscribers

Number of press releases that mention the City of Indianapolis this month = 2

- It's My City stations were featured at 5 parks on Pack the Parks day to engage residents in the importance of keeping Indy Parks clean. Community members picked up trash around the parks and shared their Hudnut Hook on social media.
- Pollinator Count Week (July 17-23) was a huge success with nearly 630 participants totaling over 1,000 observations. Counters spent roughly four minutes per count observing a 1' x 1' patch of land and recording what they saw. The project received just over 800,000 earned media views and reached 38,500 users on social media. Event highlights included counts at all Girls Inc. summer camps, #KIBEES featured in lights on the IPL building, counts with the Youth Power Climate Camp, downtown Farmers Market, tree pruning pollinator counts, and a native plant and pollinator talk at Cardno Nursery.

- Mayor's Workdays with KIB – Community Caring & Sharing: Mayor Joe Hogsett worked with KIB and Mars Hill community members to create a pocket park, Community Caring and Sharing Center Park. Volunteers spread dirt around the lot that until recently was covered in gravel and concrete. The park embodies the spirit of the Mayor's It's My City campaign meant to inspire civic pride in the residents of Indianapolis.
 - Social Media: 6,756 impressions
- Mayor Joe Hogsett joined KIB's Youth Tree Team (YTT) members to kick off Pollinator Count Week by joining their weeding and watering of trees after a hot, dry week. The Mayor also joined YTTers in a pollinator count and learned about the importance of native plants and pollinators.
 - Social Media: 760 impressions
- It's My City Activities – Kicking off Indy Do Day: July focused on finalizing plans for Lilly's Global Day of Service and Indy Do Day. It's My City will offer five ways for the community to get involved: (1) individual cleanup; (2) school cleanups; (3) Guinness World Record on the Cultural Trail; (4) Corporation-sponsored cleanup/art nodes; (5) 30 mile of trail cleanup and messaging. Each opportunity will include a litter cleanup and leave-behind anti-litter messaging. Logistics were finalized for the upcoming August 4 Prep Rally to launch Indy Do Day and the September 28 It's My City Cleanup. Plans for the Prep Rally include: interactive billboard, hook shot challenge with Indianapolis sports team mascots, and food trucks. Hosted in partnership with the Rotary Club and Downtown Indy, Inc.

Volunteers:

Number of groups: 16

Number of corporate groups: 12

Volunteers in parks: 1

Number of group volunteers: 100

Number of corporate volunteers: 86

Number of projects: 58

Total hours: 7,704.25

Total volunteer experiences: 1,999

Total value: \$177,737.05

Looking Ahead:

- From a staffing update, Ethan Olson, has been promoted from Urban Naturalist Leader to Director of Native Landscapes filling the vacated roll of Emily Wood. This position was expanded a bit to add some of the habitat restoration work as well as the Greenspace program.
- With applications in hand, interview dates are being scheduled to visit with 45 applicants for Community Forestry and 18 applicants for Greenspace. Staff review along with a review with a larger group of partners will happen soon with the goal of selecting 2018 projects by September.



Keep Indianapolis Beautiful Report to the City of Indianapolis

Date: September 29, 2017

To: Dan Parker, Tim Joyce, Melody Park, Linda Broadfoot, Bob Frye, Mike Massonne, Bill Kincius, Shawn Brock, Kathy Allen, Rachel Wilson, Betsy Whitmore, Dominic Cornett, Ronnetta Spalding, Katie Robinson, Warren Stokes, Ben Easley

From: Mark Adler, Vice President of Special Initiatives, Keep Indianapolis Beautiful

Re: KIB Monthly Report - September, 2017

Vibrant Neighborhoods:

Great Indianapolis Cleanup (GIC):

Contract Goal – 250 cleanups

Cleanups to date: 235

Volunteers to Date: 249 groups representing 5,802 volunteers

Trash picked up to Date: 684.10 tons (1,508,182) pounds

- August 31st brought another trash sweep in connection with the Department of Business and Neighborhood Services in the Martindale Brightwood area.
- Also in the final interviews for filling the Great Indy Clean-Up Coordinator spot and hope to have this new person on board in September.

Neighborhood Beautification:

IPL Greenspaces: 3

IPL Greenspaces in 3 year Maintenance agreements: 14

- Ethan Olson was promoted to the Director of Native Landscapes which is now a combined position of IPL Project GreenSpace, Stewardship and Habitat Restoration (Urban Naturalist) programs under one consolidated and focused department.
- 2018 GreenSpace projects were selected. Those are: Shelton Heights Greenspace, Urban Temple gateway in the Cottage Home neighborhood, Fall Creek Community Orchard, Flanner House Community Orchard and Prospect Falls Greenspace, both of those within the Great Places 2020 neighborhoods.
- Habitat Restoration work funded by the Nina Mason Pulliam Trust funding has kicked off and the Partners of the White River group is formally meeting to coordinate efforts. Partners of the White River is a partnership between each of the nine recipients of the funding for restoration and advocacy work along the White River. A communication and metrics committees have been formed to help coordinate efforts. KIB is engaged in both.
- Stewardship efforts included the completion of a McKinney Foundation intern's summer work to document the condition and engagement level of every GreenSpace, KIB Club, Green Schools and Project 180 project that KIB has completed since the program's inception. This work laid the foundation for further measurement of the past projects that KIB can re-engage in the coming years. It helps define where we have been and where we might go.

Great Places:

- Community Engagement staff continued work and planning for the Twin Aire and 25th and MLK Great Places.

Adopt-a-Block:

Contract goal: 500 blocks adopted

Blocks adopted to date: 1,055

- August saw some more additions to the Adopt-A-Block program which continues to show strong representation from all over the City.
- The program was shared with a variety of groups in the community including an event at Riverside Park for the reverse trade show.

Youth Involvement:

KIB Clubs:

Current KIB Clubs: 5

Total elementary students reached to date with KIB Club event programs: 608

Elementary students enrolled in the KIB Clubs: 115

- Created lesson plan for 'It's My City' campaign entitled "Campus-Clean-Up Litter Abatement".
- Installed native plant signage in pollinator garden at partner school Center for Inquiry 2.
- Led work day at partner school Rousseau McClellan School 91.
- Continued after-school club meetings with Rousseau McClellan School 91, and Center for Inquiry 2.

Community Forestry/Youth Tree Team:

Trees planted: 0 trees

Trees watered: 5,766

Trees pruned: 340 trees

Trees staked: 16 trees

Trees unstaked: 31 trees

Trunk guards installed: 0 trees

Trees mulched: 129 trees

- During the month of August, our Youth Tree Tam transitioned from weekday work to Saturday work due to school beginning for all of the participants.
- Some projects included two staff pruning days at McCarty Triangle Park and the Old North side, Tree Tender mulching day at I-65 and Paris, and a staff survival tracking day at Douglass Golf Course.
- Community forestry staff completed site visits with all 2018 applicants and created maps that helped to rate each project and area for the potential tree planting opportunities.
- Work also continued on the planning for fall planting projects including 1,003 trees at Shadeland and Brookville and 83 trees along Georgetown Road that will be planted as part of Lilly Day of Service.

Media Relations:

Number of webpage hits relating to the City of Indianapolis this month: 17,660

Number of mailings that mention the City of Indianapolis this month: 10 to 16,110 subscribers

Number of press releases that mention the City of Indianapolis this month = 5

- It's My City Prep Rally (August 4) - KIB hosted, along with Indy Do Day, Downtown Indy Inc, and the City of Indianapolis, a "Prep Rally" for the It's My City Cleanup/Chalk Projects. It's My City took over Food Truck Friday on Georgia Street to promote upcoming Indy Do Day civic engagement activities. The lunch hour (11am - 1:30pm) included creating an interactive billboard, sign-up for volunteer opportunities, press conference with Mayor Hogsett, and a Hudnut/Hogsett Hook competition between Indianapolis' top sports mascots.
- Lilly Global Day of Service (LGDOS) Kick-off (August 15 & 24) - KIB led a kick off meeting with Lilly's Day of Service captains to educate and inform service captains about the It's My City Cleanup/LGDOS activities.
- Bulldogs into the Streets (August 26) - KIB partnered with Butler University to complete high visibility service projects around the Great Places 2020 Maple Crossing neighborhood. Projects included mulching in Indy Parks' Tarkington Park, weeding/mulching, a mural on the MLK Center, and

- Marion County School District Meetings - KIB marketing staff visited school districts around the county (including mayor sponsored charter schools) to share information about the upcoming chalk and cleanup activities on Thursday, September 28 during Indy Do Day. KIB staff created leave behind kits and instructions for principals to engage staff and students in the citywide initiative.
- BNS/Great Indy Cleanup Trash Sweet (August 31) - KIB promoted the cleanup event prior to the project date and via social media and traditional news outlets on project day. KIB is sponsoring the It's My City Selfless.ly app created by Joshua Driver and announced by Mayor Hogsett. Driver released an additional press release mentioning KIB, It's My City, and the City -- and conducted media interviews as a result of the collaboration.

Volunteers:

Number of groups: 15

Number of corporate groups: 2

Volunteers in parks: 0

Number of group volunteers: 638

Number of corporate volunteers: 78

Number of projects: 44

Total hours: 6,345

Total volunteer experiences: 1,775

Total value: \$153,168.30

Looking Ahead:

- Lots of great work will be happening at our GreenSpace projects with the hope of completing at least 1 of them during September.
- With the addition of some new staff and staff in new roles, looking forward to a fall full of projects and exciting work all around the city.
- Through our partnership with Lilly and tied to Indy Do Day, thousands of volunteers will be out on September 28 spreading the message of "It's My City" through public art and messaging this exciting initiative.



Keep Indianapolis Beautiful Report to the City of Indianapolis

Date: October 19, 2017

To: Dan Parker, Tim Joyce, Melody Park, Linda Broadfoot, Bob Frye, Mike Massonne, Bill Kincius, Shawn Brock, Kathy Allen, Rachel Wilson, Betsy Whitmore, Dominic Cornett, Ronnetta Spalding, Katie Robinson, Warren Stokes, Ben Easley

From: Mark Adler, Vice President of Special Initiatives, Keep Indianapolis Beautiful

Re: KIB Monthly Report - October, 2017

Vibrant Neighborhoods:

Great Indianapolis Cleanup (GIC):

Contract Goal – 250 cleanups

Cleanups to date: 270

Volunteers to Date: 286 groups representing 7,415 volunteers

Trash picked up to Date: 729.44 tons (1,608,139) pounds

- Allie Kast has joined the KIB staff as the new Great Indy Clean-Up Coordinator. Most know her as a former Mayor's Neighborhood Advocate.
- Fall clean-ups are in the full swing with almost 40 groups spread across the city.

Neighborhood Beautification:

IPL Greenspaces: 3

IPL Greenspaces in 3 year Maintenance agreements: 14

- Adam Schmutte was promoted from Stewardship Coordinator to Urban Naturalist Manager which now leaves us with Adam's former position to fill to get the team to full strength.
- Work continued at the current Greenspace projects at Progress House (checkboard installed and mural completed on adjacent building), Community Caring and Sharing (pergola structure and planting completed) and Athenaeum (patio installation close to completion).
- Stewardship efforts included invasive removal at Fox Hill Estates (2011 project) with Salesforce and Appirio to complete work from the Spring. There was also a workday at Ringgold Park (2016 project) with neighbors and other volunteers to weed and replace dead plants.

Great Places:

- Two of the five 2018 GreenSpace projects were awarded within Twin Aire (Prospect Falls) and 25th and MLK (Flanner House). Both of these will begin their design processes with implementation happening throughout 2018.
- During Lilly Day of Service/Indy Do Day, 90 Lilly employees spread out over the Twin Aire Great Place to pick up litter, clean curbs and sidewalks.

Adopt-a-Block:

Contract goal: 500 blocks adopted

Blocks adopted to date: 1,090 (including 16 schools and 3 businesses)

- September was the launch of the expansion of the Adopt-A-Block program to include schools and businesses. There has been a more informal relationship in the past but now this effort can be more targeted to provide recognition for both groups.

- As part of the It's My City initiative where over 400 schools were provided chalk and messaging to participate, 4 schools directly reached out to become adopt their block.
- Adopt-A-Block information was shared with a few different groups including Shepherd Community Paracletes and El Shaddai Apostolic Community Day.

Youth Involvement:

KIB Clubs:

Current KIB Clubs: 5

Total elementary students reached to date with KIB Club event programs: 620

Elementary students enrolled in the KIB Clubs: 92

- Continued after-school nature-focused club meetings with Rousseau McClellan School 91, Spring Mill Elementary, Skiles Test Elementary, Center for Inquiry 2, and Eleanor Skillen Elementary.
- Officially re-branded KIB Clubs program with new name, "KIB GreenKids."
- Guest speaker Greg Monzel (herbalist) attended Rousseau McClellan School 91 club meeting and Eagle Creek Ornithology Center attended Center for Inquiry 2 club meeting.
- Gave Keep America Beautiful president Helen Lowman tour of past KIB partner school Paramount School of Excellence and current school partner Center for Inquiry 2.

Community Forestry/Youth Tree Team:

Trees planted: 1,122 trees

Trees watered: 5,766

Trees pruned: 318 trees

Trees staked: 193 trees

Trees unstaked: 13 trees

Trunk guards installed: 120 trees

Trees mulched: 1,208 trees

- September kicked off fall tree plantings with Lilly Day of Service/Indy Do Day. 35 trees were planted in the Delaware Street Gateway for training the Lilly Team Captains and 1,086 trees were planted on the big day with 83 on Georgetown Road north of Lafayette Road and 1,003 at the interchange of Shadeland Avenue and Brookville Road.
- The Community Forestry staff also selected all 2018 tree planting projects. The plan is to plant 2,000 city right-of-way trees, 1,400 trees through a contract with Citizens Energy Group, and an additional 200 trees on other properties

Media Relations:

Number of webpage hits relating to the City of Indianapolis this month: 14,736

Number of mailings that mention the City of Indianapolis this month: 10 to 16,110 subscribers

Number of press releases that mention the City of Indianapolis this month = 5

- On Indy Do Day 2017, the entire City of Indianapolis joined together in an It's My City civic engagement initiative to raise awareness about litter and highlight the power of individual action to make a difference in our city. Thirty six miles of streets, sidewalks, and trails were transformed by local artists and community members, demonstrating the vision for an Indianapolis that is "Clean, Green and Beautiful."
- Participation reached far beyond the corporate volunteers. Chalk kits were distributed to almost all Marion County schools and mayor-sponsored charter schools. Students and teachers across the city participated in litter cleanups and messaging on school grounds. Individuals were encouraged to step outside for 15 minutes or an entire day to volunteer, pick up litter, and leave an #itsmycity awareness messaging behind.
- Impact Numbers
 - Project Scope
 - 36 miles of Indianapolis trails and sidewalks connecting 17 chalked public service

- 9 Marion County public school communities and 49 mayor-sponsored charter schools
 - Unlimited litter cleanup projects for individuals
- Art Node Sponsors & Volunteers
 - Sycamore School with Art to Remember, Lilly, BGD Legal, Essentra, IUPUI, Fairway Outdoor, Cummins, Salesforce, Borshoff, Citizen’s Energy, IPL, CICF, Stifle, DeWitt & Shrader, TrendyMinds
 - TOTAL VOLUNTEERS: 420
 - HOURS OF SERVICE: 35,280
- Participating School Districts
 - Beech Grove City Schools, M.S.D. of Washington Township, M.S.D. of Wayne Township, Indianapolis Public Schools, M.S.D. of Lawrence Township, M.S.D. of Pike Township, M.S.D. of Decatur Township, M.S.D. of Warren, M.S.D. of Perry Township, Mayor Sponsored Charter School (Office of Education Innovation)
 - TOTAL STUDENTS: 5,925
 - HOURS OF SERVICE: 11,850
- Lilly Impacts
 - 1,087 trees planted, 500 yards of mulch, 500 native plants installed, 3 building/underpass murals, 36 miles of litter cleanup and PSA artwork
 - TOTAL VOLUNTEERS: 2,500
 - HOURS OF SERVICE: 10,000
- It’s My City Indy Do Day Community Cleanup
 - 31 people registered
 - 14 volunteer hours
 - 6 reported impacts
 - “I am a Block Captain. I stay involved all year, picking up trash and cleaning storm drains. I have noticed a decrease in trash in the streets since I have started cleaning on a regular basis. I often engage in conversations when I am out on the streets when people stop to ask what I am doing. I turn and show my shirt and tell them about KIB.” - Lyanna, cleanup volunteer
 - “The usually litter that seems to find itself in certain locations but it is quickly satisfying to clean up your area. Feels like I’m visibly helping others by being a good influence.” - Chris, cleanup volunteer
- Media Coverage Report
 - Overview
 - Advertising Value Equivalency (traditional channels): \$252,274
 - Unique media hits: 77
 - Media Alerts/Releases sent out: 5
 - Social Media
 - Social media posts with project hashtags: 1,051 posts
 - Social media reach: 729,108 people
 - Social media reach AVE: \$6,745
 - Social media post AVE: \$44,793
 - Broadcast Station Coverage
 - WISH-IN Channel 8, WTHR-IN Channel 13, WBND ABC57, WTTV CBS 4, FOX59, WRTV ABC6, WIBC-FM, WISH-IN IndyStyle

- Media Clip Samples
 - Indy Star
 - Thousands of volunteers 'chalk' up new Guinness World Record for Eli Lilly day of service | September 28, 2017 (online article)
 - Eli Lilly paints town with chalk | September 29, 2017 (print version)
 - The Statehouse File
 - City attempts world record to improve community in time of dissension | September 26
- Keep America Beautiful
 - Volunteers Break GUINNESS WORLD RECORDS™ Title and Raise Awareness about Litter and Civic Pride | October Affiliate newsletter

Volunteers:

Number of groups: 14

Number of corporate groups: 14

Volunteers in parks: 10

Number of group volunteers: 2,634

Number of corporate volunteers: 2,634

Number of projects: 106

Total hours: 21,593

Total volunteer experiences: 5,524

Total value: \$521,254.78

Looking Ahead:

- During the month of October, fall project season will be in full swing. This includes tree plantings with Citizens Energy Group on Gladstone and Grant Street, Purpose of Life Academy, Old North Side (with Downtown Indy and FFA) and trees planted through the Fall Great Indy Clean-Up
- Speaking of, the Kennedy-King neighborhood will be the hub of activity for the Fall Great Indy Clean-Up. Over a dozen projects will be happening including tree planting, cleaning of streets, alleys and sidewalks and painting of some crosswalks.
- The Adopt-A-Block program will have their annual tree distribution where 130 trees captains will receive trees along with training and care to ensure they have the ultimate success.

2016 Great Indy Cleanup End of Year Report

Great Indy Cleanup – Program History

Keep Indianapolis Beautiful's Great Indy Cleanup is an anti-litter and community empowerment program in partnership with the City of Indianapolis. The program provides needed resources to residents willing to combat litter, debris and illegal dumping in public spaces and encourages residents to work together to make a difference. The Great Indy Cleanup program runs weekends from April through October each year. Through generous support from numerous community partners, KIB is able to empower residents to make a difference in **their community**.

KIB and the City of Indianapolis have been partners around community cleanups since 1976, when Mayor Hudnut established a city organization called the "Clean City Committee", a first step in his quest to revive downtown Indy. Although KIB became an independent non-profit in 1981, we continue to partner with the City of Indianapolis to empower residents and tackle litter and illegal dumping sites in Marion County through the Great Indy Cleanup program.

In recent years, the program has evolved to include April kick-off and October wrap up events. These projects include numerous beautification projects in addition to community cleanup efforts, serving as a reward to hardworking residents and neighborhoods.

The success of this citywide event is made possible due to the generous support of these key partners, who provide generous financial sponsorship for the program, as well as:

City of Indianapolis/Department of Public Works

Provides trash dumpsters and trucks for Saturday events, including the City's entire truck fleet for the April and October Great Indy Cleanups.

South Side Landfill

Has donated trash disposal for the Great Indy Cleanup program for over 25 years, and donates disposal for the entire Great Indy Cleanup season – April through October.

Kroger

Since 2011, Kroger has provided gift certificates so neighbors can provide volunteer snacks or lunch together after their cleanup, as well as Kroger bags for the distribution

of supplies to cleanup coordinators.

Covanta

Covanta's participation in 2011 has allowed the program to grow to all four Saturdays in April. For the month of April, Covanta typically donates packer truck disposal for the April Great Indy Cleanup Events.

Republic Services

Republic has contributed cash to purchase trash bags and gloves for the Great Indy Cleanup for over 10 years. Republic doubled their contribution beginning in 2011 to help support the expanded April Great Indy Cleanup program.

Additional financial support provided by the following new GIC sponsors in 2016: Clif Bar Baking Company, Community Health, First Financial Bank and Hoosier Lottery. Large-scale volunteer support for the April and October large-scale GIC events was also provided by Clif Bar Baking Company and First Financial Bank

Community Benefits of the Great Indy Cleanup:

The visual benefits of this community improvement program are obvious, with cleaner streets, alleyways, sidewalks and other public spaces. There are, however, less obvious benefits to Indianapolis worth recognizing:

- Empower residents to make a difference in their community
- Build community through neighbor engagement
- Create unique spaces that reflect the community
- Raise awareness of urban neighborhoods
- Offer opportunities for corporate groups to work with residents of urban neighborhoods
- Alleys, street gutters, vacant and abandoned properties are cleaned up!
- 100% grassroots – projects are selected by the residents
- Reward residents already working hard to turn their neighborhood around
- Foster pride in neighborhood
- Build strong respect between residents and DPW

- Illustrate benefits of working together
- In April 2016, 171 community groups organized a cleanup event in their neighborhoods. Neighbors reached out to neighbors to engage them in an effort to make their community better. Neighbors can forget their differences and unite around a common goal, resulting in strong community ties. It is not uncommon for participants to exclaim “I met neighbors I didn’t know I had!” United residents are a key component in the revitalization of Indy’s urban neighborhoods.
- Positive relationships between residents and Department of Public Works employees are created. Residents appreciate the help of packer and boom truck crews to tackle their illegal dumping issues. DPW employees appreciate the work residents do in alleys, making their weekday work easier. The camaraderie between residents and public service workers is reflected in lunch and photos together afterward.

April Great Indy Cleanup Kick-Off Event – Old Southside Neighborhood

Each year, a community is selected to be the focus neighborhood for the April Great Indy Cleanup Kick-Off event. Although there are dozens of cleanups every Saturday in April, one large community event serves as a celebration of the program, and allows KIB to bring hundreds of volunteers in to assist the residents of the focus community. The neighborhood of Old Southside was selected for April 2016 with the intention of raising awareness of these “forgotten” neighborhoods and to reward them for all of the hard work they have been able to accomplish on their own.

KIB began working with representatives from these neighborhoods in October of 2015. The neighborhood was selected due to their need and want to better their community. Residents were encouraged to share ideas for projects they would like to accomplish with the help of additional resources and volunteers. A small scale “Great Indy Cleanup” event was arranged to help residents understand how an April Great Indy Cleanup event would work, and to encourage additional residents to participate. Residents cleaned up the area on Palmer Street and also paired this with a mural painting on the side of one of the buildings in the neighborhood.

For the April 23, 2016 Great Indy Cleanup event the residents of Old Southside chose to focus on street and gutter cleanups, invasive removals and plant prep work. 170 trees were planted by volunteers in nearby Garfield Park also in coordination of the event. Over 400 volunteers signed up to assist Old Southside residents with their chosen projects, with Mayor Joe Hogsett kicking off the event from the Concord Community Center at 9am to an eager and ready to work crowd:



The community of Old Southside has worked and is still working on creating its new identity. After the neighborhood of Concord going under the Old Southside neighborhood work together with the former baby Denny neighborhood to become what it is today. This collaboration of coming together allowed for the neighborhood to find ways of beautifying and unifying together. Many neighbors became involved with Keep Indianapolis Beautiful and joined the Adopt-A-Block program to start making a difference in the community.

For the April Great Indy Cleanup approximately ten neighbors with the assistance of a handful of Public Allies and the Concord Community Center came together to organize the event:



Together the committee identified 15 project sites that ranged from ten street and alley cleanups, three invasive removal sites and two beautification sites of plant bed prep and weeding/mulching the public areas. During the cleanup, neighbors shared their stories with the volunteers on their love of the Old Southside neighborhood, some who have been a part of the community for decades. Volunteers also learned how the work they were doing was so impactful to the community.



April Great Indy Cleanup Statistics

In the month of April each year, KIB coordinates a citywide event to re-engage residents after the quiet months of winter. Over the last seven years, the April Great Indy Cleanup has grown into KIB's largest volunteer event of the year, and something that neighborhoods and volunteers look forward to participating in each spring.

Since 2011, Marion County has been divided into four 'quadrants' for the April Great Indy Cleanup event, determined by Mayor Neighborhood Liaison districts. Each quadrant is assigned a Saturday in April for their community cleanups. This has allowed us to grow the program significantly, in that packer trucks can work with one neighborhood group in the morning, a second in the afternoon, then pick up thoroughfare cleanups in the late afternoon. This regional concentration has increased awareness of the program, while reducing travel time and costs for DPW.

<u>Overall April 2016 Statistics</u>	
Total Number of Cleanups	171
Total Tonnage	537.35 tons (1,074,700 lbs)
Total Volunteers	6,679
Total Value @ 23.07/hr (4 hrs)	\$616,338

It is important to note that all trash is collected by volunteers and disposed of at no charge to the City through in-kind donations to KIB.



October Great Indy Cleanup Wrap-up Event – Northwest Area

Each year, a community is selected to be the focus neighborhood for the October Great Indy Cleanup Wrap-Up event. Although there are dozens of cleanups every Saturday in October, one large community event serves as a celebration of the program, and allows KIB to bring hundreds of volunteers in to assist the residents of the focus community. The neighborhood groups of the Northwest Area (formally known as United Northwest) were selected for October 20156 with the intention of raising awareness and gathering momentum for their efforts over the last year. Cleanup efforts were focused in the Northwest Area neighborhoods of Riverside, Neighbors Helping Neighbors, Rivers Edge and NW Civic Area. Groundwork Indy (located in the neighborhood) was also a huge supporter and participant throughout the process.

Northwest Area committee approached KIB in April 2016 to start a monthly cleanup in specific areas throughout the Northwest Area community and asked for guidance and assistance in resources to complete this tasks. This was a great sign of a grass root driven

effort by the community to make a direct difference. The Northwest Area was selected to be the October 2016 Great Indy Cleanup Focus Neighborhood. KIB began working with representatives from these neighborhoods in June of 2016. Residents were encouraged to share ideas for projects they would like to accomplish with the help of additional resources and volunteers. Community members started organizing by adopting their blocks locally and held community cleanup day during the summer with a group of dedicated volunteers utilizing the resources provided by DPW and KIB. From this event they were able to identify the key areas of concern for the larger scale cleanup in October.

On Saturday, October 8th at the Watkins Park Family Center, an amazing group of 218 volunteers signed up to assist the North Area residents with their chosen projects. Opening ceremony started at 9:00am with speakers including Mayor Joe Hogsett, Patrice Duckett (Northwest Area resident) and a check presentation from Kroger, Inc. Volunteers were excited to get dirty and make an impact.



The residents of the Northwest Area community chose to focus on street and gutter cleanups, alley cleanups, beautification projects (Charlie Wiggins Community Park, Watkins Park and fence line invasive removal) and clearing of abandoned homeless camp (in coordination with Indianapolis Museum of Art). Community leaders led 7 street and alleyway cleanups throughout three neighborhoods. Beautification projects included mulching, painting and clearing suckers from trees at Watkins Park; painting, mulching and stone path creation at Charlie Wiggins Community Park; and working with South Grove Golf Course and Indy Parks in clearing invasive from the fence line on Riverside East Drive from 18th St. to Burdsal Pkwy, along with beautifying Indy Parks entry sign at 18th St. and Riverside East Drive. An abandoned homeless camp was found by one of the committee members from a previous cleanup and was added as a project. The Indianapolis Museum of Art was involved in this project as the homeless camp was on their property just south of the 100 Acres Park on White River Pkwy East Drive.



All projects were led by a residents of the community. Most were led by residents that lived in the direct area that the project was located. Community project leaders shared their stories with the volunteers on not only why they love their community but also how the work that the volunteers were doing was so important for the neighborhood. Each project was paired with a DPW resource and tools needed to complete their tasks. Community project leaders, volunteers and everyone involved completed their work in the Northwest Area being able to see the huge impact they had made in a short amount of time and took a great deal of pride in the difference they had made in our City.



Benefits of the Great Indy Cleanup Focus Neighborhood:

- The community’s opportunity to express itself through artwork like murals benefits the larger community as well as strengthens the focus community’s identity.
- Deepened community involvement – Through the planning process for the Great Indy Cleanup event, the focus neighborhood selects projects together to be accomplished with the help of KIB volunteers. The typical one or two community leaders evolves into many leaders, as they request and then lead their projects of choice.
- KIB-recruited volunteers come from all over central Indiana. They are exposed to Indy’s urban neighborhoods – quite different from their suburban neighborhoods. Many are inspired to consider urban living, and to be part of the urban renewal in Indianapolis. This especially happens once they work side by side with urban residents who are engaged and working together to create “community” in their neighborhoods.
- Youth and family groups are attracted to volunteering at the annual Great Indy Cleanup, since it is always family-friendly and can accommodate large volunteer groups. Young volunteers are exposed to the rewards of helping neighborhoods in need, and the camaraderie of working together toward the common good.

Great Indy Cleanup: Total Year Numbers

Throughout the year, residents are provided the opportunity to coordinate community cleanups any weekend between April and October. KIB coordinates with community leaders to plan their cleanup day, provide them tools needed to complete their work (i.e. gloves, trash bags and a resource sheet), and work with the City to provide dumpsters for the cleanups. KIB also works closely with the Southside Landfill on their donation to accept the trash delivered after every cleanup.

As shown in the chart below, the overall number of neighborhood cleanups held in 2016 shows a decrease in comparison to 2015. KIB observed this decrease to have a majority to do with the lack of resources available for the May-September cleanups months. Without access to these resources, such as DPW packer trucks and boom trucks, neighborhoods deterred from organizing an additional cleanup.

Overall 2016 Statistics		2015 Statistics
Total Number of Cleanups	366	428

Total Tonnage	978.65 tons (2,157,553 lbs.)	873 tons (1,745,700 lbs.)
Total Volunteers	12,535	14,005
Total Value @ 23.07/hr (4 hrs)	\$1,156,729.80	\$1,263,251

It is important to note that all trash is collected by volunteers and disposed of at no charge to the City through in-kind donations to KIB.

Testimonials

NEIGHBORHOOD ORGANIZER: “I want to thank KIBI for obtaining the funding/ sponsorship and management of this event! It truly makes a difference in neighborhoods like Irvington. Access to a dumpster and support for food allowed 14 neighbors to clean their curbs and 3 stretches of alley that many pass through or by each day. We filled that dumpster in 2 hours... Your program gives interested neighbors help to keep our old urban neighborhood attractive and safer.” - Paula Schmidt, Irvington Neighborhood

NEIGHBORHOOD ORGANIZER: “The experience was extremely positive and gratifying. I hope that we can inspire residents in the areas where we focused our efforts to take pride in their surroundings and take the initiative to keep their streets, sidewalks and curbs free from litter and weeds by themselves.” - Sue Gilliatt, Old Southside Neighborhood

VOLUNTEER: “Love KIB, and am a long-time participant and proponent. KIB programs strengthen community and foster environmental awareness, providing the support that enables neighborhoods to pull together and accomplish positive goals!” - Anonymous

VOLUNTEER: “I greatly enjoyed working side-by-side with members of the neighborhood to help pick up trash and rehab overgrown sidewalks and alleyways. It was a well-organized and executed project that I was very grateful to participate in. Thanks KIB. – Aric Furfaro

VOLUNTEER: “Always a great time and great event- we volunteer every year in April. Thank you for all that you do! This year’s area was needed- keep picking areas that really need help!” - Anonymous

New Focus Neighborhood Selection Process

With the goal of creating a more cohesive, transparent and structured approach to the selection of the Great Indy Cleanup Focus Neighborhoods, KIB tasked itself to rethink this process. The KIB team brainstormed ideas on how to best approach this task in order to maintain the grassroots driven program and ensure neighborhoods selected was where a great impact would be possible and community driven. From this process the Great Indy Cleanup Values were created to help streamline the main goals and focus for the program and ensure consistency when thinking considering a focus neighborhood. These five values included:

1. Neighborhood Unification and Expansion: A successful project brings neighbors together, can build new partnerships, and serves the community. Through the Great Indy Cleanup, your neighborhood should mobilize residents to engage in be part of an ongoing effort long after this work is completed.
2. Community Focused and Achievable Projects: Projects will be focused on the community and empower the continuation of engagement. Achievable projects identified by the community to be accomplished through the Great Indy Cleanup should be impactful to and maintainable by residents and other leaders who are part of and connected to the neighborhood.
3. Involvement with KIB: KIB offers an assortment of programs to help beautify the neighborhoods and communities within Marion County. Past, present and future involvement with KIB is an impactful way to make a difference right at home.
4. Impact of broader city and/or community goals: A successful project will include examples of how it will impact goals within these plans or efforts (including but not limited to Quality of Life Plan, Great Places 2020 Plan, Reconnecting to our Waterways goals and IMPD Beat Zones).
5. Litter Concentrated: Keep Indianapolis Beautiful was originally founded to fight litter. While the goals and projects of the Great Indy Cleanup is expanded from its original concept, a primary goal continues to be about combatting heavy litter in our streets, alleys, greenspaces and waterways.

From these values, a Great Indy Cleanup Focus Neighborhood application was completed. Transitioning to an application process helped confirm that the program maintained its grassroots focus and that all neighborhoods would have the opportunity to be considered, without bias.

In late June 2016, the application was released via the KIB website. Past and current Great Indy Cleanup organizers were informed of this new opportunity. KIB also enlisted the assistance of the Mayor's Neighborhood Advocates to assist in spreading the word. At the close of the application, KIB was proud to have 8 completed applications from neighborhoods all across Marion County. Applications were reviewed by KIB staff and narrowed down to the top 4 applications. These top four applicants were then interviewed by the Great Indy Cleanup Community Coordinator and a KIB Community Engagement personal. After the interview, the top applications were presented to a selection committee that consisted of KIB staff and key Great Indy Cleanup partners.

The last and final piece of the new selection process for the 2017 GIC Focus Neighborhoods took place on Friday, Nov. 4th. KIB hosted a First Friday event called Litter2 (Litter squared). This event highlighted a series of artistic images of @LitterofHighlandPark, Dan Remington. Dan is a very engaged Adopt-A-Block captain that takes litter pickup to a new level of art. This evening was mainly devoted to the selecting of the 2017 Great Indy Cleanup Focus Neighborhood. The neighborhoods of Binford Redevelopment and Growth (BRAG), Kennedy King and Millersville pitched their communities to those in attendance a five minute and five slide presentation in hopes of being selected as the 2017 Great Indy Cleanup Focus Neighborhoods for the months of April or October. At the end of the evening, selections were announced with the help of those in attendance and a panel of judges.

The 2017 Great Indy Cleanup Focus Neighborhood recipients were:

- April Focus Neighborhood – BRAG
- October Focus Neighborhood – Kennedy King
- Neighborhood Advancement Award – Millersville
 - o This award is designed to help with community improvement and engagement. It is designed to assist the community to complete projects and tasks that will further neighborhood goals and improve its quality of life.



BRAG Committee

Kennedy King Committee

Millersville Committee



MEDIA ADVISORY

Northwest Neighborhoods Will Combat Illegal Dumping in Area Alleys

Keep Indianapolis Beautiful, City of Indianapolis to host over 250 volunteers at annual October Great Indy Cleanup this Saturday

INDIANAPOLIS – (October 6, 2016) Keep Indianapolis Beautiful, Inc. (KIB) will send more than 250 volunteers into neighborhoods near Riverside Park to take on large scale illegal dumping as part of the fall Great Indy Cleanup (GIC) on Saturday, October 8. Volunteers will join neighbors to focus on street and alleyway cleanups in the area bound by East Riverside Dr., 38th Street, Dr. Martin Luther King Jr. Street, and W. 16th Street. Thirteen KIB-led projects will include painting, the removal of dilapidated fencing along Riverside, and multiple street and alley cleanups.

Mayor Hogsett will join city leaders, KIB, and Eric Halvorson, Public Affairs Manager of the The Kroger Co., to kick off this wrap-up celebration at the Watkins Park Community Center that morning.

WHEN: Saturday, October 8, 2016, 8:00 A.M. - 12:00 P.M.

WHERE: Watkins Park | 2360 Dr. MLK Jr. St, Indianapolis, IN 46208

VISUALS: More than 250 volunteers will gather for breakfast and project registration at **8:00 A.M.** Welcoming remarks and program starts at **9:00 A.M.** KIB President, David Forsell, and Indianapolis Mayor Joe Hogsett address volunteers at **9:05 A.M.** The Kroger Co. and KIB Check Presentation at **9:10 A.M.** Then volunteers will collect tools and supplies and branch out into the community to begin projects at **9:20 A.M.** Projects will vary from location to location, but on the ground the work will take place over 22 blocks throughout the Northwest Area and last until roughly **12:00 P.M.**

A citywide effort to beautify and strengthen our communities, the Great Indy Cleanup is a partnership between KIB and the City of Indianapolis. From April through October, residents can apply for a community cleanup that KIB will support with cleaning supplies, dumpsters and other resources. In April 2016, nearly 7,000 volunteers participated in over 170 community cleanups to collect 538 tons of litter. Since the April focus, an additional 3,000 volunteers have participated in KIB supported cleanups.

The Great Indy Cleanup is made possible by generous donations from City of Indianapolis, The Kroger Co., Covanta, Republic Services, Hoosier Lottery, Clif Bar Baking Company, Community Hospital, First Financial Bank, South Side Landfill, Nestle Water, and Keep American Beautiful. For more information on KIB's efforts to beautify the city, or to learn how you can help, please visit us at www.greatindycleanup.com.

About Keep Indianapolis Beautiful, Inc. (KIB)

Keep Indianapolis Beautiful, Inc. is a private, nonprofit organization with a mission to engage diverse communities to create vibrant public places, helping people and nature thrive. In 2015, KIB worked with more than 24,000 volunteers on over 650 community projects. To learn more, visit www.kibi.org, or follow us on Twitter @kibiorg and like us on Facebook @kibiorg.

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FOR IMMEDIATE RELEASE

Media Contact:

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ahaynes@kibi.org

IPL Project GreenSpace Recipients Selected for Transformation in 2018 by Keep Indianapolis Beautiful

Neighborhood diversity, cohesion and need underscore upcoming greenspace

INDIANAPOLIS — (September 12, 2017) Keep Indianapolis Beautiful, Inc. (KIB) announces five new community greenspace projects awarded as part of KIB's IPL Project GreenSpace program for 2018. KIB reviewed over 20 applications from active community groups wanting to transform vacant areas into useful places for their neighborhood and our city. Five applications were selected for 2018 GreenSpace projects.

In partnership with Indianapolis Power & Light Company (IPL) and the City of Indianapolis, KIB has helped neighborhoods, schools, churches, and other community-based organizations create pocket parks and other greenspaces since 1995. These spaces focus on connecting people to nature and creating a sense of place rooted in local identity.

The following organizations and spaces have been selected as 2018 project partners:

- **Shelton Heights Greenspace** (Project location: 3836 Rockville Ave., 46241) — A year ago, the Shelton Heights neighborhood joined Indy Gateway, a community development organization, to demolish an abandoned trailer park. In its place, residents, community volunteers, and KIB will create a pocket park and gathering space. Residents report that applying for the project has already made the community stronger, as an increase in neighbors' communication has led to a decrease in crime.
- **Flanner House Community Orchard** (Project location: 2424 Dr. Martin Luther King Jr. St., 46208) — The Flanner House Community Orchard, a component of the Flanner House Farm, will transform a vacant lot in the 25th and MLK Great Places 2020 neighborhood into a vibrant place that supports food access in one of Indy's largest food deserts. Children and adults will be able to pick fruit, care for fruit trees, learn about nutrition, and participate in activities in the space such as yoga and community parties. Additional partner organizations include Groundwork Indy and the Center of Wellness for Urban Women.
- **Prospect Falls GreenSpace** (Project Location: 2599 Prospect St., 46203) — The Prospect Falls greenspace project is located in the Twin Aire Great Places 2020 focus area and WECAN (West

and East of Churchman Avenue Neighbors) neighborhoods, along Pleasant Run Creek and just east of Fountain Square. The community space, on the former site of a coke plant, will become a gateway for the Community Justice Center development and an artistic and natural habitat for monarch butterflies.

- **Fall Creek Community Orchard** (Project location: 200 E. Fall Creek Pkwy South, 46205) — The Fall Creek Place Homeowners Association looks to transform the Fall Creek Trail between North Delaware Street and Central Avenue to further highlight the waterway and provide a gathering space. This project will remove invasive species and restore an area with fruit trees to create a place for education on biodiversity, agriculture, and wildlife habitats.
- **Urban Temple GreenSpace in Cottage Home** (Project Location: 507 Dorman St., 46202) — Cottage Home’s wood and wire Urban Temple sculpture has been a landmark on Michigan Avenue for 25 years. In partnership with the Cottage Home Neighborhood Association, this project will reimagine this neighborhood gateway along the Pogue’s Run Greenway trail to connect the neighbors and preserve the community’s heritage.

The new class of project partners will attend a kick-off orientation at KIB on Tuesday, September 26.

KIB would like to thank the City and community development and design professionals and KIB donors who assisted in project selection for 2018. The IPL Project GreenSpace program is made possible by the support of our title sponsor, Indianapolis Power & Light Company, as well as other generous supporters, including the City of Indianapolis. For more information on KIB’s IPL Project GreenSpace, please visit www.kibi.org/project_greenspace.

About Keep Indianapolis Beautiful, Inc. (KIB)

Keep Indianapolis Beautiful, Inc. is a private, nonprofit organization with a mission to engage diverse communities to create vibrant public places, helping people and nature thrive. Annually, KIB works with nearly 20,000 volunteers on nearly 900 community projects. To learn more, visit www.kibi.org, or follow us on Twitter, Instagram, and Facebook at @kibiorg.

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Keep Indianapolis Beautiful Report to the City of Indianapolis

Date: December 19, 2017

To: Dan Parker, Tim Joyce, Melody Park, Linda Broadfoot, Bob Frye, Mike Massonne, Bill Kincius, Shawn Brock, Kathy Allen, Rachel Wilson, Betsy Whitmore, Dominic Cornett, Ronnetta Spalding, Katie Robinson, Warren Stokes, Ben Easley, Mark Taylor

From: Mark Adler, Vice President of Special Initiatives, Keep Indianapolis Beautiful

Re: KIB Monthly Report - December, 2017

Vibrant Neighborhoods:

Great Indianapolis Cleanup (GIC):

Contract Goal – 250 cleanups

Cleanups to date: 331*

Volunteers to Date: 340 groups representing 10,184 volunteers*

Trash picked up to Date: 912.59 tons (1,825,180) pounds*

*** No change since last month as the program ended for the year at the end of October**

- The 2018 focus areas were selected and include:
 - South Indy Quality of Life Plan neighborhoods (Garfield Park, University Heights, Carson Heights, Bean Creek, NW Perry, South Village, Meridian-Raymond, Rosedale Hills) for the April GIC Focus neighborhood
 - Saints in the Streets/River West (Haughville, Hawthorne, WE Care) neighborhoods for the October GIC Focus neighborhood.
- A recap meeting was held with the Kennedy-King neighborhood regarding their October cleanup and will be working with them this spring to kick-off a neighborhood led KIB project to continue the work.
- The application for April's cleanups will go live second week in January and will be based on MNA districts.

Neighborhood Beautification:

PL Greenspaces: 3

PL Greenspaces in 3 year Maintenance agreements: 14

- Final project details were completed for the 3 Greenspaces for this year at the Athenaeum, Community Caring and Sharing and Progress House.
- Stewardship work was completed at the Speedway Trailhead to replant trees that had died. The final Stewardship project/workday of the year was completed at Springdale (Chinquapin Oak Park) and included installing 256 new native plants (4 species) to the park.
- Completed the interview/hiring process for our new Stewardship Coordinator. This person will be starting the second week of January.
- The Urban Naturalists worked in tandem with many external partners on the Urban Wildlife Trail Monarch Sanctuary planting that included 2700 perennials along the White River near IUPUI. The program wrapped up in mid-November for the year.

Great Places:

- Planning activities continued with the two new Great Places for 2018 activities.

Adopt-a-Block:

Contract goal: 500 blocks adopted

Blocks adopted to date: 1,094 (including 18 schools and 3 businesses)

- Some key meeting included Riverside Crime Watch, Mayors Neighborhood Advocates, Public Allies Training and various Greenspace locations.

Youth Involvement:

KIB GreenKids:

Current KIB Clubs: 5

Total elementary students reached to date with KIB Club event programs: 987

Elementary students enrolled in the KIB Clubs: 146

- Led volunteer work day with corporate group Next Gear Capital at Eleanor Skillen Elementary and Salesforce at Spring Mill Elementary.
- Planted two Indiana native trees with students at Rousseau McClellan School 91.
- Custom outdoor table was installed as part of outdoor classroom at Spring Mill Elementary.
- Began interviewing schools for 2018 GreenKids.

Community Forestry/Youth Tree Team:

Trees planted: 303 trees

Trees watered: 0

Trees pruned: 223 trees

Trees staked: 47 trees

Trees unstaked: 0 trees

Trunk guards installed: 278 trees

Trees mulched: 302 trees

- November had some great tree plantings including 20 trees at Chapelwood Elementary School, 24 trees along Fall Creek between Meridian and Central and 11 larger trees planted on Westfield between Winthrop and Guilford in Broad Ripple that replaced some invasive trees that were planted there.
- The Community Forestry team also traveled to Tulsa to participate in the annual Partners in Community Forestry Conference to both gain knowledge and share the great work we are doing here.

Media Relations:

Number of webpage hits relating to the City of Indianapolis this month: 17,547

Number of mailings that mention the City of Indianapolis this month: 4 to 17,230 subscribers

Number of press releases that mention the City of Indianapolis this month = 2

- Monarch Sanctuary Planting at White River State Park
 - KIB partnered with White River State Park, Indiana Wildlife Federation, Reconnecting to our Waterways, the daVinci Pursuit, Indiana Wilderness Trail, Indy Parks, and the Indiana DNR to create a monarch butterfly sanctuary along the White River. Volunteers planted milkweed and other pollinator friendly plants, enjoyed Dia de los Muertos celebrations with SENSE Charter School & Nopal Cultural, and learned about native plants from Indy Parks/DNR/Butler University scientists. Katie Robinson and Linda Broadfoot spoke to volunteers, along with David Forsell of KIB.
- It's My City School PSA Competition
 - PSA submissions were reviewed by the It's My City team and Perry Meridian's Environmental Club was selected as the competition's winner. Mary Castle Elementary School was voted second place during the public voting period on FOX59's site. The Perry Meridian students will appear live on FOX59 with Mayor Hogsett to receive \$1,000 and tickets to see both the Colts & the Pacers. Their PSA will run before the games and air on FOX59. all Project Season Kick Off

Number of groups: 16
Number of corporate groups: 4
Volunteers in parks: 0

Number of projects: 51
Total hours: 4,643.50

Volunteers:

Number of group volunteers: 133
Number of corporate volunteers: 60

Total volunteer experiences: 1,567
Total value: \$112,094.09

Looking Ahead:

- We look forward to an exciting 2018 with more great opportunities and projects as well as celebrating all of the great successes of 2017. Happy Holidays!



ABOUT KIB

BY THE NUMBERS | KIB'S ANNUAL IMPACT IN 2016



8,429,945
PUBLIC MEDIA IMPRESSIONS

366

NEIGHBORHOOD
CLEANUPS



892
COMMUNITY
PROJECTS COMPLETED



\$1.9 MILLION
PHILANTHROPIC SUPPORT

\$2.5 MILLION
IN-KIND & VOLUNTEER SUPPORT

\$1.4 MILLION
EARNED INCOME

TOTAL \$5.8 MILLION
TO HELP PEOPLE & NATURE THRIVE



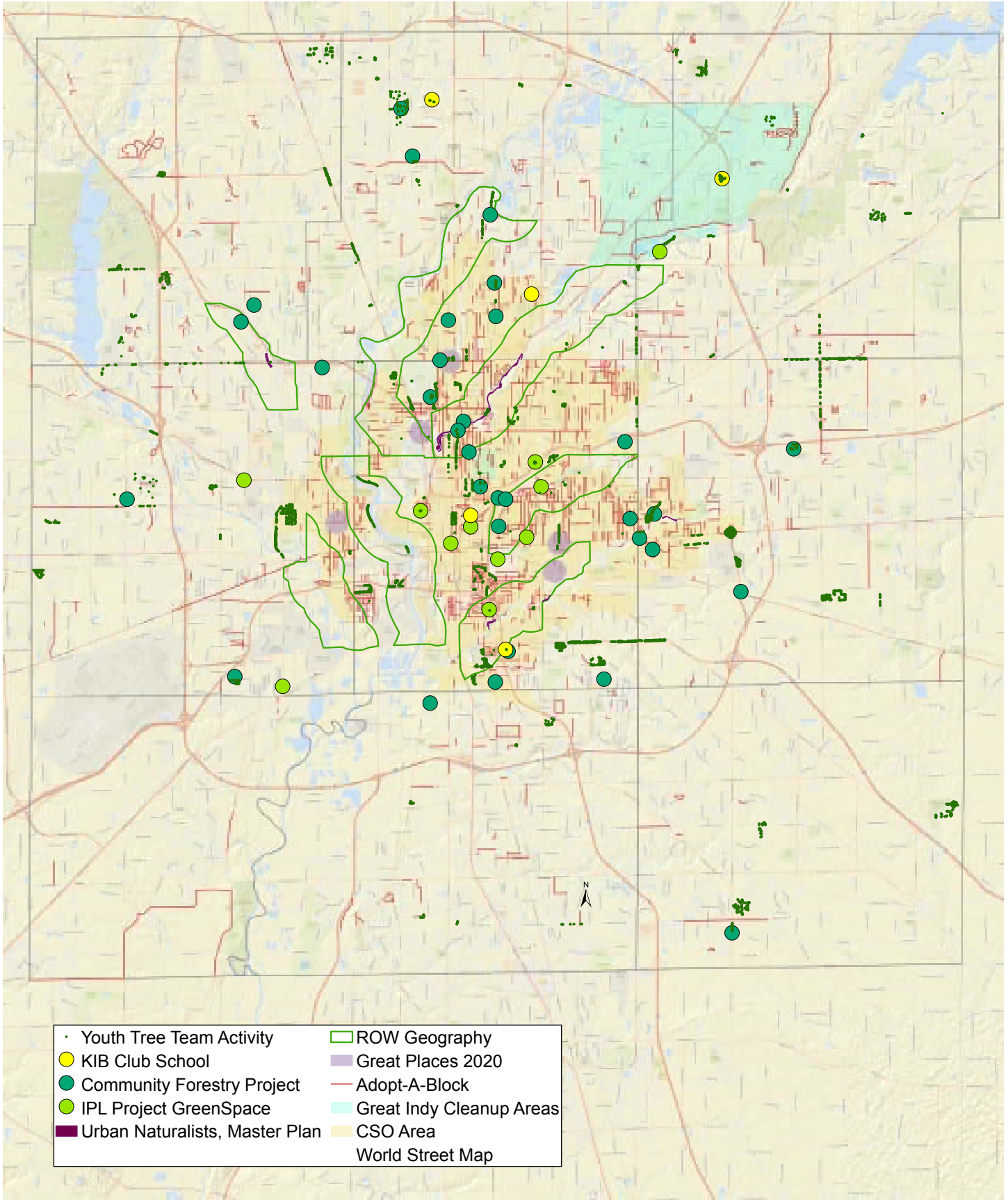
5
SCHOOLS
IMPACTED



18,988
VOLUNTEERS ENGAGED

KEEP INDIANAPOLIS BEAUTIFUL. ENGAGES DIVERSE COMMUNITIES TO CREATE VIBRANT PUBLIC PLACES, HELPING PEOPLE AND NATURE THRIVE.

Keep Indianapolis Beautiful Capital Map 2017 Program Activities





MAYOR'S ACTION CENTER

QUARTERLY NEWSLETTER

FIRST QUARTER 2017

MAYOR'S ACTION CENTER: OVERVIEW



The Mayor's Action Center (MAC) serves as a customer service center for the city of Indianapolis. We are available to assist constituents by providing information regarding city services and departments, as well as placing requests and providing updates for existing service requests. Additionally, our staff includes two bilingual employees that can provide assistance to Spanish speaking residents.

WALK-IN SERVICE (200 E Washington St. Suite 2160)
Monday - Friday, 8:00 a.m. – 5:00 p.m.

PHONE SERVICE (317.327.4MAC):
Monday - Friday 7:30 a.m. – 5:30 p.m.

REQUESTINDY: Available free for Android/iOS
Online Platform: www.indy.gov/RequestIndy

QUESTIONS FOR THE MAC AFTER-HOURS OR ON WEEKENDS?

- While the MAC office is closed on nights, weekends and holidays, we have a few tools available to assist you.
- Calling the MAC after hours (5:30pm—7:30am) or on weekends, the after hours message will provide information about reporting the following concerns:
 - Emergency and/or public safety concerns
 - Animal related concerns
 - DPW concerns, including traffic signals/signs, manhole covers, cave-ins, urgent park maintenance requests
 - BNS concerns, including unpermitted or overnight construction, temporary vendors/transient merchants
 - Information about reporting emergency water or drainage issues and sewer backups (CEG)
 - Information about reporting emergency power issues, outages, downed power lines (IPL)
- RequestIndy is free mobile application and online platform that allows residents to request services and report issues 24 hours a day, 7 days a week, 365 days a year. Many of the common city services are available, including potholes, missed trash, forestry issues, park maintenance, zoning violations, traffic signals and animal issues. The service requests entered are automatically sent to the respective department, regardless of day or time.
 - RequestIndy Statistics:
 - 3,112 application (iOS/Android) downloads in 2016
 - 19,425 downloads since application launch in 2011
 - 47,760 requests submitted through RequestIndy in 2016.
 - Top 5 Requests Submitted in 2016: weeds, chuckholes, abandoned vehicles, zoning violations, and animal related issues.



MAYOR'S ACTION CENTER

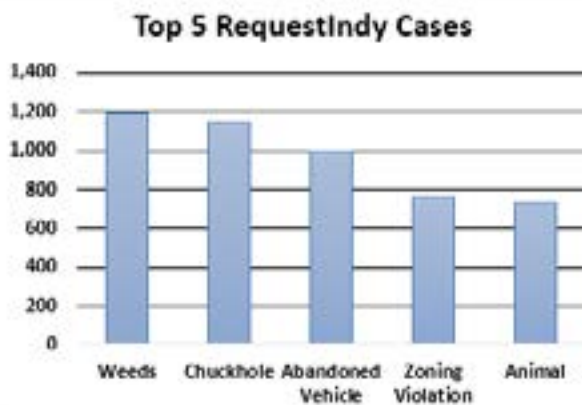
FIRST QUARTER 2017

Q4 (OCT - DEC) MAC SNAPSHOT:

TOTAL CALLS HANDLED: 34,908

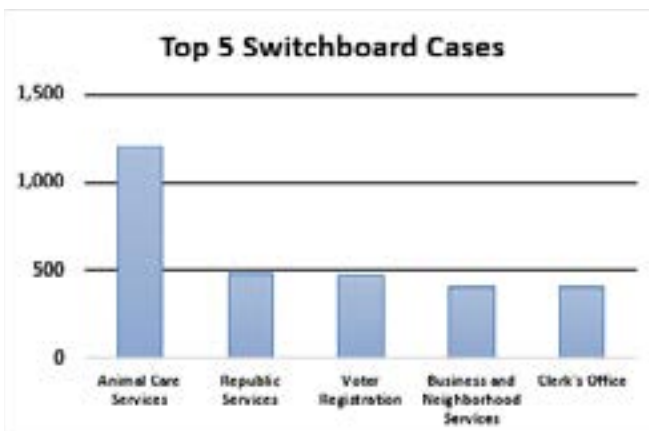
HIGHEST DAILY CALL VOLUME: 840

REQUESTINDY STATS: 7,453 TOTAL CASES



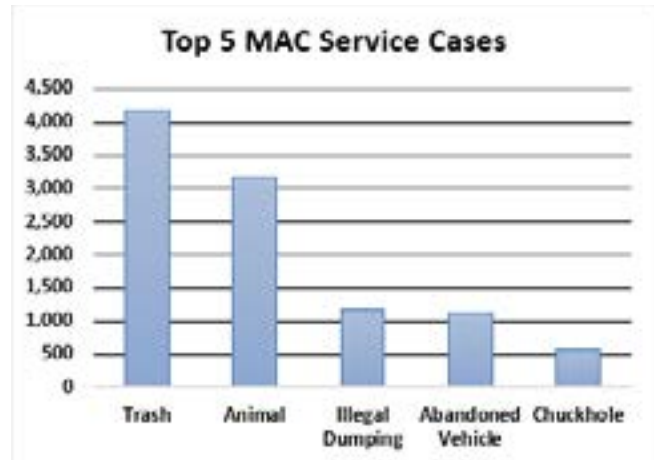
RequestIndy allows residents to request many of the common services at their own convenience. The graph above indicates the top 5 service cases requested by residents in the fourth quarter on RequestIndy.

SWITCHBOARD CASES: 11,669 TOTAL CASES



The MAC answers the City/County Switchboard line and the graph above shows the top 5 switchboard requests by callers in the fourth quarter. Other examples include the Clerk's office, courts, Treasurer and non emergency police.

MAC SERVICE CASE STATS: 13,038 TOTAL CASES



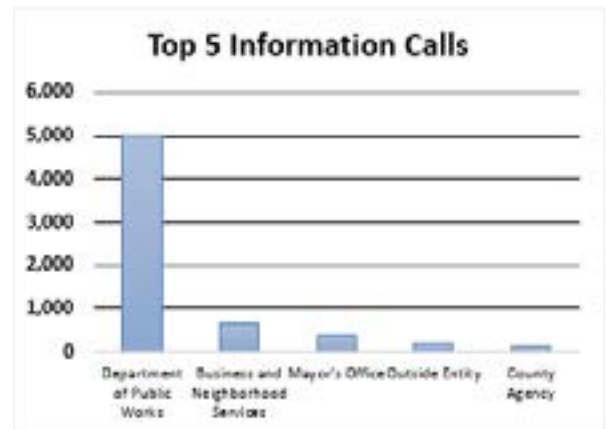
The MAC can enter a request for any offered city service that will be directly sent to the appropriate department. The graph above indicates the top 5 service cases requested by residents in the fourth quarter opened by the MAC.

INFORMATION CASE OVERVIEW

TOTAL INFORMATION CASES: 6,115

COMPLIMENTS: 56

COMPLAINTS: 453



The MAC receives many general information calls, the most common questions relate to trash pickup. The graph shows the top 5 information case types in the fourth quarter, categorized by city department.

MAYOR'S ACTION CENTER FIRST QUARTER 2017

MAC 2016 OVERVIEW:

JANUARY 1 - DECEMBER 31

2016 STATISTIC SNAPSHOT:

TOTAL CALLS HANDLED: 172,698 CALLS
HIGHEST DAILY CALL VOLUME: 1,055 CALLS
SPEED TO ANSWER: 17 SECONDS
PERCENT OF CALLS ANSWERED: 97.66%

TOTAL SERVICE CASES: 119,879 CASES

TOTAL MAC SERVICE: 72,119 CASES
 TOTAL REQUESTINDY ONLINE: 29,317 CASES
 TOTAL REQUESTINDY MOBILE: 18,443 CASES

TOTAL INFORMATION CASES: 33,021 CASES

TOTAL COMPLAINTS: 2,498 CASES
 TOTAL COMPLIMENTS: 323 CASES

TOTAL SWITCHBOARD CASES: 56,617 CASES

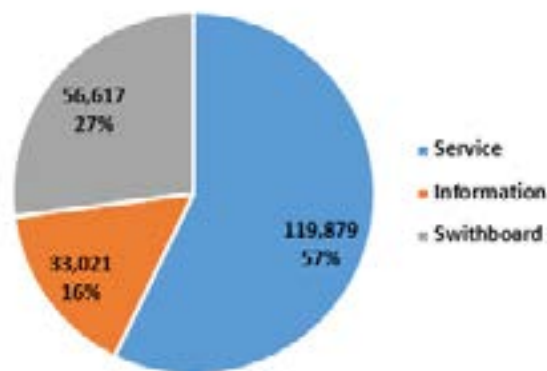
MAC CALL TRENDS:

The MAC's busiest season is the summer months, where call volumes can exceed 1,000 calls per day. As noted in the graph below, call volumes in June—August rose approximately 5,000—7,000 calls in relation to the winter months. In 2016, we answered nearly 98% of all calls we received and averaged a 17 second speed to answer.

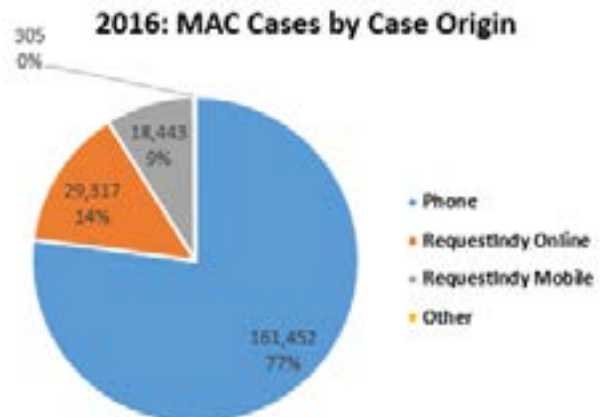


2016: CASE OVERVIEW BY CASE TYPES

2016: All Case Overview by Case Type



2016: MAC CASES BY CASE ORIGIN



MAYOR'S ACTION CENTER

FIRST QUARTER 2017

MAC 2016 OVERVIEW:

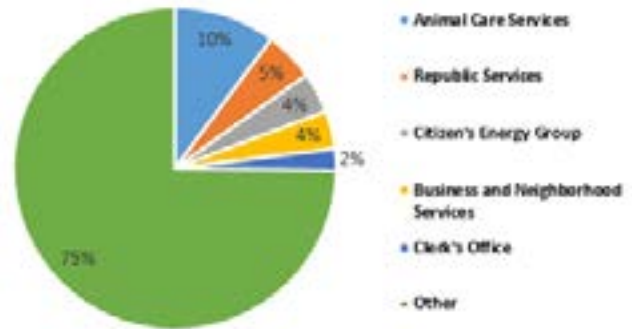
JANUARY 1 - DECEMBER 31

2016 TOP TEN SERVICE REQUESTS

1. Trash:	20,906
2. Weeds:	17,866
3. Animals:	17,689
4. Chuckholes:	16,108
5. Abandoned Vehicles:	9,623
6. Illegal Dumping:	8,914
7. Zoning Violation:	6,609
8. Forestry:	4,595
9. Unsafe Buildings:	3,210
10. Signs/Traffic Signs:	2,816

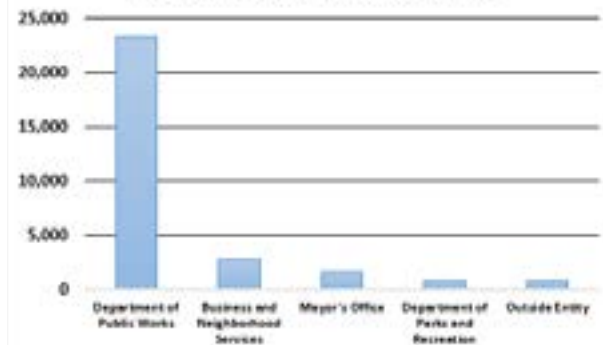
2016 SWITCHBOARD CASES OVERVIEW

2016: Switchboard Case Overview



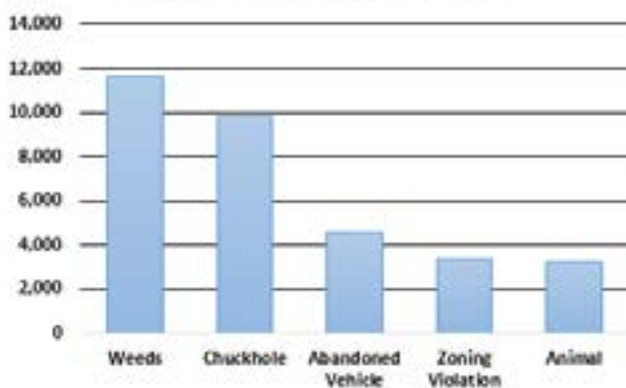
2016 TOP 5 INFORMATION CASES

2016: Top 5 Information Cases



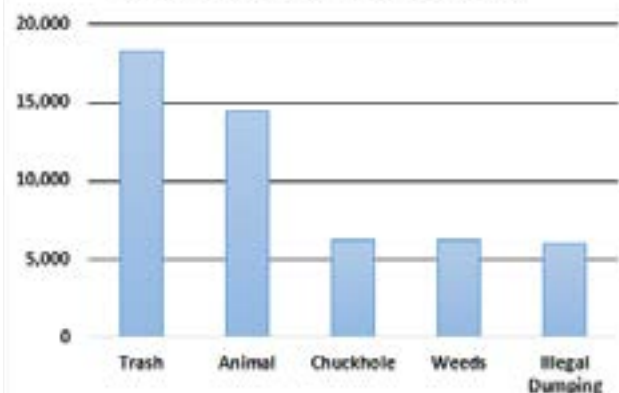
REQUESTINDY TOP 5 CASES

2016: Top 5 RequestIndy Cases



MAC TOP 5 SERVICE CASES

2016: Top 5 MAC Service Cases



PROJECT INDY OVERVIEW: YOUTH SUMMER JOB INITIATIVE

- Online portal connecting teens to employers: ProjectIndy.net
 - Allows teens to locate available Project Indy jobs (map view available)
- Several organizations (government, private, non-profit) have partnered together to provide thousands of jobs for youth.
- IndyParks offers more than 400 summer jobs, ranging from cashiers, camp counselors, lifeguards, pool managers to swim lesson instructors. Visit [here](#) for available positions.

RESIDENTIAL TRASH SERVICES

[Route Information/Schedule Here](#)

- Report any missed trash issues the day following your trash day
- The next holiday observed by DPW will be Memorial Day
- Residents may purchase 1 additional trash container for \$65. Please call the MAC at 317.327.4622 for more information
- Heavy Trash: each household can set out up to 2 items per month

[See Heavy Trash Information Here](#)

ATTENDING COMMUNITY & NEIGHBORHOOD MEETINGS

Interested in learning more about the MAC or sharing this information with your neighbors? Please contact us and we'll be happy to attend an upcoming meeting in your community.

POTHOLE REPAIR 101

See a pothole? Call the MAC or submit it through RequestIndy!

Current turnaround time: approx. 3 days

Hot asphalt mix available as of March 1st

Why are potholes a problem year after year?

- Potholes are a problem in all Midwestern cities, including Indy.
- The freeze thaw cycles, which usually occur in late winter, can cause extreme stresses that damage pavement.
- Snow and ice melts during the day and settles into cracks and holes in the pavement, then refreezes during cold nighttime temperatures.
- The ice exerts tremendous force that is great enough to fracture concrete and asphalt, causing potholes.
- Most potholes form in late winter and early spring when rain or snowmelt freezes overnight however, DPW crews repair potholes year around.



MAYOR'S ACTION CENTER

QUARTERLY NEWSLETTER
SECOND EDITION 2017

MAYOR'S ACTION CENTER: OVERVIEW

The Mayor's Action Center (MAC) serves as a customer service center for the city of Indianapolis. We are available to assist constituents by providing information regarding city services and departments, as well as placing requests and providing updates for existing service requests. Additionally, our staff includes two bilingual employees that can provide assistance to Spanish speaking residents.

WHAT HAPPENS TO MAC SERVICE CASES?

- All service cases are automatically sent to the responsible department upon entry. This occurs whether they are called into the MAC or entered through RequestIndy.
- The responsible department receives the request in less than 20 minutes, on average.
- Each department is responsible for their own cases upon transfer. The MAC does not close service cases.
- The MAC is able to see the case updates that are entered by the departments in nearly real time.
- A closed case status can mean multiple things.
 - The service has been rendered.
 - The case could be a duplicate. In this situation, the updates will be published to the original case.
 - Certain cases are closed once an investigation is completed, even if a violation is still in process.
 - Some cases are reported to the city and are determined to not be city responsibility upon inspection. These are referred to the responsible entity whenever possible.



WALK-IN SERVICE (200 E Washington St. Suite 2160)
Monday - Friday, 8:00 a.m. – 5:00 p.m.

PHONE SERVICE (317.327.4MAC):
Monday - Friday 7:30 a.m. – 5:30 p.m.

REQUESTINDY: Available free for Android/iOS
Online Platform: www.indy.gov/RequestIndy

GOVERNMENT PROFILE

- The Government Profile is a public portal that anyone can access, providing key information about government services based on your address:
 - Trash/Recycling collection
 - Elected officials
 - Voting location
 - Neighborhood Advocate
 - School District
 - IMPD District

Visit the Government Profile

<http://maps.indy.gov/GovProfile/>

ATTENDING NEIGHBORHOOD & COMMUNITY MEETINGS

Interested in learning more about the MAC or sharing this information with your neighbors? Please contact us and we'll be happy to attend an upcoming meeting in your community.

1

MAYOR'S ACTION CENTER SECOND EDITION 2017

MAC 2017 OVERVIEW: JANUARY 1 - JUNE 30

STATISTIC SNAPSHOT:

TOTAL CALLS HANDLED: 82,342 CALLS
HIGHEST DAILY CALL VOLUME: 982 CALLS
SPEED TO ANSWER: 16 SECONDS
PERCENT OF CALLS ANSWERED: 98%

TOTAL SERVICE CASES: 63,257 CASES
 TOTAL MAC SERVICE: 36,540 CASES
 TOTAL REQUESTINDY ONLINE: 15,604 CASES
 TOTAL REQUESTINDY MOBILE: 11,113 CASES

TOTAL INFORMATION CASES: 13,266 CASES
 TOTAL INFORMATION: 11,963 CASES
 TOTAL COMPLAINTS: 1,145 CASES
 TOTAL COMPLIMENTS: 158 CASES

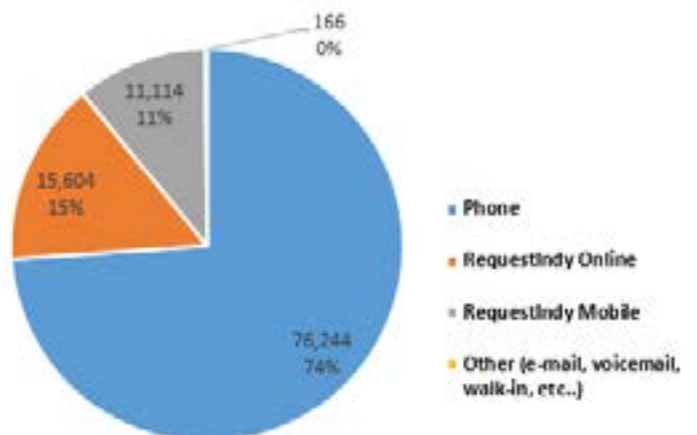
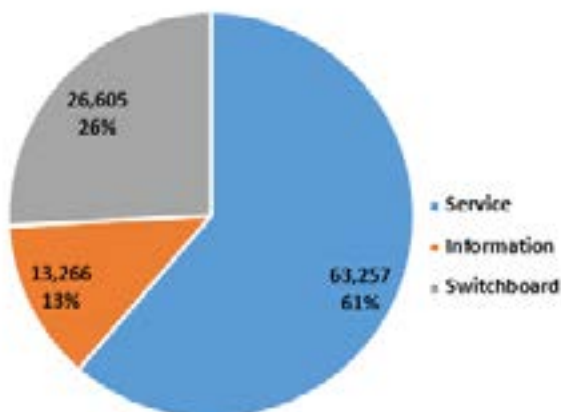
TOTAL SWITCHBOARD CASES: 26,605 CASES

MAC CALL TRENDS:

The MAC's busiest season is the summer months, where call volumes can rise to above 1,000 calls per day. As noted in the graph below, call volumes have risen as the summer months arrived. In the first two quarters of 2017, we answered nearly 98% of all calls we received and averaged a 16 second speed to answer.



2017: CASE OVERVIEW BY CASE TYPES 2017: MAC CASES BY CASE ORIGIN



MAYOR'S ACTION CENTER

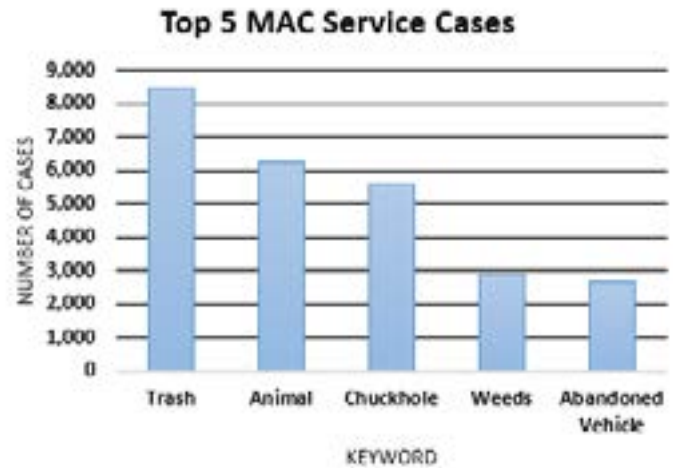
SECOND EDITION 2017

REQUESTINDY STATS: 26,717 TOTAL CASES



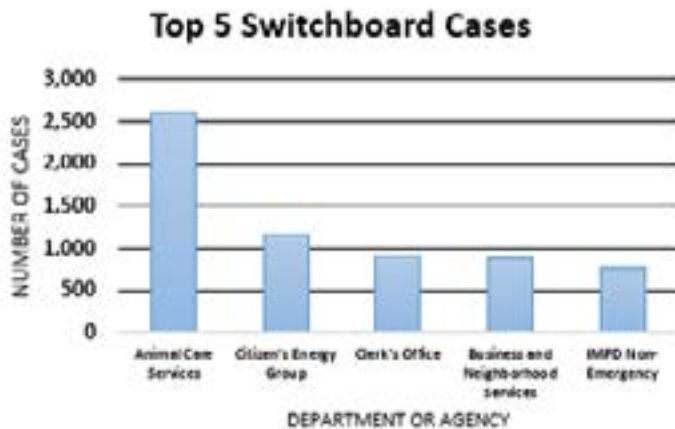
RequestIndy allows residents to request many of the common services at their own convenience. The graph above indicates the top 5 service cases requested by residents in the first and second quarters on RequestIndy.

MAC SERVICE CASE STATS: 36,540 TOTAL CASES



The MAC can enter a request for any offered city service that will be directly sent to the appropriate department. The graph above indicates the top 5 service cases requested by residents in the first and second quarters opened by the MAC.

SWITCHBOARD CASES: 26,605 TOTAL CASES



The MAC answers the City/County Switchboard line and the graph above shows the top 5 switchboard requests by callers in the first and second quarters. Other examples include the Clerk's office, courts, Treasurer and non emergency police.

INFORMATION CASE OVERVIEW



The MAC receives many general information calls, the most common questions relate to trash pickup. The graph shows the top 5 information case types in the first and second quarters, categorized by city department.



“IT’S MY CITY” INITIATIVE: “HELP MAKE INDIANAPOLIS CLEAN, GREEN AND MORE BEAUTIFUL”

- The “It’s My City” initiative is a three year effort that is designed to engage local residents in improvements to the Indianapolis community. Several groups in Indianapolis have partnered together to engage residents on various levels, from individuals to businesses to schools.
 - Adopt-A-Block, organize neighborhood cleanups, community tree plantings with Keep Indianapolis Beautiful
 - Report neighborhood nuisances to the Mayor’s Action Center, including illegal dumping, abandoned vehicles or buildings to high weeds and grass.
 - Volunteer at a local park or organize a service project ([visit Indy Do Day](#))

FOR MORE RESOURCES, VISIT ITSMYCITYINDY.ORG

DEPARTMENT OF BUSINESS AND NEIGHBORHOOD SERVICES

REPORTING ABANDONED VEHICLES

- **Public Right Of Way:** Vehicles in the street or alley longer than 3 days can be reported as abandoned to the MAC. The vehicle will be tagged within 24 hours, and will be rechecked 72 hours later to determine if the violation has been corrected.
- **Private Property:** Vehicles abandoned on private property can be reported to the MAC. An inspector will visit the location within 3—5 business days to determine if a violation is present.

REPORTING HIGH WEEDS & GRASS

- If grass or weeds are over 12” on private property, these locations can be reported to the MAC. Business and Neighborhood Services (BNS) will inspect the property within 3 business days. If the property is in violation, the property owner will have 5 business days to abate. If it is not mowed within that time, BNS will assign the property to be mowed by a contractor. If it is mowed by BNS, the property will go on a mowing cycle every 30 days.

DEPARTMENT OF PUBLIC WORKS: RESIDENTIAL TRASH PICKUP

96 GALLON CONTAINER REGULATIONS

The Department of Public Works (DPW) oversees all residential trash pickup in Marion County. Depending on the area of Marion County, a resident may be serviced by DPW, Republic Services or Waste Management. Residential trash regulations are the same for every household in Marion County, regardless of hauler. Each household in Marion County is provided with one 96 gallon container, with the option to purchase an additional container for \$65.00. Residents may set out up to 2 acceptable items for heavy trash each month, on their regularly scheduled service day.

[Click here to find your regular and heavy trash schedule](#)

TRASH PICKUP RULES & REGULATIONS

- All trash must be bagged before placing in the carts. No loose trash is acceptable.
- The lid must close fully and all bags must be placed inside of the container.
- Trash containers must be placed outside by 7:00 AM to ensure pickup.
- Cart must be placed 5ft from any obstruction, next to the curb or alley, and cannot be blocked.
- The arrows on the cart must be facing forward in order for the container to be emptied.
- Bags of leaves or lawn waste must be bagged and placed inside of the cart. Larger yard waste bundles (no larger than 3 feet by 3 feet) may be placed out for heavy trash.



[Click here to learn more about DPW Trash Regulations](#)

ANIMAL CARE SERVICES: ANIMAL ADOPTION

2600 S HARDING ST, INDIANAPOLIS IN, 46221

HOW MANY DOGS AND CATS HAVE BEEN ADOPTED OUT SO FAR IN 2017?

1230 CATS + 1223 DOGS

Adoption Fee: \$60

- Includes appropriate vaccinations, microchip, spay/neuter, heartworm or feline leukemia test
- Adoptions require a completed application and proof of identification.

Animal Care Services (ACS) has several animals available for adoption, [visit their website here for more information.](#)

ADOPTION CENTER HOURS:

SUN: 10 A.M. - 6 P.M.

MON: 10 A.M. - 6 P.M.

TUES: 10 A.M. - 6 P.M.

WED: CLOSED

THURS: 10 A.M. - 7 P.M.

FRIDAY: 10 A.M. - 6 P.M.

SAT: 10 A.M. - 6 P.M.



MAYOR'S ACTION CENTER

QUARTERLY NEWSLETTER

THIRD EDITION 2017

MAYOR'S ACTION CENTER: OVERVIEW



The Mayor's Action Center (MAC) serves as a customer service center for the city of Indianapolis. We are available to assist constituents by providing information regarding city services and departments, as well as placing requests and providing updates for existing service requests. Additionally, our staff includes two bilingual employees that can provide assistance to Spanish speaking residents.

WALK-IN SERVICE (200 E Washington St. Suite 2160)
Monday - Friday, 8:00 a.m. – 5:00 p.m.

PHONE SERVICE (317.327.4MAC):
Monday - Friday 7:30 a.m. – 5:30 p.m.

REQUESTINDY: Available free for Android/iOS
Online Platform: www.indy.gov/RequestIndy

MAC 25TH YEAR ANNIVERSARY

This November, the Mayor's Action Center is celebrating 25 years after being founded by Mayor Goldsmith in 1992. There are several tools being launched in the coming months that will expand opportunities to connect with city services and improve the level of customer service provided by the city of Indianapolis.

- **RequestIndy Status Updates:** Cases related to the Department of Business and Neighborhood Services and Animal Care Services now have detailed status updates (more than just a notification of open or closed) available on RequestIndy online. Just enter your request number to determine the current status! Requests submitted to the Department of Public Works will soon be included as well. In 2018, the final phase of this project will conclude with all updates included in the RequestIndy mobile applications.
- **Quality Assurance Survey:** The MAC will also launch a survey tool in 2018 that will gather feedback on the services provided. Please continue to watch for these updates!

INTERACTIVE CONSTRUCTION AND PROJECT MAPS

CITIZEN'S ENERGY GROUP PROJECT MAP

- Project map shows active gas, water, sewer and STEP (septic tank elimination) projects

[Click here for CEG Project Map](#)

DPW ROAD CLOSURE ALERTS

- Updated information regarding Indianapolis road closures

[Click here for DPW Road Closures](#)

INDYGO RED LINE: CONSTRUCTION

- IndyGo will be updating this project map when construction on the Red Line begins

[Click here for IndyGo Red Line Website](#)

**MAC 2017 OVERVIEW:
THIRD QUARTER
JULY 1 - SEPTEMBER 30, 2017**

STATISTIC SNAPSHOT:

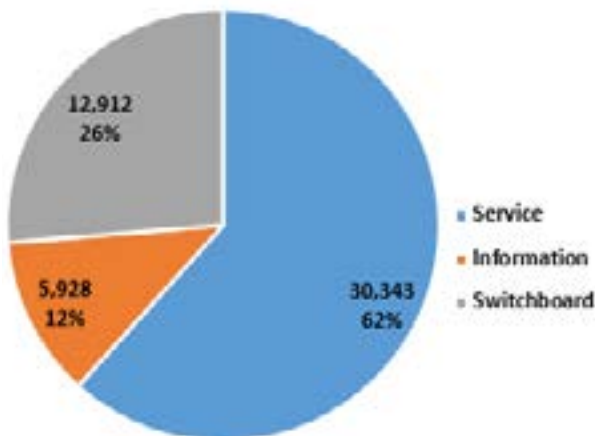
TOTAL CALLS HANDLED: 42,973 CALLS
HIGHEST DAILY CALL VOLUME: 1,207 CALLS
SPEED TO ANSWER: 20 SECONDS
PERCENT OF CALLS ANSWERED: 97%

TOTAL SERVICE CASES: 30,343 CASES
 TOTAL MAC SERVICE: 18,034 CASES
 TOTAL REQUESTINDY ONLINE: 7,087 CASES
 TOTAL REQUESTINDY MOBILE: 5,222 CASES

TOTAL INFORMATION CASES: 5,928 CASES
 TOTAL INFORMATION: 5,433 CASES
 TOTAL COMPLAINTS: 417 CASES
 TOTAL COMPLIMENTS: 78 CASES

TOTAL SWITCHBOARD CASES: 12,912 CASES

CASE OVERVIEW BY CASE TYPES

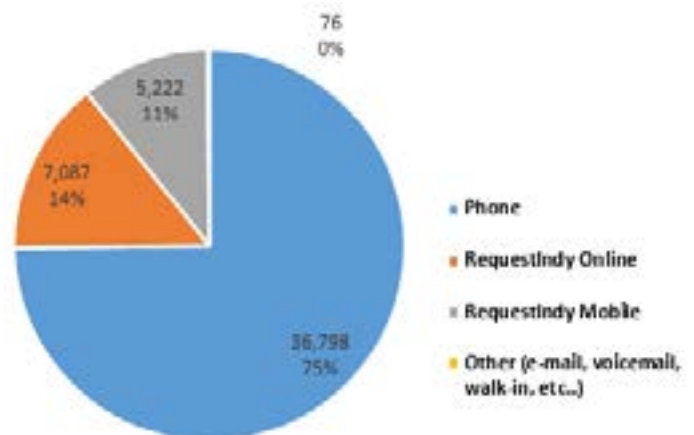


MAC CALL TRENDS:

The MAC's busiest season is the summer months, where call volumes can rise to above 1,000 calls per day. As noted in the graph below, call volumes rose as the summer months arrived. As the fall months arrive, call volume begins to decrease. In the third quarter of 2017, we answered 97% of all of the calls we received and averaged a 20 second speed to answer.



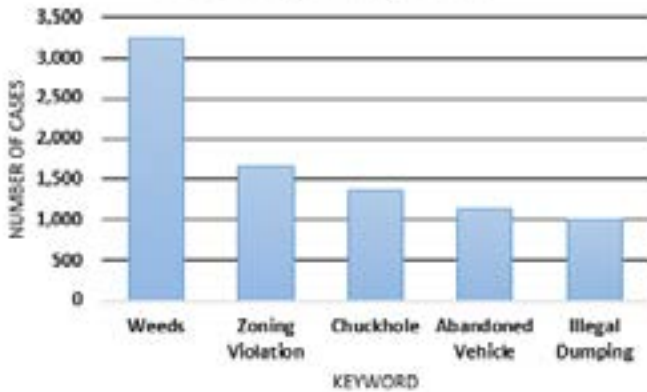
MAC CASES BY CASE ORIGIN



REQUESTINDY CASE STATS:

12,309 TOTAL CASES

Top 5 RequestIndy Cases

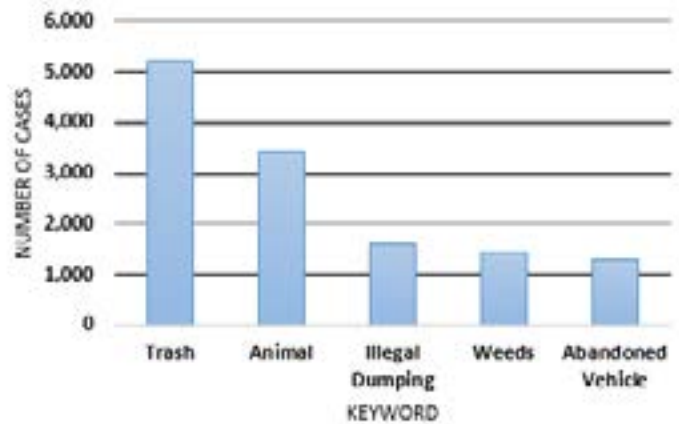


RequestIndy allows residents to request many of the common services at their own convenience. The graph above indicates the top 5 service cases requested by residents in the third quarter on RequestIndy.

MAC SERVICE CASE STATS:

18,034 TOTAL CASES

Top 5 MAC Service Cases

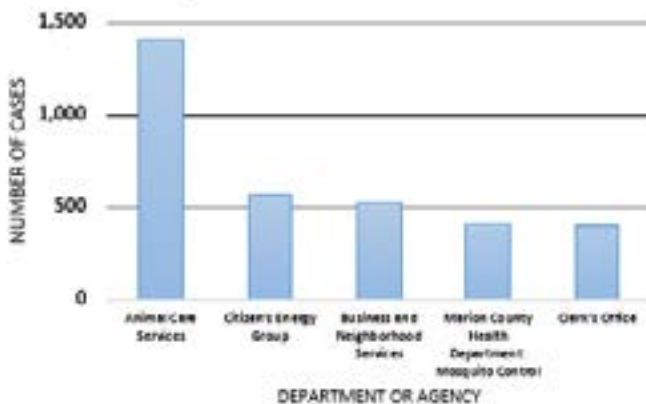


The MAC can enter a request for any offered city service that will be directly sent to the appropriate department. The graph above indicates the top 5 service cases requested by residents in the third quarter opened by the MAC.

SWITCHBOARD CASE STATS:

12,912 TOTAL CASES

Top 5 Switchboard Cases

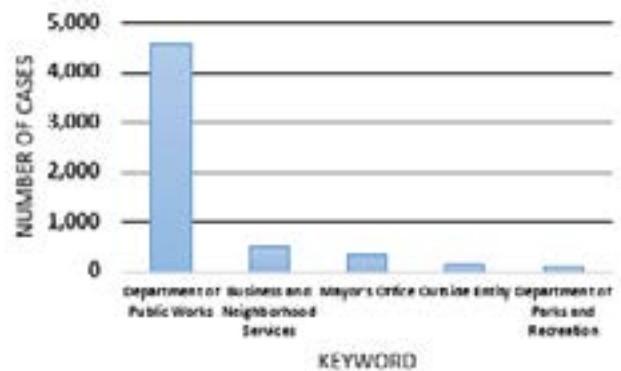


The MAC answers the City/County Switchboard line and the graph above shows the top 5 switchboard requests by callers in the third quarter. Other examples include, but are not limited to, the Assessor's office, Courts, Treasurer and non-emergency police.

INFORMATION CASE STATS:

5,928 TOTAL CASES

Top 5 Information Calls



The MAC receives many general information calls, the most common questions relate to trash pickup. The graph shows the top 5 information case types in the third quarter, categorized by city department.

DEPARTMENT OF METROPOLITAN DEVELOPMENT

The Department of Metropolitan Development (DMD) recently announced the kickoff of a city wide transportation integration plan, called Indy Moves. This plan is designed to integrate the transportation plans in Indianapolis. It's goal is to advance mobility and access for citizens, including transit, commuting, greenways, trails and freight. Visit the website below for additional information about why the plan was implemented, what the schedule and goals are, as well as how to get connected.



[Click here for more information about Indy Moves](#)

ANIMAL CARE SERVICES

WINTER WEATHER:

EXTREME WEATHER CONDITIONS

Animals must have access to adequate, food, fresh drinking water and shelter during extreme (hot or cold) weather. If you notice an animal in duress during extreme winter temperatures or weather, please report the issue to the MAC for Animal Care Services to investigate.

FERAL AND COMMUNITY CATS

If you have questions or concerns about feral and/or community cats, please contact Indy Feral (317.638.3223) or visit www.indyferal.org for additional information and resources.



DEPARTMENT OF PARKS AND RECREATION

DID YOU KNOW?

- Indy Parks offers 211 parks, 11,254 acres, 125 playgrounds, 155 sports fields, 135 miles of trails, 23 recreation centers and nature centers, 19 aquatic centers, 21 spray grounds, 13 golf courses and 4 dog parks.
- Eagle Creek has 1,400 acres of water and 3,900 acres of forest—this is one of the largest city parks in the nation.

[Click here for upcoming Indy Parks events and general park information](#)



DEPARTMENT OF PUBLIC WORKS: 2017 LEAF SEASON

MONDAY, NOVEMBER 6TH—FRIDAY, DECEMBER 1ST

LEAF COLLECTION GUIDELINES:

- All leaves must be placed in plastic waste bags. Paper bags can break down in wet weather.
- Residents may set out up to 40 bags of leaves per week. Leaves must be set out by 7am on your trash day and be at least 3 feet from any obstructions.



LEAF SEASON INFORMATION

- Leaves collected during the 2017 leaf season are taken to the Southside Landfill for composting. This compost will be available to Indianapolis residents, free of charge, in 2018. Residents must contact the Southside Landfill for availability at 317.247.6808
- Residents are responsible for keeping storm drains in front of their home free from any debris and obstructions. This can help avoid any drainage and flooding problems that can arise from a blocked storm drain.
- Bags of leaves set out after the leaf season collection dates (after December 1st) must be placed inside of the 96 gallon container, taken to the Citizen's Transfer Station or Southside Landfill.



[Click here for more information about the 2017 Leaf Season](#)



DEPARTMENT OF BUSINESS AND NEIGHBORHOOD SERVICES

OPEN BURNING REGULATIONS

WHAT IS OPEN BURNING?

- Open burning is described as burning materials outside, which can have both health and environmental affects, producing smoke and odor nuisance to those nearby.

WHAT CAN RESIDENTS BURN?

- Residents can burn between the hours of 10am—3pm in a non-combustible container. It must be placed at least 15ft from any structure and must be attended at all times. You must maintain a means to extinguish the fire at all times.
- Open burning is allowed in barbecue grills and patio fire pits

WHAT CAN RESIDENTS NOT BURN?

- Leaves, grass clippings, stumps, household garbage, waste lumber, furniture, tires, dead animals, hazardous/asbestos material, wire and hazardous materials.
- Residents are advised to report open burning incidents to the MAC. If residents feel it is an emergency, it can be reported to 911.

[Click here for more information about Open Burning](#)



A GUIDE TO INSECTICIDE, HERBICIDE AND FERTILIZER USE

INSECTICIDES, HERBICIDES, AND FERTILIZERS AFFECT WATER QUALITY

Stormwater picks up and carries pollution as it runs off of rooftops, parking lots, lawns and other surfaces. The polluted storm water that flows through storm drains does not get treated before emptying into our streams, rivers and lakes.

Even small amounts of commonly used chemicals, such as insecticides, herbicides and fertilizers, can be dangerous to human health and degrade water quality. Insecticides and herbicides can damage or kill aquatic animals and plants. Fertilizers accelerate algae growth, which can affect oxygen levels in our waterways, harming beneficial aquatic wildlife. The practice of integrated pest management is encouraged to minimize these negative impacts.

WHAT IS INTEGRATED PEST MANAGEMENT (IPM)?

Integrated pest management is a highly effective approach that minimizes the use of chemicals and maximizes the use of natural processes. Chemical insecticides, herbicides and fertilizers should be the option of last resort. IPM involves three different control methods:

Biological: Using natural enemies of a pest, such as lady bugs to control aphids

Cultural: Using gardening methods, like mowing high to shade out weeds

Chemical: Using chemical applications correctly and sparingly

NATURAL ALTERNATIVES TO CHEMICAL APPLICATIONS

Pest Control

- Handpick or wash pests off of plants
- Use row covers in gardens
- Install copper flashing around garden beds to deter snails and slugs
- Apply milky spore powder to kill Japanese beetle grubs
- Spray insecticidal soaps and horticultural or vegetable oils on plants to deter aphids, mites, whiteflies and caterpillars
- Apply diatomaceous earth to deter aphids, tomatohorn worms and other pests
- Use neem oil or azadirachtin extract to deter cutworms, mites and nematodes
- Introduce predatory insects such as lady bugs, spiders, soldier bugs, predatory mites and nematodes to rid gardens of aphids, mites and insect eggs
- Plant repellent plants, such as marigolds and mint

WEED CONTROL

- Spread mulch around planting beds
- Water, but not excessively
- Aerate lawn
- Apply corn gluten meal, especially for dandelions and crabgrass
- Pull weeds by hand
- Pour boiling water on weeds in driveways and patios
- Pour vinegar on weeds
- Set lawn mower at 3 inches high or greater

FERTILIZER

- Leave grass clippings on the lawn
- Apply blood and bone meals
- Mix compost with soil
- Choose organic fertilizers

Continued on next page



Indianapolis
SUSTAININDY
Department of Public Works

SAFER INSECTICIDE, HERBICIDE AND FERTILIZER USE

When a problem arises that cannot be managed with natural methods alone, careful chemical use may be necessary. Here are some tips for safe application of chemical insecticides, herbicides and fertilizers when they must be used:

- To minimize broad use of chemicals, use a chemical that addresses the particular pest, plant or weed
- Utilize non-aerosol chemical applications
- Choose the least toxic products available. For instance, baits and traps are safer options than applied chemicals
- Buy ready-to-use products. Concentrated chemicals could spill and cause more damage to waterways and wildlife
- Never put chemicals down any drain
- Cleanup excess amounts of insecticides, herbicides and fertilizers and dispose of properly; never wash them into storm drains
- Use kitty litter or other absorbent material to clean up spills, then dispose of used absorbent properly
- Read labels and follow instructions exactly for insecticide, herbicide and fertilizer use
- Do not apply chemical insecticides, herbicides and fertilizers when rain is imminent or on bare soil
- Do not assume your lawn needs fertilizer; test your soil for nutrient levels and fertility
- Use earth-friendly fertilizers low in nitrogen and phosphorus and pesticide free; avoid “weed and feed” varieties of fertilizers

SAFER STORAGE OF CHEMICALS

- Always store chemicals in their original container, and in a place inaccessible to children and pets
- Never remove labels
- Clearly mark containers, applicators and utensils used for mixing or applying chemicals, store them with the chemicals and never use them for any other purpose

SAFER DISPOSAL OF CHEMICALS

Dumping of unused chemicals down a drain or on the ground can be illegal. Dispose of unwanted or unused portions of insecticides, herbicides and fertilizers properly through the Indianapolis ToxDrop program. For disposal locations, call 327-4TOX or visit www.Indy.gov/ToxDrop.

HOW YOU CAN HELP

Everyone can help keep common pollutants out of our waterways by adopting these practices:

- Don't over-water your lawn; water during the cool times of the day, and don't let water run off into a storm drain
- Reduce the amount of paved area and increase the amount of vegetated area in your yard
- Clean up your pet's waste or it can end up in our waterways
- Use a car wash instead of washing your car in your driveway
- Consider innovative approaches to stormwater management, such as using rain barrels, planting rain gardens or using green roofs
- Clear trash and debris from storm drains and driveway pipes
- Dispose of paint, motor oil and cleaning products properly; call the Indianapolis ToxDrop program at 327-4TOX for more information



SustainIndy is a bold and innovative enterprise aimed at delivering long-term cost savings to the City, building the local economy, improving our quality of life and enhancing our environmental and public health. Its efforts are designed to aggressively move Indianapolis forward in making it one of the most sustainable cities in the Midwest.

TREE MANAGEMENT PLAN

City of Indianapolis,
Indiana

December 2016

Prepared for:
City of Indianapolis
Department of Public Works
1200 South Madison Avenue
Indianapolis, Indiana 46225

Prepared by:
Davey Resource Group
A Division of The Davey Tree Expert Company
1500 N. Mantua Street
Kent, Ohio 44240
800-828-8312



Table 6. Benefit Data for Common Street Trees by Species

Common Name	Most Common Trees Collected During Inventory	Botanical Name	Number Trees on the ROW	Percent of Total Trees (%)	Canopy Cover (ft ²)	Benefit Provide By Street Trees				Importance Value (IV) (higher IV = more important species)	
						Aesthetic/Other	Stormwater	Energy	Carbon Sequestered		Air Quality
						Average\$/Tree					
Silver maple	<i>Acer saccharinum</i>		13,779	7.54	17,335,743.63	28.02	34.73	12.71	1.67	3.36	12.16
White mulberry	<i>Morus alba</i>		9,756	5.34	6,838,995.88	41.76	20.67	7.16	0.65	1.91	5.84
White ash	<i>Fraxinus americana</i>		9,573	5.24	6,962,647.43	29.26	18.70	7.81	0.98	2.08	5.32
Sugar maple	<i>Acer saccharum</i>		9,420	5.15	7,487,065.70	29.27	21.76	8.58	0.79	2.10	5.95
Willow pear	<i>Pyrus calleryana</i>		8,800	4.81	2,642,647.95	10.42	6.28	3.20	0.32	0.87	2.71
Northern hackberry	<i>Celtis occidentalis</i>		8,302	4.54	8,451,877.13	49.85	27.32	9.91	1.27	2.79	5.91
Green ash	<i>Fraxinus pennsylvanica</i>		7,028	3.84	6,889,328.96	29.48	20.30	10.02	1.14	2.63	4.44
Red maple	<i>Acer rubrum</i>		6,817	3.73	4,459,538.72	29.55	16.31	7.17	0.61	1.83	3.51
Flowering crabapple	<i>Malus species</i>		6,363	3.48	2,552,670.26	11.33	7.14	4.45	0.48	1.16	2.17
Berberian elm	<i>Ulmus pumila</i>		5,379	2.94	5,912,248.22	44.71	28.22	9.88	1.11	2.91	3.95
Eastern white pine	<i>Pinus strobus</i>		5,335	2.92	2,929,266.96	18.92	20.63	4.96	0.41	1.59	2.49
White spruce	<i>Picea pungens</i>		4,627	2.53	853,176.92	14.85	7.79	1.64	0.19	0.52	1.32
Eastern redbud	<i>Cercis canadensis</i>		4,186	2.29	1,290,665.25	9.76	6.56	2.72	0.23	0.85	1.33
White spruce	<i>Picea abies</i>		3,676	2.01	1,069,652.11	13.31	11.46	2.63	0.27	0.82	1.23
Northern red oak	<i>Quercus rubra</i>		3,676	2.01	4,940,875.92	42.22	33.29	12.96	2.22	3.21	3.15
Sum species	<i>Prunus species</i>		3,498	1.91	871,270.62	11.83	5.27	2.20	0.20	0.69	1.02
Eastern red cedar	<i>Juniperus virginiana</i>		3,296	1.80	799,931.52	15.24	8.77	2.10	0.26	0.69	1.01
Labonvitea species	<i>Thuja species</i>		3,175	1.74	434,821.88	12.74	4.95	1.14	0.12	0.36	0.80
Norway maple	<i>Acer platanoides</i>		3,119	1.71	2,348,224.74	25.14	19.18	7.95	0.69	2.09	1.74
Black walnut	<i>Juglans nigra</i>		2,816	1.54	2,738,845.00	28.89	18.66	8.39	0.99	2.33	1.91
Ironless honeylocust	<i>Gleditsia triacanthos inermis</i>		2,796	1.53	2,873,756.56	31.61	21.17	8.91	1.07	2.69	1.76
White species	<i>Fraxinus species</i>		2,389	1.31	2,236,803.53	30.04	19.32	9.61	1.11	2.52	1.46
White thorn species	<i>Crataegus species</i>		2,245	1.23	699,146.23	9.99	6.66	2.74	0.24	0.86	0.72
Black locust	<i>Robinia pseudacacia</i>		2,220	1.21	2,174,484.60	30.08	20.30	10.04	1.17	2.63	1.40
Boxelder	<i>Acer negundo</i>		2,197	1.20	1,729,288.25	29.02	19.93	8.53	0.69	2.18	1.29
Black cherry	<i>Prunus serotina</i>		2,108	1.15	2,096,155.64	29.87	20.59	10.17	1.17	2.66	1.35
American elm	<i>Ulmus americana</i>		1,976	1.08	1,220,613.01	50.02	16.55	5.85	0.91	1.71	1.00
Veetgum	<i>Liquidambar styraciflua</i>		1,915	1.05	1,951,011.20	29.96	21.31	10.40	1.27	2.72	1.25
Willow tree	<i>Liriodendron tulipifera</i>		1,890	1.03	1,957,521.28	24.33	21.67	10.30	1.12	2.72	1.25
American sycamore	<i>Platanus occidentalis</i>		1,882	1.03	2,564,791.20	20.27	28.45	13.26	1.14	3.52	1.53
Eastern cottonwood	<i>Populus deltoides</i>		1,867	1.02	2,410,499.09	29.24	38.36	13.25	0.88	2.45	1.78
Other street trees	~215 species of varying genera		36,695	20.07	88,339,125.71	19.62	10.80	4.23	0.48	1.17	17.26
OW Total	92 genera and ~249 species on the ROW		182,801	100.00	198,062,691.10	26.44	18.19	7.17	0.82	1.92	100.00



Water Quality is Everyone's Business

You probably don't think much about it on any given day, but stormwater plays a major role in the cleanliness of our waterways, the safety of our neighborhoods and liveliness of our business districts. The need to protect and conserve this valuable resource grows as Indianapolis continues to become a world-class city.

The National Pollutant Discharge Elimination System (NPDES) permit program, issued by the Indiana Department of Environmental Management, translates general requirements of the federal Clean Water Act into specific provisions tailored to the operations of Indianapolis. The Clean Water Act prohibits any business from discharging "pollutants" through a "point source" into a "water of the United States" unless they have an NPDES permit.

The U.S. Environmental Protection Agency (EPA) defines point source pollution as "any single identifiable source of pollution from which pollutants are discharged, such as a pipe, ditch, ship or factory smokestack". Other common pollutants include pesticides, fertilizers, oils and other fluids from cars.

Businesses play an important role in improving and maintaining the quality of our waterways and keeping our community sustainable. To protect and enhance our neighborhoods and help make them more enjoyable places to work and do business, consider the following tips:

- If your property borders a waterway, establish a "no mow" area along the stream bank that is ideally 30 feet or wider to stabilize and to prevent erosion of soils, filter and trap pollutants and provide for improved infiltration of storm water.
- Keep storm inlet grates, driveway culverts and cross pipes clear of debris, trash, and leaves. Doing so can prevent flooding.
- Don't dump anything in or near storm drains. Storm drains lead to local lakes and streams that are used for drinking water.

As a business owner, you have the power to make an impact and create a cleaner city. To learn more about stormwater best practices and to stay up to date on how the City of Indianapolis is working to reduce stormwater pollution visit: www.Indy.gov/stormwater



READY. SET. RAKE! INDIANAPOLIS LEAF COLLECTION BEGINS NOVEMBER 6

For immediate release
October 12, 2017

INDIANAPOLIS – The Indianapolis Department of Public Works (DPW) will be collecting bagged leaves beginning Monday, November 6 through Friday, December 1.

DPW's solid waste team will remove up to 40 bags of leaves per household each week on regular trash pickup days during the 4-week leaf collection season.

The collection period aims to target the time of year when most leaves fall from trees, and DPW works with Purdue Extension to determine the best time period. All costs of the leaf collection are covered by current solid waste fees collected each year from homeowners.

Indianapolis residents are asked to follow a few simple guidelines:

- Place leaves in plastic waste bags. Paper bags can dissolve or tear in wet weather.
- Leaf bags should be outside by 7 a.m. on each resident's regular trash day.
- Keep all leaf bags at least 3 feet away from trash carts so trucks can access carts.

DPW would like to remind residents that any trash left outside of carts will not be collected. Leaves collected this year will be composted at the [South Side Landfill](#), and mulch will be available to residents in the spring for free. DPW workers collected more than 5,000 tons of leaves in 2016.

Other important things to remember this autumn:

- Remember to clear leaves and debris from storm drains to avoid drainage and flooding problems.

- Do not burn leaves. It is illegal to burn leaves in Marion County, and leaf burning creates particles, including dust, soot and other materials, that can contain toxic chemicals. These chemicals can worsen conditions related to heart and lung disease.

To find your regular and heavy trash days, enter your address at this link – maps.indy.gov/GovProfile/

For more information, please contact the Mayor’s Action Center via the RequestIndy application on your smart phone, or by calling (317) 327-4622. Visit www.indy.gov/dpw to learn more about DPW trash services.

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November

- [November 4: Check the storm drains in your neighborhood to make sure leaves are not clogging drains. #IndyStormWater](#)
- [November 7: Improve water quality by cleaning up pet waste to keep it from flowing into waterways! #IndyStormWater](#)
- [November 15: Today is America Recycles Day! Take the #IWillRecyclePledge and keep reusable items out of our waterways. #IndyStormWater](#)
- [November 21: As the seasons change, make sure to winterize your garage and vehicles to prevent water pollution. #IndyStormWater](#)
- [November 24: We are thankful for our waterways and all those who work to prevent #stormwater pollution! #IndyStormWater](#)

December

- [December 2: Winter is coming! If it starts to snow, shovel early. The more snow and ice you remove, the less salt you will need. #IndyStormWater](#)
- [December 5: More salt does not always mean more melted snow. Consider purchasing a hand-held spreader to help you apply it efficiently. #IndyStormWater](#)
- [December 15: Did you know most salts will not melt ice when the temperature is below 15 degrees Fahrenheit? #IndyStormWater](#)
- [December 19: Instead of sodium chloride or calcium chloride de-icers, use products containing an acetate, potassium chloride, or magnesium chloride.](#)
- [December 21: Happy first day of winter! Celebrate by making sure the storm drains on your street are clear of ice and snow. #IndyStormWater](#)

January

- Happy New Year! Resolve to learn more about stormwater pollution and how to prevent it at indy.gov/stormwater #IndyStormWater
- When more than 2 inches of snow falls, plow or shovel first then use a deicing product to melt any underlying layers of ice #IndyStormWater
- [Do you have a rain barrel? Make sure the spigot is open to help prevent it from filling with ice and potentially cracking. #IndyStormWater](#)
- Reduce Your Salt Use - The most important step in deicing is to physically remove as much snow and ice as possible before applying salt.
- Need traction? Try cracked corn! It's more environmentally friendly than cat litter or sand if it lands in a storm drain. #IndyStormWater
- Fun fact: Beet Juice mixed with salt can be an effective deicer & reduces the amount of salt needed by as much as 30%. #IndyStormWater
- Is sleet & freezing rain forecasted? Apply a deicer early on to prevent ice buildup. #IndyStormWater

A GUIDE FOR STREAMSIDE PROPERTY OWNERS

WHAT IS A RIPARIAN PROPERTY?

Riparian properties are primarily lands that are adjacent to streams, creeks, rivers or other bodies of water. These properties have a connected relationship with the waterways and can enhance or degrade the water quality. Riparian property owners can play a critical role in preserving and enhancing riparian areas, leading to the improvement of water quality for human, plant and animal life.

HOW DO RIPARIAN PROPERTIES AFFECT WATERWAYS?

When it rains, storm water picks up and carries pollution as it runs off rooftops, parking lots, lawns and other surfaces. Insecticides, herbicides, fertilizers, oil, pet waste, sand, gravel, soil and litter are all common pollutants that are carried by the water as it flows over land surfaces, and can degrade our waterways.

Ultimately, these pollutants can cause loss of aesthetic and true value of properties, and affect natural habitat and fish populations. Since riparian properties reside next to rivers and streams, they can most directly affect water quality.

WHAT ARE THE CHARACTERISTICS OF THE STREAM ABUTTING YOUR PROPERTY?

Healthy Streams

- Cool water
- Clean, clear water
- Thriving aquatic life
- Stream bank with healthy, native vegetation and shade
- Litter-free stream banks

Unhealthy Streams

- Warm or stagnant water
- Discolored, odorous water (algae present)
- Bare, unvegetated stream bank with little or no minimal erosion
- Trash and debris on stream banks

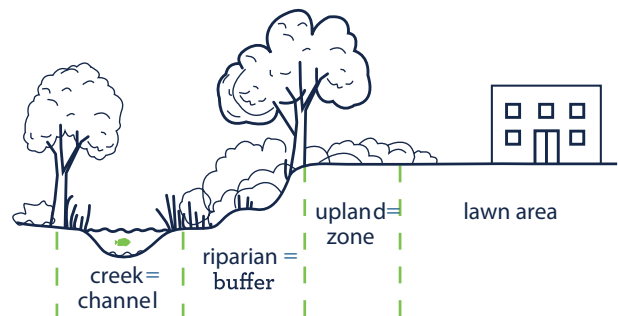
WHAT CAN RIPARIAN PROPERTY OWNERS DO TO HELP IMPROVE WATER QUALITY?

One effective way for riparian property owners to enhance water quality is to create and maintain a riparian buffer zone, or naturalized areas along stream banks. Naturalized planting areas or riparian buffer zones along stream banks stabilize and prevent erosion of soils, filter and trap pollutants and provide for improved infiltration of storm water into the soil. Riparian buffer zones can typically be established and maintained at a low cost while providing significant water quality benefits.

GET STARTED – CREATE YOUR OWN RIPARIAN BUFFER ZONE

- Establish a “no mow” area along your stream bank that is ideally 30 feet or wider
- Plant trees, shrubs and long stem grasses in your buffer zone
 - o Native plants are best and reduce the need for insecticides, herbicides and fertilizers – all common storm water pollutants
 - o Shrubs grow fast and can help create the buffer zone more quickly
 - o Native prairie grasses, such as Indian Grass or Switch Grass, help maintain views

Continued on next page





Indianapolis
SUSTAININDY
Department of Public Works

- Periodically pick up litter and eliminate the use of insecticides, herbicides and fertilizers in the buffer area.
- Integrate your buffer zone into a comprehensive storm water management system for the entire property.

BENEFITS OF A RIPARIAN BUFFER ZONE

Buffer zones create economic, social and environmental benefits.

The specific benefits include:

- Captures pollutants naturally and prevents them from getting into waterways
- Improves water quality
- Protects aquatic and animal life
- Reduces property loss from soil erosion
- Protects drinking water supplies
- Increases property values
- Helps in the process of securing state and local permits
- Reduces maintenance time and costs
- Provides noise control and privacy
- Reduces greenhouse gases, such as carbon dioxide
- Enhances and beautifies the community

BEYOND A RIPARIAN BUFFER ZONE

Additional ways to reduce water pollution and enhance a riparian property include:

- Report chemical spills immediately to the Mayor's Action Center at 327-4MAC.
- Never hose down a chemical spill or stain.
- Employ dry clean up methods using absorbent materials like kitty litter to remove spills and stains. Be certain to dispose of the absorbent material properly.
- Educate employees about storm water and pollution.
- Assign employees the responsibility of inspecting and cleaning up parking lots for litter, oil stains and other pollutants.
- Maintain grassy areas outside the buffer zone at 3 inches or higher.
- If stream access is important to you, create curved pathways to the stream to eliminate channeling through the buffer.



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The Marion County stormwater drainage system is more than 10,000 miles long, with 6,000 miles on private property. The remaining 4,000 miles of the stormwater drainage system is the responsibility of the City. Residents do have responsibilities to help manage and maintain private systems.

By keeping our stormwater drainage systems in good condition, we can:

- Prevent potholes and poor road surfaces
- Avoid traffic hazards by removing standing water and black ice patches
- Keep septic systems functioning
- Remove insect breeding grounds
- Divert stormwater away from your home

GREEN WAYS TO MANAGE STORMWATER

- Use a rain barrel to collect stormwater runoff from rooftops for later use on your lawn, garden, and potted plants.
- Create a stream side buffer zone, a naturalized area along the stream bank that protects it from pollution and erosion. A naturalized area is created by establishing a “no mow” area (30 feet or wider) and planting trees, shrubs, and long stem grasses.
- Plant a rain garden, a landscaped area planted with wild flowers and other native vegetation that soak up rain water, mainly from the roof of a house or other buildings.

If you are interested in learning about the City’s Rain Garden Program, visit www.indy.gov/SustainIndy or email raingarden@indy.gov

DPW continues its mission to transform the city through infrastructure improvements by:

- Restoring deteriorating thoroughfares, residential streets, sidewalks, and bridges
- Addressing neighborhood drainage and flooding issues
- Demolishing unsalvageable abandoned homes
- Creating local jobs
- Increasing public safety for neighborhoods and residents

Each of these residential practices may be eligible for a stormwater credit

For more information, please visit:
www.indy.gov/DPW



Indianapolis Department of Public Works



Indianapolis Department of Public Works

STORM DRAINAGE RESPONSIBILITIES



CITY RESPONSIBILITIES

- Maintain stormwater master plan for drainage improvements within Marion County
- Design and construct flood control and stormwater drainage improvement projects
- Maintain cross pipes under City streets
- Remove log jams from major streams on public property
- Establish and maintain approximately 37 miles of flood protection levees
- Inspect private property and ditches for compliance with environmental public nuisance ordinances
- Review, inspect, and issue permits for development and land alteration plans in compliance with the stormwater management and sediment control ordinances
- Administration of the Stormwater Management District
- Maintain the public stormwater system in compliance with state and federal rules



PROPERTY OWNER RESPONSIBILITIES

- Work with neighbors to clear brush, debris and other blockages from neighborhood creeks and ditches
 - Maintain swales and ditches, including roadside ditches, by mowing grass to eight inches or less, and keep them free of debris. Be sure not to mow when the ground is wet to avoid rutting
 - Keep storm inlet grates, driveway culverts and cross pipes in good repair and clear of debris, trash, and leaves
 - Not dumping debris/yard waste in or along waterways
 - Picking up after pets to avoid pet waste from entering waterways
 - Use approved practices for erosion control for creeks that run through private property. To ensure the specific type of practice is permissible in waterways, be sure to check with the Department of Buisness and Neighborhood Services at (317) 327-8700
- Call Citizens Energy Group (CEG), (317) 924-3311 (and press *2), to report flooding on city streets and side walks or illegal dumping in waterways**

WHAT IS THE LAW?

Many of the concerns the City inspects across Marion County each year, relate to issues occurring on private property. In most cases, public law prevents spending public funds on private property. However, the City does work to protect the public stormwater infrastructure which can sometimes involve work on adjacent private land.

Property owners should be aware of the two main ordinances related to stormwater drainage and flood control in the Revised Code of the Consolidated City and County:

Environmental Public Nuisances Ordinance gives the Indianapolis Department of Public Works the right to inspect private property to investigate an environmental public nuisance complaint. (Chapter 575)

Drainage and Sediment Control Ordinance defines how and by whom drainage facilities must be maintained. (Chapter 561)

If you have drainage and erosion problems on your private property, the Marion County Soil and Water Conservation District (MCSWCD) can assist you by:

- Investigating the site and conducting surveys
- Reviewing soil surveys, infrastructure maps and other information
- Providing recommendations, as needed

To learn more about the information and services the MCSWCD offers, visit:

www.marionswcd.org

FOOD SERVICE DOs AND DON'Ts

LO QUE SE DEBE HACER Y LO QUE NO SE DEBE HACER EN EL SERVICIO DE ALIMENTOS

Keep Pollutants Out of Our Sewers and Waterways

Preventing water pollution is everybody's job. Follow these simple tips to keep grease and other pollutants from clogging sewers and out of local surface waters.

Mantenga Los Contaminantes Fuera de Nuestras Alcantarillas y Cursos de Agua

La prevención de la contaminación del agua es tarea de todos. Siga estos consejos simples para impedir que la grasa y otros contaminantes obstruyan las alcantarillas y para que se mantengan fuera de las aguas superficiales locales.

DO		Sí
Clean up outdoor leaks, drips and spills immediately using dry absorbents.		Limpie los derrames, goteos y fugas de aire libre inmediatamente con absorbentes secos.
Maintain grease traps through routine cleaning.		Haga mantenimiento a las trampas de grasa mediante una limpieza de rutina.
Regularly sweep paved areas such as parking lots and loading areas.		Barra con regularidad las áreas pavimentadas, tales como estacionamientos y áreas de carga.
Keep dumpster area clean, free of trash and dumpster lid closed.		Mantenga limpia el área de los contenedores de basura, libre de basura y las tapas de los contenedores de basura cerradas.

DON'T		NO
Dispose of waste cooking oil (deep fryer oil) down any drain. Use an established recycling company instead.		No deseche el aceite residual de cocina (aceite de freidora) en ningún drenaje. Use una empresa de reciclaje establecida.
Don't use water to clean outdoor paved areas. This washes pollutants directly to our waterways.		No utilice agua para limpiar las áreas pavimentadas al aire libre. Esto envía directamente los contaminantes a nuestros canales.
Don't use storm drain inlets to dispose of any material as storm drains lead directly to local surface waters.		No use las entradas de los colectores de aguas pluviales para desechar cualquier material, ya que estos colectores descargan directamente en las aguas superficiales locales.
Don't throw used cigarettes on the ground. Dispose of them at a properly designated smoking station instead.		No tire las colillas de cigarrillos al suelo. Deséchelos en una estación de fumadores debidamente designada.
Don't dump mop water outside.		No descargue el agua del trapeador afuera.

Indy DPW Storm Drain Marking Volunteer Questionnaire

Date:

Organization:

Event:

1. Because of this event, I have a better understanding of the City's stormwater sewers as a complex infrastructure system. **Agree Disagree**
2. Because of this event, I expect to have a greater awareness of inlets and other stormwater infrastructure when I see examples in my daily life. **Agree Disagree**
3. I believe that better education on water quality issues can lead people to take personal action to improve water quality. **Agree Disagree**
4. The City of Indianapolis can better education citizens on water quality issues by:

Indy DPW Storm Drain Marking Volunteer Questionnaire

Date:

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1. Because of this event, I have a better understanding of the City's stormwater sewers as a complex infrastructure system. **Agree Disagree**
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4. The City of Indianapolis can better education citizens on water quality issues by:

What is stormwater?

Stormwater runoff is rainfall or snow melt that flows over the ground surface. It is created when rain falls on roads, driveways, parking lots, rooftops and other paved surfaces that do not allow water to soak into the ground. Stormwater runoff is the number one cause of stream pollution in urban areas. Where rain falls on paved surfaces, a much greater amount of runoff is generated compared to runoff from the same storm falling over a forested area.

What is a storm drain anyway?

A storm drain is part of the storm sewer system that helps manage precipitation and prevent flooding. Storm drains connect to storm sewers that allow water to flow to local creeks, streams, and lakes. Indianapolis has a municipal separate storm sewer system. This means that water that flows into the storm sewer system goes back into waterways without being treated.

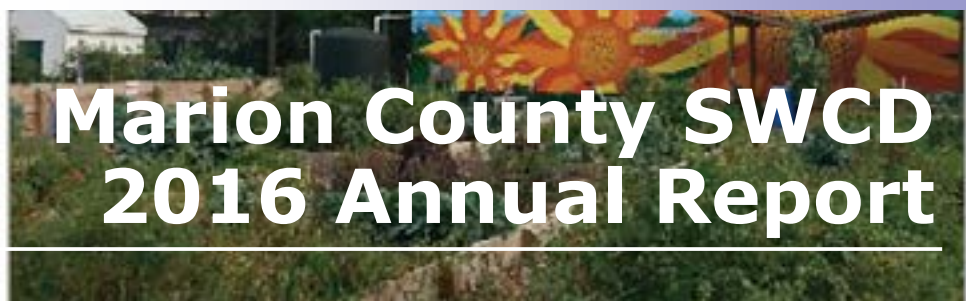
Why storm drain marking is important?

Many people don't realize that what goes down our storm drains eventually makes its way into the waterways we use for our drinking water. As a result, some people may dump leftover paint, oil, or other materials into storm drains. This is called illegal dumping. Per City ordinance, it's illegal to dump or discharge hazardous materials into the storm sewer system as they are designed for catching rain water only

By marking storm drains, you're playing an important role in protecting our waterways and letting your friends and neighbors know that only rain belongs down the drain! Clean water is all about prevention and being aware of what can lead to storm water pollution.

Celebrating 46 years
of conservation!

Marion County SWCD
Annual Meeting:
February 28th, 5:00 p.m.



Report from the Chair...

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The Mission of the Marion County SWCD is to assist Marion County land users in conserving soil, water and related natural resources by providing technical, financial and educational services.

By Heather Buck

It appears that changing the future while holding the past has become the tradition for Marion County Soil and Water Conservation District (MCSWCD). For the past 3 years, we have reported our exciting changes; new supervisors, new staff, and a new address. This year will not be different as we are going through some additional changes while continuing to provide the same great service and personal connections we have throughout our decades of hard work and dedication.

Through collaboration with the Natural Resources Conservation Service (NRCS) and Clear Choices, Clean Water, LLC, the MCSWCD has assisted with development of a Healthy Soils campaign, website (Indiana.clearchoicescleanwater.org/soils) and education materials. As with other facets of the Clear Choices, Clean Water citizens may visit various components of the website to learn about the basics of soil health, learn how their actions may affect soil health; and learn new techniques to increase soil health on their property and within their community. Be on the lookout for more information regarding this campaign and how you can become in-

involved.

We are also very excited to announce that once again, through the hard work of our staff, Associate Board members, and Board members, the MCSWCD has secured nearly \$100,000 in grant funds for support staff, program related materials, and direct project implementation. We continue our success with the Clean Water Indiana grant program and strengthen our partnership with Hendricks and Hamilton County SWCDs.

We are eagerly embarking on a new partnership with the National Association of Conservation Districts (NACD) as we bring our shared conservation efforts to full force in Marion County. Through this effort we are adding educational and technical information to our website related to healthy soils, residential lot conservation efforts, and community partnerships to promote healthy soils and healthy living. Williams Creek Consulting will be assisting the District and Marion County through the development of permaculture prototypes which can be used in urban settings on abandoned lots or re-development sites; again, increasing soil health,

reducing pollutant runoff to nearby storm drains and waterways, and increasing the amount of healthy food in underserved areas.

Finally, in the coming months, the MCSWCD will be strengthening our working relationship with the City of Indianapolis in such a manner that will result in being able to redirect funding typically dedicated to overhead expenses back into countywide programs and personnel. The funds saved will be better used to serve the citizens of Marion County and the City of Indianapolis by increasing our ability to manage and leverage benefits of grant programs, reduce duplication of efforts for state and federally required programs; and to implement additional projects throughout the County and surrounding areas. We are very excited about the near future and we hope you will re-connect with us as we revise our website, continue our newsletters, and increase the conservation within Marion County.

Please visit our website (www.marionswcd.org) to learn more and offer your thoughts and suggestions.

Soil Health Program Report

By Kevin Allison



Observing how conservation cropping systems change the soil profile

The focus of the Urban Soil Health Program is to assist small farmers and gardeners with cropping systems that regenerate soil and conserve water. The program encourages a suite of conservation practices that includes soil testing, cover crops, reduced soil disturbance, mulching, and native plantings. The goal of these practices are to improve soil health and to enhance crop productivity, nutrient efficiency, and soil's ability to infiltrate, store, and clean water. The soil conservation efforts by the SWCD and local growers to grow cover crops and reduce tillage stopped 20 tons of sediment from eroding off small farms. The nitrogen bound to that sediment would have entered water ways requiring 1.6 million gallons of water to dilute to drinking standards. Growers achieve fertility and central Indiana achieves water quality.

In 2016, I conducted thirty nine consultations, visited twenty nine urban farms and gardens, and provided sixteen

growers with Soil Health Grants, an effort made possible by competitive Clean Water Indiana funds secured by the Marion and Hendricks SWCDs. The program engaged a diversity of growers with different soils, techniques, and purpose in planting over 10 acres of cover crops in 2016. As always, a special thanks to the small farmers, backyard gardeners, communities, institutions, schools, and churches for their willingness to try conservation gardening techniques and for welcoming us onto their land.

Workshops and presentations have provided an excellent forum for community education and outreach. In the second year of the program, I presented to over 737 attendees at thirty three training and educational events. In 2017, the Soil Health Program will continue to provide opportunities for growers, conservation professionals and the general public to learn the hows and whys of soil regeneration.

I work in conjunction with numerous partner organizations, both local and statewide serving as an advisor and trainer for the Purdue Urban Farm

Incubator Network and continuing progress in cutting edge techniques as a member of Indiana's Southwest Soil Health Team. While giving feedback to the federal Natural Resources Conservation Service on the progress and lessons learned in conservation in urban agriculture, I work closely with the Indiana State Department of Agriculture to report the implementation of conservation practices and determine environmental outcomes. I also provide technical soil support to ecological and community organizations in Indianapolis also working to promote growing local food and direct conservation technical assistance to those that grow it.

2016 saw soil coming to life in urban gardens. The Soil Health Program looks forward to facilitating education and additional Soil Health Grants to growers in Marion and Hendricks Counties. It is currently progressing website material development to enhance on-site support, all made possible by the input from local urban farmers and vegetable gardeners. It will continue to offer sample cover crop seed packages to encourage experimentation and practice adoption, and it will continue to support urban growers in getting conservation on the ground.

"2016 saw soil coming to life in urban gardens"

2016 Supporting Affiliate Members



The Marion County SWCD Supervisors and Staff would like to express our deep gratitude for the ongoing support of our Affiliate Members! These individuals help to provide the programs and educational materials which help

promote conservation work in our county.

Paul Wright Hayes and Ruth Rosser Hayes in honor of:

- George Harley
- Glenn Lange

- Marilyn Hughes
- Eli Bloom Memorial

George Haerle and Marion Haerle
Stephanie Schuck



Marion County Soil & Water Conservation District 2016 Annual Activities Report January 1 through December 31, 2016

The Marion County Soil and Water Conservation District (SWCD) is a unit of state government, supported primarily by the City-County Council with some funds from state government. The SWCD was established to provide technical assistance to Marion County residents and land users concerning the proper management of soil, water and other related natural resources. We work closely with local government, community organizations and residents on such items as water quality and drainage issues, soil erosion and sedimentation control, urban soil health, green space and wildlife habitat, conservation planning and education to help create a better quality living environment for everyone in the county.

This 2016 annual report was developed to keep city, county, and federal level legislators, government agency directors, and various community leaders informed of our on-going activities. This is just a snapshot of our activities, anyone with any questions or comments are encouraged to contact our Marion Co. SWCD office at Discovery Hall, Suite 200, 1202 E. 38th St., Indianapolis, IN 46205 for more details. Our phone number is 317-786-1776, and our web site is www.marionswcd.org



Assisting Residents with Flooding Issues



Construction Site Reviews and Inspections Help Prevent Pollution



Urban Soil Health Program Cover Crops Help Rebuild Soils

I. 2016 Major Natural Resource Projects Summary

Marion Co. SWCD conservation projects and public outreach efforts were completed to help the district communicate, coordinate, assist, and cooperate with others on conservation needs and solutions for landowners and land users in the county. The efforts can take a minimum of 2-4 hours to several days or weeks or are ongoing depending on the type of project.

Project Summary	Numbers	Date	Comments
Clean Water IN (CWI) Grants – Heartland Conservation			
• CWI Heartland Partnership – Grants to Landowners	3	during year	Urban Conservation Practices
Clean Water IN – Urban Soil Health Program			
• Urban Soil Health Program – Presentations/Workshops	33 / 737 Attendees	during year	Outreach/Training
• Urban Soil Health Program – Consultations/Site Visits	39/29	during year	Outreach/Training
• Urban Soil Health Program – Grants to Landowners	16/48	during year	Grants/Conservation Practices
Stormwater Pollution Prevention Program			
• City of Indianapolis-DPW & DCE - MOU & NPDES Report	3 items	12/01	MOU, budget, and report
• City of Indianapolis-DPW Water Quality Meetings	3 meetings	during year	Water Quality Issues
Other Projects & Coordination with Conservation Organizations			
• Indiana Association of Conservation Districts (IASWCD) Conference	3 days	1/12-14	Board & Staff Training
• Marion Co. SWCD Annual Meeting w- Annual Report	50+ attendees	3/17	Reported accomplishments
• Indianapolis Earth Day at White River State Park	150+	4/25	Hosted MCSWCD booth
• Distributed newsletter on activities & watershed programs	4 / yr	during year	900 on mailing list
• Marion County SWCD Website	4,107 users	during year	Public Outreach

II. Natural Resource Technical Requests, Contacts, & Visits with Land Users

Through on-site visits, telephone calls and written recommendations, the district assists landowners, land users, and construction site managers with drainage, water management, erosion control, vegetative management, riparian, and other related natural resource topics. These assistance efforts take an estimated amount of hours shown below depending on the type of assistance provided to schedule, inventory available site data, visit the site, open recommendations, and respond to the request with written comments to the land user, landowner, or contractor.

Township	# Technical Assists Provided (1.5 hrs)	# Site Visits Made (1.5 hrs)	# Letters or Reports Provided (2-4 hrs)	# Construction Plans or Surveys Provided (2-3 hrs)
Center	5	3	2	0
Decatur	4	2	2	0
Franklin	15	7	3	1
Lawrence	25	11	6	1
Percy	15	10	5	2
Pike	4	3	2	0
Warren	12	6	5	3
Washington	21	10	9	1
Wayne	10	6	3	0
TOTAL	111	64	37	6

Construction Site, Erosion Control and SWPPP Stormwater Reviews, Contacts & Reports

Township	# SWPPP** Reviews Provided (1.5 hrs)	# Erosion Plan** Inspections Reports (1.5 hrs)	# of Site Inspections Made (1.5 hrs)
Center	1	9	1
Decatur	0	4	25
Franklin	2	10	29
Lawrence	1	10	11
Percy	4	16	61
Pike	2	-	0
Warren	3	4	23
Washington	2	7	25
Wayne	0	0	7
TOTAL	15	71	181

Notes: *SWPPP = Stormwater Pollution Prevention Plan
 **Written Reports Denoting Non-Compliance Issues

III. State/Federal Cost Share/Grant Projects- SWCD brought into county additional: \$73,144

The Marion County SWCD is always looking for ways to assist landowners via a variety of county, state, and federal cost share and grant funds to assist with the implementation of conservation practices in the county. Local funds are often limited or non-existent for the SWCD to provide monetary assistance for land improvement and/or protection conservation measures. The projects can take a minimum of 2-4 days to several months depending on the type of activity. The following program funds are being provided through our joint cooperative efforts with the USDA-Natural Resources Conservation Service (NRCS) assigned to assist the Marion County SWCD and the Clean Water Indiana Grant Program administered by the State Department of Agriculture, Division of Soil Conservation and the State Soil Board.

Program	Funds Provided	Type of Projects
NRCS Conservation Programs	\$12,974.00	Acres of Planned and/or Applied Land Conservation Practices
Clean Water Indiana Grants (CWI) or Headland Conservation	\$3,661.00	2 - Working with Hamilton, Madison and Hancock counties, a three-year grant to hire a watershed coordinator and implement a Backyard Conservation program to improve water quality in Fall Creek.
Clean Water Indiana Grant (CWI)	\$10,000	General District Operations Funds
NRCS Program Agreement - Urban Soil Health	\$36,600	Urban Soil Health Program with Hendricks County
Clean Water IN Grant - Urban Soil Health	\$16,969.54	Urban Soil Health Program with Hendricks County

EACH CITY/COUNTY TAX DOLLAR INVESTED IN THE SWCD LEVERAGES \$1.92 IN OTHER FUNDING

The Marion County Soil and Water Conservation District working every day ... to help people care for the land & provide a better quality of life in our community.

Drainage & Erosion Control Report

By Julie Farr

This year I had the opportunity to personally see how far we have come in our work to decrease soil erosion, especially on construction sites. It has been many years since I have worked on our Rule 5 program (as my main position is to give technical assistance for drainage problems). While we are in transition after the retirement of Glenn Lange, I have been filling in doing erosion control inspections.

While there are still some developments that are not doing all they should to control erosion, I am encouraged to see how many companies have become sensitive to the prob-

lems and are now doing a good job. Over the last 10 years the percentage of violations cited has steadily decreased. We have developed an organized program of inspecting and educating construction companies. Our “[Stop That Dirt](#)” program is in place to help the public contact us when they notice new construction which is causing off site erosion.

Accountability is in place as we inspect city projects and work with the Department of Public Works to ensure that private construction projects adhere to all erosion control requirements. This past summer the U.S. EPA did an audit on the city of Indianapolis to confirm

that our program is working well and gave us suggestions for improvements.

Our office continues to provide technical assistance to landowners who are experiencing drainage and streambank erosion problems which are the homeowners’ responsibility to solve. This year we provided assistance to over 110 landowners and businesses. Many of these were neighborhood problems that adversely affected many individual lots.

While there often is no financial assistance available, finding a viable solution and help in working with neighbors is a service that is a unique service to our county. We look for-



ward to filling our position to continue making progress in alleviating offsite erosion from construction sites in 2017 and hope to add a District Director in the near future. The overall goal is to provide services to Marion County residents which will promote water & soil quality improvements.

If you have questions please email us from our “Contact Us” tab on our website:

www.marionswcd.org

From D.C. Jerod Chew

As professional facilitators for getting conservation on the land”, it is our job to look at the land from the perspective of natural resources; We also assess the impact of various actions on those natural resources, positively and negatively. Similar to how a mechanic likely sees the pros/cons of various vehicles/engines or a basketball coach sees defensive weaknesses/offensive strengths... as conservationists we see erosion, soil structure, wildlife habitat, invasive species, overgrazing, water quality indicators, etc. I like to jokingly say that we are looking at the world through Conservation Goggles”.

The title of conservationist has expanded into many aspects of our life and more and more

people are strapping on the “Conservation Goggles”.

Science and technology have brought forth understanding about our impacts on the natural world much more clearly than ever before. Take for instance water quality issues like algae blooms, people now know that there is a clear connection to between blooms and phosphorus in freshwater; therefore we know we need to reduce phosphorus fertilizer on our yards, fields, in our washing machines and animal feed, etc. The significance of pollinators! Simple facts like reducing carbon emissions through carpooling, properly servicing of engines and fewer trips across the field generally are win-wins resulting in lower cost = more money in your pocket and greenhouse gas

reduction. In agriculture, especially no-till, just add in cover crops and not only are we reducing carbon emissions, but we are capturing free carbon from the air and putting it in our soil leading to better water infiltration, better nutrient uptake and weather resilience.

Our enhanced conservation awareness has shown us that successful and profitable farming is absolutely achievable while providing positive conservation benefits through techniques like no-till, cover crops and proper timing/form/amount of fertilizer.

In agriculture, there is a real need to balance the absolute necessity of producing food with the absolute necessity of ensuring that we leave our children a world where they can continue to do the same and thrive. I like this quote from Theodore Roosevelt,

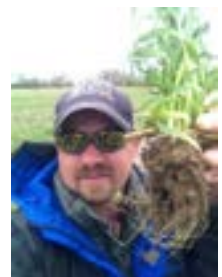
“Conservation means development as much as it does protection. I recognize

the right and duty of this generation to develop and use the natural resources

of our land; but I do not recognize the right to waste them, or to rob, by wasteful

use, the generations that come after us.”

We all have a responsibility to take a look through the Conservation Goggles every now and then to see if there are some positive tweaks we can make in our daily routine. As for agricultural producers and land managers, that’s why we are here. So give us a call, we’ll bring our spare set of goggles!



SWCD Board Members

Leather Buck, Chair is a Resource Planner at Christopher B. Burke Engineering, working in local natural hazard mitigation, stormwater management planning, & water quality monitoring. She serves as the President of the Indiana Lakes Management Society Board and as an Area Representative for EnviroCert International's Certified MS4 Specialist program.

Maggie Goeglein, Vice Chair In February 2016, Maggie accepted a position with the Edna Martin Christian Center, a 76-year-old community center serving Indy's Martindale-Brightwood neighborhood. Maggie provides direct service in the youth program and assists with fund development and site development for EMCC's new 12-acre facility. In addition to working with youth, Maggie has managed multiple large corporate service events focused on renovating the new facility and building a youth and seniors garden on the property, and worked with other staff on several successful grant applications totaling nearly \$1 million in funding over the next three years.

John Hazlett, Board Treasurer LEED AP O+M is a Manager-Water Footprinting Services with experience working in energy efficiency, water conservation, recycling and stormwater management. Prior to joining Williams Creek, John was the Director of the Office of Sustainability for the City of Indianapolis. John assists clients develop strategies to reduce their water footprint by identifying opportunities to minimize, capture and reuse water.

Brian Neilson P.E., LEED AP, has over 30 years experience working with the public & private engineering sector. He is involved with alternative water & wastewater management, Low Impact Development, green infrastructure, watershed planning, stormwater master planning, combined sewer overflow abatement, water quality assessments of lakes, rivers & streams, and land use & greenway planning, among others.

Blake Wilson is a Licensed Professional Geologist (LPG) with over 25 years of experience in the environmental field. His environmental background includes asbestos inspection and management planning, lead, underground storage tank management, hazardous waste site characterization, wetland delineation and mitigation design, NEPA investigations, storm water management, erosion control and environmental site assessment and testing.

Associate Supervisors

Paula Baldwin Rick Bein Marvin Brethauer Bob Eddleman Mark Kautz
Bob Kleinops Beth Mason Mark Mongin Dennis Slaughter Henry Wallis

SWCD Staff Members

Kevin Allison, Urban Conservationist - Soil Health
Julie Haxton Farr, Resource Conservationist & Editor (PT)

NRCS Staff

Jerod Chew, District Conservationist

To learn more about the Marion County SWCD check out our website: www.marionswcd.org



Conservation in the Neighborhood

VOL. 37, NO. 1

SUMMER, 2016

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Wisconsin Urban Farm & Restoration Agriculture Tour

Through a special opportunity offered by Purdue Extension, Kevin Allison (MCSWCD staff), Maggie Goeglein (District Supervisor), and Jerod Chew (District Conservationist) joined a weeklong tour of unique urban and ecologically focused small farms in and near Milwaukee and Madison, Wisconsin in early June. The purpose of the trip was to introduce beginning farmers, Extension staff, and SWCD partners to established and innovative urban farms, farm markets, CSA collaboratives, and small rural farms focused on restorative agriculture.

On the urban side of the trip, the group visited Alice's Garden, Firefly Ridge Community Garden, and Growing Power in Milwaukee, as well as the

Fondy Farmer's Market and Fondy Farm, which is located just outside of Milwaukee and gives urban farmers access to larger parcels of land. All of these enterprises seek to make healthy food available and affordable to their underserved communities. In Madison, the F. H. King Farm in the Eagle Heights Community Garden, is run by students at UW-Madison and provides free produce to the school community.

Leaving the cities behind, the next stop was Carandale Farm in Dane County, a pick-your-own fruit farm that also houses ongoing research of lesser-known perennial fruiting plant species, with the goal of identifying new species for commercial production and helping to re-

establish and maintain a regional marketing infrastructure with a smaller environmental footprint.

Next, the group arrived at Mastodon Valley Farm, near Viola, WI, where Peter and Maureen Allen are restoring their land to the oak savanna ecosystem that is native to it. The savanna system supports perennial fruit and nut crops and a variety of pastured meats produced through a multi-species grazing system.

The final farm tour was with Mark Shepard at New Forest Farm, a large-scale conversion of degraded conventional farmland into a perennial agricultural ecosystem. Like the Allens, Shepard also seeks to replicate the oak savanna biome, where trees, shrubs, vines, canes, perennial plants, and fungi are planted together in ways that conserve water and produce food, fuel, and medicines while filling ecosystem niches all along the spectrum between forest and meadow.

(continued on page 2)



Walking labyrinth planted in herbs at Alice's Garden, Milwaukee, WI.

Soil Health Assistance & Cost Share



Soil Health Program assists growers

The Soil Health Program Soil and Water Conservation Districts (SWCDs) are in place to help people help the land. The Soil Health Program is an initiative to provide technical and financial assistance to improve soil health and water quality in Marion and Hendricks Counties. The program is made possible through Clean Water Indiana competitive grant funds awarded to the districts.

Soil health is the continued capacity of soil to function as a vital living ecosystem that sustains plants, animals, and humans. Improving it can be accomplished through a systems approach to your landscape: Disturbing the soil as little as possible, keeping plants growing throughout the year to feed soil life, maximizing plant diversity where possible, and keeping the soil covered and

protected. Soil building practices like nutrient management, garden cover crops, mulching, and deep rooted native plants are tools that the SWCD can help you understand and utilize.

For more information click the link below:

[2016 SWCD Soil Health Program Guidance](#)

(Continued from page 1)

In addition to the farm tours, there were conversations with groups focused on infrastructure and research such as the FairShare Community Supported Agriculture Coalition, and the Center for Integrated Agricultural Sciences at UW-Madison. The trip was packed with fascinating information, beautiful landscapes, and deli-

cious meals at local restaurants committed to sourcing their ingredients close to home. We came home full of new ideas and much appreciation to Purdue for designing the trip and for their invitation to come along.



Restorative, sustainable agriculture at Mastodon Valley Farm made by mimicking native ecosystems.



Learn more about the farms and programs we toured:

Alice's Garden: www.facebook.com/AlicesGarden

Growing Power: www.growingpower.org

Fondy Farmers Market and Farm: www.fondymarket.org

Carandale Farm: www.carandalefarm.com

Mastodon Valley Farm: www.mastodonvalleyfarm.com

New Forest Farm: <http://newforestfarm>

Center for Integrated Agriculture Sciences: www.cias.wisc.edu

FairShare CSA Coalition: www.csacoalition.org

Residential Storm Credits Now Available



Raingarden creates savings on storm-water fees

roduced in July 2015, residents are charged a user fee based on the amount of impervious surface on their properties. Go

to www.indy.gov/stormwater and utilized the City's new user interface to determine your monthly storm-water fees. Additionally, residents can find the City's Storm-water Credit Manual on the site for instructions and application

forms for the credit as well as the Green Supplemental Document for design guidance. Planting plans and additional residential green infrastructure resources are available on the Office of Sustainability's website located here: <http://www.indy.gov/eGov/City/DPW/SustainIndy/GreenInfra/Pages/Build-Your-Own-Rain-Garden1102-7425.aspx>

Residents of Marion County can now take advantage of the Residential Property Credit and earn 25% off their stormwater bills through the City of Indianapolis' Stormwater Credit Program. Under the revised storm-water utility user fees intro-

The Marion County SWCD can help you find ways to add green infrastructure to your property.

Hoosier Interfaith Names New Director

Hoosier Interfaith Power and Light (HI-PL) is pleased to announce Holly Jones as its new executive director. Jones brings nearly two decades of nonprofit and environmental experience to HI-PL, most recently as the Executive Director of Indiana Urban Forest Council, which projects, expands, and improves Indiana's urban forests.

"Holly's passion for the earth, her strong background in not-for-profit environmental leadership, track record with fundraising and collegial style together bode well for a season of growth, building out the faithful future of HI-PL's first executive director, the Rev. Larry Keshman," said acting Board Chair, The Reverend T. Wyatt Watkins. "We greet her arrival with excitement and hope."

As executive director of HI-PL, Jones will oversee the varied work of HI-PL, which ranges from equipping congregations

to reduce their energy use, to providing education about global warming and energy conservation, to advocating for public policies to benefit the environment, as well as focus on growing HI-PL's presence statewide and increasing the number of HI-PL affiliates and donors.

"My passion for building resilience to climate change through local action has never been greater," said Jones. "Having partners in the faith-based communities throughout our state is a tremendous asset in serving the greater cause."

An IU graduate with degrees in Geology and Public Administration and work background in not-

profit leadership in the environmental sector, Jones brings the skills and experience of a scientist, environmentalist, educator, fundraiser, and executive leader. Hoosier Interfaith Power and Light brings together Hoosiers of faith to promote renewable energy and energy conservation and efficiency as a response to climate change. HI-PL is an affiliate of [Interfaith Power and Light](http://www.interfaithpowerandlight.org), a national network of over 40 state chapters working to protect the earth's ecosystems, safeguard the health of all creation, and ensure sufficient, sustainable energy for all.



Hoosier Interfaith Power & Light

Healthy Soil for Life



Our staff can help you improve your soil's health

Only "living" things can have health, so viewing soil as a living ecosystem reflects a fundamental shift in the way we care for our nation's soils.

Soil health, also referred to as soil quality, is defined as the continued capacity of soil to function as a vital living ecosystem that sustains plants, animals, and humans. This definition speaks to the importance of managing soils so they are sustainable for future generations. To do this, we need to remember that soil contains living organisms that when provided the basic necessities of life - food, shelter, and water - perform functions required to produce food and fiber.

Only "living" things can have health, so viewing soil as a living ecosystem reflects a fundamental shift in the way we care for our nation's soils. Soil isn't an inert growing medium, but rather is teeming with billions of bacteria, fun-

gi, and other microbes that are the foundation of an elegant symbiotic ecosystem. Soil is an ecosystem that can be managed to provide nutrients for plant growth, absorb and hold rainwater for use during dryer periods, filter and buffer potential pollutants from leaving our fields, serve as a firm foundation for agricultural activities, and provide habitat for soil microbes to flourish and diversify to keep the ecosystem running smoothly.

For more information contact Kevin Allison, Soil Health Specialist at 317-786-1776 or email him through our website's "[Contact Us](#)" link.



Fall Tree Sale Cancelled

Fall is the best time to plant trees!



Due to circumstances beyond our control, the Marion County SWCD fall tree sale will not take place this year.

Other SWCD's in our area are still conducting tree sales so check with the next nearest

SWCD to see what they are offering.

Visit the Indiana Association of Soil & Water Conservation Districts' website for contact information:

<http://wordpress.iaswcd.org/?p=290>

Information on selecting, planting and caring for new trees can be found on our website at <http://marionswcd.org/trees/>

Mark Poeschle New FFA Chief Executive Officer



Congratulations to Mark Poeschl on his selection to serve as the next chief executive officer of National FFA. As the home of FFA's national headquarters as well as the

national convention, Indiana has a special appreciation for the great work of the organization to encourage, train and support the next generation of leadership in the agriculture industry. His industry experience and leadership as an FFA member and former state FFA president means Mark is uniquely qualified to lead this important organization.

"I also join all Hoosiers in thanking Dr. Dwight Armstrong for his many contributions to the agriculture indus-

try, and his personal commitment to the mission of FFA. He is a friend to all Hoosier farmers, and we wish him well in his retirement," said Lt. Governor Eric Holcomb.

"This organization plays a critical role in the future of agriculture by developing and investing in the lives of tomorrow's leaders, and I'm confident that under Mark's direction FFA will continue to grow and thrive."

Support the Marion County SWCD by becoming an Affiliate Member.
For information check our website: www.marionswcd.org

SWCD Update

The Marion County SWCD is going through some adjustments as changes are being planned for the upcoming year. We appreciate the patience you have shown us as we have been understaffed the last several months. Plans are in the works to hire a new full time Resource Conservationist to take over the Rule 5 / SWPPP program.

As the existing staff is often working out in the field, the easiest way to contact us for assistance is by emailing Kevin Allison for Soil Health program questions or Julie Farr for Rule 5 or drainage questions. You can send them an email

through our website's "Contact Us" tab. They will get back to you as soon as possible.

Engineering firms wishing to drop off construction plans should call the office to be sure a staff person will be in.

Thank you again for your patience. We continue to be committed to providing the best possible conservation assistance to our residents and landusers.



FSA NEWS

The latest updates on Farm Service Agency programs and sign up dates can be found on their website:

www.fsa.usda.gov
 or call 317-736-6822



MARION COUNTY
SOIL AND WATER
CONSERVATION DISTRICT

Discovery Hall, Suite 200
1202 East 38th Street
Indianapolis, IN 46205

Phone: 317-786-1776
Find us on the web:
www.marionswcd.org

The Mission of the Marion County Soil & Water Conservation District is to assist Marion County land users in conserving soil, water, and related natural resources by providing technical, financial and educational services.

THANK YOU Supporting Affiliate Members!

Ruth & Paul Hayes, in honor of Glenn Lange, Marilyn Hughes & George Haerle and in memory of Eli Bloom

George Haerle, Marion Haerle

Stephanie Schuck

Fill Your Fall with Fun & Facts!

Workshops & Educational Fun

Pasture Workshop, Floyd County

When: Tues. 10/11, 6:30 p.m.

Where: Purdue Polytechnic, New Albany

What: An informative workshop on pasture improvements for horse owners

Free but register at 812-945-9936

Family Fishing at the Fort

When: Sept 17 & 18

Where: Fort Harrison, Delaware Lake

What: A fun fishing event with stations from tying fish knots to how to hold a fish. Rod & bait provided if needed. Bring your fishing license if over 18.

SWCD Staff

Julie Farr, Resource Conservationist PT

Kevin Allison, Urban Soil Health Specialist

Jerod Chew, NRCS District Conservationist





Conservation in the Neighborhood

VOL. 37, NO. 1

WINTER, 2016

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Henry Wallis

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SWCD Invites you to their 46th Annual Meeting

You're Invited!

Please join Marion County SWCD for our annual meeting on February 23, 2016, from 5:00-8:00pm at Discovery Hall on the Indiana State Fairgrounds campus. This has been an exciting year at MCSWCD, and we look forward to sharing our work in soil and water conservation, including a presentation from Kevin Allison on our new Healthy Soils Program, the latest on the city's Stormwater Credits, and with updates from our partners: ISDA's Leah Harmon and NRCS's Jerod Chew. The evening will culminate with our Keynote Speaker, Phyllis Boyd of Groundwork Indy.

Before becoming the Executive Director of Groundwork Indy in August 2015, Phyllis Boyd was a landscape architect and urban designer focused on sustainable design and planning and dedicated

to working with diverse communities to transform their built environments into meaningful, relevant, and life-enhancing places. After eight years in the field, she



Phyllis Boyd of Groundwork Indy will be our main event speaker.

decided to transfer her skills and passion for working on community-oriented revitalization projects to the non-profit sector and joined Groundwork Indy.

Her experiences during her teen years working on Student Conservation Association trail crews in the Gila Wilderness of New Mexico and in Baxter State Park in Maine were transformative. Phyllis holds a Bachelor of Arts in Biology from Indiana University in Bloomington and is a two-time alumna of The University of Texas at Austin where she received her Masters of Arts in Botany in 1997 and her Masters of Landscape Architecture in 2006.

We look forward to seeing you on February 23rd, for an evening of good food, great speakers, and a renewed commitment to clean water and healthy soils in Central Indiana!

RSVP to our office by calling 317-786-1776 before February 18th.

Glenn Lange Retires

Our best wishes go out to Glenn Lange, Resource Conservationist with the Marion County SWCD as he begins his retirement at the end of December. Glenn, who came to us in January of 2006 to head up our urban erosion control program, has been instrumental in providing assistance and monitoring to the many

construction projects which disturb more than one acre. Glenn has been very involved in providing training in erosion control measures to other city inspectors and contractors. He assisted homeowners with land use problems and has also provided leadership to the staff as we have been without a Director



for several years.

Thank you Glenn for all of your dedication and hard work! Enjoy your retirement – you have earned it!

What is a High Tunnel?

A high tunnel is a loosely defined term which can describe a hoop house or unheated greenhouse which is used to extend the growing season. High tunnels can be 3 season

structures whose plastic covering is taken down in the winter, or smaller high tunnels can be used during all 4

seasons.

High tunnels are relatively inexpensive yet provide many benefits to growers. They provide protection from wind, storms, and temperatures which may otherwise destroy a crop. They also extend the growing season in Indiana allowing growers to provide fresh produce to their customers for a much longer season.

To see how others are using high tunnels, visit USDA's blog at <http://blogs.usda.gov/tag/high>

-tunnels/

For information on cost share opportunities available through the USDA Natural Resource Conservation Service contact Marion County District Conservationist Jerod Chew at 317-745-2555 or contact him on [our contact page](#).



Photo: Jody Christianson

“90% of the food that Hoosiers eat is imported.”

Extend the Growing Season with a Hoop House

Installing a Hoop House or Seasonal High Tunnel is an excellent way to extend the growing season for specialty crops such as vegetables, herbs, and berries by amplifying solar energy for warmth. Research has shown that Indianapolis suffers as a food desert and that 90% of the food that Hoosiers regularly eat is imported. This high percentage seems unthinkable in a state that is known for its high agricultural production

houses.

The USDA-Natural Resources Conservation Service supports locally grown food by provid-

ing incentives for the installation of Seasonal High Tunnels. This is through the Environmental Quality Incentives Program (EQIP).

[Check out this short video](#) about NRCS funded urban high tunnels and the link below for eligibility details (simple process). To apply contact [Jerod Chew – CS District Conservationist](#) or [Kevin Allison – Marion](#)



High Tunnels & vegetative blankets protect crops in the winter

[SWCD Urban Soil Health Specialist](#), 317-786-1776 - Application process can take some time, so start today!

For more information on high tunnels: https://prod.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs144p2_030914.pdf

High Tunnels allow farmers to plant vegetable crops, herbs & flowers earlier in the season.



Soil Health in Indianapolis



Cover crops build soil.

By Kevin Allison, Urban Soil Health Specialist

This fall, Butler University’s Department of Biological Sciences took soil samples from six local gardens, weighed them, and then put them in an oven to burn up the soil life and all of the organic material they’ve created as they made their home in the soil. Upon weighing the samples again, we are able to see how much was lost. The finished products were cups of heat resistant rocks and minerals of all different sizes, but the samples were no longer dark black and rich for growing food (see photo below). The pieces of sand, silt, and clay were shades of light brown and

lifeless, almost like a little pile of crushed bricks.

Organic matter may only account for five percent of what is beneath our feet, but the way it fluffs up the soil and nourishes life is ever-important. It builds good soil structure like

mortar in a brick wall yet is sponge-like in its ability to retain water and nutrients. Plant life is almost impossible without OM! Without it you’d need to supplement more fertilizers because there’s nothing there to produce nitrogen.

Several local vegetable growers are taking advantage of 2015’s soil health mini-grant to help ensure that their soil is alive and healthy. In urban backyards, schools, and small farms, they are nurturing the living soil through the use of cover crops, the plants used in between crops to feed the beneficial soil life and build a more powerful and resilient soil. In fact, they join fellow Indiana farmers in planting almost a million acres

of cover crops throughout the state. This focus on soil health saves 32 million tons of soil at risk of erosion from the conventional farming technique of heavily tilling the soil and leaving it bare over winter.

In assisting grant recipients with soil tests and cover crop plantings, I got the opportunity to put my shovel into numerous gardens this growing season. Every garden was beautiful in its own right, but the healthiest gardens were using cover crops, diverse mulching strategies, and compost to increase the soil’s capacity to grow food. Looking ahead, it will be exciting to see life flourish in all these soils.

For more information contact Kevin at 317-786-1776.

“Organic matter may only account for five percent of what is beneath our feet, but the way it fluffs up the soil and nourishes life is ever-important.”



Healthy soil beneath white clover cover crop



New Heartland Backyard Conservation Grant



New Grant Program for 2016 will provide urban conservation

A new grant has recently been approved that will provide cost share dollars and technical assistance to landowners in Marion, Hamilton, Hancock and Madison counties.

Water quality in urban areas is subject to excess nutrients, metals, solid waste, sediment, increased temperature and petroleum products, just to name a few. This new program will reduce nutrient runoff by improving infiltration and soil health, reduce soil ero-

sion with improved vegetative cover, and filter storm water before entering water bodies. Native plants will be encouraged where they increase nutrient uptake, reduce nutrient applications, improve soil health and water infiltration.

Conservation practices which can receive cost share funds may include rain gardens, bioswales, water edge enhancements, filter strips, turf replacement, use of gypsum, tree and shrub planting, porous

pavement or pavers, soil testing and critical area stabilization.

Cost share will pay for 50% of the project up to \$2,000 per project. Technical assistance will be available from SWCD, NRCS, ISDA, Purdue Extension & Master Gardeners, IDNR Urban Wildlife Program, & Spence Nursery, among others.

For more information please contact [John South](#), Hamilton County SWCD or your local Soil & Water Conservation District.

“Water is the driving force of all nature.”

Leonardo da Vinci

Website Offers Helpful Information

We invite you to browse through our website. We have created a place where you can find information on many aspects of natural resources that will be helpful in making good decisions. Under the [Soil tab](#)

you will find information to help you find out about soil types in our county, how to control erosion and improve drainage, how to take a soil test and where to have it analyzed, and information on

Rule 5 requirements for construction sites.

Under the [Water tab](#) you will find information on watersheds and which watersheds currently have active cost share projects. You will also learn how to care for your septic system and how to improve water quality in our community.

Under the [Tree tab](#) you will find information to help you choose the best species for your location and needs, learn how to properly plant a tree and take care of it in the first

few years and basics for maintaining tree health. You will also find links to great websites and information on our next tree and shrub sale.

Under the [Going Green tab](#) you will find many ideas for greener and healthier living including native plants, ecologically healthy lawn & garden tips, water management, wildlife, recycling, conservation education and much more.

The [Agriculture tab](#)

(continued on page 5)

Find the help you need on our website



Join Us as an SWCD Affiliate Member!



Affiliate membership promotes conservation.

continue services provided to county residents including consultation in land use, erosion control and drainage

sion control can release literally tons of sediment into our waterways each year. Sedimentation clogs drainage ways, is a carrier for pollutants and is detrimental to fish and other aquatic life.

What is a SWCD Affiliate Member? Affiliate members are individuals, groups or organizations who choose to financially support the work of the Marion County Soil and Water Conservation District. These funds are vitally needed especially during these lean financial times. The SWCD's traditional funding from state and local government has not seen an increase in 14 years, while our cost of operations have continued to rise. Without additional funding our services will not be able to continue.

problems. For many of our lower income residents, it is not financially possible to hire private engineering and consulting firms to design and install drainage and erosion control practices on their property. In many instances our office can provide simple, do it yourself suggestions that will alleviate or minimize their problems. No other agency is able to do this for individuals and small neighborhood groups.

In addition, the SWCD is active in promoting wise land use and improvements in water quality through their educational programs, workshops and publications. Education is key to long term progress in soil and water quality and has always been a high priority for this District.

Support the Marion County SWCD by becoming an Affiliate Member.

What are the Affiliate Membership funds used for? Gifts from affiliate members are used to

Funding is needed to help continue erosion control inspections which are a critical part of improving and protecting water quality in the county. New construction, without proper ero-

To become an affiliate member visit our [website link here](#) or call the office at 317-786-1776

For information check our website: www.marionswcd.org

(continued from page 4)

includes but is by no means limited to information for conventional farmers. Here you will also find help if you are a small farmer, an organic grower or someone interested in local foods and soil health. This part of our website is being added to on a regular basis as we are focusing on soil health in 2016.

and Additional Help tabs are all there to give you up to date and additional assistance. Of course you can also learn more about your SWCD and [donate](#) to the District from our [home page](#).

I hope you will spend some time at our website and see what it has to offer.

www.marionswcd.org

The calendar of events, News,



FSA NEWS

The latest updates on Farm Service Agency programs and sign up dates can be found on their website:

www.fsa.usda.gov
or call 317-736-6822

Check your soil type first!



Types of Marion County's soil types are available online.

What do the following situations have in common: a failing septic system, potholes in the road, standing water in your crawlspace, a dying tree, and corroding pipes in the ground? They all can be caused by not considering the soil before making land use decisions. There are many different soil types in Marion County each with their own qualities and limitations. Which soil types are in your neighborhood? Finding out has never been easier!

You can find general soils information online by visiting the [Web Soil Survey](#). If you need help, our [fact sheet](#) will help guide you through the process. Once you have found your soil type our [non-technical soil descriptions](#) sheet will help you understand what land uses or plants are best suited for your soil type.

You can also get soils information on your iPhone! GPS based, real-time access to

USDA-NRCS soil survey data, formatted for the iPhone is [a free app available from iTunes](#). This application retrieves graphical summaries of soil types associated with the iPhone's current geographic location, based on a user defined horizontal precision. Sketches of soil profiles are linked to their official soil series description (OSD) page. Soil series names are linked to their associated page within the CA Soil Resource Lab's online soil survey, SoilWeb.

Up, up and away!

On July 7, 2015, Indiana Grown soared to new heights with its official launch at Waterman's Family Farm in Indianapolis. It is for all planters, producers, and processors of Indiana products. Numerous Indiana Grown

members attended in support of the launch and were available to share their excitement, answer questions, and promote their products. Non-members and media were able to learn more about Indiana Grown and view

Indiana Grown products on display at the launch. With the success of the launch, Indiana Grown now has close to 200 members and continues to receive member applications. For more information click this [link](#).

Indiana Grown
Featured on
IndyStyle
[Click Here](#) to
watch

Indiana Grown products at all Indiana Kroger and many Marsh stores



Kroger Partners with Indiana Grown

The Indiana State Department of Agriculture created the "Indiana Grown" program to help promote small Indiana farmers and their products.

This fall a large milestone was made when Kroger grocery stores agreed to sell locally grown products in all 102 of their Indiana stores. This will provide a large market for our small farmers and will provide

customers with easily accessible local produce. The stores will have bib tags, shelf strips, overhead signs and other displays to make finding locally grown foods easy.

Invasive Species Highlight - Autumn Olive



Autumn Olive's creamy white blooms

Autumn Olive is a deciduous shrub or small tree that is highly invasive in Indiana. From a distance it can be identified by its silvery appearance. The leaves are medium green on top and

distinctly silver on the underside. It was planted extensively for highway beautification and wildlife food in the 50's and early 60's and is spreading rapidly. It crowds out many native plants and since it fixes nitrogen it improves soil fertility to the point that many plant communities that prefer low fertility soils cannot survive. It is often called "Autumnberry" and prized by some for its food value. The fruit

is high in lycopene and other nutrients. It is being grown commercially in a few places for its food value, especially for making jams and jellies. It is considered an invasive plant in Indiana and should not be planted. Control is best achieved by cutting the plant and immediately treating the stump with a systemic herbicide such as glyphosate or triclopyr and a 20% concentration.

For more information visit our [website link](#).

Check our website for upcoming events & activities—

www.marionswcd.org

Walking in a Winter Wonderland

Walking in a Winter Wonderland -- is beautiful and great exercise but can be dangerous when ice builds up on sidewalks and streets. Traditionally, many people have used various types of salts to melt ice from walkways. They've worked fairly well, especially if it's not bitterly cold outside but they do have some negative environmental side effects. Many plants and trees are sensitive to salt and when salt runs off sidewalks and streets it enters our streams, creating water quality problems.

Many Indiana towns are using beet juice to help de-ice streets. A beet farmer in Illinois patented beet juice for this use in 2005 after finding that brown beet juice doesn't freeze -- even when temperatures plummet below 0 degrees F! Other ways to combat ice include:

- **Shovel -- early and often!**

Keeping snow off of sidewalks and driveways helps keep ice from building up. Check with your doctor before deciding whether to shovel snow yourself this winter or hire it done.

- **Snow melt mats** -- if you're building a new home, especially one with a steep driveway, consider installing electric heaters in your driveway. Yes, you'll use extra electricity, but it will make your driveway much safer.
- **Use sand or even birdseed** to give you some traction on sidewalks.
- **Wear boots or buy boot ice grippers/cleats** to put on your shoes to give you much better traction for walking

If you must use salt, calcium chloride is thought to be a better choice than sodium chloride or

potassium chloride. Urea is also not very environmentally friendly since you need to use ten times the amount you would need to fertilize the same area of lawn. Be sure to only use the recommended amounts and keep it away from salt sensitive plants and trees.



A winter walk is a great way to get out and enjoy nature - just prepare the way ahead of time



MARION COUNTY SOIL AND WATER CONSERVATION DISTRICT

Discovery Hall, Suite 200
1202 East 38th Street
Indianapolis, IN 46205

Phone: 317-786-1776
Find us on the web:
www.marionswcd.org

The Mission of the Marion County Soil & Water Conservation District is to assist Marion County land users in conserving soil, water, and related natural resources by providing technical, financial and educational services.

THANK YOU Supporting Affiliate Members!

Copper Members

Robert Eddleman Mark Kautz
Beth Mason Stephanie Schuck

Ruth & Paul Hayes, in honor of Eli Bloom & George Haerle

Nickel Members

Rick Bein George Haerle, in honor of Marilyn & Eli Bloom

Silver Member

Marion County Farm Bureau

10 Great Conservation Projects

Don't let the cold weather keep you down! Winter is a great time to plan and tackle new projects that will help the environment and improve your own health. Here are 10 conservation project ideas to get you started:

- 1) Litter Clean-up.** Walk your neighborhood or park and pick up litter. Bring along gloves and a trash bag.
- 2) Recycle.** Clean out your home, garage, and basement to reduce, re-use and [recycle](#).
- 3) Prepare for the next Tox Away day.** While you're cleaning out, box up old paint and other toxic substances so you're all ready to take it in to be disposed of properly. Visit the [city's website](#) for days and locations where you can drop them off.
- 4) Plan a garden.** Grab a few library books and plan a vegetable garden. Draw up your plan to include conservation techniques including cover crops, companion plantings and a composting area.



Visit our website to learn about our [Soil Health program](#).

- 5) Shop seed catalogues and start seedlings indoors.** There are many great companies that provide seed and information on how to start your garden. Most of the companies bring out their new catalogues in December & January.
- 6) Take a winter hike** – visit a nearby county or state park. Call ahead and you may find an organized nature hike or bird watch group you can join.
- 7) Make a birdhouse.** There are many free plans online including those from the magazine [Birds & Blooms](#) and the [North American Bluebird Society](#).
- 8) Participate in Cornell University's bird count.** Set up a feeder, provide water and enjoy the show!
- 9) Create wildlife habitat.** Find ideas on the [National Wildlife Federation's](#) website.
- 10) Attend a film event sponsored by the Eastside Creation Care Network.** The lineup for the next few months is now being planned. Visit our [Events Tab](#) to find out where and when the next film will be shown.

SWCD Staff

Marilyn Hughes,
Administrative Assistant

Glenn Lange,
Resource Conservationist

Julie Farr, Resource Conservationist PT

Leslie White,
Backyard Conservation Coordinator

Kevin Allison,
Urban Soil Health Specialist

Jerod Chew,
NRCS District Conservationist



Conservation in the Neighborhood

VOL. 38, NO. 2

SUMMER, 2017

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Marion SWCD Welcomes Cheyenne Hoffa New Urban Resource Conservationist

The Marion County SWCD is pleased to welcome Cheyenne Hoffa to their staff! Cheyenne is a recent graduate from Purdue University's College of Agriculture where her studies and research focused on urban and agricultural stormwater, natural resource social science and science communication.

Cheyenne will head up the SWCD's stormwater pollution prevention program which

includes assisting contractors and developers of new construction sites to meet their stormwater pollution prevention plan (Rule 5) requirements. The Marion County



SWCD inspects new construction which disturbs more than 1 acre of land in order to ensure that sediment is not leaving the site and impairing the water quality in their watershed.

Cheyenne will be spending much of her time in the field. The easiest way to contact her is through our website: <http://marionswcd.org/contact-us/>

We've Moved!!!

The Marion County Soil & Water Conservation District has recently moved!!!

We are now located at 1200 S. Madison, Suite 200 Indianapolis, IN 46225. Our new office is co-located with the Indianapolis Department of Public Works. Our phone number remains the same

(317)786-1776.

As all of our staff members spend the majority of their

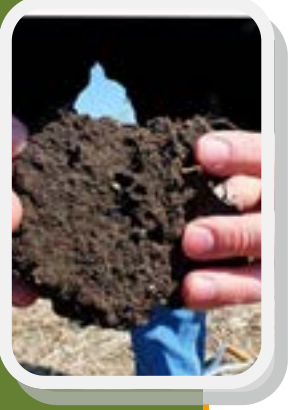
time working in the field, it is recommended that you call to make an appointment if you need to come in to the office for assistance. You can email any of our staff members by going to the "[Contact Us](#)" page of our website: www.marionswcd.org

For questions regarding our Soil Health Program contact Kevin Allison; for Rule 5 reviews contact Cheyenne Hoffa;

for drainage or other natural resource questions contact Julie Farr; for USDA-NRCS farm program questions contact Jerod Chew.

SWPPPs can be mailed to our new address or dropped off at the DPW front desk.

Soils Geography Class Offered



Hands-on learning happens during the class field trips.

“The SWCD highly recommends Dr. Bein’s Soils class for everyone who makes land use decisions for their home or business”

The Soils Geography Course is being offered at IUPUI this coming Fall Semester. It is taught by Professor Rick Bein who brings a great diversity to the soils from the tropics. It meets Thursdays at 6:00 – 8:40 PM starting Aug 24, 2017 in Cavanaugh Hall 203. Three options available:

- 1) G123 Soil Survey (1 credit, s# 258821), meets for the first five weeks and ends on 21 September. It includes one field trip.
- 2) G404 Soils Geography (3 credits, s#25822) will continue the entire semester until the evening of 7 December. There

will be 4 or 5 field trips.

3) G704 (3 graduate credits, s#25820) Geography of Soils will continue the entire semester with the last class on the evening of 7 December. There will be 5 field trips to surrounding counties.

To view options and be admitted as a visiting or non-degree student bring documentation of academic degrees to the registrar at IUPUI, contact the Admissions Center at <http://enroll.iupui.edu/admissions> or phone (317) 274

4591. For walk-in admissions information and assistance with registration go to Admissions Center, 255 Campus Center, 420 University Blvd. For further course information contact: Dr. Rick Bein - Phone: (317) 274-1100; Department (317) 274 8877; Fax: (317) 278-5220 [\[rbein@iupui.edu\]](mailto:rbein@iupui.edu) IUPUI, Cavanaugh Hall, Room 213D, 425 University Blvd, Indianapolis, IN 46202.

STEM Farm

The Marion County SWCD is partnering with the STEM Connection, a non-profit corporation, providing on the land experiences in Science, Technology, Engineering, Math on their 30 acre outdoor learning site at Moore Road Farm in the Traders Point Rural Historic District of Northwest Marion County.

The farm includes forest, Eagle Creek channel, fields of crops, an orchard and a soil health garden that are used to teach conservation to help protect our valuable soil and water resources.



Harold Thompson & helper working at the STEM farm

2017 River Friendly Farmer Award Winner

The River Friendly Farmer Award is a statewide initiative that recognizes farmers who do an outstanding job of protecting rivers, lakes and streams through their everyday conservation management practices on the farm.



Tim Dorsey of the CUE Farm at Butler University is one of these outstanding farmers, and the Marion County SWCD is proud to announce Tim as a 2017 River Friendly Farmer Award recipient!

Nestled between the White River and the Central Canal, the Butler Center for Urban Ecology Farm is located in the Upper White watershed. The diverse farm produces

mixed vegetables, fruits, nuts, herbs, flowers, and mushrooms and Tim’s mindset is soil regeneration and holistic farm management. He utilizes crop rotations, diverse cover crop tactics, mulching, minimal tillage and no-till, tarps, perennial plantings with diverse complimentary understories, all natural and organic inputs, native and targeted plantings for beneficial insects and pollinators, rain harvesting, and drip irrigation.

Over about 5 years, conservation practices that increase soil microbiological activity and in turn improve soil structure have been important to several benefits on the farm. Water infiltration has improved visibly. Increased activity has enabled greater available fertility which has made possible denser plantings which not only improve revenue opportunities but combat weed populations. Improved texture has even made common garden tasks like weeding and seed bed preparation easier and more effective. Cover crops serve as catch crops for nutrients and improve soil quality. Multiple plantings, on their own and as inter-plantings, of targeted flowering plants have dramatically increased predator/parasite beneficial insects and cut down on pest insect impact. The CUE Farm has also recently begun to see the presence of reptile life on the farm which could be attributed to the layered perennial cover available as habitat. Butler University also maintains

a managed prairie and riparian buffer adjacent to the farm.

The CUE Farm shares its commitment to conservation and local food production by engaging various communities. Tim regularly hosts tour groups that range from grade school children to various Butler University classes in which he talks about sustainable growing practices and goals. The CUE Farm has begun relationships with several Butler and IUPUI professors whose classes will be working on research modules. These will range across several disciplines, and are not confined to the hard sciences. This fall, the CUE Farm will host a screening of a film exploring the intersections between agriculture and human sustainability as part of the Up Up Farm! series being presented by the Hoosier Young Farmers Coalition. Last fall and each year going forward, the farm is honored to play host to a breakout session of the Future Farmers of America conference, the largest that Indianapolis hosts, during which they engage young people, many of whom have not been exposed to many elements of urban farming and sustainability. Tim also participated in the 2016 Wisconsin Urban Farm and Restoration Agriculture tour offered by Purdue Extension and has been instrumental to the SWCD and USDA-NRCS soil health initiative through his sharing of knowledge and hands-on experience with conservation and plant diversity.

Beautiful Lupines are used at the CUE Farm. It benefits the garden by fixing nitrogen in the soil.



River Friendly Farmer Tim Dorsey will be recognized by the Lieutenant Governor and leaders of the Indiana Conservation Partnership at this year’s Indiana State Fair. Well done Tim! The SWCD looks forward to continue working with you in advancing soil health and water quality!



Visit Pathway to Water Quality

Celebrating 25 years at the Indiana State Fair!



Visit Pathway to Water Quality at the state fair August 4 - 20, 2017

This year Pathway to Water Quality celebrates 25 years at the Indiana State Fairgrounds. Since it opened in 1993 on the northeast side of the fairgrounds, thousands of youth and adults have taken the path of the water drop through a model watershed that includes both rural and urban land uses such as woodland, cropland, prairie plantings, wetlands, pastureland, and more.

The idea behind Pathway is to explore the many ways people can do simple things each day to improve our water quality. From slowing down rain water as it leaves the roof, to using fertilizer according to directions, to keeping the septic system in good repair, to keeping our soil covered at all times—everyone can do something.

Whatever your age, there's something for you. You can grab a cool drink of water from our 30 foot well, learn about rain gardens and pervious concrete, spin the wheel of conservation, sit in the shade of our native trees, or have your photo taken with Walter the Water Drop and Sally Soil.



Come help us celebrate 25 years of success at Pathway August 4th through the 20th!



The exhibit is managed by the Indiana Conservation Partnership – eight agencies/organizations that work together to promote conservation and provide direct assistance to private landowners in the state.

<http://icp.iaswcd.org>

Stop That Dirt Campaign



Sediment is our county's #1 pollutant by volume - Help us Stop That Dirt!

Pollution of Marion County waterways comes from a variety of sources: industrial sites, combined sanitary and storm-water sewers, failing septic systems, agricultural and urban landscapes. These sources produce pathogens (such as E. coli bacteria); excess nutrients (phosphorus and nitrogen); excess sediment (soil); and, farm and landscaping chemicals and other toxic materials. The City of Indianapolis and Citizens Energy Group (sanitary sewer system operator) have made progress in dealing with some of these pollution issues. One of several advances in curbing pollution can be found in the cooperation between the Mari-

on County Soil and Water Conservation District (MCSWCD) and the City of Indianapolis in curbing excess sediment from construction sites.

By volume, sediment is the greatest pollutant entering our surface waters. With the county largely devoted to urban uses, construction sites are numerous. In fact, at any point in time throughout the year, there are often more than 100 construction sites of 1 acre or larger in size of land-disturbing activities. As stormwater flows over these bare soil areas, sediment laden water can easily flow into storm sewers and/or directly into our waterways.

The MCSWCD has been working directly with the City of Indianapolis Departments of Public Works and the Office of Business & Neighborhood Services for many years now to provide Storm Water Pollution Prevention Plan review for publically funded projects, on-the-ground inspection services, and assistance in training city employees, project managers and contract project inspectors.

While we work with city officials and contractors in making improvements, residents can play a role in assisting those efforts. We have added to our web site a "Stop That Dirt" campaign to make it easier to report construction site problems of sediment laden water leaving those sites. As you travel the county, please observe the construction sites you see and look for mud tracking on streets and chocolate-colored water running off these areas during rain events. Visit our web site – watch our video – and contact us when you see problems.

Contact our new SWCD Urban Resource Conservationist **Cheyenne Hoffa** regarding erosion control practices for construction sites.

marionswppp@iaswcd.org

Thank you Paula & Tom!

A HUGE "Thank You" to SWCD Associate Supervisor Paula Baldwin and her husband Tom for donating their Trooper to the Marion County SWCD!!!! Our staff puts many, many miles on our vehicles each year as we assist land-owners and check construction sites for erosion control all over the county, so having reliable transportation is extremely important to us.

Paula is a long time supporter of the SWCD who was a very active regular Supervisor for many years. We appreciate her continued dedication to the SWCD and this generous gift.



Support the Marion County SWCD by becoming an Affiliate Member.

For information check our website: www.marionswcd.org or email julie-farr@iaswcd.org

Fall Tree Sales



Neighboring SWCDs are hosting tree sales this fall.

The Marion County SWCD will NOT be hosting a fall tree sale this year but some of our neighboring SWCDs are. Please consider supporting these SWCD's conservation work by purchasing trees & shrubs from them!

Hamilton County SWCD

Hamilton County SWCD will be accepting native tree orders starting in mid-July.

Orders are accepted online or via mail through September 28th. Order pick up will take place Friday, October 6th in Noblesville. Over 30 species of native shrubs and trees are available in 3 gallon containers for ~\$25/tree. A full species availability list and online ordering will be available in mid-July. More info is available at www.hamiltonswcd.org/treesale.html

Hendricks County SWCD

Hendricks County will be holding a tree sale. Orders are due by Sept. 20th. Check their website soon for details:

hendricksswcd.sdf.org

Invasive Highlight: Dames Rocket

Dame's Rocket was introduced to North America as an ornamental in the 1600's but has since become an invasive species.



Minnesotaseasons.com

Invasive Dame's Rocket plants are spreading across Indiana. If you haven't seen them yet, they are on the way. Dame's rocket is native to Eurasia but was introduced to North America in the 1600's as an ornamental but soon escaped into natural areas. This plant is usually found in woodlands, on woodland edges, along roadsides, and also in open areas displacing native plants. In woodlands the competition for moisture and nutrients inhibits tree seedling growth. It is normally a biennial having a basal rosette the first year from seed and growing a flower stalk the second and sometimes succeeding years. The first year rosette stays green all winter. It grows 2 to 3 feet

tall and blooms from May to September. Seeds are produced in long wiry seed pods over the summer. Hundreds of seeds are produced from each plant and stay viable in the soil for many years. Seeds are transported to new location by equipment, animals and human shoes. This results in extensive stands. Hand pulling is an effective control in small patches.

Large infestations are best controlled by foliar spray of the rosettes with glyphosate or triclopyr in early spring or late fall to avoid damage to desirable plants. More information on identifying & controlling invasives can be found on our website: <http://marionswcd.org/invasive-species/>



Southeast Wisconsin CWMA

Don't miss the White River Celebration!



**Mark your calendar!
Sept. 26th**

The White River Celebration & Stewardship Fundraiser is quickly approaching! You won't want to miss this year's event that includes a NEW twist to the team art building element of the event. Instead of building masterpieces from river trash, this year each team will paint and decorate a themed canoe! Canoe 'themes', as well as art supplies, will be auctioned off via live auction during this creative fundraiser. The resulting

team-created artistic canoes will be displayed as public art and then returned to White River Canoe Company's active fleet next Spring. Staff and board members are finalizing details for registration, but in the mean time you can start building your team. Join us for a creative, interactive event to recognize exceptional river stewards and support our efforts to promote and protect our water resources.

The celebration will be held at the Biltwell Event Center in Indianapolis on Tuesday, September 26, from 5:30 to

8:30pm. Registration information will be coming in the next few weeks. Get a team together, support the Festival! Consider being a sponsor of the White River Celebration & Stewardship Fundraiser. The Alliance is seeking sponsors for this exciting and fun event. For information about becoming a sponsor, contact Jill at jill@thewhiteriveralliance.org.

Learn more about the White River Alliance at their website- <http://thewhiteriveralliance.org/>

FSA Nominations Now Open

The nomination period for the Johnson/Marion County FSA County Committee opened on June 15, 2017. Nomination forms must be postmarked or received in the Johnson/Marion County FSA Office by close of business on Aug. 1, 2017.

County committees are unique to FSA and allow producers to have a voice on federal farm program implementation at the local level.

To be eligible to serve on the

FSA county committee, a person must participate or cooperate in an agency administered program, be eligible to vote in a county committee election and reside in the Local Administrative Area (LAA) where they are nominated. All producers, including women, minority and beginning farmers and ranchers are encouraged to participate in the nomination and election process.

This year, nominations and

elections will be held in LAA 2, which includes Franklin, Needham and Union Townships in Johnson County and LAA 4 which includes the NE 1/2 of Marion county drawn on a diagonal from the Southeast to Northwest corners of the county including the NE 1/2 of Franklin, Pike and Center townships, Lawrence township, Warren township, and Washington township.

For more information call the FSA office at 317-736-6822.



1200 S. Madison, Suite 200
Indianapolis, IN 46225

Phone: 317-786-1776

Find us on the web:
www.marionswcd.org

The Mission of the Marion County Soil & Water Conservation District is to assist Marion County land users in conserving soil, water, and related natural resources by providing technical, financial and educational services.

THANK YOU Supporting Affiliate Members!

Paul Wright Hayes and Ruth Rosser Hayes in honor of:

- George Harley
- Glenn Lange
- Marilyn Hughes
- Eli Bloom Memorial

**George Haerle and Marion Haerle
Stephanie Schuck**

Project Learning Tree & Go FishIN News

GreenWorks! Grants

Project Learning Tree is now accepting applications for the next round of PLT GreenWorks! grants. Schools and community programs that wish to improve the environment are encouraged to apply. Grants up to \$1,000 are available and funding will be distributed in January 2018. You must have attended a PLT professional development workshop either in person or online to be eligible to receive a grant. Application is available at www.plt.org/news/greenworks-grants-now-available/

Natural Resources Teacher Institute

The fourth Natural Resources Teacher Institute was held June 26-30. With Morgan-Monroe State Forest as the base, 18 educators from all around Indiana learned about Indiana's forest resource, the forest products industry, and forestry research being conducted at the Hardwood Ecosystem Experiment (HEE). Each participant was required to develop a lesson plan based on what they learned

during the week. Many participants have said that this program is the best professional development they have ever attended! Look for upcoming information on the 2018 Natural Resources Teacher Institute.



Go FishIN

To wrap up the summer, we will run the 12th annual State Fair Fishing Pond from Aug. 4 – 20. Come join the hundreds of volunteers already signed up and help bring joy to our young future anglers. Plus, you get free admission to the State Fair. What more could you ask for? How about being right next to the Walleye food stand? Don't worry, we have that covered too. Contact Cody Herring at dherring@dnr.in.gov or (317) 232-3146 for more info or help registering to volunteer.

SWCD Staff

Kevin Allison,
Urban Soil Health
Specialist

Julie Farr, Resource
Conservationist PT

Cheyenne Hoffa,
Resource
Conservationist

Harold Thompson-
Soil Health, PT

Jerod Chew,
NRCS District
Conservationist



Conservation in the Neighborhood

VOL. 38, NO. 3

AUTUMN, 2017

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Organic Nutrients and Soil Building on Small Farms

November 30, 2017 in Indianapolis

The Marion County SWCD invites you to join fellow growers for nutrient management training and discussion led by Nathan Boone of Boone Family Farms and Dan Perkins of Perkins' Good Earth Farm.

Learning objectives include soil and crop suitability, soil testing, nutrient budgeting, fertility, crop rotation and cover crops, compost, manure, soil amendments and fertilizers, all backed by years of on-farm practical experience with considerations for sourcing, time management, costs and benefits.

Location	John Boner Neighborhood Center 2236 East 10th Street Indianapolis, IN 46201
Parking	Free parking located behind the center and on nearby streets.
9:00 - 9:20	Coffee and Registration
9:20 - 12:00	Nutrient Management Training
12:00 - 1:00	Lunch Provided
1:00—2:00	Nutrient Management Training



REGISTRATION INFORMATION

Advanced registration is required at:

<https://www.eventbrite.com/e/organic-nutrients-and-soil-building-on-small-farms-tickets-38290925188>

Registration Fee is \$8. Includes light refreshments and lunch. Registration closes **November 15** and is limited to the first 45 registrants. Please limit 3 per organization.

Contact the Marion County SWCD for questions or assistance: kevin-allison@iaswcd.org / 317.786.1776
The Marion County SWCD and USDA are equal opportunity providers and employers.

The venue is wheelchair accessible.



Join us Tuesday,
February 20th for our
47th Annual Meeting

“Be proactive by identifying areas that will be subject to concentrated flow during snow melt or winter rains.”



Save the Date!

Marion SWCD Annual Meeting: February 20, 2018

Please plan to join us on Tuesday, February 20th as we celebrate 48 years of conservation in Marion County!

Come meet our new Resource Conservationist Cheyenne Hoffa; hear

about the great strides that have been made by our Soil Health Program staff and learn something new from our informative guest speakers. Plans are underway!

We will be in a new location so be sure to check back with us soon! Updates will be posted on our website and a formal invitation will be sent to your email. Please contact us with any questions.

Erosion Control for Winter Construction

By Cheyenne Hoffa, Resource Conservationist

Controlling erosion and sediment on construction sites is a year-round battle. With winter right around the corner, the snow and ice that is to come will give the soil on site a break from active construction and rainfall. Once spring rolls around, you will be sure to see many of the erosion control practices in place failing due to snow and ice melt, which can produce high volumes of runoff.

What can contractors do to prevent practices from failing and falling out of compliance with Rule 5?

Erosion control blankets and mulching:

Stabilization is the most important erosion control measure. Keeping soil in its place prevents sediment control failure down the line. The more soil that is stabilized on the ground, means less that piles up behind a silt fence, rock check dam or other sediment control devices that are subject to maintenance and failure. While stabilizing the ground before the cold winter weather hits is preferred, seeding with a winter mix and applying mulch can help reduce erosion after most seeding dates have passed. The optimum time to conduct frost seeding is in late winter to early spring after the snow is

gone but while the ground is still frozen. In Indiana, frost seeding should occur from **February 1st to March 15th**. Using erosion control blankets, straw mulch or hydromulching are all great options to stabilize your job site and protect the soil before construction slows down in the winter season.

Identify problem areas: Be proactive by identifying areas that will be subject to concentrated flow during snow melt or winter rains. Performing the required self-inspections can help to identify those problem areas and can guide you to make positive changes to your erosion control plan. By identifying areas that may fail, you can take steps to prevent noncompliance issues.

Ask for help: If you are concerned that your site isn't prepped for winter, give us a call at (317)-786-1776 and we can provide assistance and information about how to comply with Rule 5.

What can citizens of Marion County do to protect water resources from construction site runoff?

If you see sediment or sediment laden water coming from a construction site in your area, give us a call at (317)-786-1776 to help us [Stop that Dirt](#).



Online Registration Now Open

Prefer to register by mail? [Download the registration form.](#)

Please join us December 7-8, 2017, for the second National Conference on Cover Crops and Soil Health in Indianapolis. This meeting will be a great opportunity to learn recent developments in how cover crops are being used by innovative farmers across the country and gain important insights on improving soil health from producers, conservation leaders, and scientists. Whether you are contemplating cover crops for the first time, or you have years of experience and want to interact with soil health and cover crops innovators, this program will provide you with valuable information, networking, and learning opportunities.

The conference is intended for anyone interested in the practical use of cover crops and soil health improvement, including farmers; conservation agents; certified crop advisers (CCAs) and agribusiness staff; and university, nongovernmental organization (NGO), and agency representatives.

Headliners for the conference include: * Keith Berns, a nationally known Nebraska farmer on the topic of carbonomics

- David Montgomery, a geologist and popular author on soils and erosion, whose latest book is titled *Growing a Revolution: Bringing Our Soil Back to Life*
- Dan DeSutter, a grain farmer from the central Corn Belt and a long-time no-tiller and cover crop user
- Trey Hill, a grain farmer from the eastern Corn Belt and also a long-time no-tiller and cover crop user
- Jimmy Emmons, a rancher and grain farmer from the Southern Plains, who grazes cover crops

Over 40 presenters, nearly half of them farmers with years of cover cropping experience, will be speaking in a variety of informative breakout sessions including: introduction to cover crops; advanced practices such as planting green and interseeding, grazing cover crops, managing herbicide resistant weeds with cover crops, use of cover crops in horticulture and organic operations; and latest approaches on measuring soil health, building soil organic matter, and understanding soil biology. There will be six breakout tracks available for participants to choose from including:

- Basics of Cover Cropping
- Advanced Cover Cropping Insights from Farmer Experts
- Diving into Soil Health
- Cover Crop Role in the Cropping System
- Impacts of Cover Crops on Economics/Environment
- Special Topics with Cover Crops and Soil Health

Providing an opportunity for networking with speakers and service providers is a priority for the conference, and the exhibit hall will be designed to allow participant interaction with equipment, seed, and service providers important to practical cover crop and soil health implementation. Optional farm tours near Indianapolis will also be available on the second afternoon following the conclusion of the main conference program.

Support the
Marion County
SWCD by
becoming an
Affiliate Member.
For information
check our website:
www.marionswcd.org
or email juliefarr@iaswcd.org

Contact District
Conservationist
[Jerod Chew](#) for
more information
on EQIP incentives



Indiana NRCS Announces EQIP Application Deadline

Indiana's agricultural producers who want to improve natural resources and address concerns on their land are encouraged to sign up for the Environmental Quality Incentives Program (EQIP) through the USDA-Natural Resources Conservation Service (NRCS). Jane Hardisty, NRCS State Conservationist, announced that December 15, 2017 will be the EQIP application deadline in Indiana.

"While we take EQIP applications throughout the year, applications received after December 15th will be considered in future announced application rounds. I encourage producers with resource concerns on their land to submit an application by the deadline," Hardisty explains.

EQIP is a voluntary conservation program available for agricultural producers. Through EQIP, NRCS provides financial and technical assistance to install conservation practices that reduce soil erosion and sedimentation, improve soil health, improve water and air quality, and create wildlife habitat.

Many applicants are interested in using funds to address soil erosion and water quality issues on their land; however, funds are also available for pasture and grazing land, confined livestock operations, organic producers, drainage water management, invasive plant control, and wildlife habitat improvement. Also included in this sign up are several state and national initiatives including:

- National Organic Initiative: NRCS provides financial payments and technical assistance

to help producers implement conservation measures in keeping with organic production. Beginning, limited resource, and socially disadvantaged producers may obtain additional assistance.

- National On-Farm Energy Initiative: NRCS provides agricultural producers with technical and financial assistance that quantifies how energy can be used more efficiently to reduce input costs, increase productivity and reduce air pollutants and greenhouse gas emissions. This initiative only offers assistance for 128 Conservation Activity Plans-Ag Energy Management Plans (AgEMPs) and certain energy conservation practices.

- Monarch Butterfly Habitat Development Initiative (EQIP): The Monarch Butterfly Habitat Development Project is a multi-state effort focused on increasing monarch habitat on private lands through plantings of milkweed and nectaring forms as well as managing pesticide use in proximity to monarch habitat.

Working Lands for Wildlife Initiative (EQIP): The goal of this initiative is to convert tall fescue and other non-native forages to native grasses and forbs and develop prescribed grazing plans to address the habitat needs of bobwhite quail and associated grassland/shrub land species. This category is available statewide on land which overlaps one of the Indiana DNR C.O.R.R.I.D.O.R.S. priority areas.

In addition, EQIP offers financial assistance for payment of practices and conservation activities involving the development of plans appropriate for the eligible land. The conservation practice associated with plan development is known as a Conservation Activity Plan (CAP). EQIP applications for CAP are not required to be submitted by December 15th;

they may be submitted, accepted and considered for funding at any time. Funding is based on dollars available and meeting eligibility requirements.

Producers interested in EQIP should submit a signed application through our local NRCS District Conservationist, Jerod Chew, [317-745-2555](tel:317-745-2555) or jerod.chew@in.usda.gov. Applications submitted by the December 15th deadline will be evaluated for the funding period submitted. Participants in EQIP

must meet eligibility requirements. NRCS staff will work with producers to determine eligibility and complete necessary worksheets and rankings in order for the applicant to compete for funding.

For more information about EQIP and other technical and financial assistance available through Indiana NRCS conservation programs, visit <http://www.nrcs.usda.gov/wps/portal/nrcs/main/in/programs/financial/eqip/> or contact Marion County's District Conservationist Jerod Chew.

Deadline approaching to apply for CORRIDORS habitat program

Landowners interested in establishing wildlife and pollinator habitat may want to consider participating in DNR's CORRIDORS initiative. Applications must be received by Dec. 15. CORRIDORS is an acronym for Conservation on Rivers & Roadways Intended to Develop Opportunities for Resources and Species. Songbirds, gamebirds, cottontail rabbits, butterflies and bees are among the species that will benefit from the DNR Division of Fish & Wildlife (DFW) program to improve wildlife and pollinator habitat.

CORRIDORS focuses on four priority areas in the state:

Indiana State Wildlife Action Plan Conservation Opportunity Areas; rights-of-way on interstates and state and federal highways; 100-year floodplains of rivers; and areas next to a body of water.

Qualifying landowners are eligible for technical and financial assistance. To get started, contact your DNR landscape or district wildlife biologist. A map with contact information is at www.in.gov/dnr/fishwild/2716.htm.

The U.S. Department of Agriculture's Natural Resources

Conservation Service, a CORRIDORS partner, will provide technical and financial assistance to private landowners through its Environmental Quality Incentive Program (EQIP).

Dec. 15 is the application deadline for landowners to be considered for EQIP funding for CORRIDORS projects in the next round of funding.

If you aren't a landowner but want to support the program, you can do so by spreading the word about the initiative and supporting DFW by purchasing licenses and a Gamebird Habitat Stamp. For more information, visit www.in.gov/dnr/fishwild/9405.htm



SEED, the Untold Story

Friday, November 17th, 7:00 p.m.
Downey Avenue Christian Church
111 S. Downey Ave.
Indianapolis, IN

Few things on Earth are as miraculous and vital as seeds. Worshiped and treasured since the dawn of humankind. SEED: The Untold Story follows passionate seed keepers protecting our 12,000 year-old food legacy. In the

last century, In a harrowing and heartening story, these reluctant heroes rekindle a lost connection to our most treasured resource and revive a culture connected to seeds.

This showing of SEED is sponsored by the [Eastside Creation Care Network](http://www.eastsidecreationcare.org/).



FSA Reporting Deadlines



Stephen Kirkpatrick, NRCS

For more information contact our FSA office at 317-736-6822

In order to comply with FSA program eligibility requirements, all producers are encouraged to visit your local county FSA office to file an accurate crop certification report by the applicable deadline. Noninsured Crop Disaster Assistance Program (NAP) policy holders should note that the acreage reporting date for NAP covered crops is the earlier of the dates

listed below or 15 calendar days before grazing or harvesting of the crop begins. The following acreage reporting dates are applicable for Indiana:
January 2 - Honey

January 15 - Apples

July 15 - Cucumbers (Planted 5/10-6/15 in all counties), all other crops

September 30 - Value Loss and Controlled Environment Crop (for the coming program year)

November 15 - Perennial Grazing and Forage Crops (alfalfa, grass, mixed forages, clover, etc.)

December 15 - Fall-Seeded Wheat and Small Grains

The following exceptions apply to the above acreage reporting dates:

- If the crop has not been planted by the above acreage reporting date, then the acreage must be reported no later than 15 calendar days after planting is completed.
- If a producer acquires

additional acreage after the above acreage reporting date, then the acreage must be reported no later than 30 calendar days after purchase or acquiring the lease. Appropriate documentation must be provided to the county office.

- If a perennial forage crop is reported with the intended use of "cover only," "green manure," "left standing," or "seed," then the acreage must be reported by July 15th. Cucumbers and crops for NAP coverage may have dates not included on the chart above. Visit your local county office for details. For questions regarding crop certification and crop loss reports, please contact our FSA office. (317)736-6822.

Invasive Highlight: Black Alder

Typical Seed Cone



Photos from IllinoisWildflowers.info

The Black Alder, native to Europe, Asia and North Africa, is a most picturesque of water-loving trees, with its dark green, round or oblong leaves glutinous when they unfold in the spring. The trees are tall and erect, with dark trunks. **However it is very invasive along Indiana streams and should not be planted. It spreads rapidly by**

seed as well as by shoots from the roots. Readily colonizes and eliminates native trees which have much greater value for wood products. Control by basal bark treatment for larger trees or foliar spray for young shoots. Follow label directions. For more information on

invasive species check out our website pages: <http://marionswcd.org/invasive-species/>



Dept. of Ag Launches “One Stop” Story Map



Improving water quality and soil health continues to be a priority for farmers statewide, and while data has always been available to support this claim, it hasn't been accessible in one, easily navigable location. To address this issue, the [Indiana State Department of Agriculture \(ISDA\)](#), using information compiled by the Indiana Conservation Partnership (ICP), launched today an online [story map](#), a one-stop shop for Indiana's conservation efforts.

"All across the state, farmers, organizations and agencies are stepping up their efforts to conserve our soil and water resources, and it's important that we not only tell that story, but also highlight where it's working in Indiana," said Melissa Rekeweg, ISDA interim director. "This new resource will allow us to do that more effectively."

Located on the ISDA website, the interactive conservation story map organizes information by Indiana's 10 main river and lake basins, which are then broken down by watershed. Each basin includes sections on water quality and soil health that encompass everything from total acres of cover crops planted to sediments prevented from entering Indiana's waterways.

For example, according to the story map, more than 300 million pounds of sediment was reduced last year in the West Fork White River Basin. That's enough sediment to fill 1,518 freight cars, which if placed end to end would stretch 14 miles. This information and much more can be found by exploring the story map's various tabs.

"These new story maps are an important tool in helping us tell the story of conservation efforts here in Indiana," said Jane Hardisty, USDA's Natural Resources Conservation Service State Conservationist. "They showcase the remarkable job that our partnership staff and farmers are accomplishing together to improve agricultural operations while helping the environment."

In addition to historical and geographical information, the story map also showcases some of the voluntary conservation efforts currently taking place by the basin's rural, urban and suburban residents, as well as organizations and initiatives operating locally. This might include landowners planting a filter strip, farmers building a two-stage ditch or a soil water conservation district hosting a field day, just to name a few.

Information on where the Indiana Department of Environmental Management (IDEM) conducts water quality monitoring throughout the state is also available, and farmers and conservationists can find basin-

specific resources, tools and programs listed under the education tab.

"IDEM is proud to be a partner of the ICP and to share water quality data. By coming together with other like-minded organizations, IDEM is at the table to strengthen its stewardship goals," said IDEM Commissioner, Bruno Pigott.

For more information, or to access the conservation story map, visit www.isda.in.gov/2991.htm.

Learn more about water quality, conservation efforts, soil health & more at the [Story Map website](#)





1200 S. Madison, Suite 200
Indianapolis, IN 46225

Phone: 317-786-1776

Find us on the web:

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THANK YOU Supporting Affiliate Members!

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- George Harley
- Glenn Lange
- Marilyn Hughes
- Eli Bloom Memorial

**George Haerle and Marion Haerle
Stephanie Schuck
Dennis Slaughter**

District Provides a Variety of Services

The Marion County Soil & Water Conservation District provides a wide array of services to the residents of our county. Our primary goal is to provide high quality technical resource management and conservation assistance to help landowners make wise land use decisions. The following is a sample list of the types of assistance we provide:

Erosion and Sediment Control

Construction Site Inspections
Private Land Assistance

Green Space Management

Soil Health Consulting & Programs
Backyard Habitat
Conservation Planning

Watershed Management/Drainage

Drainage Assistance for Private Landowners
Planning Improvements
Rain Barrel, Bioswale & Rain Garden Promotion
ISDA & USDA Farm & Watershed Program Assistance

Education

Workshops
Newsletters
Factsheets
Website

Follow us on our new Facebook page!



For more information please contact our office staff at (317)786-1776 or email us from our website:

<http://marionswcd.org/contact-us/>



SWCD Staff

Kevin Allison,
Urban Soil Health Specialist

Cheyenne Hoffa,
Resource Conservationist

Julie Farr, Resource Conservationist PT

Harold Thompson-
Soil Health, PT

Eliana Blaine-
Soil Health, PT

Jerod Chew,
NRCS District Conservationist



Conservation in the Neighborhood

VOL. 38, NO. 1

WINTER, 2017

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Marion SWCD Annual Meeting

Tuesday, February 28th, 5:00 p.m.

The Marion County Soil & Water Conservation District invites you to attend their 47th Annual Meeting on Tuesday evening, February 28th from 5:00 to 7:00 p.m. The meeting will be held in the 3rd Floor conference room of Discovery Hall in the northwest corner of the Indiana State Fairgrounds. Refreshments will be served and the meeting is free.

with the Peace Corps and joined the master's program in Purdue's Department of Agricultural Economics to further my knowledge of agricultural



Caption describing picture or graphic.

Our speaker will be the new Food Policy Coordinator for the City of Indianapolis, Shellye Suttles. Shellye was born and raised in Los Angeles, California. She attended the University of Southern California as an undergraduate student and completed a bachelor's degree in Environmental Studies Biology. After graduation, she joined the Peace Corps as a sustainable agriculture and livestock volunteer in Santa María Visitación, Sololá, Guatemala working in conjunction with Children's Fund.

Shellye relates, "I very much enjoyed my agricultural volunteer service

issues with an emphasis on economics. My master's thesis focused on gender differences in business goals and management strategies of family business managers in the United States and Canada. After completion of my master's degree, I continued in the department's doctorate program as a United States Department of Agriculture (USDA) National Needs Fellow in the Economics of Alternative Energy. After completing

my doctoral dissertation, I joined the USDA's Economic Research Service (ERS) as an agricultural economist in the Rural and Resource Economics Division. At ERS, my research focused on food and agricultural policy pertaining to local food systems, energy, and climate change. Upon returning to Indiana I felt it was important to become involved in food security beyond academic research and joined the City's Office of Public Health and Safety as Food Policy and Program Coordinator."

In addition to hearing about Shellye's work we will also have presentations highlighting the SWCD's work this year including updates on the Soil Health program.

Please email Julie or Kevin to let us know if you plan to attend.

Spring into Our Soil Health Program



Soil health improvements create vigorous plant growth

“Getting outside and making plans for spring will help fight cabin fever and give you a great start on your spring planting.”

Set out a bird feeder to attract winter birds to your yard



Urban farmers & gardeners are learning how to improve their yields and increase plant vigor by incorporating soil health techniques into their plans. Success stories are flowing in from those who have benefited from them in the last

two years since the pilot project was started. See the story on page 3 as an example.

This year Kevin Allison, our Soil Health Specialist will be spreading the word even farther by creating a web-

site and blog on soil health. Watch your email for updates! If you have specific questions on soil health be sure to contact Kevin. More information is available on [our website](#) and [from NRCS](#).

Winter Lawn & Garden Activities

Don't let the snow and cold weather keep you from your lawn and garden! Getting outside and making plans for spring will help fight cabin fever and give you a great start on your spring planting.

January is the time for perusing through all of the wonderful seed catalogues! Order early to be sure you can get the varieties you want most. If you're not already on their mailing list, contact a number of seed companies. Some of my favorites include Seed Savers Exchange, Baker Creek Heirloom Seeds, R.H. Shumway's, and Territorial Seed Company. Gardens Alive is an Indiana company that specializes in natural lawn and garden products.

Take a cruise through your garden area and make a sketch to help you plan for this year. Rotate where you

plant (i.e. plant corn where the peas were last fall) to benefit from soil nutrients and minimize disease and insect problems. Plan what to grow, spacing, arrangement (study up on companion planting) and number of plants needed. If you have young trees, check them for signs of rodent injury on lower trunks. Protect them if needed with hardware cloth or protective collars. Protect plants from road and sidewalk salt.

Hopefully you had your soil tested this fall in order to plan for soil amendment needs this spring. If your pH is low you can add wood ash from the fireplace to your garden area. Soil testing will save you money as you won't be putting down unnecessary amounts of fertilizer and will also be better for water quality and the environment. If you haven't gotten your soil tested, it's still not too late by taking advantage of a January thaw.

Early spring flowering trees & shrubs can be forced into bloom indoors by putting cut branches in water in a warm location. Early spring crop seed such as broccoli, cauliflower & cabbage can be started indoors in February. Seeds should be started 5 to 7 weeks before transplanting.

If you have bare areas in your yard, frost seeding can give you an opportunity to use the freeze/thaw action of the soil to prepare grass seed for early germination as soon as the soil temperatures rise enough. Make plans to incorporate natural, ecologically friendly lawn methods by visiting our website's lawn & garden page. Spend some time at our website (www.marionswcd.org). We have a plethora of articles and helpful information for all of your land use needs.

“It’s simple, when youth grow vegetables, they tend to eat them!”

Kathy Tierney, Registered Dietitian
Damar Services, Inc., Indianapolis

Soil Health Hero

In the fall after a tough season, Kathy and the Marion County SWCD planted cover crops to regenerate the soil. In the spring, she cut and laid them on top of the garden beds. She added compost and fertilizer with guidance from a soil test, sowed and transplanted crops, then fortified the no-till mulch garden with clean alfalfa hay.



Cover crop use was so successful that Kathy continued its use with another planting in fall. Damar enjoyed a significant increase in vegetable production and dramatically fewer weeds, attributed to the use of the beneficial practices of planting cover crops, mulching and minimal soil disturbance.

Damar Services, Inc.

Size: 14 wood-framed raised beds
Type: School garden
Practices: Cover crops, mulch, no-till
Benefits: Enhanced soil health, moisture retention and weed control



Cover crops are planted in Damar’s garden in fall. Some cover crops live throughout the winter, providing living, beneficial roots in the soil in spring.



Once cut, cover crops can be applied as a mulch to help retain water, improve water quality and add nutrients back into the soil.



www.marionswcd.org

New Grants Fund Marion County Conservation



New grant funds target urban agriculture conservation & soil health work

Visit the Johnson/
Marion County
FSA office for
information on
applying for
certification
reimbursement

The District has been successful in securing two grant funding sources in 2016. In July 2016, the District was one of 42 projects awarded to various SWCDs across the country through the National Association of Conservation Districts (NACD) Urban Agriculture Conservation Grants program. The NACD established the grant program to help conservation districts and their partners provide technical assistance for agriculture conservation, especially in underserved communi-

ties. Marion County SWCD was awarded \$50,000 through the program, which will be used to develop a website devoted to Soil Health, provide funding support for permaculture template designs for vacant lots, and a variety of outreach activities tied to improving the health of our soils. The work funded through the grant will be completed by August 2017.

Additionally, the District was one of 34 districts statewide to be awarded funding through

the 2017 Clean Water Indiana Competitive Grant program. Marion County was the lead applicant with our partners at the Hendricks County SWCD and the total grant award of \$80,000 will be utilized to fund a Program Outreach Specialist in Hendricks County for the Soil Health program in addition to a cost share program for the two counties. The grant implementation timeline is January 2017 through December 2019.

Organic Certification Reimbursements

The U.S. Department of Agriculture (USDA) announces that starting March 20, 2017, organic producers and handlers will be able to visit over 2,100 USDA Farm Service Agency (FSA) offices to apply for federal reimbursement to assist with the cost of receiving and maintaining organic or transitional certification.

USDA reimburses organic producers up to 75 percent of the cost of organic certification, but only about half of the nation's organic operations currently participate in the program. Starting March 20, USDA

will provide a uniform, streamlined process for organic producers and handlers to apply for organic cost share assistance either by mail or in person. Eligible producers include any certified producers or handlers who have paid organic or transitional certification fees to a [USDA-accredited certifying](#) agent. Application fees, inspection costs, fees related to equivalency agreement/ arrangement requirements, travel/per diem for inspectors, user fees, sales assessments and postage are all eligible for a cost share reimbursement from USDA.

Once certified, producers and handlers are eligible to receive reimbursement for

up to 75 percent of certification costs each year up to a maximum of \$750 per certification scope - crops, livestock, wild crops and handling. This announcement also adds transitional certification and state organic program fees as additional scopes.

To learn more about organic certification cost share, please visit

www.fsa.usda.gov/organic or contact a local FSA office by visiting <http://offices.usda.gov>.



Organic growers may apply starting 3/20/17

New Clear Choices Clean Water Campaign



Don't Feed Waterfowl—their poo is fowl too!

Have you made a New Year's resolution to eat less and be healthier? Well, let's help our waterfowl do so too! *Clear Choices Clean Water* just launched its newest public action campaign to help prevent bacteria and algae in our waters – **Don't Feed Waterfowl, Their Poo is Fowl Too!**

You might not think feeding the ducks or geese and swans is a big deal, but it is! A single Canada Goose eats 3 - 4 pounds of grass and can create as much as 2 – 3 pounds of waste per day! Feeding waterfowl attracts a larger than normal population of waterfowl to an area. By attracting just 5 more geese to an area, potentially 10 - 15 more pounds of waste a day is added to that area. Excess waste can add excess nutrients and bacteria to our lakes and streams. Excess nutrients in the water can lead to summer algal blooms. The poo can also be harmful to humans. Waterfowl waste can present a fall hazard because of the slipper surface it can create. Goose poo has also been shown to contain a wide

variety of pathogens capable of infecting humans, including several parasites that can cause gastrointestinal problems. Geese and swans can be aggressive to humans if a nest is nearby. A population increase can also be detrimental to native plants and wildlife in and around lakes and streams. The mute swan eats 8 pounds of aquatic plants a day! The plants that the swans and geese eat rob other wildlife of important habitat.

So what can you do? It's simple! Visit

Indiana.clearchoicescleanwater.org/waterfowl and Take a Pledge to enjoy waterfowl **simply by watching and not feeding**. Invite your friends, family, and neighbors to take the pledge too! Or share your action to your social media accounts. Take a pledge and get on the map!

While it is cold outside, wild animals are adapted to changing seasons and providing them low nutrition food like bread on irregular schedules does not help them abide by their natu-

ral instincts to migrate or find reliable, nutritious food sources. Once the waterfowl realize that you are no longer going to feed them, their instincts will kick in and they will survive just fine by foraging on their own for food.

We would like to give a special thanks to [The Watershed Foundation](#) for their continued support and on-going partnership of *Clear Choices Clean Water*. And also a special Thank You to a Kosciusko County REMC EnviroWatts grant for helping to fund the creation of the waterfowl management pledge.

Support the Marion County SWCD by becoming an

Affiliate Member.

For information

check our website:

www.marionswcd.org

or email Julie-

farr@iaswcd.org

Purdue Urban Farm Incubator Network

The Purdue Urban Farm Incubator Network is a supportive network for new urban farmers. The network assists beginning urban farmers to:

- * Learn from and share your own knowledge with other beginning urban farmers
- * Meet experienced small-scale and urban farmers
- * Access professional development opportunities such as the Indiana Small Farm Conference
- * Explore market opportunities for your locally grown products
- * Applications now being taken – visit <https://www.purdue.edu/dffs/urbanag/programs/purdue-urban-farm-incubator/>



Apply for EQIP by January 20th.

Johnson Grass is a tall, coarse, aggressive perennial that has become an invasive in Indiana



EQIP Deadline Quickly Approaches

Indiana’s agriculture producers who want to improve natural resources and address concerns on their land are encouraged to sign up for the Environmental Quality Incentives Program (EQIP) through the USDA- Natural Resources Conservation Service (NRCS). Jane Hardisty, NRCS State Conservationist, announced that **January 20, 2017 will be the EQIP application deadline in Indi-**

ana. “While we are taking applications throughout the year, the first review of applications for funding will be for applications received by January 20th.”

If more funds are available after this date, there will be another review for additional applications. I encourage producers with resource concerns to submit an application by the application deadline.” Hardisty explains.

For more information or assistance in applying for EQIP funds please contact the Marion County SWCD District Conservationist, Jerod Chew at 317-745-2555 or email him from our [“Contact Us”](#) page.

Invasive Highlight: Johnson Grass

Johnson Grass was brought to the US from the Mediterranean area in the early 1800’s as a forage grass for livestock. It has spread world wide. It is a tall, coarse, perennial very aggressive grass with stout (up to 3/4 inch in diameter) rhizomes. It grows in dense clumps to nearly solid stands. This species occurs in crop fields, pastures, abandoned

fields, rights-of-way and forest edges, and along stream banks. It thrives in open, disturbed, rich, bottom ground, particularly in cultivated fields. Heavy river-bottom infestations can reduce corn or soybean yields to only a few bushels per acre. The best control is to spray the plants when they are about 18 inches in height and in the early flowering stage with a 2%

solution of glyphosate herbicide. Individual plants can be pulled when they are small but it is essential to remove all the roots and parts of the plant.



2017 Affiliate Members Needed

Affiliate members are individuals, groups or organizations who choose to financially support the work of the Marion County Soil and Water Conservation District. These funds are vitally needed especially during these lean financial times.

Gifts from affiliate members are used to continue services provided to county residents including consultation in land use, erosion control and drainage problems. Funds are also used for educational purposes, helping residents make in-

formed land use decisions.

To become an affiliate member visit our [website link here](#) or call the office at 317-786-1776.

Apply Now for Conservation Stewardship Program



CSP is NRCS' largest conservation program

ments that work for their conservation objectives. These new tools also allow producers to see potential payment scenarios for conservation early in the process.

improved water and soil quality and enhanced wildlife habitat. Applications are available in local USDA service centers.

Through CSP, agricultural producers and forest landowners earn payments for actively managing, maintaining, and expanding conservation activities like cover crops, ecologically-based pest management, buffer strips, and pollinator and beneficial insect habitat – all while maintaining active agriculture production on their land. CSP also encourages the adoption of new technologies and management techniques, such as precision agriculture applications, on-site carbon storage and planting for high carbon sequestration rate, and soil health practices to improve water quality.

Natural Resources Conservation Service (NRCS) State Conservationist Jane Hardisty announced that Indiana is now accepting applications for enrollment in the Conservation Stewardship Program (CSP), the nation's largest conservation program.

NRCS has made several revisions to the program this year to help producers better evaluate their conservation options and the benefits to their operations and natural resources. New methods and software for evaluating applications will help producers see up front why they are or are not meeting stewardship thresholds, and allow them to pick practices and enhance-

"The updated Conservation Stewardship Program provides even more opportunities for conservation and greater flexibility at the local level to prioritize resource concerns and conservation approaches," says Hardisty. "Customized CSP tools for Indiana will improve the customer experience during application evaluations."

The sign-up runs through February 3, 2017 and producers are encouraged to go ahead and apply. CSP is for producers who are already established conservation stewards and who want to add more conservation benefits on their land, such as

For assistance contact Jerod Chew at 317-745-2555 or email him through our [web-site](#).

Our sign-up for the Conservation Stewardship Program runs through February 3rd

FSA Calendar & Deadlines

January 30: Deadline to apply for 2016 Livestock Forage Disaster Program (LFP) and 2016 Livestock Indemnity Program (LIP)

January 31: Deadline to file Tree Assistance Program (TAP) application

February 2: Deadline to apply for Loan Deficiency Payments (LDP) for unshorn pelts produced during the 2016 crop year

February 20: Offices closed in

observance of George Washington's Birthday

March 15: NAP application closing date for beans, beets, broccoli, brussel sprouts, cabbage, cantaloupes, cucumbers, corn, eggplant, greens, herbs, honeydew, lettuce, oats, okra, onions, peas, peppers, potatoes, sweet potatoes, pumpkins, sorghum, soybeans, squash, tomatillos, tomatoes, watermelon

March 20: Organic producers and handlers can begin to apply for

organic cost share assistance
March 31: Final date to obtain loans or Loan Deficiency Payments (LDP) on 2016 harvested small grains

Call the Marion/Johnson County FSA office at 317-736-6822 for more information.



MARION COUNTY
SOIL AND WATER
CONSERVATION DISTRICT

Discovery Hall, Suite 200
1202 East 38th Street
Indianapolis, IN 46205

Phone: 317-786-1776
Find us on the web:
www.marionswcd.org

The Mission of the Marion County Soil & Water Conservation District is to assist Marion County land users in conserving soil, water, and related natural resources by providing technical, financial and educational services.

THANK YOU Supporting Affiliate Members!

Paul Wright Hayes and Ruth Rosser Hayes in honor of:

- George Harley
- Glenn Lange
- Marilyn Hughes
- Eli Bloom Memorial

**George Haerle and Marion Haerle
Stephanie Schuck**

Don't Miss the Indiana Small Farm Conference!

March 2- 4, Hendricks Co. Fairgrounds

Register for three days of sessions, networking, and interaction with vendors at the Indiana Small Farm Conference on March 2-4 in Danville.

Take an information deep-dive into one of our full-day workshops on March 2.

*** Hop Production in Indiana: Issues that impact your farm viability**

Learn about growing hops from Indiana farmers and nationally known hop experts.

*** Beginning Farmer Workshop: Getting started in farming in Indiana**

Gain knowledge and skills from nationally known speakers and get started on a successful path—whether you just started farming or are considering it for the future.

*** Indianapolis Urban Agriculture Tour: Learn about agriculture production in Marion County**

Visit a school-based livestock project, commercial hydroponic farm, and commercial market farm.

*** On-Farm Food Safety for Fruit and Vegetable Growers: Produce Safety Alliance (PSA) Grower**

Training

Learn how federal regulations regarding produce safety recently changed through the Food Safety Modernization Act (FSMA) Produce Rule, how it impacts your farm, and how to minimize the risk associated with food-borne pathogens on your farm.

Use #PUSmallFarm to spread the word on Twitter and Facebook.



SWCD Staff

Julie Farr, Resource
Conservationist PT

Kevin Allison,
Urban Soil Health
Specialist

Jerod Chew,
NRCS District
Conservationist

To view this email as a web page, go [here](#).

[Happening Downtown](#) | [Explore Downtown](#) | [Get Around Downtown](#) | [Live Downtown](#)



VIBRANT WRAPS COVER TRASH RECEPTACLES; PITCH IN & WIN

Downtown Indy, Inc. and City Department of Public Works have transformed Downtown trash receptacles using colorful vinyl wraps. The Trash Wraps feature the message Pitch In & Win for a green and clean Downtown. The goal of this initiative is to encourage Downtown residents, employees and visitors to put trash in its place and help ensure that Downtown remains a premier people place.



APPENDIX III.A – Monitoring Program

2015 - 2016 Rivers Monitoring Program	470
2016 - 2017 Rivers Monitoring Program	480

Rivers Monitoring Program

NPDES Permit No. INS040001 requires the City to perform monthly monitoring under ambient conditions at 27 in-stream locations throughout Marion County in order to:

- Provide data to characterize the water quality of local streams for multiple programs
- Provide data to characterize storm water discharge quality
- Assess the effectiveness and adequacy of BMPs implemented under the SWQMP
- Identify and prioritize areas of the MS4 area that may be contributing excessive levels of pollutants
- Identify water quality improvements or degradation

The ambient monitoring program, or Monthly Rivers Monitoring Program, is a long-term monitoring network that was implemented by the City of Indianapolis in 1991 to collect in-stream data in support of several water quality programs. The sampling program was updated in September 2004 to address NPDES Storm Water Permit requirements by IDEM. The changes included:

- The addition of seven sites
- The requirement that one-sixth of the samples represent wet weather conditions in the sampled surface waters
- Collection of field data at all 27 sites (completed in June 2002). Sampling locations are listed in Figure A and are shown in Figure B.

After August 26, 2011, Citizens Energy Group assumed responsibility for maintaining the Monthly Rivers Monitoring Program. The sampling program was last updated in November of 2013 to address site changes requested in 2008 when the NPDES Stormwater permit was due for renewal. The recent changes are:

- The deletion of two (2) sites (33 - Buck Creek at Troy Avenue (IDEM Site number 005S) and 46 - Pogues Run at Brookside Park (IDEM Site number 019S), and,
- The addition of three (3) sites (31 - Lick Creek at Sherman Drive (IDEM Site number 033S), 138 - East Fork White Lick Creek at Bridgeport Road (IDEM Site number 032S, and 139 - East Fork White Lick Creek at Mooresville Road (IDEM Site number 031S)

Grab samples are collected at each of the 28 sites and evaluated for the 24 parameters shown in Figure II.21. To characterize wet weather conditions, three sample events a year are required to occur during or just after a qualifying rainfall event. Qualifying rainfall events are defined as events having at least 0.1 inches of rainfall after a period of 72 hours in which less than 0.1 inches of rain fell. One wet sample event must occur in each of the following periods:

- February through May
- June through September
- October through January

The results of the laboratory analyses for the Rivers Monitoring Program are now submitted through the electronic reporting portal (NetDMR) at IDEM.

Figure A – Rivers Monitoring Program Sites

IDEM No.	City No.	Location Description	Status
001S	48	Little Buck Creek and SR 37/Belmont Ave	Active
002S	32	Lick Creek and Harding Street	Active
003S	49	Little Eagle Creek and 10th Avenue	Active
004S	50	Buck Creek and Maze Road	Active

005S	33	Buck Creek and Troy Avenue	Inactive
006S	51	Crooked Creek and Cold Spring Road	Active
007S	22	Fall Creek and Emerson Way	Active
008S	10	Fall Creek and 16th Street	Active
009S	16	Fall Creek and 71st Street	Active
010S	17	Big Eagle Creek and Dandy Trail	Active
011S	11	Big Eagle Creek and Raymond Street	Active
012S	12	Williams Creek and 96th Street	Active
013S	9	Bean Creek and Garfield Park	Active
014S	15	Bean Creek and Southern Avenue	Active
015S	13	Pleasant Run and 16th Street	Active
016S	7	Pleasant Run and Meridian Street	Active
017S	14	Pogues Run and 21st Street	Active
018S	21	Pogues Run and New York Street	Inactive
019S	46	Pogues Run and Brookside Park	Inactive
020S	47	Pogues Run and Emerson Avenue	Active
021S	6	White River and SR 144	Active
022S	5	White River and Southwestway Park	Inactive
023S	4	White River and Tibbs/Banta Landfill	Inactive
024S	3	White River and Harding Street	Active
025S	2	White River and Morris Street	Active
026S	43	White River and 30th Street	Active
027S	1	White River and 82nd Street	Active
028S	8	Pogues Run and Vermont Street	Active
029S	58	White River and Southport Road	Active
030S	57	White River and I-465	Active
031S	139	East Fork White Lick Creek and Mooresville Rd	Active
032S	138	East Fork White Lick Creek and Bridgeport Rd	Active
033S	31	Lick Creek and Sherman Drive	Active

Figure B – Rivers Monitoring Program Sites Map

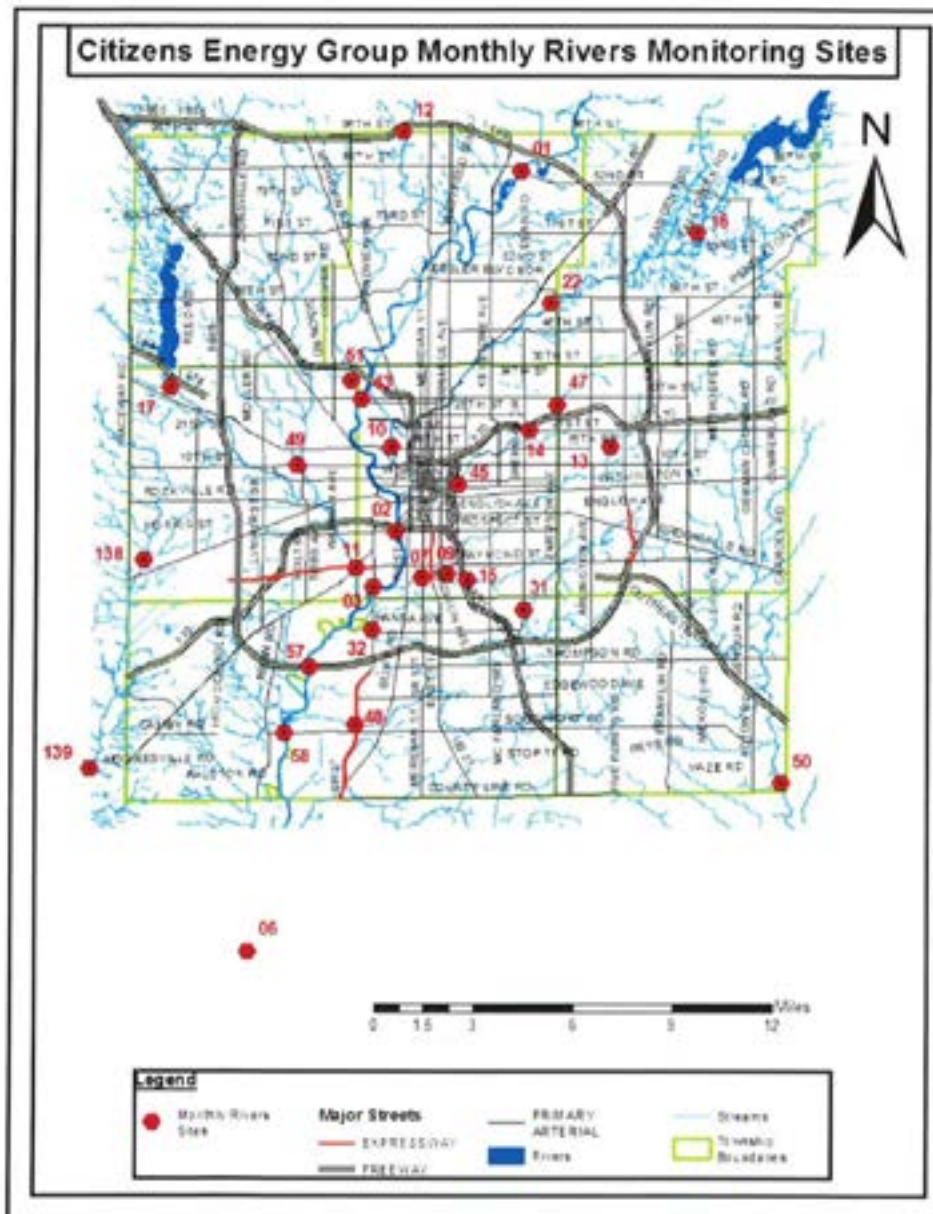


Figure C - Rivers Monitoring Program Parameters

Flow	Total Nickel
Conductivity	Temperature
Total Suspended Solids	Dissolved Oxygen
pH	Total Dissolved Solids

Five-day Biological Oxygen Demand	Oil and Grease ²
Total Kjeldahl Nitrogen	Chemical Oxygen Demand
Total Phosphorus	Nitrate plus Nitrite Nitrogen
Chlorides ¹	Ammonia Nitrogen
E. coli	Amenable Cyanide
Hardness as CaCO ₃	Total Zinc
Arsenic	Total Cadmium
Total Copper	Total Lead

1. Citizens Energy Group samples chlorides for each event, even though chlorides are only required during winter months.
2. Citizens Energy Group now collects oil and grease only during Wet Weather events as required in the NPDES permit.

2014 Rivers Monitoring Data

Accomplishments: The 12 months of data collected during the 2014 (November 2013 - October 2014) reporting period are represented by 12 sample sets — seven dry weather and five wet weather events. The monitoring data for the sample sets is presented in Figure D.

Wet weather samples were collected in early November 2013, early February 2014, and early July 2014. Sampling events in April and June of 2014 also met the criteria of a wet weather event and were included in the wet weather data evaluation.

Field Parameter Observations:

- Water temperature and Specific Conductivity means tended to be lower during this year's wet weather sampling events.
- The Dissolved Oxygen (DO) concentration mean was higher in dry weather samples than wet weather samples. No DO sample was below the IDEM water quality limit of 4.0mg/L for instantaneous measurements in the permit period from November 2013 to October 2014.
- The pH measurements for dry weather monitoring were between 7.27 and 8.75, for wet weather the pH ranged from 7.26 to 8.38, both with the mean equal to 8.00. No sample exceeded IDEM's water quality standards for pH (6.0 to 9.0 units).

General Chemistry observations:

- The Total Suspended Solids (TSS) concentration mean was higher during wet weather events, but the Total Dissolved Solids (TDS) concentration mean was lower during wet weather events.
- Ammonia nitrogen and total Kjeldahl nitrogen were both higher in wet weather events, nitrite-nitrate nitrogen was lower in wet weather events.
- The Total Phosphorus mean was higher in wet weather samples than dry weather samples.
- Elevated Chloride measurements were noted during both dry and wet weather events, mostly in February 2014 during wet weather, and in March 2014 during dry weather. Samples exceeded the chronic water quality standard of 230 mg/L 11 times during wet weather and 18 times in dry weather. The acute standard of 860 mg/L was exceeded once, in dry weather at Pleasant Run at 16th Street in March 2014. These exceedances occurred during and after extreme cold weather (February and March, 2014). This is not unexpected as most sampling sites are near major roadways where the impacts of deicing agent runoff might be expected to be seen during late winter thaw conditions.
- The geometric mean for E. coli bacteria during wet weather sampling events was 900 Colony Forming Units (CFU)/100 mL, higher than the geometric mean for E. coli bacteria during the dry weather months at 179 CFU/100 mL (an improvement over 2012-2013, when the values were 7,177 and 514 CFU/100mL, respectively).
- Oil and Grease was slightly above reporting limits for two samples (Big Eagle Creek at Dandy Trail - 6.9 mg/L, Fall Creek at Emerson Way - 6.1 mg/L), both during wet weather sampling.
- Cyanide was not detected in any sample.

Metals observations:

- Four out of six metals parameters sampled generally were higher in wet weather samples than dry weather samples. A fifth metal, Cadmium, had the same mean for dry and wet weather, however, was detected more often in wet weather events.
- Arsenic was not detected in any sample.

Figure D - 2014 Stormwater Sampling Statistical Summary (Wet vs. Dry Weather)

Parameter and unit	Parameter Reporting Limit	Minimum Detected Value (Dry / Wet) (1)	Maximum Detected Value (Dry / Wet)	Mean of Detected Value (Dry / Wet) (2)	Number (Dry / Wet)	% Detected (Dry / Wet)
Dissolved Oxygen (mg/L)	1.0	4.63 / 5.34	21.27 / 13.69	10.21 / 9.89	170 / 139	100 / 100
Water Temperature (°C)	None	-0.11 / -0.10	26.06 / 24.66	13.45 / 12.70	170 / 139	100 / 100
pH (units)	None	7.27 / 7.26	8.75 / 8.38	8.00 / 7.99	170 / 129	100 / 100
Specific Conductivity (µS/cm)	1.0	137 / 126	3570 / 2419	926 / 742	170 / 139	100 / 100
Biochemical Oxygen Demand (mg/L)	2.0	1.00 / 1.00	8.27 / 9.84	1.79 / 2.40	170 / 139	64 / 91
Nitrogen-Ammonia (mg/L)	0.03	0.030 / 0.030	0.808 / 1.47	0.132 / 0.156	170 / 139	89 / 78
Total Suspended Solids (mg/L)	4.0	1.00 / 1.00	33.8 / 275	12.7 / 36.5	170 / 139	99 / 99
E. coli (Colony Forming Units/100mL)	1.0	5 / 16	16000 / 197000	179 / 900 (3)	170 / 139	99 / 99
Chloride (mg/L)	1.0	31.2 / 25.4	945 / 660	131 / 110	170 / 139	100 / 100

Amenable Cyanide (µg/L)	5.0	5.0 / 5.0	5.0 / 5.0	5.0 / 5.0	170 / 139	0 / 0
Chemical Oxygen Demand (mg/L)	3.0	3.00 / 3.00	69.6 / 39.5	11.4 / 15.9	170 / 139	92 / 99
Total Hardness (mg/L)	1.0	149 / 84	472 / 414	307 / 253	170 / 139	100 / 100
Nitrogen-Kjeldahl (mg/L)	0.05	0.109 / 0.116	2.01 / 2.28	0.610 / 0.758	170 / 139	100 / 100
Nitrogen-Nitrate (mg/L)	0.01	0.025 / 0.019	14.6 / 6.22	1.24 / 1.07	170 / 139	96 / 100
Oil and Grease (mg/L)	5.0	5.0 / 5.0	5.0 / 6.9	5.0 / 5.0	170 / 139	0 / 2
Total Phosphorus (mg/L)	0.01	0.025 / 0.031	2.18 / 0.572	0.158 / 0.172	170 / 139	100 / 100
Total Dissolved Solids (mg/L)	6.0	210 / 159	1770 / 1180	506 / 410	170 / 139	100 / 100
Total Arsenic (µg/L)	5.0	5.0 / 5.0	5.0 / 5.0	5.0 / 5.0	170 / 139	0 / 0
Total Cadmium (µg/L)	2.0	0.2 / 0.2	0.7 / 4.0	0.2 / 0.2	170 / 139	3 / 21
Total Copper (µg/L)	2.0	2.0 / 2.0	21.3 / 17.0	3.9 / 6.2	170 / 139	74 / 94
Total Lead (µg/L)	2.0	1.0 / 1.0	3.9 / 18.7	1.1 / 2.6	170 / 139	9 / 54
Total Nickel (µg/L)	1.5	1.0 / 1.0	9.8 / 6.1	2.0 / 2.3	170 / 139	84 / 99
Total Zinc (µg/L)	6.0	5.0 / 5.0	45.9 / 80.2	8.2 / 14.2	170 / 139	34 / 68

(1) Wet data is defined by IDEM as a minimum of 0.1" of rain after 72 hours of dry weather.

(2) E. coli Mean is calculated as a Geometric Mean.

2015 Rivers Monitoring Data

Accomplishments: The 12 months of data collected during the 2015 reporting period (November 2014 - October 2015) are represented by 12 sample sets — seven full and two partial dry weather and three full and two partial wet weather events. The monitoring data for the sample sets is presented in Figure E.

Wet weather samples were collected in early November 2014, early April 2015, and early July 2015. The first day of the March 2015 and second day of the August 2015 Rivers sampling events also met the criteria of a wet weather event and were included in the wet weather data evaluation.

Field Parameter Observations:

- pH and Specific Conductivity means and maximums tended to be higher during this year's dry weather sampling events with the minimums higher during wet weather.
- The Dissolved Oxygen (DO) concentrations were higher in dry weather samples than wet weather samples. No DO sample was below the IDEM water quality limit of 4.0mg/L for instantaneous measurements in the permit period from October 2014 to October 2015.
- The Water Temperature mean and minimum was higher for wet weather monitoring but the maximum occurred during dry weather.

General Chemistry observations:

- Chloride, Total Hardness, Nitrate-Nitrite Nitrogen, and Total Phosphorus results were all higher in dry weather events.
- Ammonia Nitrogen, Total Suspended Solids, Amenable Cyanide, Chemical Oxygen Demand, and Oil and Grease results were all higher in wet weather events. Most of the Amenable Cyanide and Oil and Grease results were below Reporting Limits.

- For Biological Oxygen Demand (BOD) and Total Kjeldahl Nitrogen, the mean was higher in wet weather samples than dry weather samples but the maximums occurred during dry weather. The minimum for BOD was at the Reporting Limit of 1.0 mg/L during both wet and dry weather, the minimum for TKN was lower in wet weather.
- Total Dissolved Solid means were higher in dry weather than wet weather, but the maximum and minimum results were both higher in wet weather events.
- The geometric mean for E. coli bacteria during wet weather sampling events was 1378 Colony Forming Units (CFU)/100 mL, higher than the geometric mean for E. coli bacteria during the dry weather months at 191 CFU/100 mL, and were slightly higher than 2013-2014 means for wet and dry weather. The E. coli mean, maximum, and minimum results were all higher in wet weather than dry weather.

Metals observations:

- Five out of six metals parameters sampled had higher maximums and/or means in wet weather samples than dry weather samples. Nickel, the sixth metal, had a higher mean during wet weather but had a higher maximum during dry weather, and was detected more often in wet weather events.
- Arsenic and Cadmium had the same calculated mean in wet and dry weather as most of the results were at or just above the Reporting Limits.

Figure E - 2015 Stormwater Sampling Statistical Summary (Wet vs. Dry Weather)

Parameter and unit	IDEM Parameter Reporting Limit	Min. Detected Value (Dry / Wet) (1)	Max. Detected Value (Dry / Wet)	Mean of Detected Value (Dry / Wet) (2)	Number (Dry / Wet)	% Detected (Dry / Wet)
Dissolved Oxygen (mg/L)	1.0	4.49 / 4.21	22.99 / 13.91	11.01 / 9.53	230 / 125	100 / 100
Water Temperature (Deg C)	None	-0.06 / 2.31	26.05 / 25.27	11.64 / 14.29	230 / 125	100 / 100
pH (units)	None	6.93 / 7.53	8.62 / 8.27	7.98 / 7.90	217 / 125	100 / 100
Specific Conductivity (mS/cm)	1.0	196 / 243	2166 / 2124	923 / 767	230 / 125	100 / 100
Biochemical Oxygen Demand (mg/L)	2.0	<1.00 / <1.00	6.90 / 5.82	1.64 / 2.26	216 / 114	58 / 83
Nitrogen-Ammonia (mg/L)	0.03	<0.030 / <0.030	0.411 / 0.553	0.140 / 0.156	216 / 114	84 / 84
Total Suspended Solids (mg/L)	4.0	<1.00 / 1.33	49.4 / 267	8.60 / 34.7	216 / 114	98 / 100
E. coli (Colony Forming Units/100mL)	1.0	<1 / 7	22000 / 48000	191 / 1378	207 / 125	99 / 99
Chloride (mg/L)	1.0	23.3 / 16.9	490 / 571	118 / 92.3	216 / 114	100 / 100
Amenable Cyanide (µg/L)	5.0	<5.0 / <5.0	11.5 / 12.4	5.1 / 5.2	213 / 114	5 / 7
Chemical Oxygen Demand (mg/L)	3.0	<3.00 / <3.00	58.9 / 86.8	11.6 / 19.3	216 / 114	93 / 97
Total Hardness (mg/L)	1.0	135 / 80	436 / 370	314 / 245	216 / 114	100 / 100
Nitrogen-Kjeldahl (mg/L)	0.05	0.075 / <0.050	1.97 / 1.72	0.694 / 0.825	216 / 114	100 / 99
Nitrogen-Nitrate (mg/L)	0.01	0.020 / <0.010	20.2 / 4.15	1.55 / 1.02	216 / 114	100 / 98
Oil and Grease (mg/L)	5.0	<5.0 / <5.0	7.7 / 13.8	5.1 / 5.2	81 / 86	7 / 5
Total Phosphorus (mg/L)	0.01	0.018 / 0.023	2.67 / 0.523	0.184 / 0.167	216 / 114	100 / 100

Total Dissolved Solids (mg/L)	6.0	50 / 122	1110 / 1170	508 / 394	216 / 114	100 / 100
Total Arsenic (µg/L)	5.0	<5.0 / <5.0	5.7 / 6.5	5.0 / 5.0	216 / 114	1 / 1
Total Cadmium (µg/L)	2.0	<0.2 / <0.2	0.3 / 1.9	0.2 / 0.2	216 / 114	10 / 39
Total Copper (µg/L)	2.0	<2.0 / <2.0	13.6 / 15.9	3.1 / 4.9	216 / 114	70 / 95
Total Lead (µg/L)	2.0	<1.0 / <1.0	3.4 / 20.1	1.1 / 2.3	216 / 114	19 / 58
Total Nickel (µg/L)	1.5	<1.0 / <1.0	12.9 / 7.2	1.9 / 2.3	216 / 114	79 / 86
Total Zinc (µg/L)	6.0	<5.0 / <5.0	53.8 / 80.6	7.5 / 10.7	216 / 114	37 / 54

2015-2016 Rivers Monitoring Data

Accomplishments: The 12 months of data collected during the 2015-2016 reporting period (November 2015 - October 2016) are represented by 12 sample sets — Nine dry weather and three full wet weather events. The monitoring data for the sample sets is presented in Figure E.

Wet weather samples were collected in November 2015, April 2016, and July 2016.

Field Parameter Observations:

- pH and Temperature means and minimums tended to be higher during this year's wet weather sampling events with the maximums higher during dry weather.
- The Dissolved Oxygen (DO) concentration means and maximums were higher in dry weather samples than wet weather samples, with minimums higher in wet weather. Only one (1) DO sample was below the IDEM water quality limit of 4.0mg/L for instantaneous measurements in the permit period from November 2015 to October 2016. The DO for Site 16 (Fall Creek at 71st St) was recorded during dry weather at 2.26mg/L on August 10, 2016, when the water temperature was 26.81 degrees C, close to the dataset maximum recorded temperature of 27.68 degrees C.
- The Specific Conductivity mean and maximum was higher during dry weather monitoring, the highest minimum occurred during wet weather.

General Chemistry observations:

- Chloride, Amenable Cyanide, Total Hardness, Total Kjeldahl Nitrogen, Nitrate-Nitrite Nitrogen, and Total Dissolved Solids results were all higher in dry weather events. Amenable Cyanide had only one (1) sample each above the Reporting Limit in wet and dry weather.
- Ammonia Nitrogen and Total Suspended Solids results were higher in wet weather events.
- For Biological Oxygen Demand (BOD) and Total Phosphorus, the mean was higher in wet weather samples than dry weather samples but the maximums occurred during dry weather. The minimum for BOD was at the Reporting Limit of 1.0 mg/L during both wet and dry weather, the minimum for Total Phosphorus was lower in dry weather. BOD and Total Phosphorus were detected more often in wet weather.
- The Chemical Oxygen Demand (COD) mean was higher in dry weather than wet weather, but the maximum results were higher in wet weather events. Both the wet and dry weather minimums were below Reporting Limits. COD was detected more often in dry weather samples.
- There were no detected concentrations of Oil and Grease in any wet or dry weather sample.
- The geometric mean for E. coli bacteria during wet weather sampling events was 785 Most Probable Number (MPN)/100 mL, higher than the geometric mean for E. coli bacteria during the dry weather months at 216 MPN/100 mL. The 2015-2016 wet and dry weather means were lower than 2013-2014 and 2014-2016 geometric means for wet and dry weather except for the 2014-2015 dry geometric mean. The E. coli mean, maximum, and minimum results were all higher in wet weather than dry weather.

Metals observations:

- Arsenic, Cadmium, Copper, and Nickel had higher maximums in dry weather samples than wet weather samples, however, there were no difference between the wet and dry means. Arsenic, Cadmium, and Nickel were more often detected in dry weather, but copper was detected more often in wet weather.
- Lead had a higher maximum in dry weather and the mean was slightly higher in wet weather, but more lead was detected during the wet weather events.
- Zinc had a higher maximum and mean in wet weather, slightly more samples with lead were detected in dry weather.
- All minimum concentrations of metals were below the Reporting Limit.

Parameter and unit	IDEM Parameter Reporting Limit	Minimum Detected Value (Dry / Wet)	Maximum Detected Value (Dry / Wet)	Mean of Detected Value (Dry / Wet) (3)	Number (Dry / Wet)	% Detected (Dry / Wet)	Dry vs Wet, Minimum (2)	Dry vs Wet, Maximum (2)	Dry vs Wet, Mean (2)
Dissolved Oxygen (mg/L)	1.0	2.26 / 6.24	16.96 / 15.26	10.59 / 10.20	244 / 84	100 / 100	Wet	Dry	Dry
Water Temperature (°C)	None	-0.11 / 5.88	27.68 / 27.34	13.13 / 14.56	244 / 84	100 / 100	Wet	Dry	Wet
pH (units)	None	7.46 / 7.58	8.38 / 8.35	7.95 / 7.98	244 / 84	100 / 100	Wet	Dry	Wet
Specific Conductivity (mS/cm)	1.0	14.97 / 335	2177 / 1389	835 / 760	244 / 84	100 / 100	Wet	Dry	Dry
Biochemical Oxygen Demand (mg/L)	2.0	<1.00 / <1.00	5.92 / 5.81	1.88 / 2.42	243 / 84	74 / 93	--	Dry	Wet
Nitrogen-Ammonia (mg/L)	0.03	<0.030 / <0.030	0.861 / 1.53	0.12 / 0.15	244 / 84	88 / 92	--	Wet	Wet
Total Suspended Solids (mg/L)	4.0	<1.00 / <1.00	86 / 198	10.79 / 17.07	244 / 84	91 / 93	--	Wet	Wet
E. coli (Colony Forming Units/100mL) (1)	1.0	2 / 6	21400 / 51700	216 / 785	244 / 84	100 / 100	Wet	Wet	Wet
Chloride (mg/L)	1.0	26.6 / 30.8	515 / 160	100.5 / 83.9	244 / 84	100 / 100	Wet	Dry	Dry
Amenable Cyanide (ug/L)	5.0	<5.0 / <5.0	19.3 / 6.5	5.1 / 5.02	244 / 84	0.4 / 1.2	--	Dry	Dry
Chemical Oxygen Demand (mg/L)	3.0	<3.00 / <3.00	36.6 / 55.1	14.92 / 13.19	244 / 84	98 / 90	--	Wet	Dry
Total Hardness (mg/L)	1.0	141 / 113	478 / 369	295 / 262	244 / 84	100 / 100	Dry	Dry	Dry
Nitrogen-Kjeldahl (mg/L)	0.5	0.134 / 0.170	2.85 / 2.07	0.689 / 0.742	244 / 84	100 / 100	Wet	Dry	Dry
Nitrogen-Nitrate Nitrate (mg/L)	0.01	<0.010 / <0.010	9.26 / 5.69	1.41 / 1.13	244 / 84	99 / 99	--	Dry	Dry
Oil and Grease (mg/L)	5.0	-- / <5.0	-- / <5.0	-- / <5.0	0 / 84	0 / 0	--	--	--
Total Phosphorus (mg/L)	0.01	<0.010 / 0.017	1.26 / 0.899	0.125 / 0.150	244 / 84	91 / 100	Wet	Dry	Wet
Total Dissolved Solids (mg/L)	6.0	173 / 164	1200 / 779	463 / 414	244 / 84	100 / 100	Dry	Dry	Dry
Total Arsenic (ug/L)	5.0	<5.0 / <5.0	6.0 / <5.0	5.0 / <5.0	244 / 84	0.4 / 0	--	Dry	Dry
Total Cadmium (ug/L)	2.0	<0.2 / <0.2	0.6 / 0.5	0.2 / 0.2	244 / 84	4 / 1	--	Dry	--
Total Copper (ug/L)	2.0	<2.0 / <2.0	79.5 / 21.7	4.5 / 4.5	244 / 84	71 / 74	--	Dry	--
Total Lead (ug/L)	2.0	<1.0 / <1.0	13.3 / 10.3	1.3 / 1.6	244 / 84	27 / 46	--	Dry	Wet
Total Nickel (ug/L)	1.5	<1.0 / <1.0	7.0 / 5.1	1.6 / 1.6	244 / 84	79 / 58	--	Dry	--
Total Zinc (ug/L)	6.0	<5.0 / <5.0	40.2 / 100	10.1 / 14	244 / 84	72 / 70	--	Wet	Wet

(1) The current method used by Citizens contracted laboratory reports Most Probable Number/100mL using an IDEM approved E. coli method.

(2) If Maximum or Minimum and Mean where both higher in one weather type, the parameter is classified as higher in that weather type. Brown text indicates dry dominated parameters, Blue text indicates wet dominated parameters for reference.

In the absence of clear weather type, the % Detected was used to determine the weather impact type.

(3) E. coli mean is calculated as an Geometric Mean rather than an Arithmetic Mean as in the other parameters

Rivers Monitoring Program

NPDES Permit No. INS040001 requires the City to perform monthly monitoring under ambient conditions at 28 in-stream locations throughout Marion County in order to:

- Provide data to characterize the water quality of local streams for multiple programs
- Provide data to characterize storm water discharge quality
- Assess the effectiveness and adequacy of BMPs implemented under the SWQMP
- Identify and prioritize areas of the MS4 area that may be contributing excessive levels of pollutants
- Identify water quality improvements or degradation

The ambient monitoring program, or Monthly Rivers Monitoring Program, is a long-term monitoring network that was implemented by the City of Indianapolis in 1991 to collect in-stream data in support of several water quality programs. The sampling program was updated in September 2004 to address NPDES Storm Water Permit requirements by IDEM. The changes included:

- The addition of seven sites
- The requirement that one-sixth of the samples represent wet weather conditions in the sampled surface waters
- Collection of field data at all 28 sites (completed in June 2002). Sampling locations are listed in Figure A and are shown in Figure B.

After August 26, 2011, Citizens Energy Group assumed responsibility for maintaining the Monthly Rivers Monitoring Program. The sampling program was last updated in November of 2013 to address site changes requested in 2008 when the NPDES Stormwater permit was due for renewal. The recent changes are:

- The deletion of two (2) sites (33 - Buck Creek at Troy Avenue (IDEM Site number 005S) and 46 - Pogues Run at Brookside Park (IDEM Site number 019S), and,
- The addition of three (3) sites (31 - Lick Creek at Sherman Drive (IDEM Site number 033S), 138 - East Fork White Lick Creek at Bridgeport Road (IDEM Site number 032S, and 139 - East Fork White Lick Creek at Mooresville Road (IDEM Site number 031S)

The City of Indianapolis reassumed responsibility for the Monthly Rivers Monitoring program after September 2017.

Grab samples are collected at each of the 28 sites and evaluated for the 24 parameters shown in Figure II.21. To characterize wet weather conditions, three sample events a year are required to occur during or just after a qualifying rainfall event. Qualifying rainfall events are defined as events having at least 0.1 inches of rainfall after a period of 72 hours in which less than 0.1 inches of rain fell. One wet sample event must occur in each of the following periods:

- February through May
- June through September
- October through January

The results of the laboratory analyses for the Rivers Monitoring Program are now submitted through the electronic reporting portal (NetDMR) at IDEM.

Figure A – Rivers Monitoring Program Sites

IDEM No.	City No.	Location Description	Status
001S	48	Little Buck Creek and SR 37/Belmont Ave	Active
002S	32	Lick Creek and Harding Street	Active
003S	49	Little Eagle Creek and 10th Avenue	Active
004S	50	Buck Creek and Maze Road	Active
005S	33	Buck Creek and Troy Avenue	Inactive
006S	51	Crooked Creek and Cold Spring Road	Active
007S	22	Fall Creek and Emerson Way	Active
008S	10	Fall Creek and 16th Street	Active
009S	16	Fall Creek and 71st Street	Active
010S	17	Big Eagle Creek and Dandy Trail	Active
011S	11	Big Eagle Creek and Raymond Street	Active
012S	12	Williams Creek and 96th Street	Active
013S	9	Bean Creek and Garfield Park	Active
014S	15	Bean Creek and Southern Avenue	Active
015S	13	Pleasant Run and 16th Street	Active
016S	7	Pleasant Run and Meridian Street	Active
017S	14	Pogues Run and 21st Street	Active
018S	21	Pogues Run and New York Street	Inactive
019S	46	Pogues Run and Brookside Park	Inactive
020S	47	Pogues Run and Emerson Avenue	Active
021S	6	White River and SR 144	Active
022S	5	White River and Southwestway Park	Inactive
023S	4	White River and Tibbs/Banta Landfill	Inactive
024S	3	White River and Harding Street	Active
025S	2	White River and Morris Street	Active
026S	43	White River and 30th Street	Active
027S	1	White River and 82nd Street	Active
028S	8	Pogues Run and Vermont Street	Active
029S	58	White River and Southport Road	Active
030S	57	White River and I-465	Active
031S	139	East Fork White Lick Creek and Mooresville Rd	Active
032S	138	East Fork White Lick Creek and Bridgeport Rd	Active
033S	31	Lick Creek and Sherman Drive	Active

Figure B – Rivers Monitoring Program Sites Map

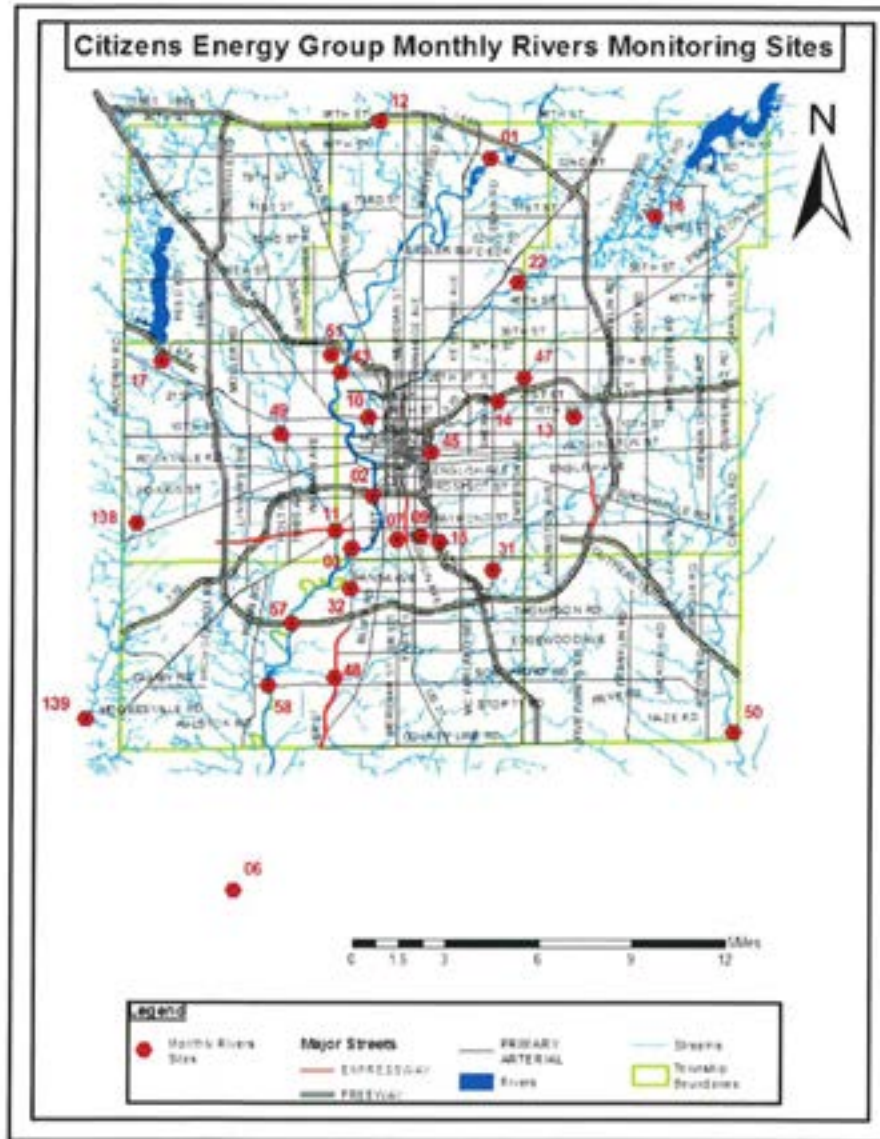


Figure C – Rivers Monitoring Program Parameters

Flow	Total Nickel
Conductivity	Temperature
Total Suspended Solids	Dissolved Oxygen
pH	Total Dissolved Solids
Five-day Biological Oxygen Demand	Oil and Grease ²
Total Kjeldahl Nitrogen	Chemical Oxygen Demand
Total Phosphorus	Nitrate plus Nitrite Nitrogen
Chlorides ¹	Ammonia Nitrogen
E. coli	Amenable Cyanide
Hardness as CaCO ₃	Total Zinc
Arsenic	Total Cadmium
Total Copper	Total Lead

1. Citizens Energy Group samples chlorides for each event, even though chlorides are only required during winter months.
2. Citizens Energy Group now collects oil and grease only during Wet Weather events as required in the NPDES permit.
3. Citizens Energy Group collects Sulfates in addition to the required IDEM parameter list to be able to determine Chloride exceedances of the Water Quality Standard for Chloride (the Sulfate concentration is used in the equation to determine Chloride limits).

2014 Rivers Monitoring Data

Accomplishments: The 12 months of data collected during the 2014 (November 2013 - October 2014) reporting period are represented by 12 sample sets — seven dry weather and five wet weather events. The monitoring data for the sample sets is presented in Figure D.

Wet weather samples were collected in early November 2013, early February 2014, and early July 2014. Sampling events in April and June of 2014 also met the criteria of a wet weather event and were included in the wet weather data evaluation.

Field Parameter Observations:

- Water temperature and Specific Conductivity means tended to be lower during this year's wet weather sampling events.
- The Dissolved Oxygen (DO) concentration mean was higher in dry weather samples than wet weather samples. No DO sample was below the IDEM water quality limit of 4.0mg/L for instantaneous measurements in the permit period from November 2013 to October 2014.
- The pH measurements for dry weather monitoring were between 7.27 and 8.75, for wet weather the pH ranged from 7.26 to 8.38, both with the mean equal to 8.00. No sample exceeded IDEM's water quality standards for pH (6.0 to 9.0 units).

General Chemistry observations:

- The Total Suspended Solids (TSS) concentration mean was higher during wet weather events, but the Total Dissolved Solids (TDS) concentration mean was lower during wet weather events.
- Ammonia nitrogen and total Kjeldahl nitrogen were both higher in wet weather events, nitrite-nitrate nitrogen was lower in wet weather events.
- The Total Phosphorus mean was higher in wet weather samples than dry weather samples.
- Elevated Chloride measurements were noted during both dry and wet weather events, mostly in February 2014 during wet weather, and in March 2014 during dry weather. Samples exceeded the chronic water quality standard of 230 mg/L 11 times during wet weather and 18 times in dry weather. The acute standard of 860 mg/L was exceeded once, in dry weather at Pleasant Run at 16th Street in March 2014. These exceedances occurred during and after extreme cold weather (February and March, 2014). This is not unexpected as most sampling sites are near major roadways where the impacts of deicing agent runoff might be expected to be seen during late winter thaw conditions.
- The geometric mean for E. coli bacteria during wet weather sampling events was 900 Colony Forming Units (CFU)/100 mL, higher than the geometric mean for E. coli bacteria during the dry weather months at 179 CFU/100 mL (an improvement over 2012-2013, when the values were 7,177 and 514 CFU/100mL, respectively).

- Oil and Grease was slightly above reporting limits for two samples (Big Eagle Creek at Dandy Trail - 6.9 mg/L, Fall Creek at Emerson Way - 6.1 mg/L), both during wet weather sampling.
- Cyanide was not detected in any sample.

Metals observations:

- Four out of six metals parameters sampled generally were higher in wet weather samples than dry weather samples. A fifth metal, Cadmium, had the same mean for dry and wet weather, however, was detected more often in wet weather events.
- Arsenic was not detected in any sample.

Figure D - 2014 Stormwater Sampling Statistical Summary (Wet vs. Dry Weather)

Parameter and unit	Parameter Reporting Limit	Minimum Detected Value (Dry / Wet) (1)	Maximum Detected Value (Dry / Wet)	Mean of Detected Value (Dry / Wet) (2)	Number (Dry / Wet)	% Detected (Dry / Wet)
Dissolved Oxygen (mg/L)	1.0	4.63 / 5.34	21.27 / 13.69	10.21 / 9.89	170 / 139	100 / 100
Water Temperature (°C)	None	-0.11 / -0.10	26.06 / 24.66	13.45 / 12.70	170 / 139	100 / 100
pH (units)	None	7.27 / 7.26	8.75 / 8.38	8.00 / 7.99	170 / 129	100 / 100
Specific Conductivity (µS/cm)	1.0	137 / 126	3570 / 2419	926 / 742	170 / 139	100 / 100
Biochemical Oxygen Demand (mg/L)	2.0	1.00 / 1.00	8.27 / 9.84	1.79 / 2.40	170 / 139	64 / 91
Nitrogen-Ammonia (mg/L)	0.03	0.030 / 0.030	0.808 / 1.47	0.132 / 0.156	170 / 139	89 / 78
Total Suspended Solids (mg/L)	4.0	1.00 / 1.00	33.8 / 275	12.7 / 36.5	170 / 139	99 / 99
E. coli (Colony Forming Units/100mL)	1.0	5 / 16	16000 / 197000	179 / 900 (3)	170 / 139	99 / 99
Chloride (mg/L)	1.0	31.2 / 25.4	945 / 660	131 / 110	170 / 139	100 / 100
Amenable Cyanide (µg/L)	5.0	5.0 / 5.0	5.0 / 5.0	5.0 / 5.0	170 / 139	0 / 0
Chemical Oxygen Demand (mg/L)	3.0	3.00 / 3.00	69.6 / 39.5	11.4 / 15.9	170 / 139	92 / 99
Total Hardness (mg/L)	1.0	149 / 84	472 / 414	307 / 253	170 / 139	100 / 100
Nitrogen-Kjeldahl (mg/L)	0.05	0.109 / 0.116	2.01 / 2.28	0.610 / 0.758	170 / 139	100 / 100
Nitrogen-Nitrate (mg/L)	0.01	0.025 / 0.019	14.6 / 6.22	1.24 / 1.07	170 / 139	96 / 100
Oil and Grease (mg/L)	5.0	5.0 / 5.0	5.0 / 6.9	5.0 / 5.0	170 / 139	0 / 2
Total Phosphorus (mg/L)	0.01	0.025 / 0.031	2.18 / 0.572	0.158 / 0.172	170 / 139	100 / 100
Total Dissolved Solids (mg/L)	6.0	210 / 159	1770 / 1180	506 / 410	170 / 139	100 / 100
Total Arsenic (µg/L)	5.0	5.0 / 5.0	5.0 / 5.0	5.0 / 5.0	170 / 139	0 / 0
Total Cadmium (µg/L)	2.0	0.2 / 0.2	0.7 / 4.0	0.2 / 0.2	170 / 139	3 / 21
Total Copper (µg/L)	2.0	2.0 / 2.0	21.3 / 17.0	3.9 / 6.2	170 / 139	74 / 94
Total Lead (µg/L)	2.0	1.0 / 1.0	3.9 / 18.7	1.1 / 2.6	170 / 139	9 / 54
Total Nickel (µg/L)	1.5	1.0 / 1.0	9.8 / 6.1	2.0 / 2.3	170 / 139	84 / 99
Total Zinc (µg/L)	6.0	5.0 / 5.0	45.9 / 80.2	8.2 / 14.2	170 / 139	34 / 68

(1) Wet data is defined by IDEM as a minimum of 0.1" of rain after 72 hours of dry weather.

(2) E. coli Mean is calculated as a Geometric Mean.

2015 Rivers Monitoring Data

Accomplishments: The 12 months of data collected during the 2015 reporting period (November 2014 - October 2015) are represented by 12 sample sets — seven full and two partial dry weather and three full and two partial wet weather events. The monitoring data for the sample sets is presented in Figure E.

Wet weather samples were collected in early November 2014, early April 2015, and early July 2015. The first day of the March 2015 and second day of the August 2015 Rivers sampling events also met the criteria of a wet weather event and were included in the wet weather data evaluation.

Field Parameter Observations:

- pH and Specific Conductivity means and maximums tended to be higher during this year's dry weather sampling events with the minimums higher during wet weather.
- The Dissolved Oxygen (DO) concentrations were higher in dry weather samples than wet weather samples. No DO sample was below the IDEM water quality limit of 4.0mg/L for instantaneous measurements in the permit period from October 2014 to October 2015.
- The Water Temperature mean and minimum was higher for wet weather monitoring but the maximum occurred during dry weather.

General Chemistry observations:

- Chloride, Total Hardness, Nitrate-Nitrite Nitrogen, and Total Phosphorus results were all higher in dry weather events.
- Ammonia Nitrogen, Total Suspended Solids, Amenable Cyanide, Chemical Oxygen Demand, and Oil and Grease results were all higher in wet weather events. Most of the Amenable Cyanide and Oil and Grease results were below Reporting Limits.
- For Biological Oxygen Demand (BOD) and Total Kjeldahl Nitrogen, the mean was higher in wet weather samples than dry weather samples but the maximums occurred during dry weather. The minimum for BOD was at the Reporting Limit of 1.0 mg/L during both wet and dry weather, the minimum for TKN was lower in wet weather.
- Total Dissolved Solid means were higher in dry weather than wet weather, but the maximum and minimum results were both higher in wet weather events.
- The geometric mean for E. coli bacteria during wet weather sampling events was 1378 Colony Forming Units (CFU)/100 mL, higher than the geometric mean for E. coli bacteria during the dry weather months at 191 CFU/100 mL, and were slightly higher than 2013-2014 means for wet and dry weather. The E. coli mean, maximum, and minimum results were all higher in wet weather than dry weather.

Metals observations:

- Five out of six metals parameters sampled had higher maximums and/or means in wet weather samples than dry weather samples. Nickel, the sixth metal, had a higher mean during wet weather but had a higher maximum during dry weather, and was detected more often in wet weather events.
- Arsenic and Cadmium had the same calculated mean in wet and dry weather as most of the results were at or just above the Reporting Limits.

Figure E - 2015 Stormwater Sampling Statistical Summary (Wet vs. Dry Weather)

Parameter and unit	IDEM Parameter Reporting Limit	Min. Detected Value (Dry / Wet) (1)	Max. Detected Value (Dry / Wet)	Mean of Detected Value (Dry / Wet) (2)	Number (Dry / Wet)	% Detected (Dry / Wet)
Dissolved Oxygen (mg/L)	1.0	4.49 / 4.21	22.99 / 13.91	11.01 / 9.53	230 / 125	100 / 100
Water Temperature (Deg C)	None	-0.06 / 2.31	26.05 / 25.27	11.64 / 14.29	230 / 125	100 / 100
pH (units)	None	6.93 / 7.53	8.62 / 8.27	7.98 / 7.90	217 / 125	100 / 100
Specific Conductivity (mS/cm)	1.0	196 / 243	2166 / 2124	923 / 767	230 / 125	100 / 100
Biochemical Oxygen Demand (mg/L)	2.0	<1.00 / <1.00	6.90 / 5.82	1.64 / 2.26	216 / 114	58 / 83
Nitrogen-Ammonia (mg/L)	0.03	<0.030 / <0.030	0.411 / 0.553	0.140 / 0.156	216 / 114	84 / 84
Total Suspended Solids (mg/L)	4.0	<1.00 / 1.33	49.4 / 267	8.60 / 34.7	216 / 114	98 / 100
E. coli (Colony Forming Units/100mL)	1.0	<1 / 7	22000 / 48000	191 / 1378	207 / 125	99 / 99
Chloride (mg/L)	1.0	23.3 / 16.9	490 / 571	118 / 92.3	216 / 114	100 / 100
Amenable Cyanide (µg/L)	5.0	<5.0 / <5.0	11.5 / 12.4	5.1 / 5.2	213 / 114	5 / 7
Chemical Oxygen Demand (mg/L)	3.0	<3.00 / <3.00	58.9 / 86.8	11.6 / 19.3	216 / 114	93 / 97
Total Hardness (mg/L)	1.0	135 / 80	436 / 370	314 / 245	216 / 114	100 / 100
Nitrogen-Kjeldahl (mg/L)	0.05	0.075 / <0.050	1.97 / 1.72	0.694 / 0.825	216 / 114	100 / 99
Nitrogen-Nitrate (mg/L)	0.01	0.020 / <0.010	20.2 / 4.15	1.55 / 1.02	216 / 114	100 / 98
Oil and Grease (mg/L)	5.0	<5.0 / <5.0	7.7 / 13.8	5.1 / 5.2	81 / 86	7 / 5
Total Phosphorus (mg/L)	0.01	0.018 / 0.023	2.67 / 0.523	0.184 / 0.167	216 / 114	100 / 100
Total Dissolved Solids (mg/L)	6.0	50 / 122	1110 / 1170	508 / 394	216 / 114	100 / 100
Total Arsenic (µg/L)	5.0	<5.0 / <5.0	5.7 / 6.5	5.0 / 5.0	216 / 114	1 / 1
Total Cadmium (µg/L)	2.0	<0.2 / <0.2	0.3 / 1.9	0.2 / 0.2	216 / 114	10 / 39
Total Copper (µg/L)	2.0	<2.0 / <2.0	13.6 / 15.9	3.1 / 4.9	216 / 114	70 / 95
Total Lead (µg/L)	2.0	<1.0 / <1.0	3.4 / 20.1	1.1 / 2.3	216 / 114	19 / 58
Total Nickel (µg/L)	1.5	<1.0 / <1.0	12.9 / 7.2	1.9 / 2.3	216 / 114	79 / 86
Total Zinc (µg/L)	6.0	<5.0 / <5.0	53.8 / 80.6	7.5 / 10.7	216 / 114	37 / 54

2015-2016 Rivers Monitoring Data

Accomplishments: The 12 months of data collected during the 2015-2016 reporting period (November 2015 - October 2016) are represented by 12 sample sets — Nine dry weather and three full wet weather events. The monitoring data for the sample sets is presented in Figure E.

Wet weather samples were collected in November 2015, April 2016, and July 2016.

Field Parameter Observations:

- pH and Temperature means and minimums tended to be higher during this year's wet weather sampling events with the maximums higher during dry weather.
- The Dissolved Oxygen (DO) concentration means and maximums were higher in dry weather samples than wet weather samples, with minimums higher in wet weather. Only one (1) DO sample was below the IDEM water quality limit of 4.0mg/L for instantaneous measurements in the permit period from November 2015 to October 2016. The DO for Site 16 (Fall Creek at 71st St) was recorded during dry weather at 2.26mg/L on August 10, 2016, when the water temperature was 26.81 degrees C, close to the dataset maximum recorded temperature of 27.68 degrees C.
- The Specific Conductivity mean and maximum was higher during dry weather monitoring, the highest minimum occurred during wet weather.

General Chemistry observations:

- Chloride, Amenable Cyanide, Total Hardness, Total Kjeldahl Nitrogen, Nitrate-Nitrite Nitrogen, and Total Dissolved Solids results were all higher in dry weather events. Amenable Cyanide had only one (1) sample each above the Reporting Limit in wet and dry weather.
- Ammonia Nitrogen and Total Suspended Solids results were higher in wet weather events.
- For Biological Oxygen Demand (BOD) and Total Phosphorus, the mean was higher in wet weather samples than dry weather samples but the maximums occurred during dry weather. The minimum for BOD was at the Reporting Limit of 1.0 mg/L during both wet and dry weather, the minimum for Total Phosphorus was lower in dry weather. BOD and Total Phosphorus were detected more often in wet weather.
- The Chemical Oxygen Demand (COD) mean was higher in dry weather than wet weather, but the maximum results were higher in wet weather events. Both the wet and dry weather minimums were below Reporting Limits. COD was detected more often in dry weather samples.
- There were no detected concentrations of Oil and Grease in any wet or dry weather sample.
- The geometric mean for E. coli bacteria during wet weather sampling events was 785 Most Probable Number (MPN)/100 mL, higher than the geometric mean for E. coli bacteria during the dry weather months at 216 MPN/100 mL. The 2015-2016 wet and dry weather means were lower than 2013-2014 and 2014-2016 geometric means for wet and dry weather except for the 2014-2015 dry geometric mean. The E. coli mean, maximum, and minimum results were all higher in wet weather than dry weather.

Metals observations:

- Arsenic, Cadmium, Copper, and Nickel had higher maximums in dry weather samples than wet weather samples, however, there were no difference between the wet and dry means. Arsenic, Cadmium, and Nickel were more often detected in dry weather, but copper was detected more often in wet weather.
- Lead had a higher maximum in dry weather and the mean was slightly higher in wet weather, but more lead was detected during the wet weather events.
- Zinc had a higher maximum and mean in wet weather, slightly more samples with lead were detected in dry weather.
- All minimum concentrations of metals were below the Reporting Limit.

Parameter and unit	IDEM Parameter Reporting Limit	Minimum Detected Value (Dry / Wet)	Maximum Detected Value (Dry / Wet)	Mean of Detected Value (Dry / Wet) (3)	Number (Dry / Wet)	% Detected (Dry / Wet)	Dry vs Wet, Minimum (2)	Dry vs Wet, Maximum (2)	Dry vs Wet, Mean (2)
Dissolved Oxygen (mg/L)	1.0	2.26 / 6.24	16.96 / 15.26	10.59 / 10.20	244 / 84	100 / 100	Wet	Dry	Dry
Water Temperature (°C)	None	-0.11 / 5.88	27.68 / 27.34	13.13 / 14.56	244 / 84	100 / 100	Wet	Dry	Wet
pH (units)	None	7.46 / 7.58	8.38 / 8.35	7.95 / 7.98	244 / 84	100 / 100	Wet	Dry	Wet
Specific Conductivity (mS/cm)	1.0	14.97 / 335	2177 / 1389	835 / 760	244 / 84	100 / 100	Wet	Dry	Dry
Biochemical Oxygen Demand (mg/L)	2.0	<1.00 / <1.00	5.92 / 5.81	1.88 / 2.42	243 / 84	74 / 93	--	Dry	Wet
Nitrogen-Ammonia (mg/L)	0.03	<0.030 / <0.030	0.861 / 1.53	0.12 / 0.15	244 / 84	88 / 92	--	Wet	Wet
Total Suspended Solids (mg/L)	4.0	<1.00 / <1.00	86 / 198	10.79 / 17.07	244 / 84	91 / 93	--	Wet	Wet
E. coli (Colony Forming Units/100mL) (1)	1.0	2 / 6	21400 / 51700	216 / 785	244 / 84	100 / 100	Wet	Wet	Wet
Chloride (mg/L)	1.0	26.6 / 30.8	515 / 160	100.5 / 83.9	244 / 84	100 / 100	Wet	Dry	Dry
Amenable Cyanide (ug/L)	5.0	<5.0 / <5.0	19.3 / 6.5	5.1 / 5.02	244 / 84	0.4 / 1.2	--	Dry	Dry
Chemical Oxygen Demand (mg/L)	3.0	<3.00 / <3.00	36.6 / 55.1	14.92 / 13.19	244 / 84	98 / 90	--	Wet	Dry
Total Hardness (mg/L)	1.0	141 / 113	478 / 369	295 / 262	244 / 84	100 / 100	Dry	Dry	Dry
Nitrogen-Kjeldahl (mg/L)	0.5	0.134 / 0.170	2.85 / 2.07	0.689 / 0.742	244 / 84	100 / 100	Wet	Dry	Dry
Nitrogen-Nitrate Nitrate (mg/L)	0.01	<0.010 / <0.010	9.26 / 5.69	1.41 / 1.13	244 / 84	99 / 99	--	Dry	Dry
Oil and Grease (mg/L)	5.0	-- / <5.0	-- / <5.0	-- / <5.0	0 / 84	0 / 0	--	--	--
Total Phosphorus (mg/L)	0.01	<0.010 / 0.017	1.26 / 0.899	0.125 / 0.150	244 / 84	91 / 100	Wet	Dry	Wet
Total Dissolved Solids (mg/L)	6.0	173 / 164	1200 / 779	463 / 414	244 / 84	100 / 100	Dry	Dry	Dry
Total Arsenic (ug/L)	5.0	<5.0 / <5.0	6.0 / <5.0	5.0 / <5.0	244 / 84	0.4 / 0	--	Dry	Dry
Total Cadmium (ug/L)	2.0	<0.2 / <0.2	0.6 / 0.5	0.2 / 0.2	244 / 84	4 / 1	--	Dry	--
Total Copper (ug/L)	2.0	<2.0 / <2.0	79.5 / 21.7	4.5 / 4.5	244 / 84	71 / 74	--	Dry	--
Total Lead (ug/L)	2.0	<1.0 / <1.0	13.3 / 10.3	1.3 / 1.6	244 / 84	27 / 46	--	Dry	Wet
Total Nickel (ug/L)	1.5	<1.0 / <1.0	7.0 / 5.1	1.6 / 1.6	244 / 84	79 / 58	--	Dry	--
Total Zinc (ug/L)	6.0	<5.0 / <5.0	40.2 / 100	10.1 / 14	244 / 84	72 / 70	--	Wet	Wet

(1) The current method used by Citizens contracted laboratory reports Most Probable Number/100mL using an IDEM approved E. coli method.

(2) If Maximum or Minimum and Mean where both higher in one weather type, the parameter is classified as higher in that weather type. Brown text indicates dry dominated parameters, Blue text indicates wet dominated parameters for reference.

In the absence of clear weather type, the % Detected was used to determine the weather impact type.

(3) E. coli mean is calculated as an Geometric Mean rather than an Arithmetic Mean as in the other parameters

2016 – 2017 Rivers Monitoring Data

Accomplishments: The 13 months of data collected during the 2016-2017 reporting period (November 2016 - October 2017) are represented by 13 sample sets — Three full and three partial dry weather events, and seven full and 3 partial wet weather events that met the criteria in the Stormwater NPDES permit issued by IDEM. A summary of the monitoring data for the sample sets is presented in Figure E.

Per agreement with the City of Indianapolis, Citizens Energy Group returned the Monthly Rivers program (sampling, analysis, and reporting responsibilities) back to The City of Indianapolis in October 2017.

IDEM required Wet Weather samples were collected in late November 2016, February 2017, and September 2017. Full sets of samples collected in January 2017, May 2017, July 2017, October 2017, and partial sets of samples collected on December 7, 2016, March 8, 2017, and April 11, 2017 also met the IDEM criteria for Wet Weather.

Field Parameter Observations:

- Dissolved Oxygen (DO), Temperature, pH and Specific Conductivity minimums were higher during this year's dry weather sampling events, the Dissolved Oxygen and Temperature maximums were higher during dry weather. It is to be noted that lower values for DO are worse than higher, reversed from most parameters analyzed.
- The Temperature, pH, and Specific Conductivity means were higher in dry weather samples than wet weather samples, The DO mean was higher in wet weather. Only one (1) DO sample was below the IDEM water quality limit of 4.0mg/L for instantaneous measurements in the permit period from November 2016 to October 2017. The DO for Site 14 (Pogues Run at 21st St) was recorded during wet weather at 3.72 mg/L on October 11, 2017.

General Chemistry observations:

- Biochemical Oxygen Demand (BOD), Total Suspended Solids (TSS), and E. coli results were all higher in wet weather events. Chemical Oxygen Demand (COD) results were also higher in wet weather events, but the % Detected was higher in dry weather. BOD and TSS minimums were both below the Reporting Limit for both the wet and dry weather samples.
- Amenable Cyanide (CN-A) and Oil & Grease results were all below the Reporting Limits in wet and dry weather (Oil & Grease was only sampled during Wet Weather events).
- Ammonia Nitrogen (NH₃) and Total Phosphorus mean and % Detected results were higher in wet weather events, but the maximums were higher in dry weather. NH₃ and Total Phosphorus minimums were both below the Reporting Limit for both the wet and dry weather samples.
- Chloride and Total Dissolved Solids (TDS) minimums and means were higher in dry weather events, but the maximum results were higher in wet weather events. COD was detected more often in dry weather samples.
- Hardness and Nitrite-Nitrate results were higher in dry weather events, however, more Nitrite-Nitrate results were detected in wet weather.
- Total Kjeldahl Nitrogen (TKN) maximums and % Detected results were higher in dry weather, but the mean was higher for wet weather. TKN results were below the Reporting limit in both wet and dry weather.
- The geometric mean for E. coli bacteria during wet weather sampling events was 711 Most Probable Number (MPN)/100 mL, higher than the geometric mean for E. coli bacteria during the dry weather months at 220 MPN/100 mL. The 2016-2017 E. coli dry and wet weather geometric means were similar to 2015-2016 E. coli dry and wet weather geometric means, but lower than 2014-2015 E. coli geometric means. The E. coli mean, maximum, and minimum results were all higher in wet weather than dry weather.

Metals observations:

- Arsenic results were all below the Reporting Limits in dry and wet weather.
- Cadmium, Lead, and Zinc results were all higher in wet weather samples, although Cadmium was biased by different Reporting Limits in the October sampling event.
- The Nickel mean and % Detected were higher in wet weather, but the maximum was highest during dry weather.
- Copper had a higher maximum and mean during wet weather, but was detected more often during dry weather.
- All minimum concentrations of metals were below the associated Reporting Limit.

Parameter and unit	IDEM Parameter Reporting Limit	Minimum Detected Value (Dry / Wet)	Maximum Detected Value (Dry / Wet)	Mean of Detected Value (Dry / Wet) (1)	Number (Dry / Wet)	% Detected (Dry / Wet)
Dissolved Oxygen (mg/L)	1.0	4.29 / 3.72	15.65 / 14.99	9.87 / 10.24	123 / 241	100 / 100
Water Temperature (°C)	None	2.03 / 0.48	28.63 / 24.22	14.24 / 12.70	123 / 241	100 / 100
pH (units)	None	7.44 / 7.16	8.32 / 8.60	7.99 / 7.98	117 / 241	100 / 100
Specific Conductivity (uS/cm)	1.0	430 / 232	1315 / 1674	844 / 672	123 / 241	100 / 100
Biochemical Oxygen Demand (mg/L)	2.0	1.00 / 1.00	3.94 / 667	1.71 / 5.53	123 / 241	83 / 92
Nitrogen-Ammonia (mg/L)	0.03	0.030 / 0.030	1.98 / 0.851	0.074 / 0.107	123 / 241	78 / 89
Total Suspended Solids (mg/L)	4.0	1.00 / 1.00	119 / 195	8.85 / 19.6	123 / 241	87 / 98
E. coli (MPN/100mL) (3)	1.0	1 / 2	6570 / 48800	220 / 711	123 / 241	99 / 100
Chloride (mg/L)	1.0	18.7 / 9.11	225 / 348	87.2 / 78.0	123 / 240	100 / 100
Amenable Cyanide (ug/L)	5.0	5.0 / 5.0	5.0 / 5.0	5.0 / 5.0	123 / 241	0 / 0
Chemical Oxygen Demand (mg/L)	3.0	3.00 / 3.00	27.9 / 58.2	13.2 / 17.8	123 / 241	99 / 97
Total Hardness (mg/L)	1.0	166 / 84	471 / 415	338 / 251	123 / 241	100 / 100
Nitrogen-Kjeldahl (mg/L)	0.5	0.050 / 0.050	4.91 / 3.15	0.510 / 0.768	123 / 241	98 / 96
Nitrogen-Nitrate Nitrate (mg/L)	0.01	0.010 / 0.010	5.45 / 5.28	1.39 / 1.08	123 / 240	96 / 99.6
Oil and Grease (mg/L)	5.0	-- / 5.0	-- / 6.8	-- / 5.0	0 / 83	-- / 1.0
Total Phosphorus (mg/L)	0.01	0.010 / 0.010	1.69 / 0.603	0.132 / .0133	123 / 241	88 / 98
Total Dissolved Solids (mg/L)	6.0	209 / 110	823 / 909	493 / 371	123 / 241	100 / 100
Total Arsenic (ug/L)	5.0	5.0 / 5.0	5.0 / 5.0	5.0 / 5.0	123 / 241	0 / 0
Total Cadmium (ug/L) All Data (13 months) (4)	2.0	0.2 / 0.2-2.0	1.1 / 2.0	0.2 / 0.4	123 / 241	2 / 3
Total Cadmium (ug/L) 0.2 RL Data (12 months)	2.0	0.2 / 0.2	1.1 / 1.0	0.2 / 0.2	123 / 213	2 / 4
Total Copper (ug/L) All Data (13 months) (5)	2.0	2.0 / 2.0	37.6 / 671	4.4 / 7.6	123 / 241	79 / 69
Total Lead (ug/L) All Data (13 months) (4)	2.0	1.0 / 1.0-2.0	9.3 / 1660	1.4 / 8.7	123 / 241	31 / 49
Total Lead (ug/L) 1.0 RL Data (12 months)	2.0	1.0 / 1.0	9.3 / 1660	1.4 / 9.5	123 / 214	31 / 54
Total Nickel (ug/L) All Data (13 months) (4)	1.5	1.0 / 1.0-1.5	24.8 / 18.6	1.6 / 1.9	123 / 241	55 / 63
Total Nickel (ug/L) 1.0 RL Data (12 months)	1.5	1.0 / 1.0	24.8 / 18.6	1.6 / 1.9	123 / 219	55 / 70
Total Zinc (ug/L) All Data (13 months) (4)	6.0	5.0 / 5.0-6.0	45.0 / 47.5	10.6 / 12.3	123 / 241	78 / 88
Total Zinc (ug/L) 5.0 RL (12 months)	6.0	5.0 / 5.0	45.0 / 47.5	10.6 / 12.5	123 / 234	78 / 90

(1) E. coli mean is calculated as an Geometric Mean rather than an Arithmetic Mean as in the other parameters

(2) If Maximum or Minimum and Mean where both higher in one weather type, the parameter is classified as higher in that weather type.
In the absence of clear weather type, the % Detected was used to determine the weather impact type.

Brown text indicates dry weather impacted parameters, Blue text indicates wet weather impacted parameters. No color indicates no weather-related impact.

(3) The E. coli method used by Citizens' contracted laboratory (approved by IDEM) reports Most Probable Number/100 mL

(4) Minimums, Maximums, Means, and % Detected values biased high due to Laboratory/Reporting Limit change for last dataset, October 11-12, 2017. Reporting Limits for Cadmium, Lead, Nickel, and Zinc increased 0.5 to 1.8 ug/L, data was evaluated using and excluding October 2017 data.

Parameter and unit	IDEM Parameter Reporting Limit	Minimum Detected Value (Dry / Wet)	Maximum Detected Value (Dry / Wet)	Mean of Detected Value (Dry / Wet) (1)	Number (Dry / Wet)	% Detected (Dry / Wet)	Dry vs Wet, Minimum (2)	Dry vs Wet, Maximum (2)	Dry vs Wet, Mean (2)	Dry vs Wet, % Detected
	Dissolved Oxygen (mg/L)	1.0	4.29 / 3.72	15.65 / 14.99	9.87 / 10.24	123 / 241	100 / 100	Dry	Dry	Wet
Water Temperature (°C)	None	2.03 / 0.48	28.63 / 24.22	14.24 / 12.70	123 / 241	100 / 100	Dry	Dry	Dry	--
pH (units)	None	7.44 / 7.16	8.32 / 8.60	7.99 / 7.98	117 / 241	100 / 100	Dry	Wet	Dry	--
Specific Conductivity (uS/cm)	1.0	430 / 232	1315 / 1674	844 / 672	123 / 241	100 / 100	Dry	Wet	Dry	--
Biochemical Oxygen Demand (mg/L)	2.0	1.00 / 1.00	3.94 / 667	1.71 / 5.53	123 / 241	83 / 92	--	Wet	Wet	Wet
Nitrogen-Ammonia (mg/L)	0.03	0.030 / 0.030	1.98 / 0.851	0.074 / 0.107	123 / 241	78 / 89	--	Dry	Wet	Wet
Total Suspended Solids (mg/L)	4.0	1.00 / 1.00	119 / 195	8.85 / 19.6	123 / 241	87 / 98	--	Wet	Wet	Wet
E. coli (MPN/100mL) (3)	1.0	1 / 2	6570 / 48800	220 / 711	123 / 241	99 / 100	Wet	Wet	Wet	Wet
Chloride (mg/L)	1.0	18.7 / 9.11	225 / 348	87.2 / 78.0	123 / 240	100 / 100	Wet	Wet	Dry	--
Amenable Cyanide (ug/L)	5.0	5.0 / 5.0	5.0 / 5.0	5.0 / 5.0	123 / 241	0 / 0	--	--	--	--
Chemical Oxygen Demand (mg/L)	3.0	3.00 / 3.00	27.9 / 58.2	13.2 / 17.8	123 / 241	99 / 97	--	Wet	Wet	Dry
Total Hardness (mg/L)	1.0	166 / 84	471 / 415	338 / 251	123 / 241	100 / 100	Dry	Dry	Dry	--
Nitrogen-Kjeldahl (mg/L)	0.5	0.050 / 0.050	4.91 / 3.15	0.510 / 0.768	123 / 241	98 / 96	--	Dry	Wet	Dry
Nitrogen-Nitrate Nitrate (mg/L)	0.01	0.010 / 0.010	5.45 / 5.28	1.39 / 1.08	123 / 240	96 / 99.6	--	Dry	Dry	Wet
Oil and Grease (mg/L)	5.0	-- / 5.0	-- / 6.8	-- / 5.0	0 / 83	-- / 1.0	--	--	--	--
Total Phosphorus (mg/L)	0.01	0.010 / 0.010	1.69 / 0.603	0.132 / 0.133	123 / 241	88 / 98	--	Dry	Wet	Wet
Total Dissolved Solids (mg/L)	6.0	209 / 110	823 / 909	493 / 371	123 / 241	100 / 100	Dry	Wet	Dry	--
Total Arsenic (ug/L)	5.0	5.0 / 5.0	5.0 / 5.0	5.0 / 5.0	123 / 241	0 / 0	--	--	--	--
Total Cadmium (ug/L) All Data (13 months) (4)	2.0	0.2 / 0.2-2.0	1.1 / 2.0	0.2 / 0.4	123 / 241	2 / 3	--	--	Wet	Wet
Total Cadmium (ug/L) 0.2 RL Data (12 months)	2.0	0.2 / 0.2	1.1 / 1.0	0.2 / 0.2	123 / 213	2 / 4	--	Dry	--	Wet
Total Copper (ug/L) All Data (13 months) (5)	2.0	2.0 / 2.0	37.6 / 671	4.4 / 7.6	123 / 241	79 / 69	--	Wet	Wet	Dry
Total Lead (ug/L) All Data (13 months) (4)	2.0	1.0 / 1.0-2.0	9.3 / 1660	1.4 / 8.7	123 / 241	31 / 49	--	Wet	Wet	Wet
Total Lead (ug/L) 1.0 RL Data (12 months)	2.0	1.0 / 1.0	9.3 / 1660	1.4 / 9.5	123 / 214	31 / 54	--	Wet	Wet	Wet
Total Nickel (ug/L) All Data (13 months) (4)	1.5	1.0 / 1.0-1.5	24.8 / 18.6	1.6 / 1.9	123 / 241	55 / 63	--	Dry	Wet	Wet
Total Nickel (ug/L) 1.0 RL Data (12 months)	1.5	1.0 / 1.0	24.8 / 18.6	1.6 / 1.9	123 / 219	55 / 70	--	Dry	Wet	Wet
Total Zinc (ug/L) All Data (13 months) (4)	6.0	5.0 / 5.0-6.0	45.0 / 47.5	10.6 / 12.3	123 / 241	78 / 88	--	Wet	Wet	Wet
Total Zinc (ug/L) 5.0 RL (12 months)	6.0	5.0 / 5.0	45.0 / 47.5	10.6 / 12.5	123 / 234	78 / 90	--	Wet	Wet	Wet

(1) E. coli mean is calculated as an Geometric Mean rather than an Arithmetic Mean as in the other parameters

(2) If Maximum or Minimum and Mean where both higher in one weather type, the parameter is classified as higher in that weather type.
In the absence of clear weather type, the % Detected was used to determine the weather impact type.
Brown text indicates dry weather impacted parameters, Blue text indicates wet weather impacted parameters. No color indicates no weather-related impact.

(3) The E. coli method used by Citizens' contracted laboratory (approved by IDEM) reports Most Probable Number/100 mL

(4) Minimums, Maximums, Means, and % Detected values biased high due to Laboratory/Reporting Limit change for last dataset, October 11-12, 2017. Reporting Limits for Cadmium, Lead, Nickel, and Zinc increased 0.5 to 1.8 ug/L, data was evaluated using and excluding October 2017 data.

APPENDIX IV – Stormwater Quality Management Plan (SWQMP)

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**Storm Water Quality Management Plan (SWQMP)
2018**

Permit Section	Task Name	2018 Plan	Start Date	End Date	Funding Source	Responsible Group
General						
NA	MS4 System	Continue incorporating backlog of inputs, update Digital Data Submission Standards, continue implementation GIS QA/QC plan.	Ongoing	Ongoing	SW Fund	DPW GIS
NA	Private Post-Construction BMPs	Continue implementation of the GIS QA/QC and PPIP efforts which include BMP GIS input backlog	Ongoing	Ongoing	SW Fund	DPW/BNS
NA	Public Post-Construction BMPs	Continue implementation of the GIS QA/QC and PPIP efforts which include BMP GIS input backlog	Ongoing	Ongoing	SW Fund	DPW
Legal Authority						
II.A.1.a	Legal authority to control industrial discharges	Legal authority in place.	Ongoing	Ongoing	SW Fund, Fees	DPW Engineering / BNS / MCHD
II.A.1.a	Legal authority to control construction site discharges	Legal authority in place. See II.F.1 CPIP for recommended updates.	Ongoing	Ongoing	SW Fund, Fees	DPW Engineering / BNS
II.A.1.b	Legal authority to prohibit illicit discharges	Legal authority in place.	Ongoing	Ongoing	SW Fund, Fees	DPW Engineering / BNS / MCHD
II.A.1.c	Legal authority to control spills and dumping of non-storm water materials	Legal authority in place.	Ongoing	Ongoing	SW Fund, Fees	DPW Engineering / BNS
II.A.1.d	Legal authority to require compliance with city ordinances, permits, contracts or orders.	Legal authority in place.	Ongoing	Ongoing	SW Fund, Fees	DPW Engineering / BNS
II.A.1.e	Legal authority to inspect for compliance with permit conditions and illicit discharges.	Legal authority in place.	Ongoing	Ongoing	SW Fund, Fees	DPW Engineering / BNS
II.A.1.f	Legal agreement(s) with the City of Lawrence.	Schedule the required Annual Meeting in Spring	5/1/18	8/1/18	SW Fund	DPW Engineering
II.A.1.f	Legal agreement(s) with the Town of Speedway.	Schedule the required Annual Meeting in Spring	5/1/18	8/1/18	SW Fund	DPW Engineering
II.A.1.f	Legal agreement(s) with the City of Beech Grove.	Schedule the required Annual Meeting in Spring	5/1/18	8/1/18	SW Fund	DPW Engineering
II.A.1.f	Legal agreement(s) with the City of Southport.	Schedule the required Annual Meeting in Spring	5/1/18	8/1/18	SW Fund	DPW Engineering
II.A.3	Legal agreement with the four universities.	Schedule the required Annual Meeting in Spring, continue to encourage universities to share resources	5/1/18	8/1/18	SW Fund	DPW Engineering

**Storm Water Quality Management Plan (SWQMP)
2018**

Permit Section	Task Name	2018 Plan	Start Date	End Date	Funding Source	Responsible Group
Pollution Prevention, Operations and Maintenance						
II.B.1.a	Operation and maintenance procedures for structural BMPs on MS4 conveyances.	Continue implementation of draft SOP. CEG to perform inspection and maintenance of SQUs. CEG contract covers maintenance of MS4 conveyances. Track inspections and cleanings in Infor.	Ongoing	Ongoing	SW Fund	DPW Operations/CEG
II.B.1.b	To implement the existing SOP for open channel and ditch inspections and maintenance	Finalize new SOP draft. Continue SOP implementation until new SOP approved by IDEM.	Ongoing	Ongoing	SW Fund	DPW Operations
II.B.1.c	Audit the MS4 conveyance inspection and maintenance activities to assure appropriate BMPs are used, conditions of permit are met and pollutant discharges are minimized.	Continue annual training for CMS on erosion and sediment control, NPDES compliance. Monitor implementation of new Channel Maintenance and Post-Construction BMP SOPs. CEG required to comply with local regulations when performing maintenance activities for the City.	3/1/18	6/1/18	SW Fund	DPW Engineering / Operations
II.B.1.d	Inspection & maintenance of parking lots.	Gain EPA approval of draft SOP combining Parking Lot and Vehicle Maintenance Facilities SOPs. Begin implementation of new SOP 1st quarter 2018.	Ongoing	Ongoing	SW Fund	DPW Operations
II.B.2.a	Storm drain marking program.	Continue to engage university and corporate volunteers. Goal is to coordinate 2 volunteer events. CEG contracted to mark 2000 storm drains annually.	Ongoing	Ongoing	SW Fund	DPW Engineering / Operations
II.B.2.b	Inspection and cleaning of catch basins and inlets based on historical volumes of trash and/or debris accumulation.	Continue maintenance contract and activities with CEG	Ongoing	Ongoing	SW Fund	DPW Operations / CEG
II.B.2.c	Street sweeping based on historical volumes of trash and/or debris accumulation.	Street sweeping focused on thoroughfares and special events.	Ongoing	Ongoing	SW Fund	DPW Operations / CEG
II.B.2.d	Minimize and track deicing materials, salt, sand, etc.	Continue tracking of deicing materials used. Continue no sand policy. Continue annual training of Snow Force personnel.	Ongoing	Ongoing	SW Fund	DPW Operations
II.B.2.e	Identify and correct erosion issues in city rights of way.	Continue to address erosion issues within rights-of-way as they are discovered.	Ongoing	Ongoing	SW Fund	DPW Operations
II.B.2.f	Roadside and median maintenance contractors to dispose of litter properly.	Maintenance contracts include this requirement. Continue relationship with KIB for ongoing trash removal. Educate public via It's My City campaign. Continue training for solid waste crews to minimize trash blowing out of trucks.	Ongoing	Ongoing	SW Fund	DPW Engineering / Operations
II.B.3.b	Implement pollution prevention SOPs for maintenance, material storage and vehicle yard facilities.	Gain EPA approval of draft SOP combining Parking Lot and Vehicle Maintenance Facilities SOPs. Begin implementation of new SOP 1st quarter 2018. Continue annual training. Purchase additional compliance supplies ("wish list") Add Operations NPDES needs (wash bays, trash compactors, salt barns, etc.) to capital projects list and prioritize. Require an update of each facility SWPPP once per year.	Ongoing	Ongoing	SW Fund	DPW Operations
II.B.3.c	City-owned vehicle and equipment wash areas wash waters are contained, discharged to sanitary sewer or are allowed to discharge via an NPDES wastewater permit.	Existing wash bays connected to sanitary sewers. Consider wash bay during design of any new salt storage facility(s). Consider wash bays for possible capital program. Consider adding wash bays to CMS vector truck route. Require supervisors to inspect sumps quarterly (add to SWPPPs and update SOP). Use these inspections to determine frequency of vector truck visits.	Ongoing	Ongoing	SW Fund	DPW Operations
II.B.4	The city shall evaluate existing structural flood control devices to determine if retrofitting could provide additional pollutant removal.	Basins were evaluated in past reporting periods. Water quality will be considered for new basin projects.	Ongoing	Ongoing	SW Fund	DPW Engineering
II.B.5.c.1-4, 6-8	Pesticide and fertilizer storage area inspections and training.	Include in annual training of operations personnel.	5/1/18	10/31/18	SW Fund	DPW Operations
II.B.5.c.5	Encourage retention and planting of native vegetation and reduction of fertilizer and pesticide use within the MS4 area.	Continue current programs. Include this topic in public outreach messages.	Ongoing	Ongoing	SW Fund	DPW Engineering/Sustainability/Parks Operations/Land Stewardship
II.B.6.a	Storm Water Quality Management Plan (SWQMP) training for targeted staff within the first year of the permit.	Not required in 2018. Training will be held for any proposed revisions.	As needed	As needed	SW Fund	DPW Engineering

**Storm Water Quality Management Plan (SWQMP)
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Permit Section	Task Name	2018 Plan	Start Date	End Date	Funding Source	Responsible Group
Post-Construction Storm Water Run-off (New Development and Redevelopment)						
II.C.1.a	Storm Water Design and Construction Specifications Manual updates.	Continue updates to manual and code per the CPIP and PPIP recommendations.	Ongoing	Ongoing	SW Fund, General Fund	DPW Engineering / BNS
II.C.1.b	Green Supplemental Document guidance for sustainable development	Keep GSD on website. Promote green infrastructure via the SW Credit program	Ongoing	Ongoing	SW Fund	DPW Engineering
II.C.1.c	Require post construction BMPs for developments with 1/2 acre + new impervious surface	Standards are in place	Ongoing	Ongoing	SW Fund, Fees	DPW Engineering / BNS
II.C.1.d	Require post construction BMPs that treat heavy metals and PAHs for retail gas stations with 1/2 acre + new impervious surface.	PAHs and heavy metals removal as part of the 80% TSS removal requirement.	Ongoing	Ongoing	SW Fund, Fees	DPW Engineering / BNS
II.C.1.e	Ensure BMPs are appropriately designed and maintained to allow optimal water quality improvement.	Continue review process for new products and individual developments. Consider recertification of Stormwater Quality Units using new Testing Criteria. Continue to implement PPIP plan.	Ongoing	Ongoing	SW Fund, Fees	DPW Engineering / BNS
II.C.1.f	Ensure new development and redevelopment includes reduced pollutant loads, peak discharge rates, velocities and duration	Standards are in place	Ongoing	Ongoing	SW Fund, Fees	DPW Engineering / BNS
II.C.1.g.(1)	Train city staff on new water quality requirements as necessary.	As needed. Issue Memorandums to reviewers when manufacturers' product evaluation results in updates	As needed	As needed	SW Fund	DPW Engineering
II.C.1.g.(2)	Train inspectors and designers employed or contracted by the city annually.	Determine staff inspector training protocol as part of PPIP and BMP SOP implementation. Require contracted inspectors to attend training and/or be certified. Designers are required to be PE's which includes continuing education.	4/1/18	Ongoing	SW Fund, Fees	DPW Engineering / BNS
II.C.2.a	Evaluate the inspection policy & SOP for Post Construction BMPs for the maintenance and long-term functionality (quality and quantity).	Continue to implement PPIP plan.	1/1/18	12/31/18	SW Fund, General Fund	DPW Engineering / BNS
II.C.2.b	Develop a Quality Assurance Plan (QAP) within the first year to ensure staff and/or contractors are performing post construction BMP monitoring and that deficiencies are being addressed by the city.	The requirement completed in previous permit year.	1/1/18	12/31/18	SW Fund	DPW Engineering
II.C.3	Define the boundary of Post Construction Authority	Complete. See II.A.1.f	Ongoing	Ongoing	SW Fund	DPW Engineering
II.C.4	Develop goals and objectives to the Post Construction Program annually and identify program improvements needed to be implemented the following year.	Continue to implement PPIP plan.	Ongoing	Ongoing	SW Fund, General Fund	DPW Engineering / BNS / DPW Operations

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Permit Section	Task Name	2018 Plan	Start Date	End Date	Funding Source	Responsible Group
Illicit Discharges and Improper Disposal						
II.D.1.a	Develop and implement an inspection program including ordinances, orders or similar means to prevent illicit discharges.	Legal authority in place. Continue CEG and MAC call centers. Execute agreement with MCPHD. Draft IDDE SOP.	Ongoing	Ongoing	SW Fund, Fees	DPW Engineering / BNS
II.D.1.b	Continue dry weather screening of new outfalls mapped.	Continue Stormwater Operations Contract with Citizens Energy Group and/or train replacement employees on dry weather screening and GIS input	Ongoing	Ongoing	SW Fund	DPW Engineering/ CEG
II.D.1.c-d	Prioritize the screening of outfalls and complete 20% annually including an investigation/follow-up actions on illicit discharges found.	Contract with GRW to screen all prioritized outfalls in 2018.	12/11/17	10/31/18	SW Fund	DPW Operations
II.D.1.e	Legal authority to require cleanup/disconnection of illicit discharge.	Legal authority in place.	Ongoing	Ongoing	SW Fund, Fees	DPW Engineering/ CEG
II.D.1.f	Continue current programs that minimize migration of sewage to MS4 conveyances.	Continue coordination with Citizens Energy Group programs	Ongoing	Ongoing	SW Fund	DPW Engineering/ CEG
II.D.2	Continue mapping of remaining outfalls, conveyances and waters of the state.	Mapping effort is complete. Maintenance/updates to the map are incorporated as discrepancies are discovered. Continue to implement GIS OA/QC plan	Ongoing	Ongoing	SW Fund	DPW Engineering/ CEG
II.D.3	Continue inspections and tracking for newly-licensed pesticide applicator facilities. A summary of inspections and changes to the program shall be included in the annual reports.	The State Chemist Office provides this service.	Ongoing	Ongoing	SW Fund	State Chemist Office
II.D.4	Continue to implement and track spill prevention and response programs including Marion County Emergency Management Plan for Hazardous Materials Emergencies, Chapter 20 of the Marion County Health Department ordinance and the Mayor's Action Center reporting.	Continue CEG call center and Mayor's Action Center. Incorporate tracking into draft IDDE SOP.	Ongoing	Ongoing	SW Fund	DPW Operations / Marion Co Health Dept.
II.D.5	Continue used oil and hazmat waste collection programs.	Continue to budget the toxdrop program. Promote toxdrop via social media, website, and other media.	Ongoing	Ongoing	SW Fund	DPW Operations

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Permit Section	Task Name	2018 Plan	Start Date	End Date	Funding Source	Responsible Group
Industrial Run-off Control						
II.E.1.a-b	Identify industrial sources of concern, create and maintain a database that's updated annually. A summary of industrial facilities shall be provided in the annual reports.	Update database annually.	Ongoing	Ongoing	SW Fund	DPW Engineering
II.E.1.c.(1)	Inspect all industrial facilities once in the 5-year permit term.	Complete inspections via PSA SY-00-232. Complete follow up inspections, finalize report and submit final report to IDEM.	Complete	Complete	SW Fund	DPW Engineering / DPW Operations
II.E.1.c.(2)	Certification of implementation of the inspection program	Due with 2017 Annual Report	1/1/18	1/28/18	SW Fund	DPW Engineering
II.E.1.c.(3)	Legal authority to require correction of deficiencies found.	Legal authority in place.	Ongoing	Ongoing	SW Fund, Fees	DPW Engineering / BNS
II.E.1.c.(4)	Inspect all restaurants within the jurisdiction. An SOP and training for inspectors, and education materials for restaurants shall be developed as needed.	Education materials and training complete. Complete remaining restaurant inspections	1/1/18	10/31/18	SW Fund	DPW Engineering / DPW Operations
II.E.1.c.(5)	Inspect 10 automotive facilities annually for employee education programs compliance. If deficiencies are found, the city shall revise and implement an education strategy.	Continue program.	Ongoing	Ongoing	SW Fund	DPW Operations
II.E.1.c.(6)	Inspect 10 retail gasoline outlets annually for employee education programs compliance. If deficiencies are found, the city shall revise and implement an education strategy.	Continue program.	Ongoing	Ongoing	SW Fund	DPW Operations
II.E.1.c.(7)	Inspect all municipal landfills once per permit term.	Completed 2017	Complete	Complete	SW Fund	DPW Operations
II.E.1.c.(8)	Inspect all HazMat Treatment, storage, disposal and recovery facilities once per permit term.	Inspections completed in 2016.	Complete	Complete	SW Fund	DPW Engineering / DPW Operations
II.E.1.c.(9)	Inspect all Title III Industrial Facilities once per permit term.	Inspections completed in 2016.	Complete	Complete	SW Fund	DPW Engineering / DPW Operations
II.E.1.c.(10)	inspect all Rule 6 Industrial Facilities once per permit term.	Inspections completed in 2016.	Complete	Complete	SW Fund	DPW Engineering / DPW Operations
II.E.1.c.(11)	Inspect all Industrial Facilities Contributing Substantial Pollutant Loadings once per permit term.	Inspections completed in 2016.	Complete	Complete	SW Fund	DPW Engineering / DPW Operations
II.E.1.d	Maintain industrial inspection and enforcement records.	Perform follow up inspections and submit report to IDEM	1/1/18	3/1/18	SW Fund	DPW Engineering / DPW Operations
II.E.1.e	Collaborate with IDEM on substantial pollutant discharges including providing information for IDEM to pursue enforcement action.	Continue notification as needed. Develop a process for reporting	Ongoing	Ongoing	SW Fund	DPW Engineering / DPW Operations
II.E.1.f	Notify IDEM when facility has been identified that needs and does not have a Rule 6 permit.	Continue notification as needed. Develop a process for reporting	3/1/18	9/1/18	SW Fund	DPW Engineering / DPW Operations

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2018**

Permit Section	Task Name	2018 Plan	Start Date	End Date	Funding Source	Responsible Group
Construction Site Run-off Control						
II.F.1	Construction Program Implementation Plan (CPIP) to improve the implementation of the construction program.	Continue implementation.	1/1/18	12/31/18	SW Fund, General Fund	DPW Engineering / BNS
II.F.2	Modify city legal documents to comply with NEW Rule 5 permit conditions upon notification from IDEM.	If applicable and after notification, incorporate with CPIP implementation	After Notification		SW Fund	DPW Engineering
II.F.3	Continue to submit NOI letters to IDEM and SWPPPs to SWCD for city-owned construction activities.	Continue program.	Ongoing	Ongoing	SW Fund	DPW Engineering
II.F.4	Require smaller projects operated by the city to comply with city ordinance Chapter 600.	Requirement is in place.	Ongoing	Ongoing	SW Fund	DPW Engineering
II.F.5	Renew the MOA with SWCD regarding Rule 5 process, roles and responsibilities.	Agreement in place. Continue to mentor new employee. Revise agreement as needed.	Ongoing	Ongoing	SW Fund, General Fund	DPW Engineering/ BNS /SWCD
II.F.6.a-c	Maintain records of project non-compliance cited by SWCD or city inspectors including name of inspector, violations and actions taken.	Continue SWCD tracking. Update CIP Inspection Client to include this requirement. Oversee contracted BNS inspectors for Accela data input.	Ongoing	Ongoing	SW Fund, Fees	DPW Engineering/ BNS /SWCD
II.F.6.d	Provide project Rule 5 permit data on the web	Information on the Accela database accessed via https://permitsandcases.indy.gov/	Ongoing	Ongoing	Fees	BNS
II.F.7.a	Annual training program for project inspectors employed or contracted by the city on storm water quality measures including erosion and sediment control.	Provide annual training at ACEC. Require INDOT Certification for RPRs. Certification required for BNS contracted inspectors beginning 7/1/2018. Train BNS staff inspectors annually. Continue topic in contractor's orientation. INDOT RSP 205-R-636 to be implemented into locally funded project beginning 1/1/2018.	Ongoing	Ongoing	SW Fund	DPW Engineering
II.F.7.b	Annual training for plan review staff employed or contracted by the city on storm water quality measures including erosion and sediment control annually.	Continue annual training.	6/1/18	10/1/18	SW Fund	DPW Engineering
II.F.8.a(1)	Review inspection forms and plan review to ensure erosion & sediment control is included for projects regulated by the city.	Requirement met in 2014. Implement recommended improvements via CPIP (II.F.1).	1/1/18	12/31/18	SW Fund, General Fund	DPW Engineering / BNS
II.F.8.a(2)	Review and revise enforcement mechanisms including fines, stop work orders, etc. to improve construction program compliance.	Continue to implement CPIP recommendations	1/1/18	12/31/18	SW Fund, General Fund	DPW Engineering / BNS
II.F.8.b(1)	Develop or review self monitoring forms and policies associated with city owned projects.	Requirement met in 2014. Continue to implement CPIP recommendations	1/1/18	12/31/18	SW Fund	DPW Engineering
II.F.8.b(2)	Quality Assurance Plan for staff performing self monitoring inspections.	Requirement completed in 2014	Complete	Complete	SW Fund	DPW Engineering
II.F.9	Define limits of construction program through MOA with excluded cities	See II.A.1.f	Ongoing	Ongoing	SW Fund	DPW Engineering
II.F.10	As part of the annual report, the city shall define goals and objectives for construction program improvements to be implemented in the upcoming year.	CPIP team (or establish other) recommended to suggest improvements each year.	Ongoing	Ongoing	SW Fund	DPW Engineering

**Storm Water Quality Management Plan (SWQMP)
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Permit Section	Task Name	2018 Plan	Start Date	End Date	Funding Source	Responsible Group
Public Education and Outreach						
II.G.1	Continue promoting the hotline and website to encourage the public to report illicit discharges and improper disposal of materials.	Continue program.	Ongoing	Ongoing	SW Fund	PIO
II.G.2	Continue the assessment strategy to estimate the current level of public involvement developed in the second permit term.	Requirement completed in 2014	Complete	Complete	SW Fund	DPW Engineering/ PIO
II.G.3	Seek input from the public on the SWQMP via meetings, a local advisory group, or other strategy.	Continue quarterly TAC meetings	Ongoing	Ongoing	SW Fund	DPW Engineering/ PIO
II.G.4	Educate public on oil and toxic material disposal and have facilities available for disposal/drop-off of household hazardous wastes.	Continue including toxdrop messages in handouts, website, etc. Continue toxdrop site/program.	Ongoing	Ongoing	SW Fund	DPW Engineering/ DPW Operations/ PIO
II.G.5	Educate residential, business and commercial users on proper fertilizer, herbicide and pesticides use and disposal.	Continue fertilizer, herbicide, pesticide messages in outreach materials.	Ongoing	Ongoing	SW Fund	DPW Engineering/ PIO
II.G.6	Educate residents on water resources via the "no dumping" inlet marking program and illegal dumping signs posted at public access points to water bodies.	Continue to engage volunteer groups. Inventory existing no dumping signs and determine if more are needed in other locations.	Ongoing	Ongoing	SW Fund	DPW Engineering/ DPW Operations/ PIO
II.G.7	Educate school children on storm water pollution issues using the program implemented during the second permit term. Educational materials should also be posted at public locations such as parks and museums.	Continue partnering with KIB and include stormwater in their outreach to school children. Continue parks outreach programs. Consider Project WET involvement.	Ongoing	Ongoing	SW Fund	DPW Engineering/ PIO
II.G.8	Educate construction site operators, contractors and engineers on pollution prevention at job sites annually, alone or in conjunction with other entities.	Continue erosion and sediment control topic in contractor's orientation (provided by BNS), continue annual training outlined in Section F, implement certification requirement.	Annually	Annually	SW Fund, Fees	DPW Engineering/ BNS
II.G.9	Educate owners of commercial riparian properties, city employees and/or contractors about proper stream bank management and water quality once in the permit term.	Outreach via social media messaging, events, public meetings, newsletters, and the Riparian Fact Sheet posted online at indy.gov. Purchase excess parcels within floodplains as available. Allow floodplains to be forested with minimal maintenance, connect with entities such as the Indianapolis Chamber of Commerce, Friends of White River, Keep Indianapolis Beautiful to reach local businesses	Ongoing	Ongoing	SW Fund	DPW Engineering / PIO
II.G.10	Educate business about storm water regulations, BMPs and pollution prevention annually. Different stakeholders should be invited each year.	Connect with entities such as the Indianapolis Chamber of Commerce and local trade associations and professional organizations to reach local businesses. Develop a plan to reach different audiences each year.	Annually	Annually	SW Fund	DPW Engineering / PIO
II.G.11	Educate owners, designers, developers on sustainable development focused on green infrastructure.	Green infrastructure is encouraged via the storm water utility credit program.	Ongoing	Ongoing	SW Fund	DPW Engineering/ Sustainability/PIO
II.G.12	Assess the constituent knowledge in first year	Requirement met in 2014. Use information to direct public education and outreach efforts.	Complete	Complete	SW Fund	DPW Engineering/PIO

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Permit Section	Task Name	2018 Plan	Start Date	End Date	Funding Source	Responsible Group
Assessment of Controls						
III.J.1.a	The city shall submit a certification that an annual review of SWQMP has been completed with the annual reports.	Due with 2017 Annual Report	Annually	1/28/18	SW Fund	DPW Engineering
III.J.1.b	Identification of known impacts of storm water controls on ground water.	Analyze complaints in project vicinity after infiltrative practices installed.	Ongoing	Ongoing	SW Fund	DPW Engineering
III.J.1.c	Identification of locations where BMPs will be placed within City.	BMPs are considered per each public project during planning and design	Ongoing	Ongoing	SW Fund	DPW Engineering
III.J.2	Conduct or participate in studies for structural BMP effectiveness.	Stormwater Quality Unit testing criteria updated in 2017. Considering requiring manufacturers to retest using new criteria and recertify	1/1/16	10/31/18	SW Fund	CEG/ERMD/DPW Engineering
Monitoring Program						
III.A.1	Sample receiving waters for pollutants at 28 locations and submit river monitoring reports monthly.	Continue program.	Monthly	Monthly	SW Fund	DPW Engineering/ DPW Operations
III.A.3	Coordinate monitoring efforts and conclusions with the health department.	The city shall coordinate monitoring efforts and conclusions with the health department. Execute interlocal agreement	As needed	As needed	SW Fund	DPW Engineering/ DPW Operations/ MCPHD
Annual Reports						
IV.A.3	Year 2 Annual Report	Complete	Complete	Complete	SW Fund	DPW Engineering
IV.A.3	Year 4 Annual Report	Complete	Complete	Complete	SW Fund	DPW Engineering
Renewal of Permit						
V.4	Submit application for renewal of permit	Prepare and submit renewal application	2/15/2018	5/4/2018	SW Fund	DPW Engineering